

Bhutan for Life
Environmental and Social Management Plan for
Biological Corridor 5 Pemagatshel (2024)

1. Introduction

(A) Project Background

The Bhutan for Life (BFL) project aims to ensure a robust network of protected areas and biological corridors that secures human well-being, biodiversity conservation and increases climate resilience in Bhutan. The project provides a 14-year financial bridge that allows for immediate improvement in the management of Bhutan's protected areas for climate resilience, and the prompt delivery of mitigation, adaptation, and biodiversity gains, while the country gradually ratchets up its own financing resources.

BFL seeks to achieve the following objectives:

- Help Bhutan to remain carbon neutral by increasing forest and vegetative cover within the Protected Area System (PAS).
- Enhance the socio-economic well-being of communities in and in the vicinity of the PAS through climate-informed natural resources management.
- Maintain stable, thriving, and diverse populations of key species contributing toward national and global biodiversity goals.
- Strengthen organizational, institutional, and financial capacity for effective management of PAS
- BFL includes five components that reflect these goals, divided into 16 milestones (or outputs) and over 80 detailed activities.

(B) Scope of ESMP

The preparation of this Environmental and Social Management Plan (ESMP) was required to manage the environmental and social impacts. Specific mitigation actions will be required to implement the project in accordance with the requirements of WWF's Social Safeguards Integrated Policies and Procedures (SIPP), the project's Environmental and Social Management Framework (ESMF), and applicable national legislation and regulations.

The ESMP provides an overview of the environmental and social baseline conditions on the routes of the proposed second segment of the project summarizes the potential impacts associated with the proposed activities and sets out the management measures required to mitigate any potential negative impacts.

This ESMP will be implemented by BFL focal person in each park authority (PA) and biological corridor (BC), and by the contractor to be commissioned by each PA/BC for the project.

(C) Purpose of ESMP

This Site-Specific ESMP is a project-specific source document detailing the environmental and social protection requirements to mitigate and minimize the adverse impacts. The ESMP's primary purpose is to ensure that the environmental requirements and social commitments associated with the project are carried forward into implementation and operational phases of the project and are effectively managed. The specific objectives of this ESMP are as here under:

- Minimizing any adverse environmental, social and health impacts resulting from the project activities;
- Conducting all project activities in accordance with the relevant RGoB Laws and WWF's safeguard operational policies and guidelines;
- Preventing environmental degradation as a result of either individual subprojects or their cumulative effects;
- Enhancing the positive environmental and social outcomes of project activities;
- Ensuring that the proposed mitigation measures are feasible and cost-efficient;
- Providing an Action Plan to ensure that the project impact mitigation measures are properly implemented and monitored;
- Ensuring that all stakeholders are engaged in the project activities' preparation and implementation, and their concerns are fully addressed.

(D) Applicable law, policies, and regulation

This ESMP is developed by following the guidelines as set forth in the BFL's ESMF.

Applicable RGoB laws and policies include the Constitution of the Kingdom of Bhutan, 2008; legislation on land and moveable property (Land Act of Bhutan 2007; Land Rules, 2007; The Moveable Cultural Property act of Bhutan, 2005); legislation and regulations on forests and protected areas (National Environment Protection Act, 2007; Forest and Nature Conservation Act of Bhutan, 1995; Forest and Nature Conservation Rules and Regulations of Bhutan, 2017; National Forest Policy, 2011); legislation on water and waste prevention (Water Act of Bhutan, 2011; Waste Prevention and Management Act, 2009); legislative requirements on environmental assessment (Environmental Assessment Act, 2000 and Regulations on the Environmental Clearance of Projects, 2001); and other relevant laws (The Local Government Act of Bhutan, 2009; Livestock Act of Bhutan, 2001; The Biodiversity Act of Bhutan, 2003; The Pesticides Act of Bhutan, 2000; The Penal Code of Bhutan, 2004; National Access and Benefit Sharing (ABS) Policy (Draft), 2014).

