Seychelles Static Test

District: Perseverance
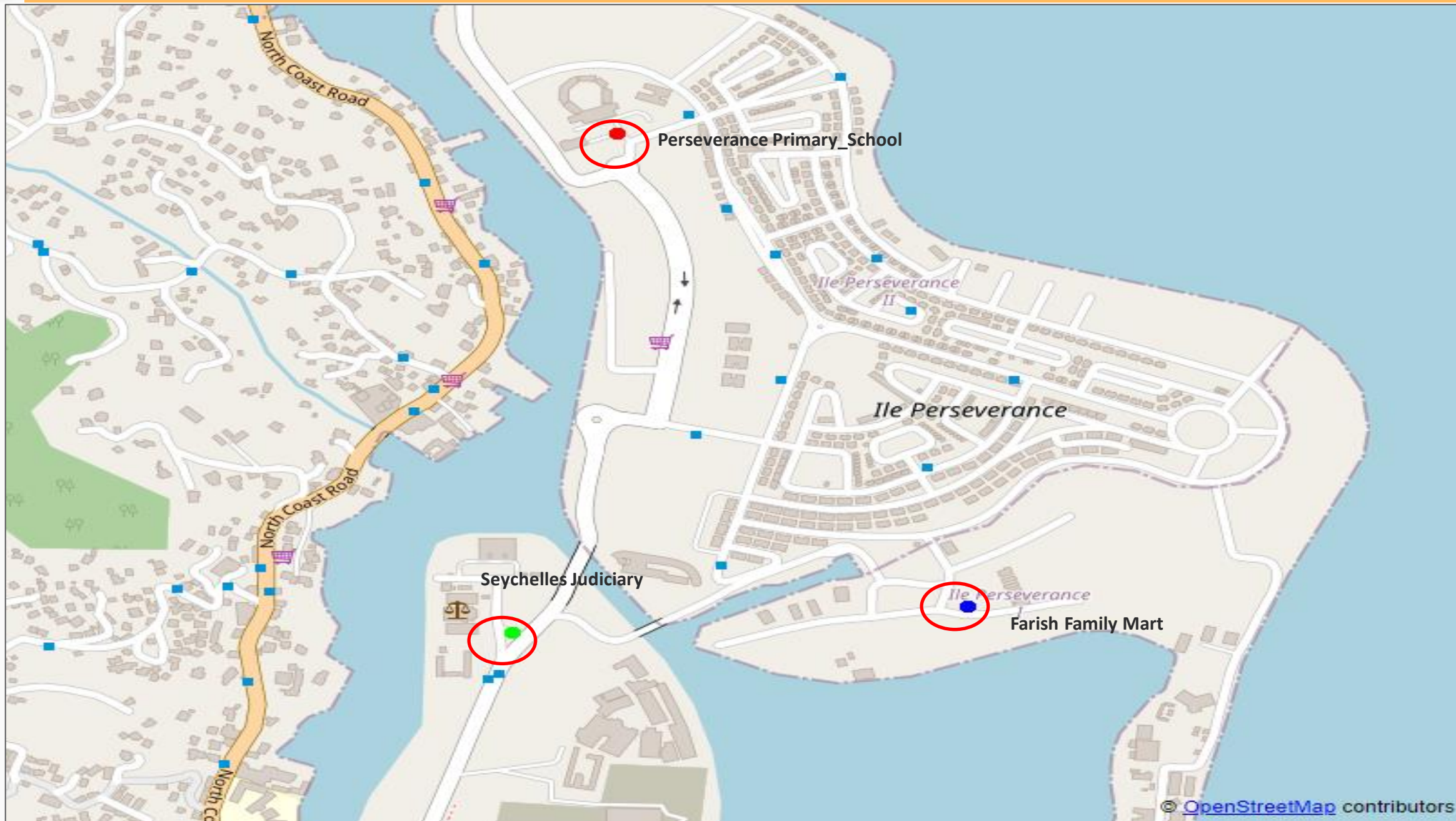
Date of Testing:- 26th Sep 2024

