

APPENDIX I

SOCIO-ECONOMIC
METHODOLOGY

BASELINE

I SOCIO-ECONOMIC BASELINE METHODOLOGY

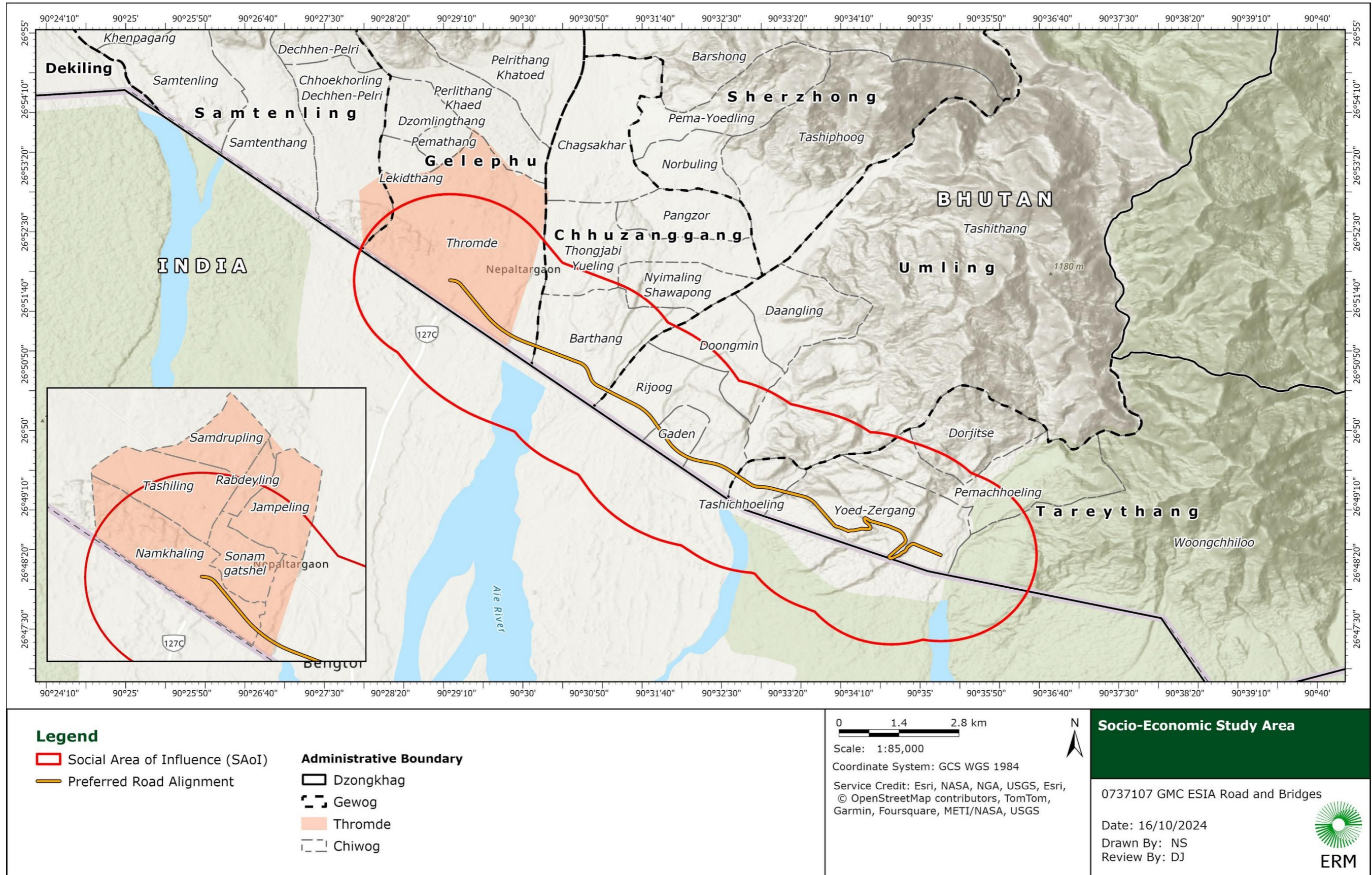
The socio-economic profile or baseline for the Project is focused on the Impact Area. An area of up to two (02) km either side of the road alignment has been defined as the Impact Area. This captures the areas that will likely be directly impacted by the Project, specifically social receptors and resources, such as local communities, existing infrastructure, common property resources and cultural heritage values. This also covers the areas where physical and economic displacement will likely occur as a result of the Project.

Additionally, the Impact Area factors in urban and rural areas that are likely to service the Project during the construction phase, mostly notably, areas where worker accommodation facilities or camps, sites used to store construction materials and locations of other essential services. The latter includes the Project's associated facilities, which refers to facilities or activities that are not funded by the Project, however, are directly related to the Project, carried out or planned to be carried out contemporaneously by the Project, and are necessary for the Project to be viable and would not have been constructed, expanded or conducted if the Project did not exist⁶².

Topography was also considered when it came to delineating the Impact Area. Specifically, the mountains in the area act as a natural buffer in helping to mitigate potential social impacts. The socio-economic impact area is indicated in **Figure I-1**.

⁶² 2017 International Bank for Reconstruction and Development, The World Bank.

FIGURE I-1 SOCIO-ECONOMIC IMPACT AREA



The Impact Area extends through a total of seven (07) administrative units and includes six (06) rural areas (or Gewogs) and one (01) urban area (or Thromde) (**Table I-1**).