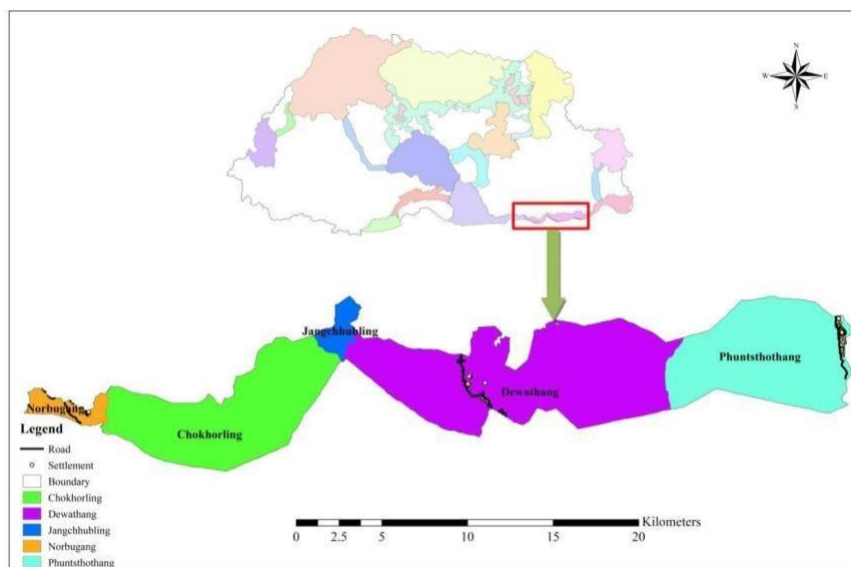
WWF's safeguards policies that are relevant to this project are as follows: Policy on Environment and Social Risk Management; Policy on Protection of Natural Habitats; Policy on Involuntary Resettlement; Policy on Indigenous Peoples; Standard on Pest Management; Policy on Accountability and Grievance System; Standard on Physical Cultural Resources; as well as general standards on occupational and community health and safety and on energy efficiency.

In general, RGoB's laws, policies, and guidelines are in line with the WWF's environmental and social safeguards requirements. However, there are a few differences between the two systems. With regard to environmental impact there are no direct contradiction between the RGoB laws and regulation and the WWF SIPP, but the requirement of the latter are more extensive. All the project activities should fully comply both with the RGoB Regulations on the Environmental Clearance of Projects, and with the procedures and mitigation measures prescribed in this ESMF. In case that the WWF's SIPP requirements are more extensive, strict, or detailed than the RGoB legislation and policies, the former will apply to all project activities with regard to social impacts, the primary discrepancies between the RGoB and regulation of the WWFs SIPP refer the status of non-title holder and informal land use and the commitment to participatory decision- making process. First, according to the WWF's SIPP, all users of land and natural resources (including people that lack any formal legal ownership title or usage rights) are eligible to some form of assistance or compensation if the project adversely affects their livelihoods. The RGoB laws only recognize the eligibility of land owners or formal users to receive compensation in such cases. Second, the WWF's SIPP require extensive community consultations as part of the development of various safeguards documents and during project activities. RGoB legislation does not include similar requirements. For the purposes of the BFL project, the provisions of the WWF's SIPP shall prevail over the RGoB legislation in all cases of discrepancy.