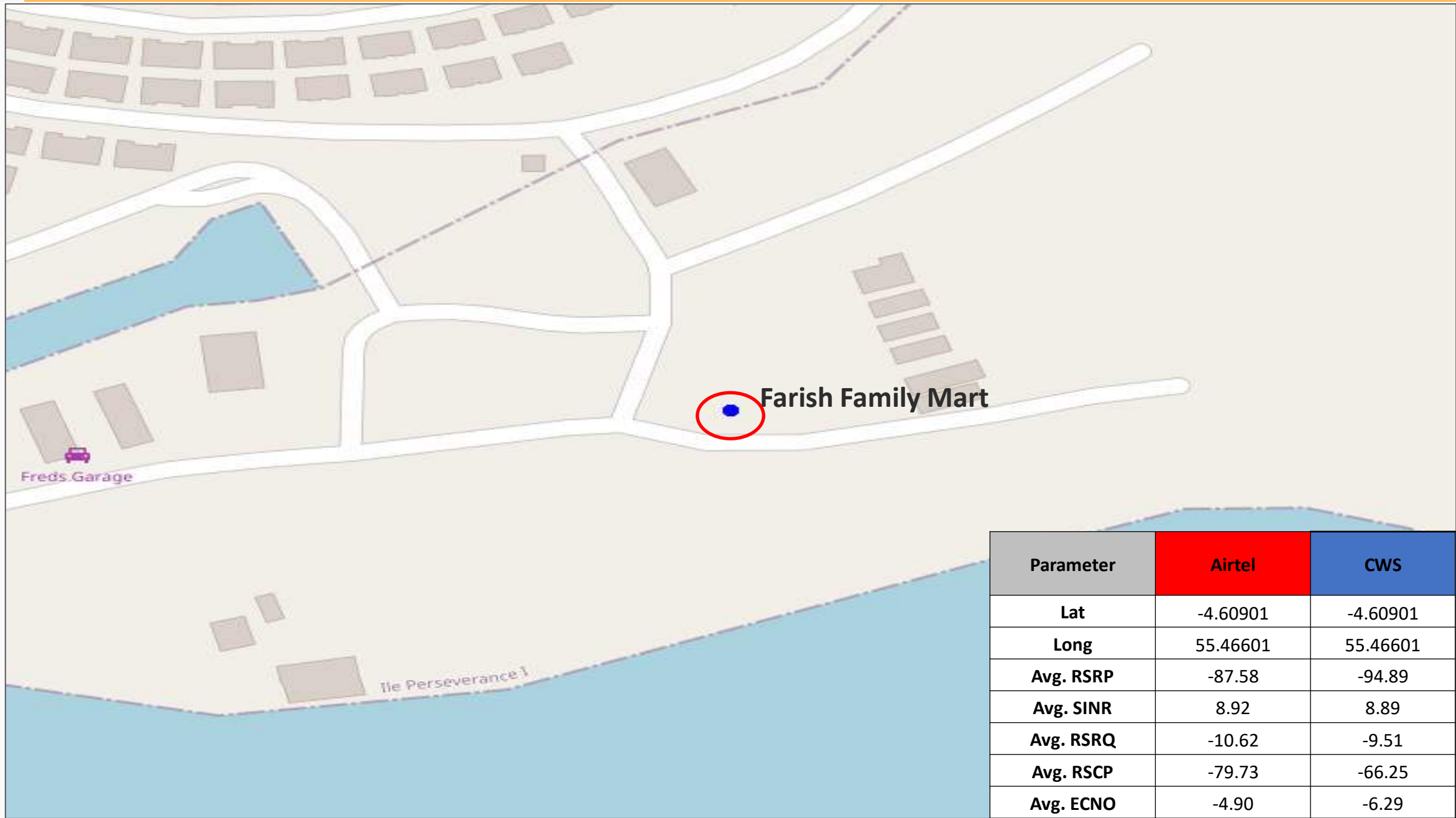**Report Date:- 10th Oct 2024**

VOICE TEST METHODOLOGY

DATA	Test Type and Timeout	Technology 3G Preferred	Technology 4G Preferred
POP always on. ICMP PAYLOAD PING 800 BYTES		
1	FILE TRANSFER DOWNLOAD	FTP DL (3MB)	FTP DL (5MB)
	135s	wait 10s	wait 10s
2	FILE TRANSFER UPLOAD	FTP UL (1MB)	FTP UL (3MB)
	135s	wait 10s	wait 10s
3	FILE TRANSFER DOWNLOAD	HTTP Get (3MB)	HTTP Get (5MB)
	135s	wait 10s	wait 10s
4	FILE TRANSFER UPLOAD	HTTP Put (1MB)	HTTP Put (3MB)
	135s	wait 10s	wait 10s
5	ICMP PING 32 BYTES	Ping (32 bytes) *5	Ping (32 bytes) *5
		wait 10s	wait 10s
6	YOUTUBE STREAMING	Video: YouTube 60sec	Video: YouTube 60sec
	95 seconds	wait 10s	wait 10s
7	KEPLER WEB BROWSING	HTTPS Browsing: Kepler	HTTPS Browsing: Kepler
	45s	wait 10s	wait 10s
8	LIVE WEB BROWSING	www.shein.com, www.nbs.gov.sc, www.sbc.sc	www.shein.com, www.nbs.gov.sc, www.sbc.sc
	45s	wait 10s	wait 10s
9	KEPLER MOBILE WEB BROWSING	HTTPS Browsing: Kepler Mobile	HTTPS Browsing: Kepler Mobile
	45s	wait 10s	wait 10s
10	ICMP PING 32 BYTES	Ping (32 bytes) 5 www.google.com	Ping (32 bytes) 5 www.google.com
		wait 10s	wait 10s
11	FILE TRANSFER-CAPACITY DOWNLOAD	HTTP Get (500MB) Multiple files	HTTP Get (500MB) Multiple files
	10s fixed duration	wait 10s	wait 10s
12	FILE TRANSFER-CAPACITY UPLOAD	HTTP Put (500MB)-Multiple Files	HTTP Put (500MB)-Multiple Files
	10s fixed duration	wait 10s	wait 10s

Farish Family Mart

Freds Garage

Ile Perseverance 1

Parameter	Airtel	CWS
Lat	-4.60901	-4.60901
Long	55.46601	55.46601
Avg. RSRP	-87.58	-94.89
Avg. SINR	8.92	8.89
Avg. RSRQ	-10.62	-9.51
Avg. RSCP	-79.73	-66.25
Avg. ECNO	-4.90	-6.29

4G Preferred Data Findings:

- Airtel SFTP DL is (6.86 Mbps), while SFTP UL is (7.65 Mbps), CWS SFTP DL is (8.78 Mbps), while SFTP UL is (2.87 Mbps)

- Airtel HTTP DL is (9.36 Mbps), HTTP Capacity DL is (7.50 Mbps) ,HTTP UL is (12.49 Mbps) , and HTTP Capacity UL is (19.70 Mbps).