TABLE I-1 PROJECT IMPACT AREA

S. No.	Thromde / Gewog	Demkhong / Chiwog
1.	Gelephu Thromde	Jampeling Demkhong Namkhaling Demkhong Rabdeling Demkhong Samdrupling Demkhong Sonam Gatsel Demkhong Tashiling Demkhong
2.	Gelegphu Gewog	Perlithang Khatoed Chiwog Perlithang Khaed Chiwog Dzomlingthang Chiwog Pemathang Chiwog Lekidthang Chiwog
3.	Samtenling Gewog	Khenpagang Chiwog Samtenling Chiwog Samtenthang Chiwog Dechen-Pelri Chiwog Chhokorling Dechen-Pelri Chiwog
4.	Umling Gewog	Tashithang Chiwog Daangling Chiwog Dungmin Chiwog Rijoog Chiwog Gaden Chiwog
5.	Chhuzanggang Gewog	Chagsakhar Chiwog Pangzor Chiwog Nyimaling Shawapong Chiwog Thongjabi Yueling Chiwog Barthang Chiwog
6.	Serzhong Gewog	Serzhong Chiwog Barshong Chiwog Pema-Yoedling Chiwog Tashiphoog Chiwog Norbuling Chiwog
7.	Tareythang Gewog	Tashichhoeling Chiwog Yoed-Zergang Chiwog Pemacholing Chiwog Dorjitse Chiwog Woongchhilu Chiwog

I.1 DATA COLLECTION

In preparing the baseline, the initial step was a review of relevant publicly available data. This involved a review of information readily available in the public domain, including the following documents:

- Population and Housing Census of Bhutan, 2017.
- Bhutan Living Standard Survey (BLSS), 2022.
- National Land Use Zoning, A Baseline Report, 2023, Royal Government of Bhutan.
- Bhutan Vulnerability Baseline Assessment, 2016, Gross National Happiness Commission Secretariat, Bhutan.
- Labor Force Survey Quarterly Report, Second Quarter, 2024, National Statistical Bureau.
- Articles and information available in the public domain on aspects such as irrigation, drinking water supply, livelihood patterns, land, local governance, and active NGOs in the area and government development plans for the study area.

A comprehensive list of the documents reviewed during the desktop review is contained in **Appendix I.2**.

To fill gaps in the available secondary data, primary data was collected. This involved a field visit between 20 August and 4 September 2024. The field visit involved:

- Key information interviews (KIIs): Representatives from various stakeholder groups took part in the key informant interviews. This included but was not limited to representatives from NGOs operating in the Impact Area, leaders of the Gewog and Chiwogs listed in **Table I-1**, the Land Commission, local health care service providers, local police, local schools, and businesses. A full list of those interviewed is contained in **Appendix I.3**. In total, 72 representatives were interviewed.

An interview guide was developed to guide the conversation with key informants, ensuring a consistent set of information was collected across each interview. The aim was to collect their views and perspectives of the Project, insights on their local community, and feedback based on their role in their community.

- Focused group discussions (FGDs): A total of 18 FGDs were undertaken with adolescent girls (between the ages of 15 and 18 years of age), women (above 18 years of age), and men (above 18 years of age). A total of 69 women and 49 men participated in the FGDs. Of these, 39 were adolescent girls between the ages of 15 and 18 years of age. A full list of the FDG participants and community members who were consulted is provided in **Appendix I.4**.
- An interview guide was developed to inform the FDG conversations, ensuring that a consistent set of questions was asked in each of the FDGs. The aim was to better understand not only stakeholder views and perspectives of the Project, but also the role and treatment of girls and women in the Impact Area.

TABLE I-2 FOCUS GROUPS DISCUSSIONS

Thromde/Gewog	FGDs	
	Male	Female
Gelephu Thromde	10	15
Gelegphu Gewog	7	14
Samtenling Gewog	7	10
Umling Gewog	6	12
Chhuzanggang Gewog	6	12
Tareythang Gewog	6	13

Through the KIIs and FDGs both quantitative and qualitative data was collected. In terms of quantitative data, this included details on local crime rates, domestic violence rates, health services, infectious and non-communicable disease rates, birth and death rates, data on community forest user groups and forest produce, as well as cultural heritage sites and practices.

Analysis of the qualitative data collected through the KIIs and FDGs was done by using a technique called thematic coding. This involved reviewing the results from the KIIs and FDGs multiple times to draw out themes, and then these themes were used to code the results from the KIIs and FDGs. This helped to understand key issues and concerns within the communities within the Impact Area and provide context and on-ground understanding of the quantitative data collected through a review of secondary data.

Findings from KIIs and FDGs, coupled with the second information, has been used to inform the baseline. Using the combination of primary and secondary data, and qualitative and quantitative data, provides for a more robust picture of the current local socio-economic environment. In addition, where appropriate national and district level data has incorporated for context purposes.

I.2 DOCUMENTS REVIEWED

Reference List (temporary)

Gyeltshen, K., Kamnuansilpa, P., Crumpton, C.D. and Wongthanavas, S., 2021. Training needs assessment of the Royal Bhutan Police. *Police Practice and Research*, 22(1), pp.409-425.

Panda, S., Wangdi, C., Mukherjee, D., Chowdhury, L., Wangdi, S. and Pahari, S., 2009. National baseline assessment of drugs and controlled substance use in Bhutan-2009. Thimphu, Bhutan: United Nations Office on Drugs and Crime (UNODC), and Bhutan Narcotics Control Agency.

Wangdi, K. and Jamtsho, T., 2019. Drug use among teenagers and young adults in Bhutan. *Indian journal of psychological medicine*, 41(6), pp.535-540.

