Quarterly Report on EMF Monitoring

(October - December 2025)

Bhutan InfoComm and Media Authority

Royal Government of Bhutan

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1. Background

Electromagnetic Field (EMF) Emissions are the electric and magnetic fields that are produced by radios, microwaves, mobile phones and base stations (mobile towers). Telecommunications transmitters generate electromagnetic fields at radio and microwave frequencies. Transmitters have proliferated with siting of wireless communication networks often co-located among other transmitters and the transmitter used in contact with human bodies. If the EMF exposure is prolonged there may be issues of possible health risks. Such risks must be managed and prevented. Currently International Commission on Non-Ionizing Radiation Protection (ICNIRP) standards and various other standards are adopted on the assessment and compliance of the exposure levels radiated from different electromagnetic spectrum sources according to the permissible levels in order to protect the people from exposure to higher RF radiations. The most sources of exposure include the cellular network using GSM, WCDMA, LTE and others which occupy the VHF, UHF, L and S band frequencies.

The Bhutan InfoComm and Media Authority have always been monitoring and measuring the EMF radiation level of each Telecommunication Base Transceiver station (towers) in the country based on the EMF emission standards. The Authority also certifies the EMF compliance of the mobile towers in the country mainly in urban areas and satellite towns areas.

The EMF emission standard is derived from the EMF radiation threshold developed by ICNIRP and the Authority has standardized the threshold level of EMF radiation exposure based on the regional threshold.

2. Monitoring

The Authority has monitored the EMF from October to December, 2025 in following places;

Sl.No	Name of the Monitored Places	Number of tower Monitored
1	Chhukha	10
2	Samtse	3
3	Bumthang	4
4	Mongar	5
5	Trashigang	5
6	Trashiyangtse	2
7	Sarpang	5

8	Samdrup Jongkhar	8

The Authority will continue to monitor and measure the mobile towers in the country and will be issued with the certificate of EMF threshold compliance respectively.

3. Objective of the Monitoring

The main objective of the EMF measurement monitoring is:

- To ensure the safe and reliable communication services.
- To test the exposure levels produced by any transmitter or emitter such as telecommunication facilities and mobile telephone base stations for safety purposes and maintain the EMF emission within the standard threshold.
- To ensure that all telecommunication equipment is safe and secure.

4. Details of the Equipment used for EMF Compliance Test

The details of existing EMF monitoring equipment of the Authority are as mentioned below:

Equipment Make/Model:	Narda Safety test solution
Type of the Antenna:	Isotropic Antenna/Type (3-Axis), 420 MHz-6GHz
Spectrum Analyzer:	SRM3006 (9kHz-6GHz)
Calibration details:	Calibrated on 7-03-2024 and valid up to 2 to 3 years

5. Specification of the Equipment/ Instrument

The specification of the above equipment are as mentioned below:

- 3-axis, E-field antenna: 420 MHz to 6 GHz
- Spectrum analyzer SRM 3006: 9 kHz to 6GHz
- A 1.5 meter cable to separate the antenna from the meter
- Tripod to hold the antenna

Figure 1: EMF Monitoring

6. Measurement Parameter

The following quantities are measured while monitoring:

- Electric Field strength E in **V/m**

7. Methodology

The following methodology processes are followed while carrying out the monitoring:

- The measurement is done around 10 meters to 30 meters away from the sectoral antenna's BTS towers facing towards the measurement equipment which is based on the ICNIRP standards measurement.
- The measurement result is taken as the average/Max over a time period of 6 minutes.
- The measurement is done for 2G, 3G, 4G and 5G BTS Tower for both the telecom operators.
- Measurement values will be recorded and compare the measurement values with the reference level as per the international standard ICNIRP.
- Measurement is done through broadband measurement and if the exposure ratio is higher than the exposure ratio limits, the frequency selective measurement is recommended.

8. Reference Standards and Regulation/ICNIRP limits

According to Section 10(1), and 10(2) of the "Standard for the Establishment of Telecommunications Tower"

- 10 (1): *All telecommunication and broadcasting sites shall ensure compliance with the ICNIRP Procedures and Standards for general public exposure and take immediate actions to rectify any non-compliant Sites.*

- 10(2): *Antennas in all sites shall not emit the EMF radiation more than the standards shown in the table below*;

Frequency range	**Electric field-strength (V/m)**		**Equivalent plane wave power-density S_{eq}(W/m^2)**	
	general public	**occupational**	**general public**	**Occupational**
0.1 - 30 Hz	$300/(10^{0.5}*f^{0.7})$ MHz)	$600/(10^{0.5}*f^{0.7}$MHz)	NA	NA

>30 – 400 MHz	$27.7/10^{0.5}$	$61/10^{0.5}$	0.2	1
>400 - 2000 MHz	$(1.375f^{0.5}$(MHz) $)/10^{0.5}$	$(3f^{0.5}$ (MHz))$/10^{0.5}$	(f/2000)	(f/400)
>2 - 300 GHz	19.289	43.323	1	5

9. Findings and Permissible limits of Electric Field and Exposure Ratio

The EMF measurement of the BTS tower was carried out in **Chhukha, Samtse, Bumthang, Mongar, Trashigang, Trashiyantse, Sarpang and Samdrup Jongkhar** town Area. It is found that the maximum exposures around all of the base stations are **very low** than exposure limits. The detailed measurement readings , findings, electric field and exposure ratio results are attached below in **Annexure 1** and screenshots of each measurement result are attached in **Annexure 2.**

10. Satellite View of the Measurement Location/Telecom site

The satellite view of the measurement location of each telecom site or transmitter is attached in **Annexure 3.**

Annexure 1 (Measurement Results)

The detailed measurement readings of Electric Field and Exposure Ratio are attached below;

1. Chhukha (Bhutan Telecom Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m $(1.375f^{0.5}(MHz))/10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
1	Near Dantak area	26°51'50.9" N	89°22'44.6" E	LTE 1800	0.712	18.49	0.0385	**0.5**	**Below the Limits**
				UMTS 850	0.909	12.87	0.0706		
				LTE 700	0.417	12.14	0.0343		
				GSM 900	0.137	13.27	0.0103		
				5 G	0.418	19.29	0.0216		
2.	Hospital	26°52'01.8" N	89°23'11.2" E	LTE 1800	2.069	18.49	0.1118		

				5G	0.197	19.29	0.0102	**0.5**	**Below the Limits**
3	CST Helipad area	26°50'54.5" N	89°23'142.7' E	LTE 700	1.352	12.14	0.108	**0.5**	**Below the Limits**
				UMTS 850	0..299	12.87	0.0232		
				GSM 900	0.473	13.27	0.0356		
				LTE 1800	2.212	18.49	0.119		
				TDD 2300	0.104	19.29	0.00539		
				5G	1.390	19.29	0.0720		
4	CST football ground	26°51'01.8" N	89°23'37.9' E	LTE 1800	0.531	18.49	0.287	**0.5**	**Below the Limits**
				5G	0.200	19.29	0.0103		
				LTE 700	0.291	12.14	0.023		
				UMTS 850	0.116	12.87	0.00901		
				GSM 900	0.949	13.27	0.0715		
5	CST water tank	26°50'57.8" N	89°23' 47.3" E	LTE 700	0.213	12.14	0.0175	**0.5**	**Below the Limits**
				UMTS 850	0.183	12.87	0.0142		

				GSM 900	0.640	13.27	0.0482		
				LTE 1800	0.139	18.49	0.00751		
				5G	0.726	19.29	0.0376		
6	FCB godown	26°51'58.9 " N	89°22' 53.1" E	LTE 1800	1.917	18.49	0.103	**0.5**	**Below the Limits**
				UMTS 850	1.041	12.87	0.0808		
				LTE 700	0.841	12.14	0.0692		
				5G	0.931	19.29	0.048		
				GSM 900	0.489	13.27	0.0368		
7	Drangchu Beverages	26°51'55.9 " N	89°23' 13" E	LTE 1800	1.191	18.49	0.0644	**0.5**	**Below the Limits**
				5G	0.200	19.29	0.0103		

2. Chhukha Tashi Infocom Private Limited

Sl. No	**Site Name**	**Latitude**	**Longitude**	**Frequency Band**	**Field Strength Measurement Value (V/m)**	**BICMA Limits V/m (1.375$f^{0.5}$(MHz))/$10^{0.5}$**	**Exposure Ratio SQRT (Measured V/Limit Value)^2**	**Exposure Ratio Limits**	**Remark**

1	Toorsa	26°51'58.5" N	89°22'32" E	GSM 900	0.364	13.34	0.0271	**0.5**	**Below the Limits**
				LTE 1800	1.162	18.64	0.0623		
				5G	0.375	19.29	0.0194		
				LTE 700	0.214	11.95	0.017		
				UMTS 850	0.167	12.79	0.0130		
2	Tashi Infocom Godown	26°51'57.7" N	89°22'57.6" E	GSM 900	0.993	13.34	0.0744	**0.5**	**Below the Limits**
				UMTS 850	0.5454	12.79	0.0426		
				LTE 700	0.1416	11.95	0.0118		
				LTE 1800	1.701	18.64	0.0912		
				5G 3.4-3.5	0.7683	19.29	0.0397		
3	CST Football Ground	26°51'01.8" N	89°23'37.9" E	LTE 700	0.1177	11.95	0.00984	**0.5**	**Below the Limits**
				UMTS 850	0.9093	12.79	0.0710		
				GSM 900	0.4002	13.34	0.0299		
				LTE 1800	0.856	18.64	0.045		
				5G	0.1966	19.29	0.0101		

3. Samtse (Bhutan Telecom Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m $(1.375f^{0.5}(MHz))/10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
1	Shiv Mandir	26°54'02.5" N	89°5'36.7" E	LTE 700	1.301	11.95	0.108	0.5	Below the Limits
				UMTS 850	0.5923	12.79	0.0463		
				GSM 900	0.7022	13.34	0.0526		
				LTE 1800	1.612	18.64	0.086		
				5G	0.4506	19.29	0.0233		
2.	Chorten	26°54'02.2" N	89°5'47.2" E	LTE 700	0.1398	11.95	0.0116	0.5	Below the Limits
				UMTS 850	0.1609	12.79	0.0125		
				GSM 900	0.4856	13.34			
				LTE 1800	2.119	18.64			
				5G	1.408	19.29			

4. Samtse (Tashi InfoComm Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m ($1.375f^{0.5}$(MHz))/$10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
1	Chorten	26°53'59.9" N	89°5'47.5" E	LTE 700	0.2231	11.95		0.5	Below the Limits
				GSM 900	0.437	13.34			
				LTE 1800	0.4927	18.64			
				5G	1.537	19.29			

5. Bumthang (Bhutan Telecom Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m ($1.375f^{0.5}$(MHz))/$10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
1	Jhamphel	27°34'16.	90°44'13.8"	LTE 700	0.9247	12.14	0.0792		