- CWS HTTP DL is (9.93 Mbps), HTTP Capacity DL is (34.70 Mbps) ,HTTP UL is (3.72 Mbps) , and HTTP Capacity UL is (9.89 Mbps).

- On live web page testing for browsing, www.shein.com took (7.56s), www.nbs.gov.sc took (17.37s), and www.sbc.sc took (16.32s) on Airtel.

- On live web page testing for browsing, www.shein.com took (6.01s), www.nbs.gov.sc took (16.65s), and www.sbc.sc took (13.01s) on CWS.

- On static browsing, Kepler Webpage took (4.10s), and Kepler Mobile took (1.70s) on Airtel.

- On static browsing, Kepler Webpage took (4.28s), and Kepler Mobile took (2.66s) on CWS.

- YouTube average resolution in Airtel is (1005.45) pixels.

- YouTube average resolution in CWS is (1040.05) pixels.

- Airtel scored 25.00% in Carrier Aggregation (CA).

- CWS scored 25.00% in Carrier Aggregation (CA).

3G Preferred Data Test Findings:

- Airtel SFTP DL is (6.22 Mbps), while SFTP UL is (2.36 Mbps), CWS SFTP DL is (4.02 Mbps), while SFTP UL is (1.03 Mbps)

- Airtel HTTP DL is (6.58 Mbps), HTTP Capacity DL is (9.69 Mbps) ,HTTP UL is (3.61 Mbps) , and HTTP Capacity UL is (6.65 Mbps).

- CWS HTTP DL is (2.90 Mbps), HTTP Capacity DL is (6.98 Mbps) ,HTTP UL is (1.73 Mbps) , and HTTP Capacity UL is (4.69 Mbps).

- On live web page testing for browsing, www.shein.com took (8.66s), www.nbs.gov.sc took (10.59s), and www.sbc.sc took (8.56s) on Airtel.

- On live web page testing for browsing, www.shein.com took (8.38s), www.nbs.gov.sc took (7.92s), and www.sbc.sc took (8.50s) on CWS.

- On static browsing, Kepler Webpage took (3.10s), and Kepler Mobile took (1.43s) on Airtel.

- On static browsing, Kepler Webpage took (4.79s), and Kepler Mobile took (2.24s) on CWS.

- YouTube average resolution in Airtel is (1047.27) pixels.

- YouTube average resolution in CWS is (1032.44) pixels.

DRIVE TEST KPI STATISTICS

	DATA Scenario	3G Preferred				4G Preferred			
		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	6.22	4.02	1	2	6.86	8.78	2	1
	SFTP UL(Mbps)	2.36	1.03	1	2	7.65	2.87	1	2
	HTTP DL(Mbps)	6.58	2.90	1	2	9.36	9.93	2	1
	HTTP UL(Mbps)	3.61	1.73	1	2	12.49	3.72	1	2
	HTTP Capacity DL(Mbps)	9.69	6.98	1	2	7.50	34.70	2	1
	HTTP Capacity UL(Mbps)	6.65	4.69	1	2	19.70	9.89	1	2
BROWSER	Overall Browser DL Time (s)	6.46	6.36	2	1	9.49	8.52	2	1
	Kepler Webpage DL Time (s)	3.10	4.79	1	2	4.10	4.28	1	2
	Mobile Kepler Webpage DL Time (s)	1.43	2.24	1	2	1.70	2.66	1	2
	www.shein.com Webpage DL Time (s)	8.66	8.38	2	1	7.56	6.01	2	1
	www.nbs.gov.sc Webpage DL Time (s)	10.59	7.92	2	1	17.37	16.65	2	1
	www.sbc.sc Webpage DL Time (s)	8.56	8.50	2	1	16.32	13.01	2	1
LATENCY	Avg Latency (ms)	276.56	179.37	2	1	262.25	173.05	2	1
	Median Latency (ms)	392	193	2	1	266	191	2	1
YOUTUBE	YouTube Access Time (s)	3.13	1.85	2	1	5.50	1.47	2	1
	YouTube Average Resolution (pixels)	1047.27	1032.44	1	2	1005.45	1040.05	2	1
	YouTube Success Ratio [%]	100.00	100.00	1	1	100.00	100.00	1	1

4G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	12	12	100.00	100.00
SFTP DL	Failure	0	0	0.00	0.00
SFTP UL	Success	12	12	100.00	100.00
SFTP UL	Failure	0	0	0.00	0.00
HTTP DL	Success	12	12	100.00	100.00
HTTP DL	Failure	0	0	0.00	0.00
HTTP UL	Success	12	12	100.00	100.00
HTTP UL	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	12	12	100.00	100.00
HTTP Capacity DL	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	12	12	100.00	100.00
HTTP Capacity UL	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	6.86	8.78	2	1
FILE TRANSFER	SFTP UL(Mbps)	7.65	2.87	1	2
FILE TRANSFER	HTTP DL(Mbps)	9.36	9.93	2	1
FILE TRANSFER	HTTP UL(Mbps)	12.49	3.72	1	2
FILE TRANSFER	HTTP Capacity DL(Mbps)	7.50	34.70	2	1
FILE TRANSFER	HTTP Capacity UL(Mbps)	19.70	9.89	1	2