GENDER REFERENCES

ADB (2011) Gender Equality Results, Case Studies: Bhutan. Available from: <https://www.adb.org/sites/default/files/publication/28287/gender-case-study-bhu.pdf>

BBS (2023) Tackling domestic violence. Available from: <https://www.bbs.bt/news/?p=185543>

Bhutan Multiple Indicator Survey (2010) Thimphu, Bhutan: National Statistics Bureau. Available from: <https://mics.unicef.org/surveys>

Dzed, L., Joshi, V., Zangpo, L., Tshomo, T., and Mongar, C. n.d. (2019) Creating an enabling environment for delivering maternal nutrition interventions in Bhutan. Available from: <https://www.enonline.net/nex/southasia/maternalnutritionbhutan>

FAO (2023) National Gender Profile of Agriculture and Rural Livelihoods, country Gender Assessment Series, Bhutan. Available from: <https://openknowledge.fao.org/server/api/core/bitstreams/f7630f3b-8de4-4e1f-bac6-2bc15bba6f28/content>

Global Health Observatory data repository [database]. Geneva: World Health Organization; 2020 ([https://www.who.int/data/gho/data/indicators/indicator-details/GHO/proportion-of-population-with-primary-reliance-on-clean-fuels-and-technologies\(-\)](https://www.who.int/data/gho/data/indicators/indicator-details/GHO/proportion-of-population-with-primary-reliance-on-clean-fuels-and-technologies(-))), accessed 27 August 2020).

IDEA (2020) Strengthening women's political participation in Bhutan. Available from: <https://www.idea.int/news/strengthening-womens-political-participation-bhutan>

Ministry of Education (2017) Annual Education Statistics 2017. Available from: [Annual-education-Statistics-2017.pdf](#)

National Commission for Women and Children (NCWC) (2017) Summary Report, National Study on Women's Health and Life Experiences 2017, A Study on Violence against Women and Girls in Bhutan, Available from: https://www.undp.org/sites/g/files/zskgke326/files/migration/bt/Vaw-report_small.pdf

NCWC (2019a) Gender Equality in Bhutan – A Situational Analysis - Kunzang Lhamu, NCWC, Director. Available from: <https://www.ncwc.gov.bt/notifications/324>

NCWC (2019b) Accounting for Unpaid Care Work in Bhutan. Available from: https://www.ncwc.gov.bt/publications/UNPAID_CARE_WORK_IN_BHUTAN%20_20191570788312.pdf

NCWC (2020) Assessment Report of Implementation Progress of the Domestic Violence Prevention Act of Bhutan 2013 and its Rules and Regulation. Available from: <https://www.ncwc.gov.bt/publications/Report1670316825.pdf>

NCWC (2023) Revised National Gender Equality Policy. Available from: [https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.ncwc.gov.bt%2Fdocuments%2FFinal%2520version-NGEP%2520\(LGBT%2B%2520integration\)%2520revised%252010.01.23.docx&wdOrigin=BROWSELINK](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.ncwc.gov.bt%2Fdocuments%2FFinal%2520version-NGEP%2520(LGBT%2B%2520integration)%2520revised%252010.01.23.docx&wdOrigin=BROWSELINK)

NCWC (2021) Covid-19 Impact on Women and Children Study (Bhutan). Available from: <https://ncwc.gov.bt/publications/COVID19-Impact%20of-Women-and-Children-Study1646648937.pdf>

QUT (2023) Bhutan: A Bus of Change. Available from: <https://blogs.qut.edu.au/impact-stories/2021/01/08/bhutan-a-bus-of-change/>

RENEW (2024) Respect Educate Natura & Empower Women Website. Available from: <https://renew.org.bt/>

Royal Government of Bhutan (2023) Water Flagship Program Support Project: Social Monitoring Report (July-December 2023), Available from: https://www.adb.org/sites/default/files/project-documents/42173/42173-017-smr-en_0.pdf

Sina C (2009) Effects of Education and ICT Use on Gender Relations in Bhutan. Available from: https://www.genderit.org/sites/default/files/Bhutan_0.pdf

Social Institution and Gender Index (SIGI) (2012) Bhutan. Available from: <http://genderindex.org/country/bhutan>

Tenzin K, Dorj T, Dorj T, Lusero-Prisno D (2022) Health inequalities in Bhutan's free healthcare system: a health policy dialogue summary. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1002/puh2.34>

ThingsAsian (2002) Bhutan bucks regional trend in attitude to women. Available from: <http://thingsasian.com/story/bhutan-bucks-regional-trend-attitude-women>

UNDP (2011) Bhutan Gender Analysis, Executive Summary. Available from: https://climatepromise.undp.org/sites/default/files/research_report_document/undp-ndcsp-bhutan-gender-analysis-report.pdf

UNDP (2020) Human Development Reports. Available from: <http://hdr.undp.org/en/countries/profiles/BTN>

Verma, R. & Ura, D.K. (2018) Gender Differences in Gross National Happiness in Bhutan: Abridged Analysis of the GHN Survey' in: Proceedings 6th International Conference on GHN, 4-6 November 2015, Paro. Center for Bhutan Studies, Thimphu.