The occupational health and safety of workers in construction will be in compliance with Labour and Employment Act-2007, Regulation on Occupational Health, Safety and Welfare, 2012 and any other national documents. The list of the OHS requirements shall be attached along the Bill of Quantities (BoQ) along with an appropriate item description to allow the bidder to quote reasonably against the item, and to enable strict compliance and ease the monitoring during the project implementation time

2. Environmental and Socio-Economic Conditions:

The Biological Corridor 5 is located in the South-Eastern part of the country, and it lies within the administrative jurisdiction of Pema Gatshel and Samdrup Jongkhar Dzongkhags as shown in Figure 1. **Figure 1. Location of BC5**



It covers an area of 203.58 km² and approximately 48 km in length and the corridor connects the Royal Manas National Park in the west and Jomotshangkha Wildlife Sanctuary in the east. It has an altitudinal variation from 127 to 1183 meters above mean sea level (masl). The main vegetation composition is tropical broad-leaved forest. It covers Norbugang and Choekhorling Gewogs under Pema Gatshel District; and Dewathang, Orong, Phuntshothang Gewogs under Samdrup Jongkhar District.

The general topography for this corridor is moderate to steep slope ranging from zero degrees to more than 35 degrees in which the slope classification was based on the standard adopted for developing Local Forest Management Plans (LFMP) in Bhutan. The slope was classified at an interval of 0 – 25 degrees, 25-35 degrees and more than 35 degrees corresponding to gentle slope, moderately steep slope and steep slope respectively.

Gentle sloped areas were found distributed mostly towards the southern belts and areas adjoining the Indian international border and steep-sloped areas mostly occur along the ridges and at many parts were found inaccessible to people. There are also many wetlands and seasonal ponds making it a very potential habitat for wildlife populations and forming small catchment areas for the downstream communities. The biodiversity survey for BC 05 has recorded around 24 species of mammals, 139 species of avifauna, 226 species of plant diversity under the entire BC 05 corridor (BC 05 management plan). Further, Pema Gatshel Division Office has recorded around 251 species of birds, 29 species of fish, 18 species of bamboo, 80 species of butterflies and 117 species of orchid under Pema Gatshel Dzongkhag.

This biological corridor has over 95% of the land covered under broad-leaved forests comprising different layers of shrubs (3.07%) and meadows (0.03%). The disturbances due to natural landslides are minimal and only 0.28% of the total corridor area is affected by landslides. The small portion of the land also falls under agriculture (0.81%) and built-up areas (0.02%). The rivers, streams and water bodies contribute to about 0.63% of the total corridor area.

The main source of income for the communities in the area is agricultural farming followed by livestock farming and the number of households in the area are 101.

3. Planned activities in Year 2025

Activity 1: Construction of Breast wall near Division Office approach road

Budget: Nu. 750000/-

Timeline: October 2024 to December 2024

Location: Gamazore, Khar Gewog under Pema Gatshel Dzongkhag

The proposed area falls above the approach road connecting to Divisional Forest Office, Pemagatshel and the area has been experiencing continuous soil erosion over the last few years after construction. This area being located in steep terrain and exposed to repeated soil erosion, the site became unstable and found more susceptible to landslide during monsoon season.

In the case where the retaining wall is not constructed, the approach road is likely to be washed away in the coming year. Hence, this will ultimately hamper the office and local communities in availing timely public service delivery. Therefore, as a part of this activity a wall of 18 m of Length

and 3 m in Height will be constructed using sand, boulders, cement, and aggregates as per the engineering drawing and estimate. The activity will be implemented from October to December 2024 engaging the local workers based on the approved work order of the Dzongkhag or the Gewog tender committee. The workers will be involved from a nearby village where they will come for work during daytime and return to their home in the evening. They will be using the water and toilet facilities in Division Forest Office since the proposed area is just 30-50 meters away from Division Office. There are no households located in the vicinity of the project site, however about 20 households of Yajur village are located at the other side of the proposed area where they don't have a direct link in the proposed area. As the site is already exposed due to the approach road construction, the proposed site is almost barren, hence there is no requirement for felling additional trees and clearing of bushes. There are no sightings, evidence and documented records of iconic wildlife species depending directly on project site as of now.



Figure 1- The Google image of the proposed breast wall construction site



Figure 2- The current site condition of the proposed wall construction site

Potential social and environmental impacts of the activity are:

- Noise: From the workers and construction activities
- Waste: Waste generated from workers and construction activities.
- Worker's health and Safety: The involvement of workers in masonry works is likely to create impact on their health due to the dusty working environment and may cause minor injury as the workers will be engaged in collection and breaking of boulders during construction of the wall.