	Lhakhang area	8" N	E	GSM 900	0.72	13.27	0.0639	**0.5**	**Below the Limits**
				LTE 1800	1.883	18.49	0.0742		
				TDD 2300	0.9562	19.29	0.0506		
				5G	0.1822	19.29	0.022		
2.	Near High court	27°32'44.4" N	90°44'49.1" E	LTE 700	0.6068	12.14	0.0641	**0.5**	**Below the Limits**
				GSM 900	0.2089	13.27	0.0289		
				LTE 1800	1.617	18.49	0.0533		
				TDD 2300	0.196	19.29	0.0764		
				5G	0.4572	19.29	0.0492		
3	New Town	27°33'35.5" N	90°44'36.9" E	LTE 1800	1.053	18.49	0.0480	**0.5**	**Below the Limits**

6. Bumthang (Tashi InfoCom Private Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m $(1.375f^{0.5}(MHz))/10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
1	New Town	27°32'46.0" N	90°45'39.2" E	LTE 1800	1.089	18.49	0.0250	**0.5**	**Below the Limits**
				5G	0.9604	19.29	0.0324		

7. Mongar (Bhutan Telecom Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m $(1.375f^{0.5}(MHz))/10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
3	Main Town	27°16'37.5" N	91°14'20.8" E	LTE 700	0.914	12.14	0.0787		
				UMTS 850	0.6911	12.84	0.0647		

				GSM 900	0.7017	13.27	0.0631	**0.5**	**Below the Limits**
				LTE 1800	0.5637	18.49	0.0406		
				TDD 2300	0.9021	**19.29**	0.0492		
				5G	1.142	**19.29**	0.0553		

9. Mongar (Tashi InfoCom Private Limited)

Sl. No	**Site Name**	**Latitude**	**Longitude**	**Frequency Band**	**Field Strength Measurement Value (V/m)**	**BICMA Limits V/m (1.375f$^{0.5}$(MHz))/10$^{0.5}$**	**Exposure Ratio SQRT (Measured V/Limit Value)$^{\wedge 2}$**	**Exposure Ratio Limits**	**Remark**
1	Main Town	27°16'37.6" N	91°14'20.9" E	LTE 700	0.1222	12.14	0.0287	**0.5**	**Below the Limits**
				UMTS 850	1.624	12.84	0.0992		
				GSM 900	0.11	13.27	0.0249		
				LTE 1800	1.243	18.49	0.0602		
				TDD 2300	0.0952	19.29	0.0159		
				5G	3.486	19.29	0.0967		
2	Gyalpoish	27°13'53.9"	91°11'46.6"	LTE 700	0.1163	12.14	0.0280		

	ing	N	E					**0.5**	**Below the Limits**
				LTE 1800	0.07424	18.49	0.0147		
				TDD 2300	0.1163	19.29	0.0176		
				5G	0.2084	19.29	0.0236		

10. Trashiyantse (Bhutan Telecom Limited)

Sl. No	**Site Name**	**Latitude**	**Longitude**	**Frequency Band**	**Field Strength Measurement Value (V/m)**	**BICMA Limits V/m ($1.375f^{0.5}$(MHz))/$10^{0.5}$**	**Exposure Ratio SQRT (Measured V/Limit Value)^2**	**Exposure Ratio Limits**	**Remark**
1	Dzong area	27°36'53.2" N	91°29'53.4" E	LTE 700	0.5058	12.14	0.0287	**0.5**	**Below the Limits**
				UMTS 850	0.7953	12.84	0.0992		
				GSM 900	0.3689	13.27	0.0249		
				LTE 1800	0.8166	18.49	0.0602		
				5G	0.8032	19.29	0.0159		
2	Town	27°36'41.0" N	91°29'45.5" E	LTE 1800	0.335	18.49	0.0313	**0.5**	**Below the Limits**
				5G	2.776	19.29	0.0861		

11. Trashigang (Bhutan Telecom Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m ($1.375f^{0.5}$(MHz))/$10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
1	Kanglung Exchange	27°17'13.7" N	91°31'32.3" E	LTE 700	0.5007	12.14	0.0582	**0.5**	**Below the Limits**
				UMTS 850	1.676	12.84	0.1008		
				GSM 900	0.9635	13.27	0.0739		
				LTE 1800	1.11	18.49	0.0569		
				UMTS 1900	0.5399	18.49	0.0397		
				5G	1.82	19.29	0.0699		
2	Main town	27°19'56.5" N	91°33'03.5" E	LTE 1800	0.841	18.49	0.0495	**0.5**	**Below the Limits**
				5G	1.225	19.29	0.0573		
3	Sherubtse College	27°16'55.2" N	91°31'11.9" E	LTE 700	0.1153	12.14	0.0279	**0.5**	**Below the Limits**
				LTE 1800	0.2614	18.49	0.0276		
				5G	0.6593	19.29	0.0420		
4	Trashigang Mian	27°20'01.8" N	91°33'11.7" E	LTE 700	0.1181	12.14	0.0283	**0.5**	**Below the Limits**

	Exchange			UMTS 850	0.7826	12.84	0.0688		
				GSM 900	0.6253	13.27	0.0595		
				LTE 1800	1.617	18.49	0.0687		
				TDD 2300	1.568	19.29	0.0649		
				5G	0.5274	19.29	0.0376		

12. Trashigang (Tashi InfoCom Private Limited)

Sl. No	**Site Name**	**Latitude**	**Longitude**	**Frequency Band**	**Field Strength Measurement Value (V/m)**	**BICMA Limits V/m ($1.375f^{0.5}$(MHz))/$10^{0.5}$**	**Exposure Ratio SQRT (Measured V/Limit Value)^2**	**Exposure Ratio Limits**	**Remark**
1	Trashigang Main E$xchange	27°19'56.5" N	91°33'03.4" E	LTE 700	0.1151	12.14	0.0279	**0.5**	**Below the Limits**
				UMTS 850	0.2	12.84	0.0348		
				GSM 900	0.1267	13.27	0.0268		
				LTE 1800	0.2423	18.49	0.0266		
				5G	0.3512	19.29	0.0307		

13. Sarpang (Bhutan Telecom Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m ($1.375f^{0.5}$(MHz))/$10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
1	Gelephu Exchange, BTL Office	26°52'09.3" N	90°29'16.0" E	LTE 700	0.8578	12.14	0.07	**0.5**	**Below the Limits**
				GSM 900	0.3256	13.27	0.02		
				UMTS 850	0.4408	12.87	0.03		
				UMTS 1900	0.4045	19.29	0.020		
				LTE 1800	1.666	18.49	0.086		
				TDD 2300	1.238	19.29	0.06		
				5G	1.437	19.29	0.07		
2.	Rabdling,	26°52'52.	90°29'32.8" E	LTE 700	0.5391	12.14	0.044	**0.5**	**Below the Limits**
				GSM 900	0.416	13.27	0.031		
				LTE 1800	0.7045	18.49	0.038		

	Gelephu	4" N		UMTS 850	0.2575	12.87	0.062		
				UMTS 1900	0.8062	19.29	0.0417		
				5G	0.8765	19.29	0.045		
3	Near TIPL Office, Gelephu	26°53'02.5" N	90°29'10.8" E	LTE 1800	1.378	18.49	0.0745	**0.5**	**Below the Limits**

14. Sarpang (Tashi InfoCom Private Limited)

Sl. No	**Site Name**	**Latitude**	**Longitude**	**Frequency Band**	**Field Strength Measurement Value (V/m)**	**BICMA Limits V/m ($1.375f^{0.5}$(MHz))/$10^{0.5}$**	**Exposure Ratio SQRT (Measured V/Limit Value)^2**	**Exposure Ratio Limits**	**Remark**
1	TIPL Office, Gelephu	26°53'03.2" N	90°29'12.2" E	LTE 700	0.117	12.14	0.009	**0.5**	**Below the Limits**
				LTE 1800	0.7124	18.49	0.0385		
				5G	1.065	19.29	0.055		

2.	BOD, Gelephu	26°52'15.3" N	90°29'07.6" E	LTE 700	0.268	12.14	0.056	**0.5**	**Below the Limits**
				GSM 900	0.4274	13.27	0.0322		
				LTE 1800	0.4888	18.49	0.026		
				UMTS 850	0.859	12.87	0.066		
				5G	1.026	19.29	0.053		

15. Samdrup Jongkhar (Bhutan Telecom Limited)

Sl. No	**Site Name**	**Latitude**	**Longitude**	**Frequency Band**	**Field Strength Measurement Value (V/m)**	**BICMA Limits V/m ($1.375f^{0.5}$(MHz))/$10^{0.5}$**	**Exposure Ratio SQRT (Measured V/Limit Value)^2**	**Exposure Ratio Limits**	**Remark**
1	Near Children	26°47'44.2" N	91°30'19.5" E	LTE 700	0.3207	12.14	0.026	**0.5**	**Below the Limits**
				GSM 900	0.3109	13.27	0.023		
				LTE 1800	1.2	18.49	0.064		

	Park, SJ			5G	0.2588	**19.29**	0.013		
2	SJ Exchange, BTL office	26°47'55.6" N	91°30'15.9" E	LTE 700	0.7072	12.14	0.058	**0.5**	**Below the Limits**
				GSM 900	0.7167	13.27	0.054		
				UMTS 850	1.506	12.87	0.11		
				UMTS 1900	1.431	19.29	0.0741		
				5G	0.8638	**19.29**	0.044		
3	Tashi Pokto, SJ	26°47'44.5" N	91°30'30.3" E	LTE 700	0.3483	12.14	0.0286	**0.5**	**Below the Limits**
				GSM 900	0.3845	13.27	0.028		
				UMTS 850	0.5302	12.87	0.041		
				LTE 1800	0.2187	18.49	0.011		
				UMTS 1900	0.2723	19.29	0.0141		
				5G	0.5928	**19.29**	0.030		
4	Dewathang, Trashigang highway road	26°52'02.8" N	91°28'57.2" E	LTE 700	0.1119	12.14	0.00980	**0.5**	**Below the Limits**
				LTE 1800	0.6332	18.49	0.0342		
5	Dewathang Hospital	26°51'41.2" N	91°28'02.3" E	LTE 700	0.1463	12.14	0.0120	**0.5**	**Below the Limits**
				5G	0.1917	**19.29**	0.009		
				LTE 1800	1.486	18.49	0.0803		

16. Samdrup Jongkhar (Tashi InfoComm Limited)

Sl. No	Site Name	Latitude	Longitude	Frequency Band	Field Strength Measurement Value (V/m)	BICMA Limits V/m $(1.375f^{0.5}(MHz))/10^{0.5}$	Exposure Ratio SQRT (Measured V/Limit Value)^2	Exposure Ratio Limits	Remark
1.	SJ Exchange, ITPL	26°48'05.8" N	91°30'19.8" E	LTE 1800	0.2454	18.49	0.0132	**0.5**	**Below the Limits**
				UMTS 850	0.3529	12.87	0.0274		
				GSM 900	0.7184	13.27	0.0541		
				5G	2.91	19.29	0.150		
2	Tashi Pokto, SJ	26°47'44.5" N	91°30'30.3" E	LTE 700	0.2203	12.14	0.0181	**0.5**	**Below the Limits**
				GSM 900	0.4913	13.27	0.0370		
				UMTS 850	0.1691	12.87	0.0131		
				5G	0.8805	19.29	0.0456		
3	Dewathang Town	26°51'47.3" N	91°28'24.1" E	LTE 700	0.1204	12.14	0.009	**0.5**	**Below the Limits**
				LTE 1800	1.496	18.49	0.080		
				5G	2.699	19.29	0.1399		