Water for Women (2022) Bhutan boosts happiness quotient with 100% improved sanitation declaration on World Toilet Day. Available from: <https://www.waterforwomenfund.org/en/news/bhutan-boosts-happiness-quotient-with-100-improved-sanitation-declaration-on-world-toilet-day.aspx>

WHO (2021). Bhutan: gender and health. World Health Organization, Regional Office for South-East Asia. Available from: <https://iris.who.int/handle/10665/344672>

World Bank Group (2018) Bhutan Gender Policy Note. Available here: <https://www.ncwc.gov.bt/publications/Bhutan%20Gender%20Policy%20Note.pdf>

World Bank Group (2024) Bhutan Gender Data Portal. Available here: <https://genderdata.worldbank.org/en/economies/bhutan>

I.3 CONSULTATIONS AND KIIS PARTICIPANTS

SN.	Organization / Affiliation	Name / Designation
1.	RGoB	Dr. Lotay, Governor of GMC and Former Prime Minister of Bhutan
2.	National Land Commission	Geley Norbu, Director General
3.	Gelephu Regional Referral Hospital	Dr. Sangay Wangmo, General Surgeon
4.	Gelephu Regional Referral Hospital	Neelima Chhetri, Clinical Nurse
5.	Department of Forests and Park Services	Samten Wangchuk, Chief Forestry Officer
6.	Chhuzanggang Gewog	Karmashree, Chhuzanggang Gup
7.	Chhuzanggang Primary School	Cheten Wangchu, Principal
8.	Chhuzanggang Gewog	Healthcare workers – Grade 1 Hospital
9.	Umling Gewog	Sangay Tenzin, Gup

SN.	Organization / Affiliation	Name / Designation
10	Umling Gewog	Kezang Gyeltshen – Principal Umling Middle Secondary School
11	Umling Range Office	Duptho Ugyen in Umling, Royal Manas National Park
12	Tareythang Gewog	Dhankan Gurung – Tareythang Gup
13	Tareythang Gewog	Jigme Dorji, Tareythang Gewog Administrative Officer
14	Tareythang Gewog	Ningkhar Pemo, Tareythang community forest
15	Tareythang Gewog	Dorji, Principal, Tareythang School
16	Jampeling Demkhong, Gelephu Thromde	People's representative, Jampeling Demkhong – Lal Bahadur Chhetri
17	Namkheling Demkhong, Gelephu Thromde	People's representative, Namkheling Demkhong – Sanjog Pradhan
18	Samtenling Gewog	Gewog Representatives
19	Samtenling Gewog	Community Service Executive, Samtenling Gewog
20	Samtenling Gewog	Early Childcare Development (ECCD) Facilitator – Samtenling Gewog
21	Samtenling Gewog	Non-Formal Education (NFE) Instructor
22	Bhutan Youth Development Fund	Pema Wangdi, Programme Officer
23	RENEW	Gita Darnan, Centre Manager
24	Gelephu Thromde	Tshering Norbu, Mayor
25	Sonam Gatshel Demkhong, Gelephu Thromde	Tika Maya Karki, Thromde Thuemi
26	Gelephu Thromde	Chimi, Thromde Thimi
27	Gelephu Thromde	Pasang Dori Thromde Thimi, Tashilily
28	Bhutan Kidney Foundation	Tashi Namgay - Executive director
29	Gelegphu Gewog	Prem Prasad Katel (Local Leader)
30	Gelegphu Gewog	Sanam Drakpa (Dy Local Leader)
31	Gelegphu Gewog	Ajay Kr. Monger, Tshogpa
32	Gelegphu Gewog	Dena Rath Nepal, Tshogpa
33	Gelegphu Gewog	Ugyen Tshering, Tshogpa
34	Gelegphu Gewog	Rinzen Thamo, Tshogpa
35	Gelegphu Gewog	Kharananda Khatiwara, Tshogpa
36	Community Rai Dara Forest	Tshulthrim Dorji, Chairman
37	Gelegphu Gewog	Geeta Monger (Gewog Community Executive – CSE)
38	Gelegphu Gewog	Sonam Choki (Non-Formal Education Instructor)
39	Gelegphu Gewog	Sonam Zangmo (Early Childhood Care and Development Facilitator - ECCDF)
40	Gelephu Thromde	Sherub Gyeltshen – Environment Officer
41	Gelephu Thromde	Pema Wangmo – Land Register

SN.	Organization / Affiliation	Name / Designation
42	Gelephu Thromde	Needup Zangmo, Thromde Officer
43	Gelephu Thromde	Tashi Wangdi, Thromde Officer
44	Gelephu Thromde	Senior Forest Ranger (Divisional Forest Office, Sarpang)
45	Labour Office	Rigzing Dorji, Labour Officer and Employment Counsellor
46	Royal Bhutan Police, Gelephu	Superintendent of Police (SSP), Division V
47	Sarpang Judiciary	Sarpang Judicial Representatives