Activity 2 Construction of Range Office at Nganglam

Budget: Nu. 60,00000/-

Timeline: October 2024 to December 2025

Location: Nganglam, Norbugang Gewog, Pemagatshel Dzongkhag

The proposed Range Office construction site falls within the compound of Nganglam Range Office. The area is under the registered Thram of the Division Office, Pemagatshel (Thram No-321). At present there is one Storey structure (2 rooms) which is serving as the Range Office. The office caters public services to three Gewog; Chokhorling, Norbugang and Decheling and to the residence of Nganglam Thromdey. There are 14 staff catering public services in a small and compact two-room structure. Since Nganglam Range is bordering with India and parted from the Division Head Office with considerable travel distance, frequent meetings and training sessions are required to be conducted separately in which the current structure is found too compact and congested in accommodating the participants during such programs.

Therefore, a two-storied Range Office with four rooms in ground floor and a meeting hall with two rooms in upper storey will be constructed as per the approved drawing, design and estimate. As a part of the construction activity, electrification including installation of streetlight, internet connectivity and construction of compound fencing will be done. The work will be implemented from October 2024 to December 2025. The proposed site is barren and falls in gentle slope, however 3 permanent structures (1 Office and 2 staff quarters) and 2 temporary structures (staff quarters) exist within the Range compound. There are also about 3 to 4 private buildings adjacent to the Range Office compound. For the execution of construction work, mostly the local labors will be used with few skilled foreign laborers from India. The local laborers will come for the work during daytime and return back home in the evening. For a few foreign laborers of about 3-5 heads, they will shelter in the Range compound and use the water and toilet facilities of the Range Office.

There will be no major environmental or social issues, as the communities are not depending on the proposed site for any purpose. However, during the course of construction, there will be an increase in solid waste dumping. The expected solid waste includes residual of construction wastes such as bricks, iron bars, blocks of unwanted set cements and other plastics and food wastes from the workers. For this, a timely and proper disposal of wastes will be done in close coordination with the contractor and the Dungkhag municipal authority.

It is also likely that there will be noise production from the operation of plants and use of construction equipment, particularly mixer machine, JCB back-hoe and excavators. However, the safety gears like ear plugs will be provided to the workers and precondition will be set in contract documents that no work shall be done in the odd hours mainly in early morning and late night. Therefore, it is expected to have minimal impact on the workers and staff on duty.



Figure 3- Google image of proposed Range Office construction site at Nganglam



Figure 4- Present structure of Nganglam Range Office and the site status

The Environmental & Social Impacts:

The negative environmental impacts from the project are anticipated to be minimal. These are impacts, which are likely to be site-specific and could potentially include:

- ✓ Construction-related impacts arising from excavation, waste and material management at site. No vegetation will be removed;
- ✓ Noise disturbance: Possible noise disturbance as a result of outdoor equipment usage and transportation vehicles driving around the construction site
- ✓ Dust/air pollution is likely as a result of construction works and possible emissions from transportation vehicles.
- ✓ Social Risks/Impacts: Although most of the measures have been taken into account prior to construction, some of the measures have to be taken into consideration as the project is just at the beginning phase. Some of the social risks associated with the project include:
 - ✓ Waste: generation of waste as a result of construction activities
 - ✓ Workers' health and safety

However, given the scale of the project, these risks are expected to be minimal, site specific and those for which mitigation measures can easily be developed through standard and applicable regulations. These impacts are again site-specific, reversible and can be minimized/ mitigated by developing appropriate measures.