4G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	11	12	91.67	100.00
Kepler	Failure	1	0	8.33	0.00
Mobile Kepler	Success	12	12	100.00	100.00
Mobile Kepler	Failure	0	0	0.00	0.00
www.shein.com	Success	12	12	100.00	100.00
www.shein.com	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	12	12	100.00	100.00
www.nbs.gov.sc	Failure	0	0	0.00	0.00
www.sbc.sc	Success	12	12	100.00	100.00
www.sbc.sc	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
BROWSER	Overall Browser DL Time (s)	9.49	8.52	2	1
BROWSER	Kepler Webpage DL Time (s)	4.10	4.28	1	2
BROWSER	Mobile Kepler Webpage DL Time (s)	1.70	2.66	1	2
BROWSER	www.shein.com Webpage DL Time (s)	7.56	6.01	2	1
BROWSER	www.nbs.gov.sc Webpage DL Time (s)	17.37	16.65	2	1
BROWSER	www.sbc.sc Webpage DL Time (s)	16.32	13.01	2	1

metro TELWORKS

4G PREFERRED LATENCY & YOUTUBE COMPARISON

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	24	24
	Average Latency [ms]	256.67	175.29
	Median Latency [ms]	256	191
	Ping session status: Successful	24	24
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
www.google.com	Average Latency [ms]	391.17	150.25
	Median Latency [ms]	390	146
	Ping session status: Successful	12	12
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	122.17	200.33
	Median Latency [ms]	124	195
	Ping session status: Successful	12	12
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00

LTE YOUTUBE Success Ratio		
KPIs	Airtel Data 4G	CWS Data 4G
Attempt(Count)	14	10
Success(Count)	14	10
Failure(Count)	0	0
YouTube Access Time (s)	5.50	1.47
YouTube Average Resolution (pixels)	1005.45	1040.05
YouTube Success Ratio [%]	100.00	100.00

Latency 250ms

3G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	10	10	100.00	100.00
	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	6.22	4.02	1	2
	SFTP UL(Mbps)	2.36	1.03	1	2
	HTTP DL(Mbps)	6.58	2.90	1	2
	HTTP UL(Mbps)	3.61	1.73	1	2
	HTTP Capacity DL(Mbps)	9.69	6.98	1	2
	HTTP Capacity UL(Mbps)	6.65	4.69	1	2

3G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
Mobile Kepler	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
BROWSER	Overall Browser DL Time (s)	6.46	6.36	2	1
	Kepler Webpage DL Time (s)	3.10	4.79	1	2
	Mobile Kepler Webpage DL Time (s)	1.43	2.24	1	2
	www.shein.com Webpage DL Time (s)	8.66	8.38	2	1
	www.nbs.gov.sc Webpage DL Time (s)	10.59	7.92	2	1
	www.sbc.sc Webpage DL Time (s)	8.56	8.50	2	1

3G PREFERRED LATENCY & YOUTUBE COMPARISON

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	12	18
	Average Latency [ms]	388.50	176.89
	Median Latency [ms]	404	155
	Ping session status: Successful	12	18
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	10	3
	Packet Loss<1%	45.45	14.29
www.google.com	Average Latency [ms]	404.27	142.90
	Median Latency [ms]	404	139
	Ping session status: Successful	11	10
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	215.00	219.38
	Median Latency [ms]	215	199
	Ping session status: Successful	1	8
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	10	3
	Packet Loss<1%	90.91	27.27

UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	12	11
Success(Count)	12	11
Failure(Count)	0	0
YouTube Access Time (s)	3.13	1.85
YouTube Average Resolution (pixels)	1047.27	1032.44
YouTube Success Ratio [%]	100.00	100.00