I.4 FGD AND GENERAL CONSULTATION PARTICIPANTS' LIST

SN.	Thromde/Gewog	Name	FGD Group Category and Consultation with Communities
1.	Umling Gewog	Kunzang Choden	Adolescent Girls (15-18 years)
2.	Umling Gewog	Tenzin Yangki	Adolescent Girls (15-18 years)
3.	Umling Gewog	Chencho Wangmo	Adolescent Girls (15-18 years)
4.	Umling Gewog	Anita Monger	Adolescent Girls (15-18 years)
5.	Umling Gewog	Yeshi Tshoki Dema	Adolescent Girls (15-18 years)
6.	Umling Gewog	Sangay Chezom	Adolescent Girls (15-18 years)
7.	Umling Gewog	Tshewang Dorji	Men and Boys (Below and above 18 years)
8.	Umling Gewog	Sangay Nima	Men and Boys (Below and above 18 years)
9.	Umling Gewog	Tshering Tobgay	Men and Boys (Below and above 18 years)
10.	Umling Gewog	Leki Drugyel	Men and Boys (Below and above 18 years)
11.	Umling Gewog	Dechen Lhaden	Men and Boys (Below and above 18 years)
12.	Umling Gewog	Passang Dorji	Men and Boys (Below and above 18 years)
13.	Umling Gewog	Tshering Choki	Women (Above 18)
14.	Umling Gewog	Dorji Wangmo	Women (Above 18)
15.	Umling Gewog	Thukten Wangmo	Women (Above 18)
16.	Umling Gewog	Sangay Dema	Women (Above 18)
17.	Umling Gewog	Sangay Wangmo	Women (Above 18)
18.	Umling Gewog	Sherab Wangmo	Women (Above 18)
19.	Umling Gewog	Tshering Dorji (landowner)	Consultation
20.	Umling Gewog	Tshering Bidha (Shopkeeper)	Consultation
21.	Umling Gewog	Sangay (Under Poverty line)	Consultation
22.	Umling Gewog	Cheyche (Farmer)	Consultation
23.	Umling Gewog	Perna Drakpa (Tenant farmer)	Consultation

SN.	Thromde/Gewog	Name	FGD Group Category and Consultation with Communities
24.	Tareythang Gewog	Sonam Choden	Adolescent Girls (15-18 years)
25.	Tareythang Gewog	Jigme Kinga Wangmo	Adolescent Girls (15-18 years)
26.	Tareythang Gewog	Tshering Rinchen Lhaden	Adolescent Girls (15-18 years)
27.	Tareythang Gewog	Jigme Deki	Adolescent Girls (15-18 years)
28.	Tareythang Gewog	Deepika Neopany	Adolescent Girls (15-18 years)
29.	Tareythang Gewog	Thinley Denkar	Adolescent Girls (15-18 years)
30.	Tareythang Gewog	Pema Zangmo	Adolescent Girls (15-18 years)
31.	Tareythang Gewog	Jigme Wangchuk	Men and Boys (Below and above 18 years)
32.	Tareythang Gewog	Narayan Neopany	Men and Boys (Below and above 18 years)
33.	Tareythang Gewog	Kharka Bdr. Rai	Men and Boys (Below and above 18 years)
34.	Tareythang Gewog	Bir Man Rai	Men and Boys (Below and above 18 years)
35.	Tareythang Gewog	Samdrup Dorji	Men and Boys (Below and above 18 years)
36.	Tareythang Gewog	Tshering Wangdi	Men and Boys (Below and above 18 years)
37.	Tareythang Gewog	Kelzaog Choden	Women (Above 18)
38.	Tareythang Gewog	Choney Dema	Women (Above 18)
39.	Tareythang Gewog	Phurpa Wangzom	Women (Above 18)
40.	Tareythang Gewog	Pema Cheki	Women (Above 18)
41.	Tareythang Gewog	Damanti Guragai	Women (Above 18)
42.	Tareythang Gewog	Ningkar Pemo	Women (Above 18)
43.	Tareythang Gewog	Tshewang Jurmey	Consultation
44.	Tareythang Gewog	Sonam Tashi	Consultation
45.	Tareythang Gewog	Radhika Raini	Consultation
46.	Tareythang Gewog	Ugyen Tshering	Consultation
47.	Tareythang Gewog	Cheki Lhamo	Consultation
48.	Samtenling Gewog	Anjana Rai	Adolescent Girls (15-18 years)
49.	Samtenling Gewog	Kalpana Rai	Adolescent Girls (15-18 years)
50.	Samtenling Gewog	Beena Rai	Adolescent Girls (15-18 years)
51.	Samtenling Gewog	Durga Dungana	Adolescent Girls (15-18 years)
52.	Samtenling Gewog	Manjo Bastola	Adolescent Girls (15-18 years)
53.	Samtenling Gewog	Benita Suberdi	Adolescent Girls (15-18 years)
54.	Samtenling Gewog	Suk Lal Tamang	Men and Boys (Below and above 18 years)
55.	Samtenling Gewog	Suk Bal Tamang	Men and Boys (Below and above 18 years)
56.	Samtenling Gewog	Kasinath Mongar	Men and Boys (Below and above 18 years)
57.	Samtenling Gewog	Narayan Katiwara	Men and Boys (Below and above 18 years)