Annexure 2 (Screenshot of the result)

The following are the screenshot images of measurement result;

Pling Near Dantak BTL

Battery:		GPS:	26°51'50.9" N	Ant:	3AX 0.4-6G
23.10.25	08:02:59		89°22'44.6" E	Cable:	SRM 5 m

SrvTbl:	BTL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	909.8 mV/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	712.0 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	417.3 mV/m
5	UMTS 1900	2 110.000 000 MHz	2 120.000 000 MHz	414.1 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	418.7 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	137.8 mV/m
	Total			1.117 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	863 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Pling Hospital BTL

Battery:		GPS:	26°52'01.8" N	Ant:	3AX 0.4-6G
22.10.25	17:08:09		89°23'11.2" E	Cable:	SRM 5 m

SrvTbl:	BTL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	2.069 V/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	197.9 mV/m
	Total			2.078 V/m

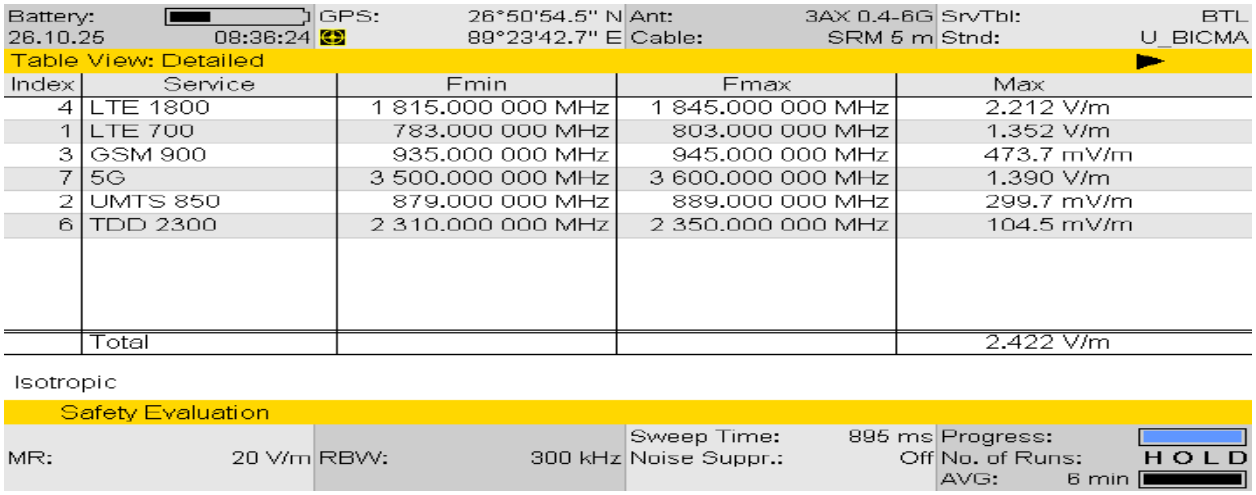
Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	200 kHz	Sweep Time:	385 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Pling CST Helipad



Battery:		GPS:	26°50'54.5" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
26.10.25	08:36:24		89°23'42.7" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

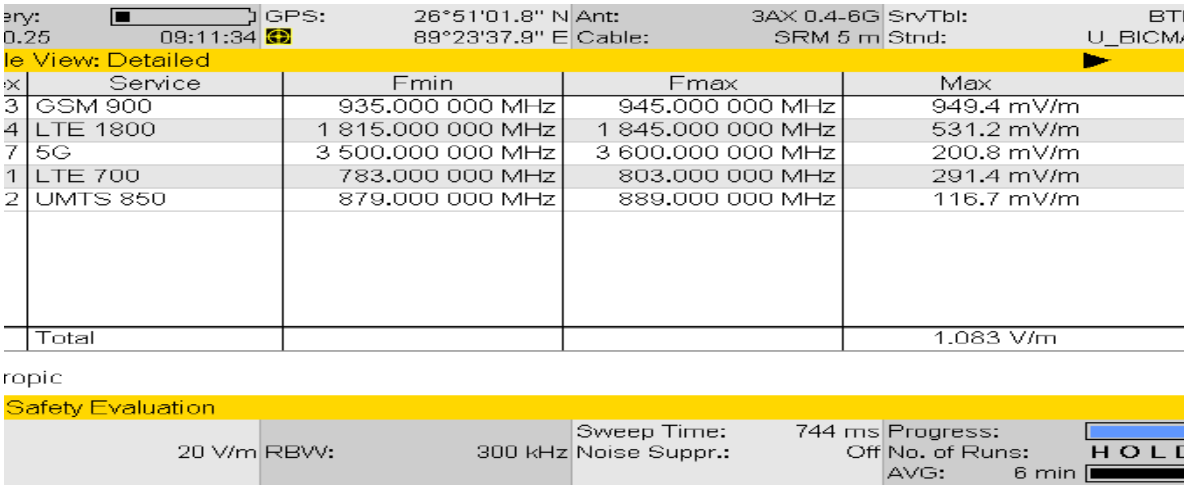
Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	2.212 V/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	1.352 V/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	473.7 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	1.390 V/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	299.7 mV/m
6	TDD 2300	2 310.000 000 MHz	2 350.000 000 MHz	104.5 mV/m
	Total			2.422 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	895 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

CST football Ground



ery:		GPS:	26°51'01.8" N	Ant:	3AX 0.4-6G	SrvTbl:	BTI
0.25	09:11:34		89°23'37.9" E	Cable:	SRM 5 m	Stnd:	U_BICMA

le View: Detailed

x	Service	Fmin	Fmax	Max
3	GSM 900	935.000 000 MHz	945.000 000 MHz	949.4 mV/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	531.2 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	200.8 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	291.4 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	116.7 mV/m
	Total			1.083 V/m

ropic

Safety Evaluation

	20 V/m	RBW:	300 kHz	Sweep Time:	744 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

CST water Tank

Battery:	GPS: 26°50'57.8" N	Ant: 3AX 0.4-6G	SrvTbl: BTI
26.10.25 08:18:36	89°23'47.3" E	Cable: SRM 5 m	Stnd: U_BICM

Table View: Detailed

Index	Service	Fmin	Fmax	Max
3	GSM 900	935.000 000 MHz	945.000 000 MHz	640.1 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	726.7 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	213.6 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	183.4 mV/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	139.7 mV/m
	Total			889.4 mV/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time: 744 ms Noise Suppr.: Off	Progress: No. of Runs: HOLD AVG: 6 min

FCB

Battery:	GPS: 26°51'58.9" N	Ant: 3AX 0.4-6G	SrvTbl: BTI
22.10.25 18:17:11	89°22'53.1" E	Cable: SRM 5 m	Stnd: U_BICM

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.917 V/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	1.041 V/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	841.2 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	931.9 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	489.4 mV/m
5	UMTS 1900	2 110.000 000 MHz	2 120.000 000 MHz	334.7 mV/m
	Total			2.152 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	200 kHz	Sweep Time: 883 ms Noise Suppr.: Off	Progress: No. of Runs: HOLD AVG: 6 min

Dtrangchu Beverages

Battery:		GPS:	26°51'55.9" N	Ant:	3AX 0.4-6G
22.10.25	17:33:17		89°23'13.0" E	Cable:	SRM 5 m

SrvTbl:	BTI
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.191 V/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	200.5 mV/m
	Total			1.205 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	200 kHz	Sweep Time:	383 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Samtse Chorten BTL

Battery:		GPS:	26°54'02.2" N	Ant:	3AX 0.4-6G
23.10.25	17:31:06		89°5'47.2" E	Cable:	SRM 5 m

SrvTbl:	BTI
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	2.119 V/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	378.8 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	1.408 V/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	139.8 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	159.6 mV/m
	Total			2.161 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	759 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	57
AVG:	6 min

Samtse Shiv Mandir BTL

Battery:		GPS:	26°54'02.5" N	Ant: 3AX 0.4-6G SrvTbl: BTI
23.10.25	18:07:32		89°5'36.7" E	Cable: SRM 5 m Stnd: U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.612 V/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	1.301 V/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	702.2 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	592.3 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	450.6 mV/m
	Total			2.030 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time: 744 ms Noise Suppr.: Off	Progress: No. of Runs: HOLD AVG: 6 min

Samtse Chorten TIPL

Battery:		GPS:	26°53'59.9" N	Ant: 3AX 0.4-6G SrvTbl: TICPI
23.10.25	17:44:30		89°5'47.5" E	Cable: SRM 5 m Stnd: U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	1.537 V/m
3	GSM 900	945.000 000 MHz	955.000 000 MHz	437.0 mV/m
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	492.7 mV/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	223.1 mV/m
	Total			1.612 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time: 633 ms Noise Suppr.: Off	Progress: No. of Runs: HOLD AVG: 6 min

Near Jamphel Lakhang BTL (Bumthang)

Battery:		GPS:	27°34'16.8" N	Ant:	3AX 0.4-6G
11.11.25	12:56:02		90°44'13.8" E	Cable:	SRM 5 m

SrvTbl:	BTL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.883 V/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	924.7 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	720.0 mV/m
6	TDD 2300	2 310.000 000 MHz	2 350.000 000 MHz	956.2 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	182.2 mV/m
	Total			2.100 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	774 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

New Town BTL(Bumthang)

Battery:		GPS:	27°33'35.5" N	Ant:	3AX 0.4-6G
11.11.25	12:36:08		90°44'36.9" E	Cable:	SRM 5 m

SrvTbl:	BTL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	3.266 V/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.053 V/m
	Total			3.288 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	376 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

High Court BTL(BUmthang)

Battery:		GPS:	27°32'44.4" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
11.11.25	14:33:59		90°44'49.1" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.617 V/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	606.8 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	457.2 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	208.9 mV/m
6	TDD 2300	2 310.000 000 MHz	2 350.000 000 MHz	196.0 mV/m
	Total			1.669 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	776 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

New Town TIPL (Bumthang)

Battery:		GPS:	27°32'46.0" N	Ant:	3AX 0.4-6G	SrvTbl:	TICPL
11.11.25	13:23:29		90°45'39.2" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	1.089 V/m
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	960.4 mV/m
	Total			1.301 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	373 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Gyalpoishing BTL(Mongar)

Battery:		GPS:	27°13'44.5" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
12.11.25	13:09:57		91°11'57.4" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	827.8 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	181.7 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	140.2 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	131.5 mV/m
	Total			856.2 mV/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	626 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Near BCTA Office(BTL (MongarO)