Latency 250ms

Perseverance Primary_School

Parameter	Airtel	CWS
Lat	-4.60125	-4.60125
Long	55.46185	55.46185
Avg. RSRP	-90.26	-88.73
Avg. SINR	15.79	9.73
Avg. RSRQ	-9.62	-9.82
Avg. RSCP	-77.29	-75.58
Avg. ECNO	-4.62	-5.90
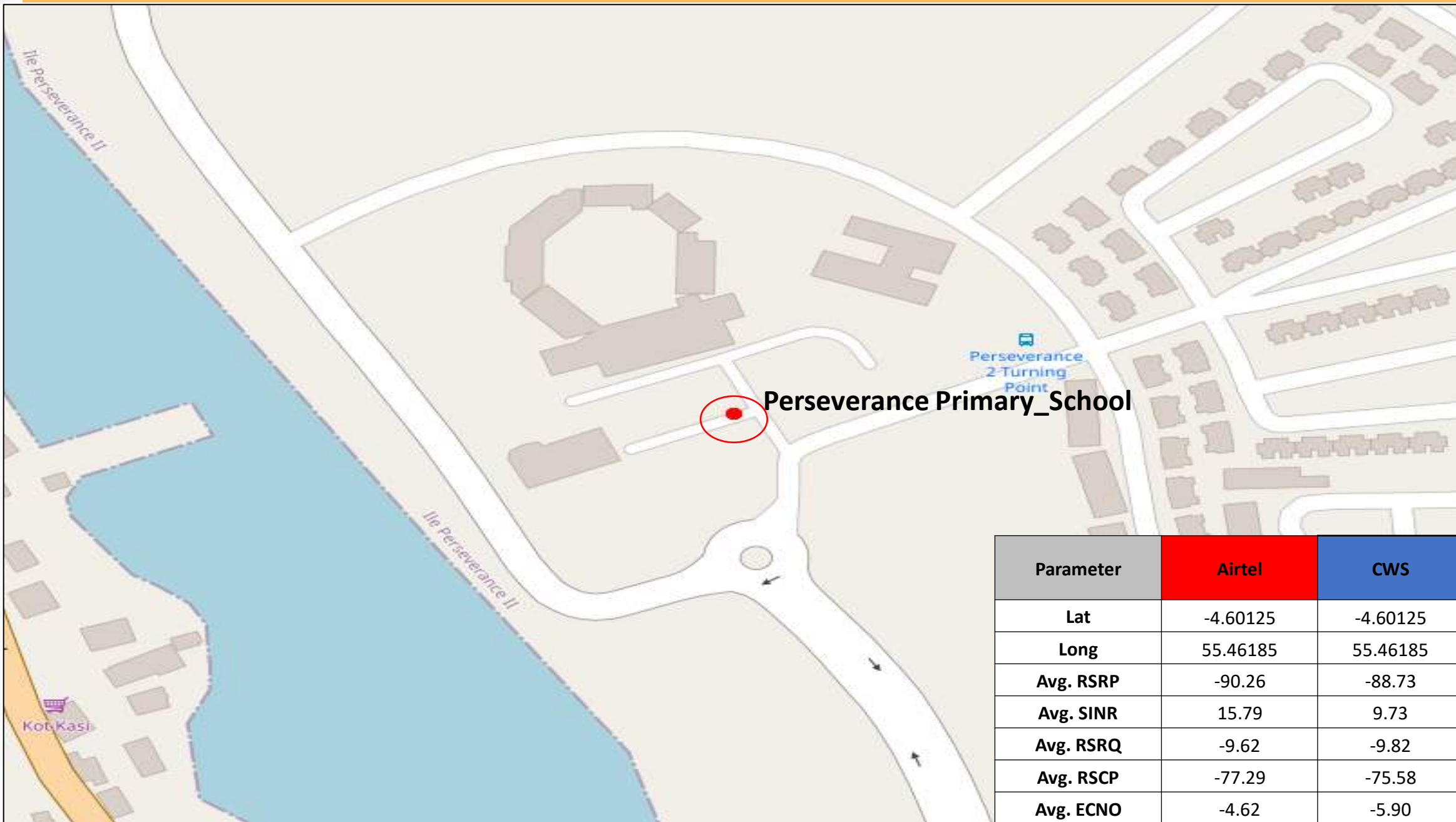
4G Preferred Data Findings:

- Airtel SFTP DL is (11.99 Mbps), while SFTP UL is (7.78 Mbps), CWS SFTP DL is (4.06 Mbps), while SFTP UL is (3.28 Mbps)

- Airtel HTTP DL is (13.54 Mbps), HTTP Capacity DL is (18.48 Mbps) ,HTTP UL is (13.36 Mbps) , and HTTP Capacity UL is (21.44 Mbps).

- CWS HTTP DL is (4.21 Mbps), HTTP Capacity DL is (4.93 Mbps) ,HTTP UL is (5.58 Mbps) , and HTTP Capacity UL is (16.06 Mbps).

- On live web page testing for browsing, www.shein.com took (7.03s), www.nbs.gov.sc took (16.92s), and www.sbc.sc took (15.11s) on Airtel.

- On live web page testing for browsing, www.shein.com took (14.18s), www.nbs.gov.sc took (18.32s), and www.sbc.sc took (15.40s) on CWS.

- On static browsing, Kepler Webpage took (3.80s), and Kepler Mobile took (1.63s) on Airtel.

- On static browsing, Kepler Webpage took (5.43s), and Kepler Mobile took (2.86s) on CWS.

- YouTube average resolution in Airtel is (1048.83) pixels.

- YouTube average resolution in CWS is (910.59) pixels.

- Airtel scored 100.00% in Carrier Aggregation (CA).

- CWS scored 15.79% in Carrier Aggregation (CA).

3G Preferred Data Test Findings:

- Airtel SFTP DL is (7.95 Mbps), while SFTP UL is (2.32 Mbps), CWS SFTP DL is (3.29 Mbps), while SFTP UL is (0.83 Mbps)

- Airtel HTTP DL is (8.33 Mbps), HTTP Capacity DL is (12.81 Mbps) ,HTTP UL is (3.56 Mbps) , and HTTP Capacity UL is (6.59 Mbps).

- CWS HTTP DL is (3.26 Mbps), HTTP Capacity DL is (13.11 Mbps) ,HTTP UL is (1.30 Mbps) , and HTTP Capacity UL is (4.39 Mbps).

- On live web page testing for browsing, www.shein.com took (7.56s), www.nbs.gov.sc took (10.36s), and www.sbc.sc took (8.34s) on Airtel.

- On live web page testing for browsing, www.shein.com took (7.52s), www.nbs.gov.sc took (7.74s), and www.sbc.sc took (8.30s) on CWS.

- On static browsing, Kepler Webpage took (3.11s), and Kepler Mobile took (1.38s) on Airtel.

- On static browsing, Kepler Webpage took (4.85s), and Kepler Mobile took (2.30s) on CWS.

- YouTube average resolution in Airtel is (1046.32) pixels.

- YouTube average resolution in CWS is (1047.18) pixels.