SN.	Thromde/Gewog	Name	FGD Group Category and Consultation with Communities
58.	Samtenling Gewog	Sonam Dorji Tamang	Men and Boys (Below and above 18 years)
59.	Samtenling Gewog	Singh Bal Tamang	Men and Boys (Below and above 18 years)
60.	Samtenling Gewog	Ramesh Monger	Men and Boys (Below and above 18 years)
61.	Samtenling Gewog	Pema Wangmo	Women (Above 18)
62.	Samtenling Gewog	Laclin Maya Mongar	Women (Above 18)
63.	Samtenling Gewog	Suk Maya Tamang	Women (Above 18)
64.	Samtenling Gewog	Meenuka Mongar	Women (Above 18)
65.	Gelephu Thromde	Tanusha Wakhley	Adolescent Girls (15-18 years)
66.	Gelephu Thromde	Tansin Seldon	Adolescent Girls (15-18 years)
67.	Gelephu Thromde	Reya Rana	Adolescent Girls (15-18 years)
68.	Gelephu Thromde	Sonu Barman	Adolescent Girls (15-18 years)
69.	Gelephu Thromde	Tshering Yangchen Dadhuel	Adolescent Girls (15-18 years)
70.	Gelephu Thromde	Yojna Acharya	Adolescent Girls (15-18 years)
71.	Gelephu Thromde	Tandin wangmo	Adolescent Girls (15-18 years)
72.	Gelephu Thromde	Wangda	Men and Boys (Below and above 18 years)
73.	Gelephu Thromde	Ganga Ram Galley	Men and Boys (Below and above 18 years)
74.	Gelephu Thromde	Sonam Tshering	Men and Boys (Below and above 18 years)
75.	Gelephu Thromde	Sumit Chhetri	Men and Boys (Below and above 18 years)
76.	Gelephu Thromde	Sonam Rangdol	Men and Boys (Below and above 18 years)
77.	Gelephu Thromde	Ugyen Nima	Men and Boys (Below and above 18 years)
78.	Gelephu Thromde	Sonam Tenzin Chopel	Men and Boys (Below and above 18 years)
79.	Gelephu Thromde	Tashi Wangchuk	Men and Boys (Below and above 18 years)
80.	Gelephu Thromde	Yeshi Dorji	Men and Boys (Below and above 18 years)
81.	Gelephu Thromde	Thinley Penjore	Men and Boys (Below and above 18 years)
82.	Gelephu Thromde	Cheki	Women (Above 18)
83.	Gelephu Thromde	Nidup Sedon	Women (Above 18)
84.	Gelephu Thromde	Sushma Lama	Women (Above 18)
85.	Gelephu Thromde	Eden Lhamo	Women (Above 18)
86.	Gelephu Thromde	Tshering Choden	Women (Above 18)
87.	Gelephu Thromde	Sharan Lameychamey	Women (Above 18)
88.	Gelephu Thromde	Sita Timsina	Women (Above 18)
89.	Gelephu Thromde	Wangchuk Lhamu	Women (Above 18)
90.	Gelephu Thromde	Lobzang Tshering (High Income)	Consultation

SN.	Thromde/Gewog	Name	FGD Group Category and Consultation with Communities
91.	Gelephu Thromde	Tulsi Ram Oli (Landowner)	Consultation
92.	Gelephu Thromde	Kamal Pradhan (Business)	Consultation
93.	Gelephu Thromde	Tashi Tobgay (Employee of Gelephu Digital Network (GDN))	Consultation
94.	Gelephu Thromde	Sonam Dorji (Yanjung Sonam Enterprise)	Consultation
95.	Gelegphu Gewog	Leki Zangmo	Adolescent Girls (15-18 years)
96.	Gelegphu Gewog	Kinzang Choki	Adolescent Girls (15-18 years)
97.	Gelegphu Gewog	Sonam Yuden	Adolescent Girls (15-18 years)
98.	Gelegphu Gewog	Choni Choden	Adolescent Girls (15-18 years)
99.	Gelegphu Gewog	Kinley Lhazom	Adolescent Girls (15-18 years)
100.	Gelegphu Gewog	Sonam Zangmo	Adolescent Girls (15-18 years)
101.	Gelegphu Gewog	Dechen Rinchen Pem	Adolescent Girls (15-18 years)
102.	Gelegphu Gewog	Sonam Tobgay	Men and Boys (Below and above 18 years)
103.	Gelegphu Gewog	Yadhu Katel	Men and Boys (Below and above 18 years)
104.	Gelegphu Gewog	Ram Chadra Gurung	Men and Boys (Below and above 18 years)
105.	Gelegphu Gewog	Moni Ram Monger	Men and Boys (Below and above 18 years)
106.	Gelegphu Gewog	Ugyen Namgyel	Men and Boys (Below and above 18 years)
107.	Gelegphu Gewog	Prakash Acharja	Men and Boys (Below and above 18 years)
108.	Gelegphu Gewog	Yesheyla	Men and Boys (Below and above 18 years)
109.	Gelegphu Gewog	Karma Dema	Women (Above 18)
110.	Gelegphu Gewog	Pema Dema	Women (Above 18)
111.	Gelegphu Gewog	Jhoti Katel	Women (Above 18)
112.	Gelegphu Gewog	Radhika Khatiwara	Women (Above 18)
113.	Gelegphu Gewog	Chandra Maya Phuyel	Women (Above 18)
114.	Gelegphu Gewog	Kezang Dema	Women (Above 18)
115.	Gelegphu Gewog	Pema Jamphel Tshomo	Women (Above 18)
116.	Gelegphu Gewog	Ugyen Wangchuk (Landowner)	Consultation
117.	Gelegphu Gewog	Deki (Shopkeeper)	Consultation
118.	Gelegphu Gewog	Tshering Dendup (Person with disabilities)	Consultation
119.	Gelegphu Gewog	Tsheten Lhendup (Farmer)	Consultation