Battery:		GPS:	27°16'20.2" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
12.11.25	14:31:48		91°14'01.8" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	3.349 V/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	269.5 mV/m
	Total			3.354 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	365 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Main Town BTL (Mongar)

Battery:		GPS:	27°16'37.5" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
12.11.25	14:47:21		91°14'20.8" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
5	UMTS 1900	2 110.000 000 MHz	2 120.000 000 MHz	1.033 V/m
6	TDD 2300	2 310.000 000 MHz	2 350.000 000 MHz	902.1 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	701.7 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	691.1 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	914.0 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	1.142 V/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	563.7 mV/m
	Total			1.492 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	1.014 s	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Gyalpoishing TIPL (Mongar)

Battery:		GPS:	27°13'53.9" N	Ant:	3AX 0.4-6G	SrvTbl:	TICPL
12.11.25	13:28:16		91°11'46.6" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	208.4 mV/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	116.3 mV/m
5	TDD 2300	2 350.000 000 MHz	2 390.000 000 MHz	135.9 mV/m
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	74.24 mV/m
	Total			256.7 mV/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	664 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Main Town TIPL (Mongar)

Battery:		GPS:	27°16'37.6" N	Ant:	3AX 0.4-6G
12.11.25	14:55:46		91°14'20.9" E	Cable:	SRM 5 m

SrvTbl:	TICPL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	3.486 V/m
2	UMTS 850	869.000 000 MHz	879.000 000 MHz	1.624 V/m
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	1.243 V/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	122.2 mV/m
3	GSM 900	945.000 000 MHz	955.000 000 MHz	110.0 mV/m
5	TDD 2300	2 350.000 000 MHz	2 390.000 000 MHz	95.20 mV/m
	Total			3.638 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	903 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Dzong T/Yangtse (BTL)

Battery:		GPS:	27°36'53.2" N	Ant:	3AX 0.4-6G
13.11.25	10:00:19		91°29'53.4" E	Cable:	SRM 5 m

SrvTbl:	BTL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	816.6 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	795.3 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	505.8 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	368.9 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	803.2 mV/m
	Total			1.090 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	744 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Main Town BTL T/Yangtse

Battery:		GPS:	27°36'41.0" N	Ant:	3AX 0.4-6G
13.11.25	10:24:51		91°29'45.5" E	Cable:	SRM 5 m

SrvTbl:	BTL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	2.776 V/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	335.0 mV/m
	Total			2.778 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	365 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Kanglung BTL (Trashigang)

Battery:		GPS:	27°17'13.7" N	Ant:	3AX 0.4-6G
13.11.25	13:00:54		91°31'32.3" E	Cable:	SRM 5 m

SrvTbl:	BTL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.110 V/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	1.676 V/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	963.5 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	1.820 V/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	0.501 V/m
5	UMTS 1900	2 110.000 000 MHz	2 120.000 000 MHz	539.9 mV/m
	Total			2.258 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	865 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Main Town BTL(Trashigang)

Battery:		GPS:	27°19'56.5" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
13.11.25	14:57:34		91°33'03.5" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	0.841 V/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	1.225 V/m
	Total			1.264 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	365 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Sherubtse College BTL(Trashigang)

Battery:		GPS:	27°16'55.2" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
13.11.25	13:23:25		91°31'11.9" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	659.3 mV/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	261.4 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	115.3 mV/m
	Total			673.0 mV/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	507 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Trashigang Main Exchange BTL

Battery:		GPS:	27°20'01.8" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
13.11.25	14:38:28		91°33'11.7" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.617 V/m
6	TDD 2300	2 310.000 000 MHz	2 350.000 000 MHz	1.568 V/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	782.6 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	625.3 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	527.4 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	118.1 mV/m
	Total			2.202 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	895 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Main Town TIPL (Trashigang)

Battery:		GPS:	27°19'56.5" N	Ant:	3AX 0.4-6G	SrvTbl:	TICPL
13.11.25	15:06:20		91°33'03.5" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	351.2 mV/m
2	UMTS 850	869.000 000 MHz	879.000 000 MHz	200.0 mV/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	115.1 mV/m
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	242.3 mV/m
3	GSM 900	945.000 000 MHz	955.000 000 MHz	126.7 mV/m
	Total			421.6 mV/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	753 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Near TIPL Office, Gelephu, Sarpang (BTL)

Battery:		GPS:	26°53'02.5" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
12.12.25	16:44:04		90°29'10.8" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.378 V/m
	Total			1.378 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	173 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	2 089
						AVG:	6 min

Rabdling, Gelephu (BTL)

Battery:		GPS:	26°52'52.4" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
12.12.25	17:14:48		90°29'32.8" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	704.5 mV/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	416.0 mV/m
5	UMTS 1900	2 110.000 000 MHz	2 120.000 000 MHz	806.2 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	539.1 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	876.5 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	257.5 mV/m
	Total			1.130 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	865 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Gelephu Exchange, BTL Office (BTL)

Battery:		GPS:	26°52'09.3" N	Ant:	3AX 0.4-6G
12.12.25	17:51:20		90°29'16.0" E	Cable:	SRM 5 m

SrvTbl:	BTL		
Stnd:	U_BICMA		

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.666 V/m
6	TDD 2300	2 310.000 000 MHz	2 350.000 000 MHz	1.238 V/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	857.8 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	1.437 V/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	325.6 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	440.8 mV/m
5	UMTS 1900	2 110.000 000 MHz	2 120.000 000 MHz	404.5 mV/m
	Total			2.082 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	1.012 s
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

TIPL Office, Gelephu (TIPL)

Battery:		GPS:	26°53'03.2" N	Ant:	3AX 0.4-6G
12.12.25	16:57:07		90°29'12.2" E	Cable:	SRM 5 m

SrvTbl:	TICPL		
Stnd:	U_BICMA		

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	712.4 mV/m
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	1.065 V/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	117.0 mV/m
	Total			1.156 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	514 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

BOD, Gelephu (TIPL)

Battery:		GPS:	26°52'15.3" N	Ant:	3AX 0.4-6G	SrvTbl:	TICPL
12.12.25	17:36:11		90°29'07.6" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
2	UMTS 850	869.000 000 MHz	879.000 000 MHz	0.859 V/m
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	1.026 V/m
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	488.8 mV/m
3	GSM 900	945.000 000 MHz	955.000 000 MHz	427.4 mV/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	268.0 mV/m
	Total			1.164 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	753 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Near Children Park, SJ (BTL)

Battery:		GPS:	26°47'44.2" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
13.12.25	15:49:27		91°30'19.5" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.200 V/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	310.9 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	320.7 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	258.8 mV/m
	Total			1.259 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	627 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

SJ Exchange, BTL office

Battery:		GPS:	26°47'55.6" N	Ant:	3AX 0.4-6G
13.12.25	16:09:29		91°30'15.9" E	Cable:	SRM 5 m

SrvTbl:	BTL		
Stnd:	U_BICMA		

Table View: Detailed

Index	Service	Fmin	Fmax	Max
5	UMTS 1900	2 110.000 000 MHz	2 120.000 000 MHz	1.431 V/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	1.506 V/m
3	GSM 900	935.000 000 MHz	945.000 000 MHz	716.7 mV/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	661.6 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	707.2 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	863.8 mV/m
	Total			1.917 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	865 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Tashi Pokto, SJ (BTL)

Battery:		GPS:	26°47'44.5" N	Ant:	3AX 0.4-6G
13.12.25	16:47:36		91°30'30.3" E	Cable:	SRM 5 m

SrvTbl:	BTL
Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
3	GSM 900	935.000 000 MHz	945.000 000 MHz	384.5 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	348.3 mV/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	592.8 mV/m
2	UMTS 850	879.000 000 MHz	889.000 000 MHz	530.2 mV/m
5	UMTS 1900	2 110.000 000 MHz	2 120.000 000 MHz	272.3 mV/m
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	218.7 mV/m
	Total			768.1 mV/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	868 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

Dewathang, Trashigang highway road, BTL

Battery:		GPS:	26°52'02.8" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
14.12.25	16:25:51		91°28'57.2" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	633.2 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	111.9 mV/m
	Total			643.0 mV/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	319 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Dewathang Hospital (BTL)

Battery:		GPS:	26°51'41.2" N	Ant:	3AX 0.4-6G	SrvTbl:	BTL
14.12.25	17:09:53		91°28'02.3" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 815.000 000 MHz	1 845.000 000 MHz	1.486 V/m
7	5G	3 500.000 000 MHz	3 600.000 000 MHz	191.7 mV/m
1	LTE 700	783.000 000 MHz	803.000 000 MHz	146.3 mV/m
	Total			1.502 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	507 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

SJ Exchange, TIPL

Battery:		GPS:	26°48'05.8" N	Ant:	3AX 0.4-6G	SrvTbl:	TICPL
13.12.25	16:24:33		91°30'19.8" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	2.910 V/m
3	GSM 900	945.000 000 MHz	955.000 000 MHz	718.4 mV/m
2	UMTS 850	869.000 000 MHz	879.000 000 MHz	352.9 mV/m
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	245.4 mV/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	125.9 mV/m
	Total			2.971 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	751 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Tashi Pokto, SJ (TI[L)

Battery:		GPS:	26°47'44.5" N	Ant:	3AX 0.4-6G	SrvTbl:	TICPL
13.12.25	16:39:25		91°30'30.3" E	Cable:	SRM 5 m	Stnd:	U_BICMA

Table View: Detailed

Index	Service	Fmin	Fmax	Max
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	880.5 mV/m
3	GSM 900	945.000 000 MHz	955.000 000 MHz	491.3 mV/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	220.3 mV/m
2	UMTS 850	869.000 000 MHz	879.000 000 MHz	169.1 mV/m
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	143.4 mV/m
	Total			1.008 V/m

Isotropic

Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	753 ms	Progress:	
				Noise Suppr.:	Off	No. of Runs:	HOLD
						AVG:	6 min

Dewathang Town (TIPL)

Battery:		GPS:	26°51'47.3" N	Ant:	3AX 0.4-6G
14.12.25	16:45:21		91°28'24.1" E	Cable:	SRM 5 m

SrvTbl:	TICPL				
Stnd:	U_BICMA				

Table View: Detailed

Index	Service	Fmin	Fmax	Max
4	LTE 1800	1 845.000 000 MHz	1 880.000 000 MHz	1.496 V/m
6	5G	3 400.000 000 MHz	3 500.000 000 MHz	2.699 V/m
1	LTE 700	758.000 000 MHz	778.000 000 MHz	120.4 mV/m
	Total			2.964 V/m