DRIVE TEST KPI STATISTICS

	DATA Scenario	3G Preferred				4G Preferred			
		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	7.95	3.29	1	2	11.99	4.06	1	2
	SFTP UL(Mbps)	2.32	0.83	1	2	7.78	3.28	1	2
	HTTP DL(Mbps)	8.33	3.26	1	2	13.54	4.21	1	2
	HTTP UL(Mbps)	3.56	1.30	1	2	13.36	5.58	1	2
	HTTP Capacity DL(Mbps)	12.81	13.11	2	1	18.48	4.93	1	2
	HTTP Capacity UL(Mbps)	6.59	4.39	1	2	21.44	16.06	1	2
BROWSER	Overall Browser DL Time (s)	6.23	6.14	2	1	8.97	11.17	1	2
	Kepler Webpage DL Time (s)	3.11	4.85	1	2	3.80	5.43	1	2
	Mobile Kepler Webpage DL Time (s)	1.38	2.30	1	2	1.63	2.86	1	2
	www.shein.com Webpage DL Time (s)	7.56	7.52	2	1	7.03	14.18	1	2
	www.nbs.gov.sc Webpage DL Time (s)	10.36	7.74	2	1	16.92	18.32	1	2
	www.sbc.sc Webpage DL Time (s)	8.34	8.30	2	1	15.11	15.40	1	2
LATENCY	Avg Latency (ms)	275.89	175.13	2	1	251.90	301.67	1	2
	Median Latency (ms)	392	195	2	1	132	251	1	2
YOUTUBE	YouTube Access Time (s)	2.93	1.74	2	1	5.19	2.55	2	1
	YouTube Average Resolution (pixels)	1046.32	1047.18	2	1	1048.83	910.59	1	2
	YouTube Success Ratio [%]	100.00	100.00	1	1	100.00	100.00	1	1

4G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	14	11	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	14	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	14	10	100.00	90.91
	Failure	0	1	0.00	9.09
HTTP UL	Success	14	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	13	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	13	10	100.00	100.00
	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	11.99	4.06	1	2
	SFTP UL(Mbps)	7.78	3.28	1	2
	HTTP DL(Mbps)	13.54	4.21	1	2
	HTTP UL(Mbps)	13.36	5.58	1	2
	HTTP Capacity DL(Mbps)	18.48	4.93	1	2
	HTTP Capacity UL(Mbps)	21.44	16.06	1	2

4G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	12	10	92.31	100.00
Kepler	Failure	1	0	7.69	0.00
Mobile Kepler	Success	13	10	100.00	100.00
Mobile Kepler	Failure	0	0	0.00	0.00
www.shein.com	Success	13	9	100.00	90.00
www.shein.com	Failure	0	1	0.00	10.00
www.nbs.gov.sc	Success	13	10	100.00	100.00
www.nbs.gov.sc	Failure	0	0	0.00	0.00
www.sbc.sc	Success	13	10	100.00	100.00
www.sbc.sc	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
BROWSER	Overall Browser DL Time (s)	8.97	11.17	1	2
BROWSER	Kepler Webpage DL Time (s)	3.80	5.43	1	2
BROWSER	Mobile Kepler Webpage DL Time (s)	1.63	2.86	1	2
BROWSER	www.shein.com Webpage DL Time (s)	7.03	14.18	1	2
BROWSER	www.nbs.gov.sc Webpage DL Time (s)	16.92	18.32	1	2
BROWSER	www.sbc.sc Webpage DL Time (s)	15.11	15.40	1	2

4G PREFERRED LATENCY & YOUTUBE COMPARISON

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	27	19
	Average Latency [ms]	248.74	303.00
	Median Latency [ms]	135	251
	Ping session status: Successful	27	19
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
www.google.com	Average Latency [ms]	387.62	277.11
	Median Latency [ms]	387	231
	Ping session status: Successful	13	9
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	119.79	326.30
	Median Latency [ms]	118	290
	Ping session status: Successful	14	10
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00

LTE YOUTUBE Success Ratio		
KPIs	**Airtel Data 4G**	**CWS Data 4G**
Attempt(Count)	14	10
Success(Count)	14	10
Failure(Count)	0	0
YouTube Access Time (s)	5.19	2.55
YouTube Average Resolution (pixels)	1048.83	910.59
YouTube Success Ratio [%]	100.00	100.00

Latency 250ms

3G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	7.95	3.29	1	2
	SFTP UL(Mbps)	2.32	0.83	1	2
	HTTP DL(Mbps)	8.33	3.26	1	2
	HTTP UL(Mbps)	3.56	1.30	1	2
	HTTP Capacity DL(Mbps)	12.81	13.11	2	1
	HTTP Capacity UL(Mbps)	6.59	4.39	1	2

3G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00
Mobile Kepler	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
BROWSER	Overall Browser DL Time (s)	6.23	6.14	2	1
	Kepler Webpage DL Time (s)	3.11	4.85	1	2
	Mobile Kepler Webpage DL Time (s)	1.38	2.30	1	2
	www.shein.com Webpage DL Time (s)	7.56	7.52	2	1
	www.nbs.gov.sc Webpage DL Time (s)	10.36	7.74	2	1
	www.sbc.sc Webpage DL Time (s)	8.34	8.30	2	1