SN.	Thromde/Gewog	Name	FGD Group Category and Consultation with Communities
120.	Gelegphu Gewog	Lok Bdr Rai (Tenant farmer)	Consultation
121.	Chhuzanggang Gewog	Pema Choki	Adolescent Girls (15-18 years)
122.	Chhuzanggang Gewog	Kalpana Rai	Adolescent Girls (15-18 years)
123.	Chhuzanggang Gewog	Sangay Zangmo	Adolescent Girls (15-18 years)
124.	Chhuzanggang Gewog	Pema Choden	Adolescent Girls (15-18 years)
125.	Chhuzanggang Gewog	Yamtshen Choden	Adolescent Girls (15-18 years)
126.	Chhuzanggang Gewog	Sonam Choki	Adolescent Girls (15-18 years)
127.	Chhuzanggang Gewog	Sonam Wangchuk	Men and Boys (Below and above 18 years)
128.	Chhuzanggang Gewog	Jigme	Men and Boys (Below and above 18 years)
129.	Chhuzanggang Gewog	Rinzin Dorji	Men and Boys (Below and above 18 years)
130.	Chhuzanggang Gewog	Karma Tenzin	Men and Boys (Below and above 18 years)
131.	Chhuzanggang Gewog	Dorji Namgay	Men and Boys (Below and above 18 years)
132.	Chhuzanggang Gewog	Tshering Lethro	Men and Boys (Below and above 18 years)
133.	Chhuzanggang Gewog	Sangita Rai	Women (Above 18)
134.	Chhuzanggang Gewog	Ash Maya Rai	Women (Above 18)
135.	Chhuzanggang Gewog	Zangmo	Women (Above 18)
136.	Chhuzanggang Gewog	Sadi Gyalmo	Women (Above 18)
137.	Chhuzanggang Gewog	Sangay Dema	Women (Above 18)
138.	Chhuzanggang Gewog	Karma Dema	Women (Above 18)
139.	Chhuzanggang Gewog	Karchung (Landowner)	Consultation
140.	Chhuzanggang Gewog	Dema (Shopkeeper)	Consultation
141.	Chhuzanggang Gewog	Lhazom (Person with disability)	Consultation

SN.	Thromde/Gewog	Name	FGD Group Category and Consultation with Communities
142.	Chhuzanggang Gewog	Dechen (Farmer)	Consultation
143.	Chhuzanggang Gewog	Mon Maya Rai (Tenant Farmer)	Consultation

I.5 RELIGIOUS STRUCTURES IN THE IMPACT AREA

S. No.	Gewog / Thromde	Dratsang and Lakhang, Mandir, Chorten, Dungkhor/Chukhor	Ownership / Type	Year of Establishment
Dratsang and Lakhang (Buddhist)				
1.	Gelephu Thromde	Namgyal Choeling Lhakhang	Community	2000
2.		Yoesel Thekchogchoeling, Sarpang Rabdey	Government	
3.		Neykhang	Government	
4.		Tharpaling Guru Lhakhang	Government	
5.		Nimalung Dratshang	Government	
6.		Thechog Kharo Yangtse Threma Lhakhang	Private	
7.		Gelephu Thrimsing Lhakhang	Government	
8.	Samtenling Gewog	Dechenpelri Lhakhang	Community	2009
9.		Phulahari Neykhang	Government	2011
10.	Umling Gewog	Umling Lhakhang	Government	1998
11.		Gadhen Lakhang	Private	NA
12.		Threma Lhakhang	Community	NA
13.	Chhuzanggang Gewog	Namgyal Choeling Lhakhang	Community	2000
14.		Sherabchoeling Anim Dratshang	Government	2005
15.	Serzhong Gewog	Donga Kunzangchoeling Dratshang	Latrul	1977
16.		Shedrupchoeling Anim Dratshang	Latrul	1995
17.		Pema Lhuendrupling Chhoerkhorling Lobdra	Government	1967
18.		Ugyen Lhuendrupling Lhakhang	Private	1991
19.	Tareythang Gewog	Kuengachhoeling Lhakhang	Community	2013
Mandir (Hindu)				
20.	Gelephu Thromde	Hindu Mandir	Community	2011

S. No.	Gewog / Thromde	Dratsang and Lakhang, Mandir, Chorten, Dungkhor/Chukhor	Ownership / Type	Year of Establishment
21.		Radha Krishna Mandir	Community	1970
22.		Yogeshwar Mahadev Shivalaya Mandir	Government	2017
23.	Samtenling Gewog	Shiva Mandir	Community	1966
24.	Chhuzanggang Gewog	Shiva Mandir	Community	2014
25.		Shiva Mandir	Private	2011
Chorten (Buddhist)				
26.	Gelephu Thromde	Pelrithang Khamaed	Yangduel	2008
27.		Pelrithang Khamaed	Jangchub Chorten	2002
28.		Pemathang	Jangchub Chorten	2013
29.		Pelrithang Khamaed	Namgay Khangzang	2011
30.		Pelrithang Khamaed	Jangchub Chorten	2021
31.		Pelrithang Khamaed	Jangchub Chorten	2021
32.		Pelrithang Khatoed	Jangchub Chorten	2014
33.	Umling Gewog	Dungmin	Jangchub Chorten	2003
34.		Rejook/Near Gewog Office	Jangchub Chorten	2019
35.		Thongjazor	Jangchub Chorten	2020
36.		Duthroe	Jangchub Chorten	2018
37.	Tareythang Gewog	Yoesergang	Jangchub Chorten	2014
38.	Serzhong	Serzhong/Tsachu Pokto	Jangchub Chorten	1994
39.		Tsachu	Jangchub Chorten	1994
40.		Serzhong (above cremation ground)	Jangchub Chorten	1976
41.		Norbuling (NCS)	Droedul Chorten	2020
42.		Serzhong Dratshang	Chorten Namdag Gay	2004
43.		Norbuling	Jangchub Chorten	2017
44.		Tashipu	Jangchub Chorten	2018
45.		Serzhong Chiwog	Namkhazang Chorten	2014
46.	Chhuzanggang Gewog	Pangzur/Sansari	Namgyal Chorten	2018
47.		Shawapong	Jangchub Chorten	2019
48.		Shawapong	Namgyal Chorten	2019
49.		Yueling	Jangchub Chorten	2014
50.		Yueling	Jangchub Chorten	2016