Isotropic

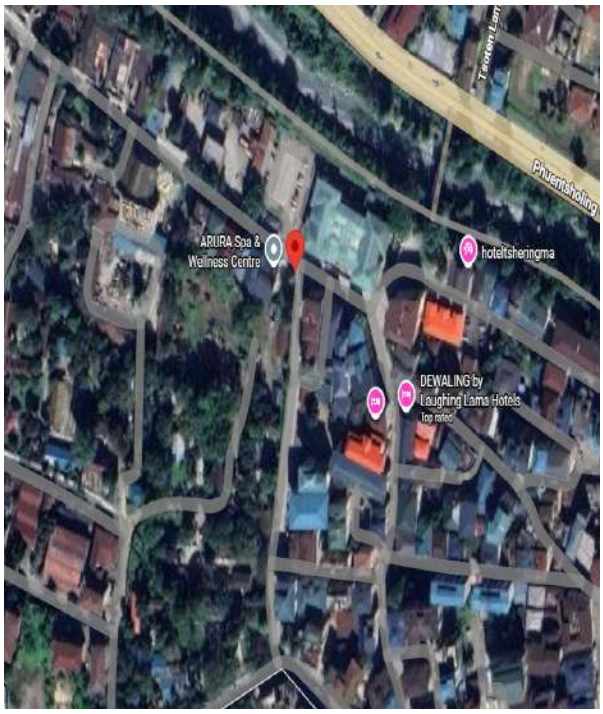
Safety Evaluation

MR:	20 V/m	RBW:	300 kHz	Sweep Time:	514 ms
				Noise Suppr.:	Off

Progress:	
No. of Runs:	HOLD
AVG:	6 min

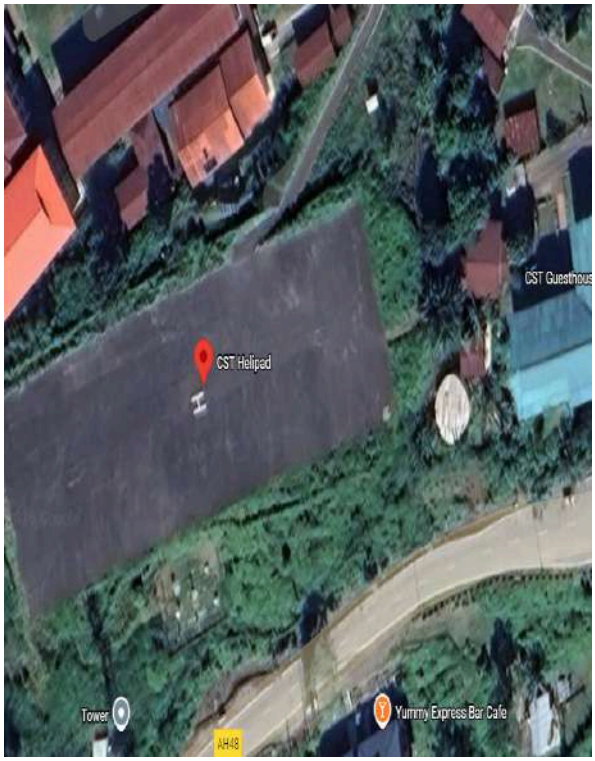
Annexure 3 (Satellite View of Location of Monitored Sites)

The following are the satellite view of the measurement location of the each Telecom site transmitter;