3G PREFERRED LATENCY & YOUTUBE COMPARISON

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	12	22
	Average Latency [ms]	393.00	176.59
	Median Latency [ms]	407	182
	Ping session status: Successful	12	22
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	11	0
	Packet Loss<1%	47.83	0.00
www.google.com	Average Latency [ms]	416.64	144.55
	Median Latency [ms]	414	140
	Ping session status: Successful	11	11
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	133.00	208.64
	Median Latency [ms]	133	211
	Ping session status: Successful	1	11
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	11	0
	Packet Loss<1%	91.67	0.00

UMTS YOUTUBE Success Ratio		
KPIs	**Airtel 3G**	**CWS 3G**
Attempt(Count)	12	11
Success(Count)	12	11
Failure(Count)	0	0
YouTube Access Time (s)	2.93	1.74
YouTube Average Resolution (pixels)	1046.32	1047.18
YouTube Success Ratio [%]	100.00	100.00

Latency 250ms

Seychelles Judiciary

Parameter	Airtel	CWS
Lat	-4.60943	-4.60943
Long	55.46060	55.46060
Avg. RSRP	-92.95	-100.93
Avg. SINR	1.49	6.82
Avg. RSRQ	-13.61	-10.49
Avg. RSCP	-77.43	-85.12
Avg. ECNO	0.5.21	-9.35

4G Preferred Data Findings:

- Airtel SFTP DL is (3.29 Mbps), while SFTP UL is (5.27 Mbps), CWS SFTP DL is (8.19 Mbps), while SFTP UL is (2.52 Mbps)

- Airtel HTTP DL is (5.06 Mbps), HTTP Capacity DL is (8.17 Mbps) ,HTTP UL is (8.02 Mbps) , and HTTP Capacity UL is (11.54 Mbps).

- CWS HTTP DL is (8.94 Mbps), HTTP Capacity DL is (24.53 Mbps) ,HTTP UL is (3.25 Mbps) , and HTTP Capacity UL is (8.29 Mbps).

- On live web page testing for browsing, www.shein.com took (7.91s), www.nbs.gov.sc took (17.80s), and www.sbc.sc took (18.27s) on Airtel.

- On live web page testing for browsing, www.shein.com took (6.64s), www.nbs.gov.sc took (15.86s), and www.sbc.sc took (11.84s) on CWS.

- On static browsing, Kepler Webpage took (4.42s), and Kepler Mobile took (1.77s) on Airtel.

- On static browsing, Kepler Webpage took (4.34s), and Kepler Mobile took (2.62s) on CWS.

- YouTube average resolution in Airtel is (1034.44) pixels.

- YouTube average resolution in CWS is (1040.96) pixels.

- Airtel scored 50.00% in Carrier Aggregation (CA).

- CWS scored 100.00% in Carrier Aggregation (CA).

3G Preferred Data Test Findings:

- Airtel SFTP DL is (6.75 Mbps), while SFTP UL is (2.30 Mbps), CWS SFTP DL is (3.82 Mbps), while SFTP UL is (1.14 Mbps)

- Airtel HTTP DL is (6.35 Mbps), HTTP Capacity DL is (9.86 Mbps) ,HTTP UL is (3.50 Mbps) , and HTTP Capacity UL is (6.29 Mbps).

- CWS HTTP DL is (2.91 Mbps), HTTP Capacity DL is (8.63 Mbps) ,HTTP UL is (2.37 Mbps) , and HTTP Capacity UL is (5.36 Mbps).

- On live web page testing for browsing, www.shein.com took (8.40s), www.nbs.gov.sc took (10.48s), and www.sbc.sc took (9.15s) on Airtel.

- On live web page testing for browsing, www.shein.com took (8.97s), www.nbs.gov.sc took (8.02s), and www.sbc.sc took (8.22s) on CWS.

- On static browsing, Kepler Webpage took (3.16s), and Kepler Mobile took (1.52s) on Airtel.

- On static browsing, Kepler Webpage took (5.49s), and Kepler Mobile took (2.42s) on CWS.

- YouTube average resolution in Airtel is (1046.28) pixels.

- YouTube average resolution in CWS is (1044.30) pixels.

DRIVE TEST KPI STATISTICS

DATA Scenario		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
		3G Preferred				**4G Preferred**			
FILE TRANSFER	SFTP DL (Mbps)	6.75	3.82	1	2	3.29	8.19	2	1
	SFTP UL(Mbps)	2.30	1.14	1	2	5.27	2.52	1	2
	HTTP DL(Mbps)	6.35	2.91	1	2	5.06	8.94	2	1
	HTTP UL(Mbps)	3.50	2.37	1	2	8.02	3.25	1	2
	HTTP Capacity DL(Mbps)	9.86	8.63	1	2	8.17	24.53	2	1
	HTTP Capacity UL(Mbps)	6.29	5.36	1	2	11.54	8.29	1	2
BROWSER	Overall Browser DL Time (s)	6.54	6.62	1	2	10.40	8.25	2	1
	Kepler Webpage DL Time (s)	3.16	5.49	1	2	4.42	4.34	2	1
	Mobile Kepler Webpage DL Time (s)	1.52	2.42	1	2	1.77	2.62	1	2
	www.shein.com Webpage DL Time (s)	8.40	8.97	1	2	7.91	6.64	2	1
	www.nbs.gov.sc Webpage DL Time (s)	10.48	8.02	2	1	17.80	15.86	2	1
	www.sbc.sc Webpage DL Time (s)	9.15	8.22	2	1	18.27	11.84	2	1
LATENCY	Avg Latency (ms)	275.06	199.90	2	1	268.68	170.73	2	1
	Median Latency (ms)	392	195	2	1	345	179	2	1
YOUTUBE	YouTube Access Time (s)	3.14	1.81	2	1	5.61	1.49	2	1
	YouTube Average Resolution (pixels)	1046.28	1044.30	1	2	1034.44	1040.96	2	1
	YouTube Success Ratio [%]	100.00	100.00	1	1	100.00	100.00	1	1