S. No.	Gewog / Thromde	Dratsang and Lakhang, Mandir, Chorten, Dungkhor/Chukhor	Ownership / Type	Year of Establishment
51.		Pangzur	Jangchub Chorten	2013
52.	Samtenling Gewog	Samthenthang	Drodelphendyling	2008
Dungkhor/Chukhor				
53.	Chhuzanggang Gewog	Yueling	Dungkhor	2016
54.		Yueling	Dungkhor	2020
55.		Thonjabi-Yueling	Dungkhor	2022
56.		Chaskar	Dungkhor	2011
57.		Chaskar	Dungkhor	2015
58.		Barthang	Dungkhor	2016
59.		Pangzur	Dungkhor	2016
60.	Gelephu Thromde	Pelrithang Khatoed (RBA)	Dungkhor	2017
61.		Pelrithang Khamaed (PHSS)	Dungkhor	2019
62.		Pelrithang Khatoed	Dungkhor	2010
63.	Serzhong Gewog	Pemaling	Dungkhor	2016
64.		Pemaling/Pangkhar	Dungkhor	2022
65.		Serzhong	Dungkhor	2006
66.		Norbuling	Dungkhor	2013
67.		Norbuling	Dungkhor	2007
68.		Barshong	Dungkhor	2016
69.	Tareythang Gewog	Tareythang Primary School	Dungkhor	2019
70.	Samtenling Gewog	Samtenling	Chhukhor	2013
71.		Khempagang	Chhukhor	2012
72.		Dechenpelri	Dungkhor	2016
73.		Dechenpelri	Dungkhor	2016
74.		Dechenpelri	Dungkhor	2016
75.		Dechenpelri	Dungkhor	2016
76.		Dechenpelri	Dungkhor	2016
77.		Dechenpelri	Dungkhor	2016
78.		Dechenpelri	Dungkhor	2016
79.		Dechenpelri	Dungkhor	2016
80.		Dechenpelri	Dungkhor	2016
81.	Dechenpelri	Dungkhor	2016	

S. No.	Gewog Thromde	/	Dratsang and Lakhang, Mandir, Dungkhor/Chukhor	Ownership / Type	Year of Establishment
82.			Dechenpelri	Dungkhor	2016

Source: DoST, 2024

Note: Information as of 18 October 2022

I.6 CULTURAL HERITAGE BASELINE GAZETTEER

Unique Identifier	Type	Name	Sensitivity	Northing	Easting
BT_CH_001	Temple	Gelephu dratshang	Low	26°52'14.57"N	90°29'9.87"E
BT_CH_002	Temple	GE_Buddha Statue	Low	26°52'14.37"N	90°29'9.88"E
BT_CH_003	Temple	Prayer wheel	Low	26°52'13.77"N	90°29'9.92"E
BT_CH_004	Temple	GE_Hindu Mandir	Low	26°51'59.97"N	90°29'7.39"E
BT_CH_005	Temple	Shiva Mandhir	Low	26°52'0.77"N	90°29'7.54"E
BT_CH_006	Temple	Prayer wheel	Low	26°52'4.14"N	90°29'14.16"E
BT_CH_007	Temple	GE_Gelephu Thrimzung Lhakhang	Low	26°52'11.79"N	90°29'16.25"E
BT_CH_008	Temple	Prayer wheel	Low	26°52'3.15"N	90°29'14.97"E
BT_CH_009	Temple	Tharpaling Dratshang	Low	26°52'9.60"N	90°29'18.75"E
BT_CH_010	Temple	GE_Tharpaling Guru Lhakhang	Low	26°52'9.06"N	90°29'18.96"E
BT_CH_011	Community forest	Chhuzanggang Nimaling Block	Medium	26°51'13.34"N	90°31'12.28"E
BT_CH_012	Community forest	Gaden Phunsumthang	Medium	26°50'53.74"N	90°31'28.49"E
BT_CH_013	Community forest	Gaden Community Forest	Medium	26°50'16.50"N	90°31'26.93"E
BT_CH_014	Community forest	Gaden Drupchugapa	Medium	26°50'18.08"N	90°31'46.64"E
BT_CH_015	Community forest	Lingar Gyapa Block	Medium	26°50'32.14"N	90°31'59.67"E
BT_CH_016	Temple	Gaden	Low	26°50'5.76"N	90°32'6.41"E
BT_CH_017	Temple	UM_Gadhen Lhakhang	Low	26°50'5.44"N	90°32'6.85"E
BT_CH_018	Community forest	Tshome Community Forest	Medium	26°49'30.83"N	90°32'46.64"E
BT_CH_019	Community forest	Tashithang Community Forest	Medium	26°49'28.16"N	90°32'45.33"E
BT_CH_020	Community forest	Gayser Trashicholing	Medium	26°49'26.51"N	90°32'58.23"E

Unique Identifier	Type	Name	Sensitivity	Northing	Easting
BT_CH_021	Community forest	Thrungthu Community Forest	Medium	26°49'15.58"N	90°33'29.86"E
BT_CH_022	Temple	JAngchub Choeten	Low	26°49'4.11"N	90°33'9.81"E
BT_CH_023	Temple	TA_Kuengachhoeling Lhakhang	Low	26°49'7.04"N	90°33'30.40"E
BT_CH_024	Temple	Kuengachhoeling Lhakhang	Low	26°49'6.67"N	90°33'30.02"E
BT_CH_025	Temple	Kuenga Chholing	Low	26°49'7.10"N	90°33'30.55"E
BT_CH_026	Temple	Manual Prayerwheel	Low	26°48'57.04"N	26°48'57.04"N