Near Dantak area, Chhukha BTL

Hospital Phuentsholing, BTL

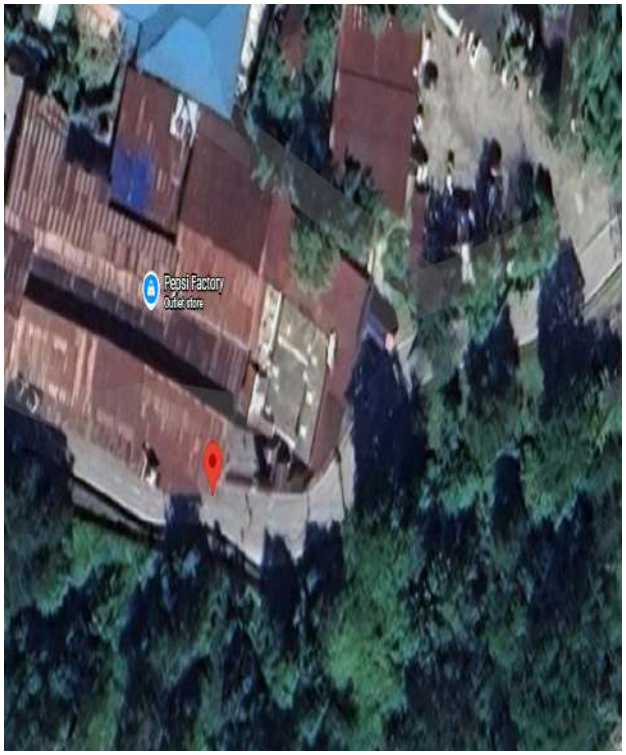


CST Helipad area, Phuentasholing, BTL

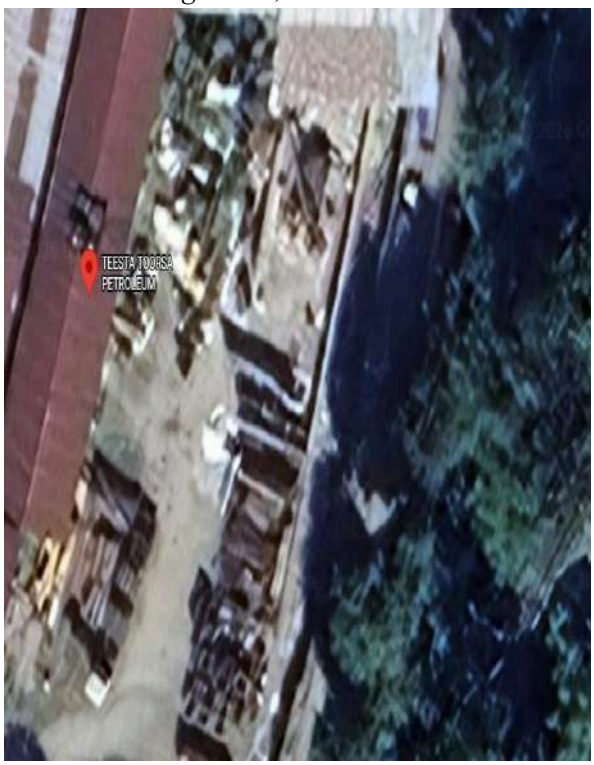
CST football ground, BTL

CST water tank, BTL

FCB godown, BTL



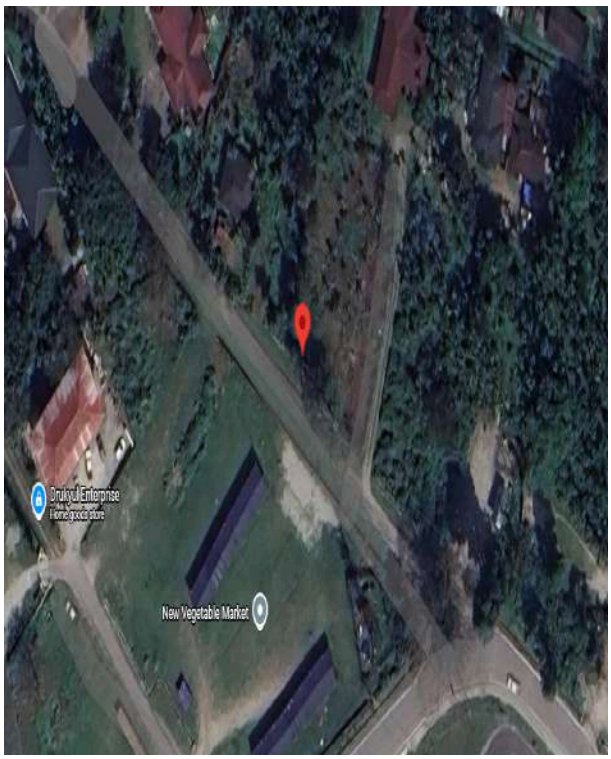
Drangchu Beverages, BTL



Toorsa, TIPL

CST Football Ground, TIPL

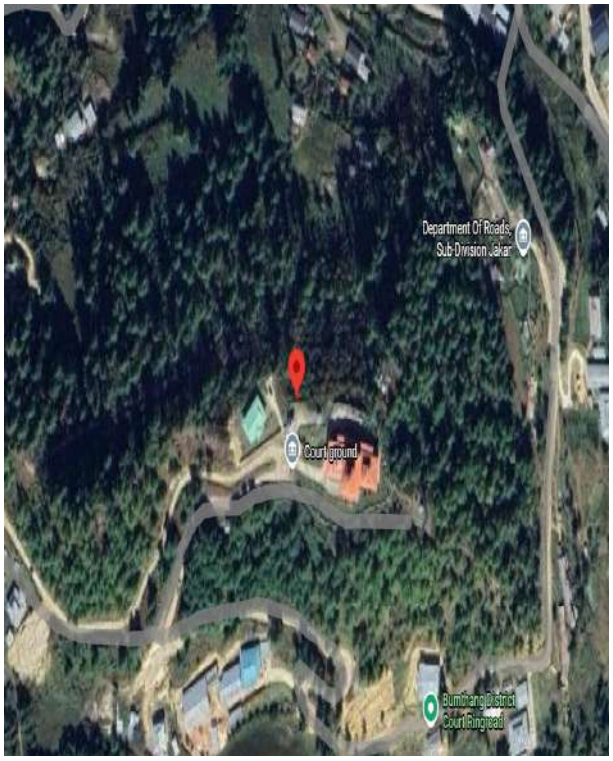
Shiv Mandir, Samtse BTL



Chorten, Samtse BTL

Chorten, Samtse TIPL

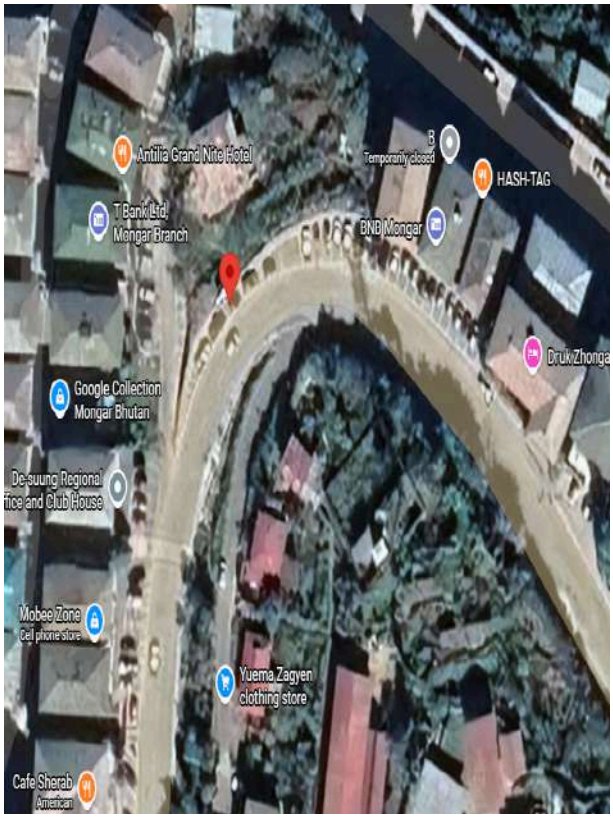
Jhamphel, Bumthang, BTL



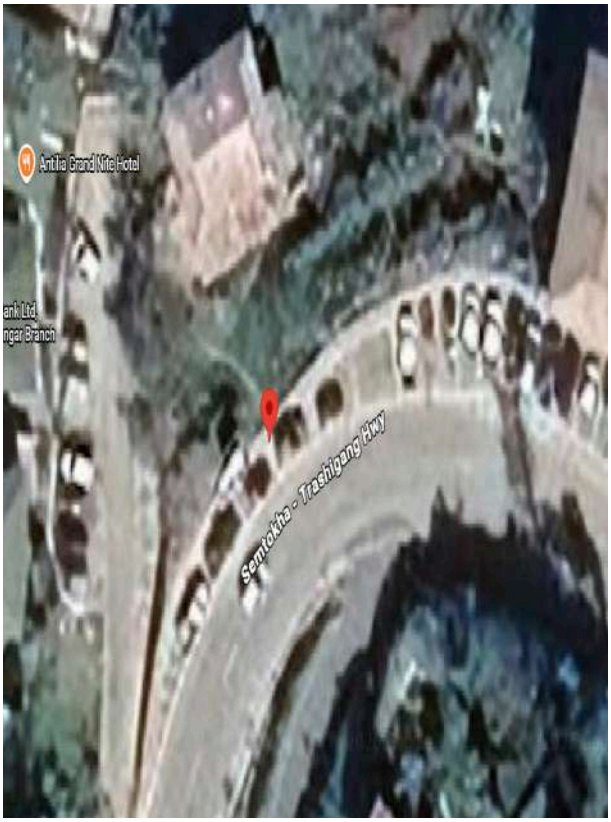
Near High court, Bumthang BTL

New Town, Bumthang BTL

New Town, Bumthang TIPL



Main Town, Mongar BTL



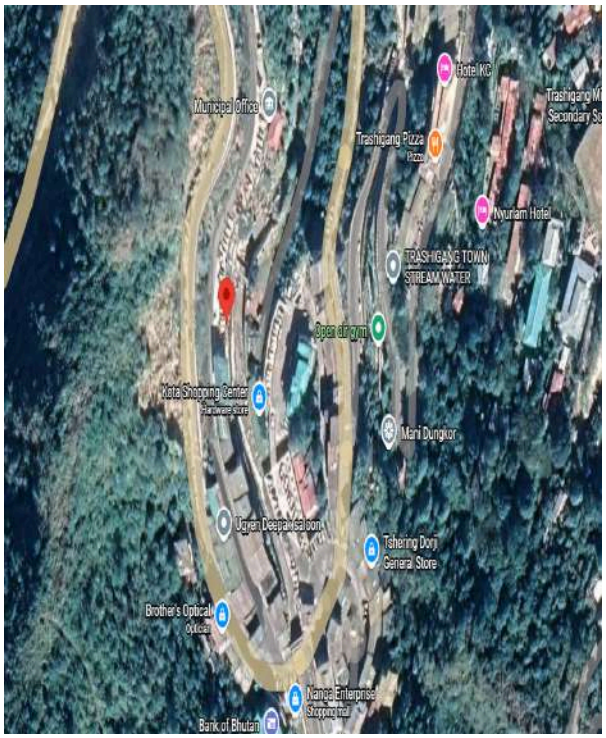
Main Town, Mongar TIPL

Gyalpoishing, Mongar TIPL

Dzong area, Tashiyangtse BTL

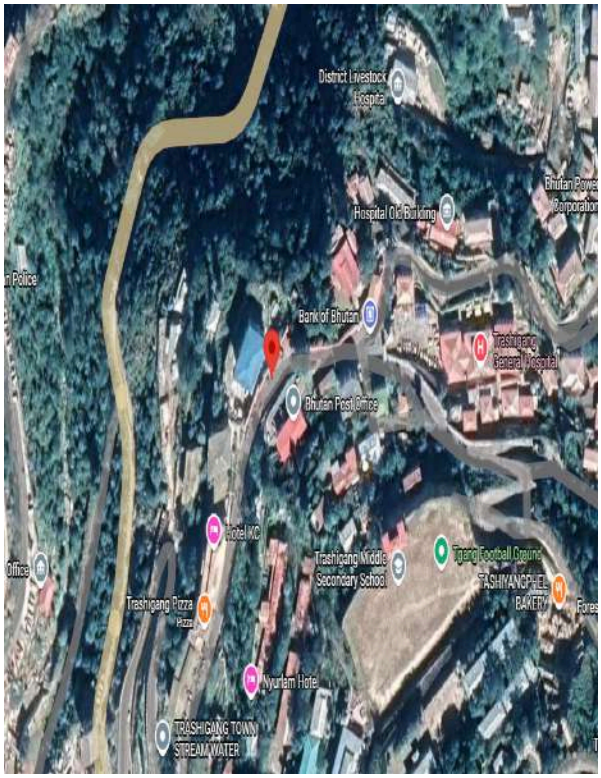
Town, Trashiyangtse BTL

Kanglung Exchange, Trashigang BTL

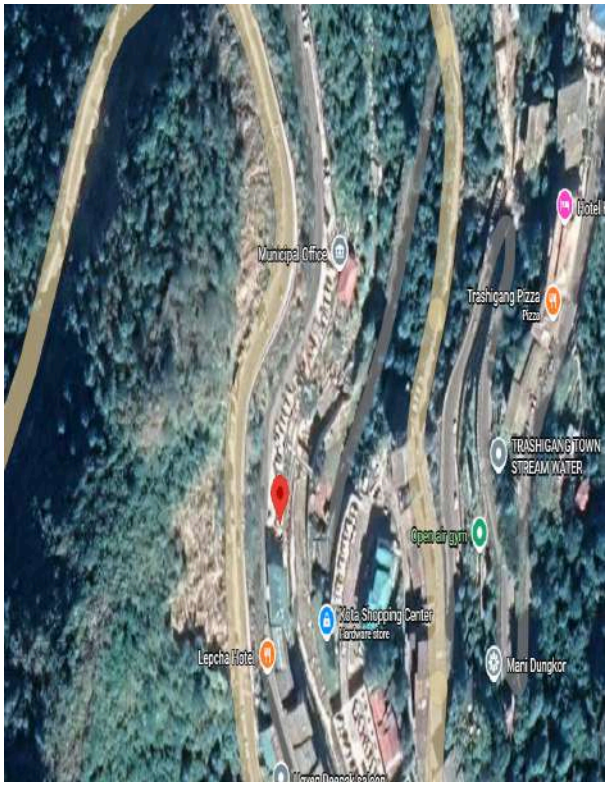


Main town, Trashigang BTL

Sherubtse College, Trashigang BTL



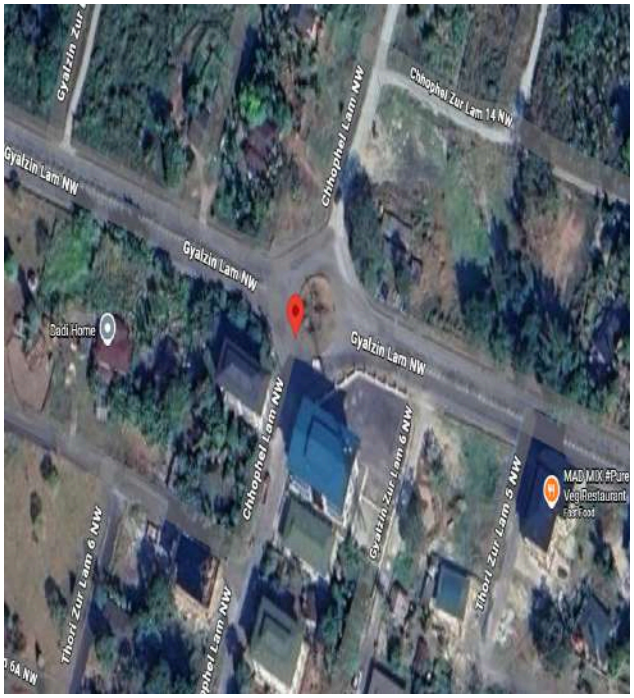