4G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	11	12	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	11	12	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	11	12	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	11	12	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	10	12	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	10	10	100.00	90.91
	Failure	0	1	0.00	9.09

	DATA Scenario	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	3.29	8.19	2	1
	SFTP UL(Mbps)	5.27	2.52	1	2
	HTTP DL(Mbps)	5.06	8.94	2	1
	HTTP UL(Mbps)	8.02	3.25	1	2
	HTTP Capacity DL(Mbps)	8.17	24.53	2	1
	HTTP Capacity UL(Mbps)	11.54	8.29	1	2

4G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	9	12	81.82	100.00
Kepler	Failure	2	0	18.18	0.00
Mobile Kepler	Success	10	12	100.00	100.00
Mobile Kepler	Failure	0	0	0.00	0.00
www.shein.com	Success	11	12	100.00	100.00
www.shein.com	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	11	12	100.00	100.00
www.nbs.gov.sc	Failure	0	0	0.00	0.00
www.sbc.sc	Success	11	12	100.00	100.00
www.sbc.sc	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
BROWSER	Overall Browser DL Time (s)	10.40	8.25	2	1
BROWSER	Kepler Webpage DL Time (s)	4.42	4.34	2	1
BROWSER	Mobile Kepler Webpage DL Time (s)	1.77	2.62	1	2
BROWSER	www.shein.com Webpage DL Time (s)	7.91	6.64	2	1
BROWSER	www.nbs.gov.sc Webpage DL Time (s)	17.80	15.86	2	1
BROWSER	www.sbc.sc Webpage DL Time (s)	18.27	11.84	2	1

4G PREFERRED LATENCY & YOUTUBE COMPARISON

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	20	24
	Average Latency [ms]	263.05	171.63
	Median Latency [ms]	265	176
	Ping session status: Successful	20	24
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	4.76	0.00
www.google.com	Average Latency [ms]	400.00	146.33
	Median Latency [ms]	401	143
	Ping session status: Successful	10	12
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	126.10	196.92
	Median Latency [ms]	126	194
	Ping session status: Successful	10	12
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	9.09	0.00

LTE YOUTUBE Success Ratio		
KPIs	Airtel Data 4G	CWS Data 4G
Attempt(Count)	11	12
Success(Count)	11	12
Failure(Count)	0	0
YouTube Access Time (s)	5.61	1.49
YouTube Average Resolution (pixels)	1034.44	1040.96
YouTube Success Ratio [%]	100.00	100.00

Latency 250ms

3G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	11	10	100.00	90.91
	Failure	0	1	0.00	9.09
HTTP DL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	10	10	100.00	100.00
	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	6.75	3.82	1	2
	SFTP UL(Mbps)	2.30	1.14	1	2
	HTTP DL(Mbps)	6.35	2.91	1	2
	HTTP UL(Mbps)	3.50	2.37	1	2
	HTTP Capacity DL(Mbps)	9.86	8.63	1	2
	HTTP Capacity UL(Mbps)	6.29	5.36	1	2

3G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	11	10	100.00	90.91
Kepler	Failure	0	1	0.00	9.09
Mobile Kepler	Success	11	10	100.00	100.00
Mobile Kepler	Failure	0	0	0.00	0.00
www.shein.com	Success	11	10	100.00	100.00
www.shein.com	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	11	10	100.00	100.00
www.nbs.gov.sc	Failure	0	0	0.00	0.00
www.sbc.sc	Success	11	10	100.00	100.00
www.sbc.sc	Failure	0	0	0.00	0.00

	DATA Scenario	Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
BROWSER	Overall Browser DL Time (s)	6.54	6.62	1	2
BROWSER	Kepler Webpage DL Time (s)	3.16	5.49	1	2
BROWSER	Mobile Kepler Webpage DL Time (s)	1.52	2.42	1	2
BROWSER	www.shein.com Webpage DL Time (s)	8.40	8.97	1	2
BROWSER	www.nbs.gov.sc Webpage DL Time (s)	10.48	8.02	2	1
BROWSER	www.sbc.sc Webpage DL Time (s)	9.15	8.22	2	1

3G PREFERRED LATENCY & YOUTUBE COMPARISON

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	15	21
	Average Latency [ms]	335.47	207.19
	Median Latency [ms]	404	197
	Ping session status: Successful	15	21
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	7	0
	Packet Loss<1%	31.82	0.00
www.google.com	Average Latency [ms]	406.18	140.30
	Median Latency [ms]	409	139
	Ping session status: Successful	11	10
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	141.00	268.00
	Median Latency [ms]	144	212
	Ping session status: Successful	4	11
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	7	0
	Packet Loss<1%	63.64	0.00

UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	11	11
Success(Count)	11	11
Failure(Count)	0	0
YouTube Access Time (s)	3.14	1.81
YouTube Average Resolution (pixels)	1046.28	1044.30
YouTube Success Ratio [%]	100.00	100.00

Latency 250ms

THANKS