Trashigang Main Exchange, BTL



Trashigang Main Exchange, TIPL

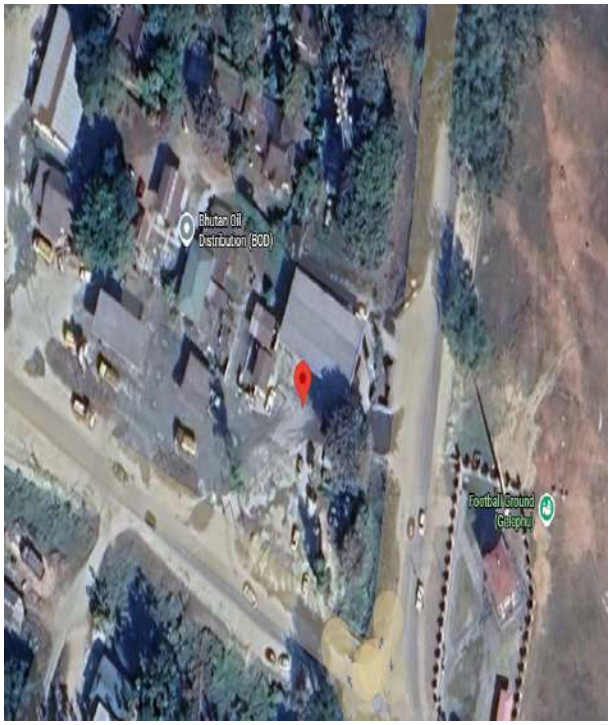
Gelephu Exchange, BTL Office BTL

Rabdling, Gelephu BTL



Near TIPL Office, Gelephu BTL

TIPL Office, Gelephu



BOD, Gelephu TIPL

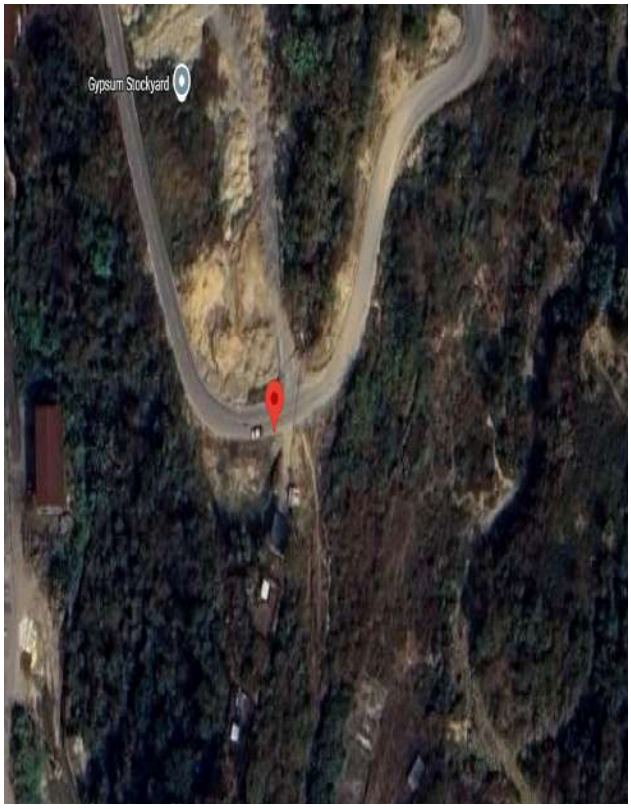
Near Children Park, SJ BTL

SJ Exchange, BTL office BTL

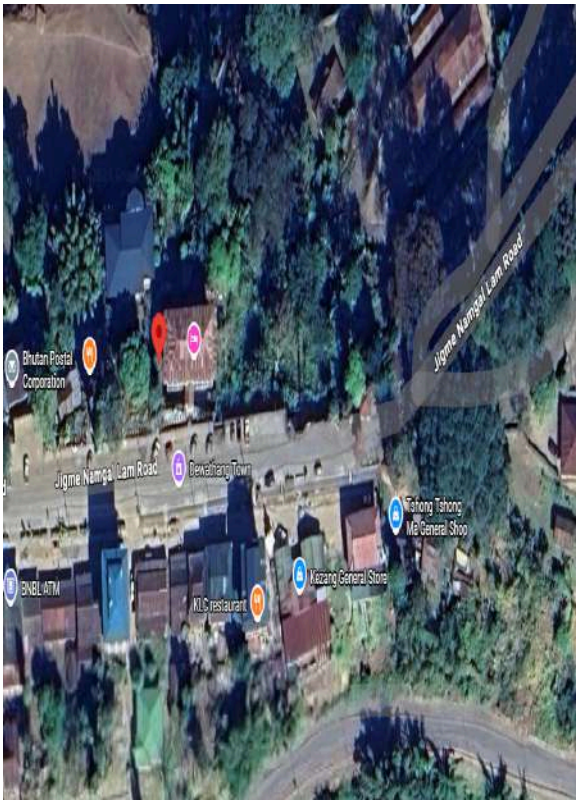
Tashi Pokto, SJ BTL

Dewathang, Trashigang highway road BTL

Dewathang Hospital



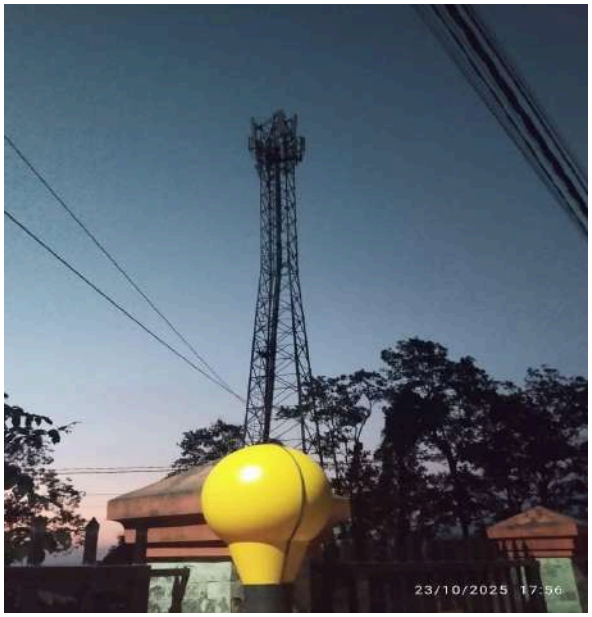
Tashi Pokto, SJ TIPL



SJ Exchange, TIPL

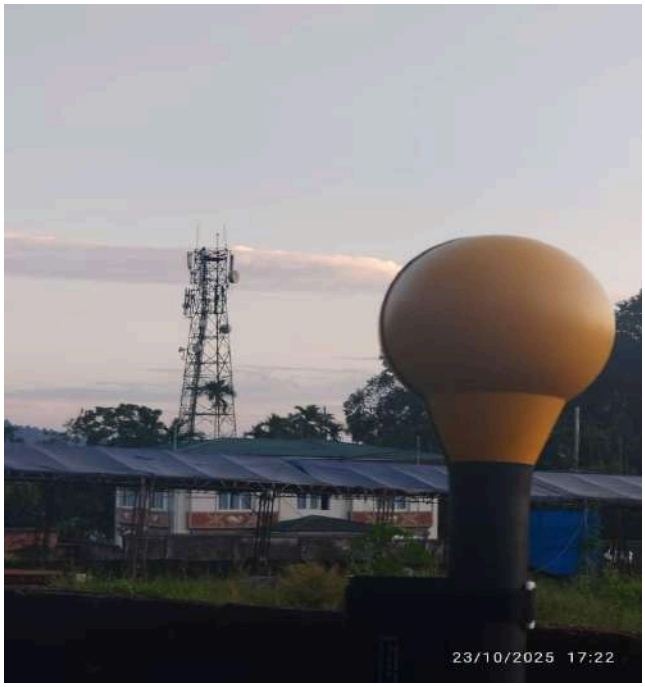
Annexure 4 (Image of Monitored BTS)

The following are the images of the each Telecom BTS transmitters;

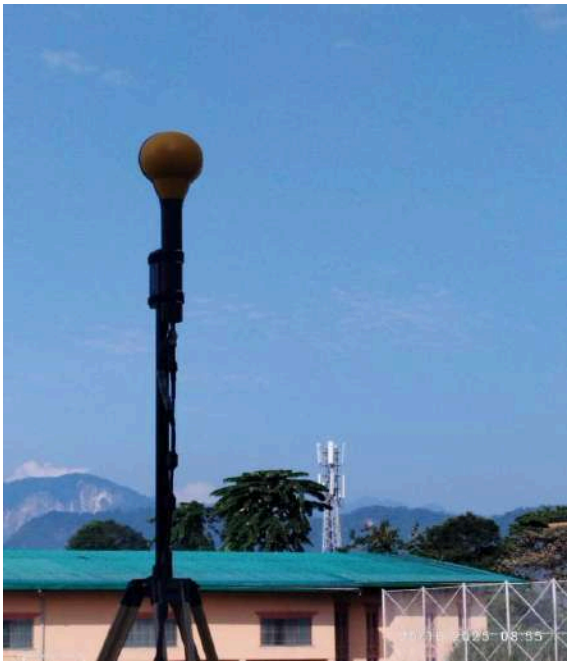


Phuentsholing Town, TIPL

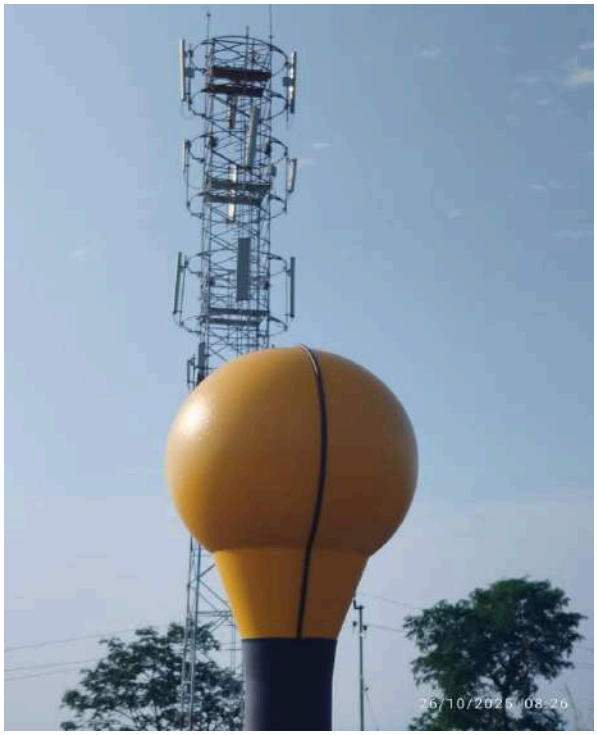
Phuntsholing Town BTL



Phuenstloing BTL

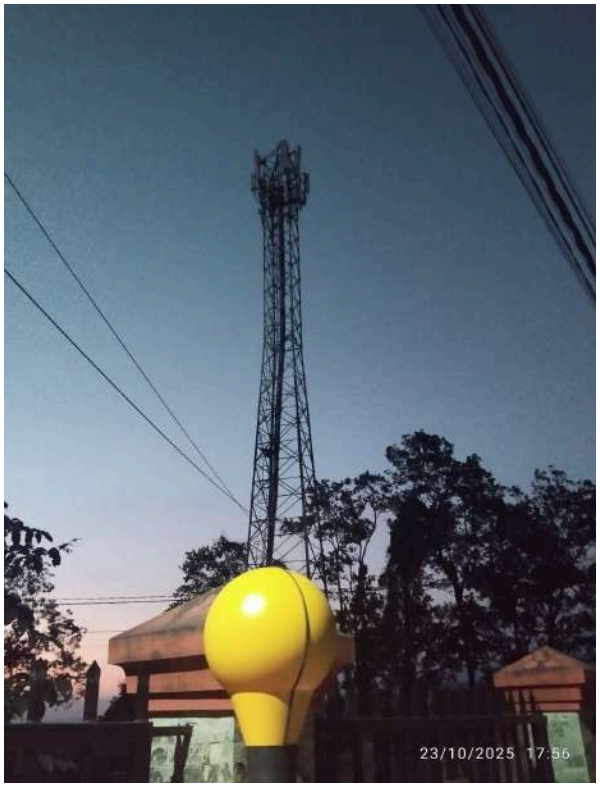


CST BTL

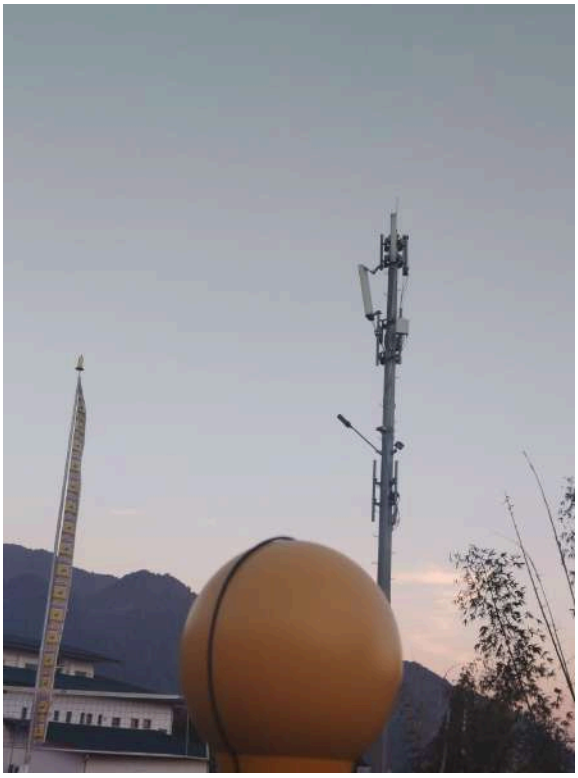


CST TIPL

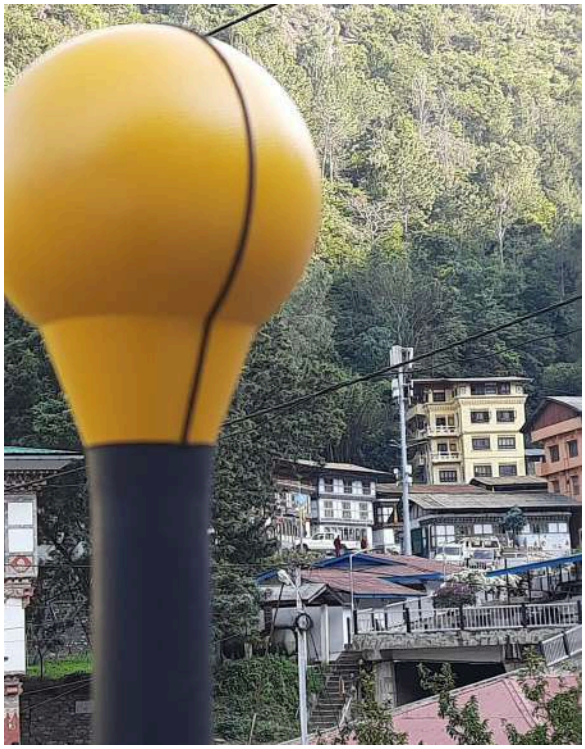
Sabji Bazer, TIPL



Near Hindu Temple, Samtse BTL



Dewathang Hospital (BTL)



Trashigang Town, BTL

Trashigang Exchange, BTL

Kanglung BTL

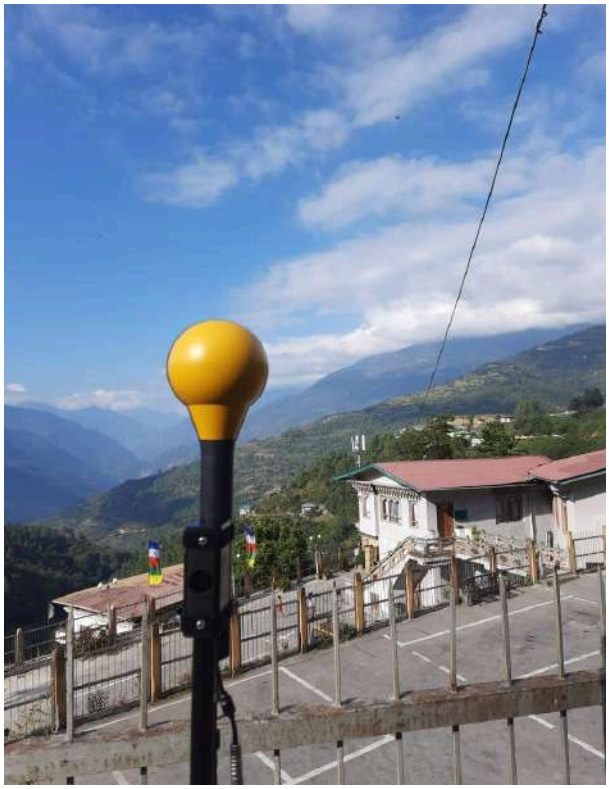
Kanglung Exchange BTL

Bumthang BTL

Bumthang TIPL

Monger TIPL

Monger TIPL

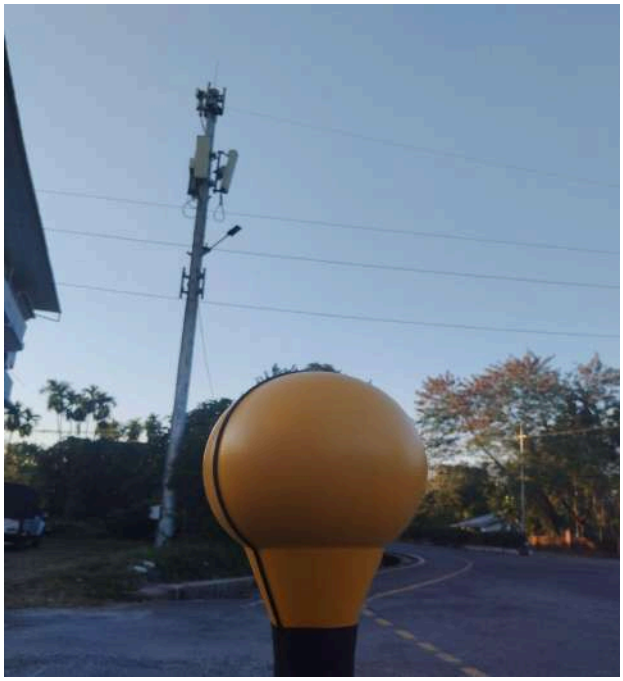


Monger Near BCTA, BTL

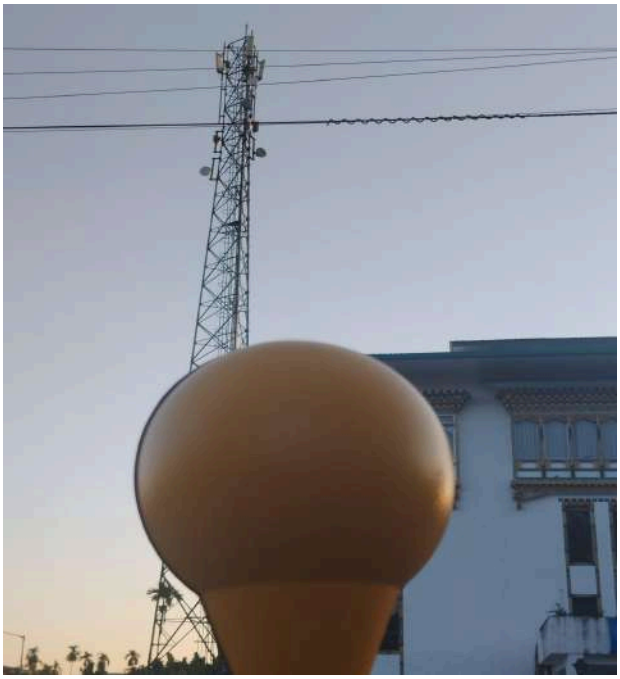
Gyalposhing BTL

Gyalposhing, Monger, BTL

Bumthang, TIPL



Near TIPL Office, Gelephu, Sarpang (BTL)



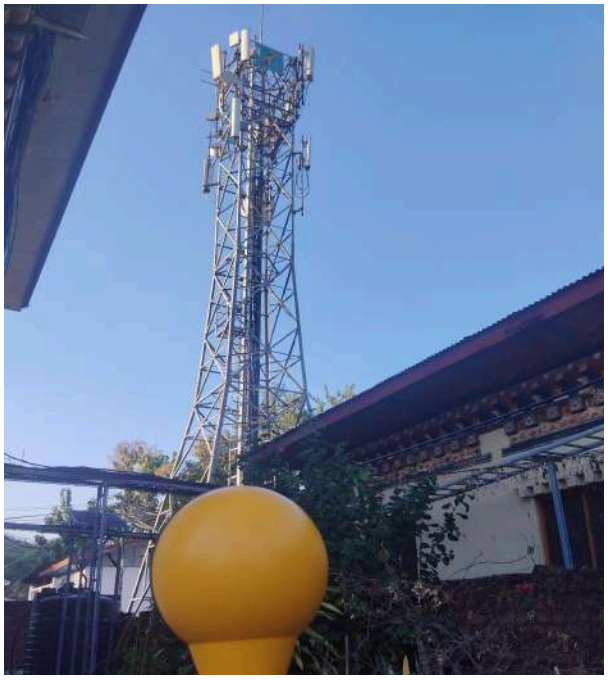
TIPL Office, Gelephu (TIPL)

Rabdling, Gelephu (BTL)

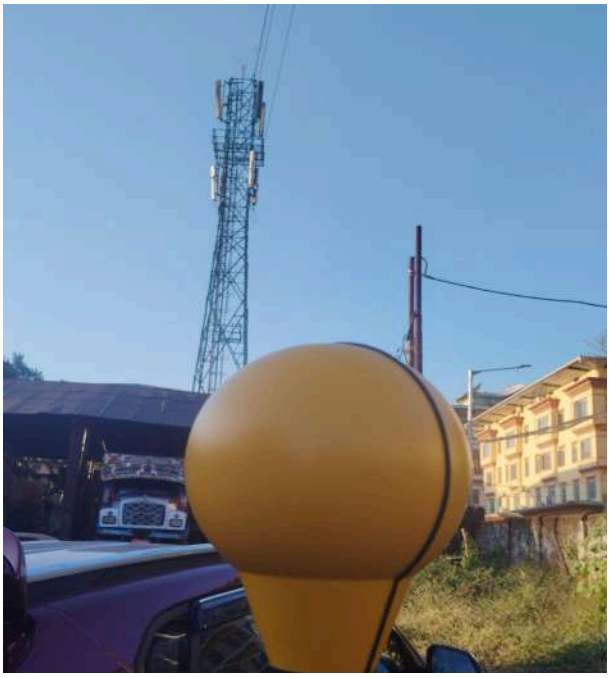
BOD, Gelephu (TIPL)

Gelephu Exchange, BTL Office (BTL)

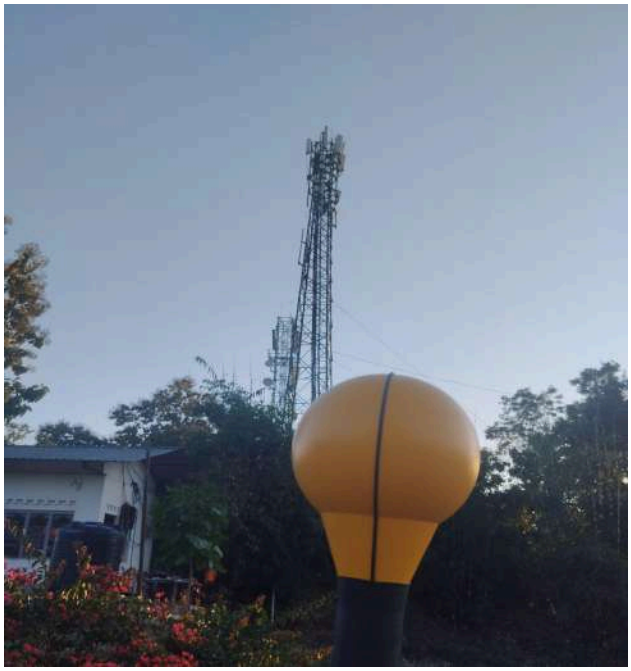
Near Children Park, SJ (BTL)



SJ Exchange, BTL office



SJ Exchange, TIPL



Tashi Pokto, SJ (BTL & TIPL)

Dewathang, Trashigang highway road, BTL

Dewathang Town (TIPL)