4. Mitigation Measures for Environmental and Social Impacts

Potential impact	Impact scale	Proposed mitigation measures	Responsible Party	Costs (million)
<i>Activity 1: Construction of Breast wall near Division Office approach road</i>				
Noise disturbance: Possible noise disturbance because of outdoor equipment usage, transportation and vehicles driving around the construction site	Short term minor	<ul style="list-style-type: none"> ● Pre-construction: The requirements to limit noise pollution should be included in the bidding documents, as a precondition. 	CFO, Adm & BFL focal	
		<ul style="list-style-type: none"> ● During-construction: The transportation of construction materials should not be permitted during office hours (9 AM to 5 PM) except in weekends and government holidays. 	Adm & BFL focal	
		<ul style="list-style-type: none"> ● Earplugs and protecting devices shall be provided to workers on site if necessary. 		
Waste: generation of waste as a result of construction activities	Short term minor	<ul style="list-style-type: none"> ● Pre-construction: requirements for appropriate waste management should be included in the bidding documents, as a precondition for the contractor's selection. 	CFO, Adm & BFL focal	
		<ul style="list-style-type: none"> ● Proper containers/waste bins should be provided at the project site; 	BFL focal & ADM	Nu 10000
		<ul style="list-style-type: none"> ● Dumping of waste on the sides of the road, on private land, or in other non-designated places should be prohibited; 		
		<ul style="list-style-type: none"> ● The options for reuse/recycling of the generated waste should be taking into consideration (e.g. excavated soil, etc.). 		
Workers' health and safety		<ul style="list-style-type: none"> ● Comply with the workers' health and safety guidelines ● Ensure regular health screening for the workers pre and during construction activities ● Ensure safety gears and first Aid-Kits ● Ensure that no underage workers, or children are engaged ● Ensure decent work conditions, including an appropriate salary, working hours, accommodation and food for workers shall be provided to all workers 		

		<ul style="list-style-type: none"> • Ensure that workers are employed on the principle of equal opportunity and fair treatment, and there is no discrimination with respect to any aspects of the employment relationship, such as recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices. • Implement BFL grievance mechanism for workers to raise workplace concerns 		
Activity 2: Construction of Range office at Nganglam				
Community consultation	Short term Major	<ul style="list-style-type: none"> • Consultation with the relevant stakeholders before implementation of the work 	BFL focal	20000 (Nu) for consultation
Noise disturbance: Possible noise disturbance as a result of outdoor equipment usage and transportation vehicles driving around the construction site	Short term Minor	<p>Nearest community is located 30 meters from the construction site, thus noise disturbance is likely to be minimal. To minimize the noise disturbance for the workers, the following mitigation measures need to be undertaken</p> <p>During construction:</p> <ul style="list-style-type: none"> • The equipment should be fitted with appropriate noise devices that will reduce sound level; • The construction work should not be permitted during the nights, the operations on site shall be restricted to the hours 7am—7pm; • Earplugs and protecting devices shall be provided to workers on site. 	BFL focal and contractor.	To be incorporated in the bidding document.
Air quality: dust as a result of construction works and possible emissions	Short term Minor	<p>Pre-construction: requirements to limit emissions should be included in the bidding documents, as a precondition for the contractor's selection</p> <p>During construction:</p> <ul style="list-style-type: none"> • Construction site, transportation routes and materials handling sites should be water-sprayed on dry and windy days; 		To be included in the bidding doc

<p>from Transportation vehicles</p>		<ul style="list-style-type: none"> • Construction materials should be stored in appropriate and covered places to minimize dust; • Vehicle loads likely to emit dust need to be covered; • Workers should wear protective masks if dust appears; • Vehicle speed should be restricted within the construction site; • Regular maintenance of the vehicles and construction machinery should be performed to reduce any leakages of motor oils, emissions and dispersion of pollution; 		
<p>Waste: generation of waste as a result of construction activities</p>	<p>Short term Minor</p>	<p><i>Pre-construction:</i> requirements for appropriate waste management should be included in the bidding documents, as a precondition for the contractor's selection</p> <p><i>During construction:</i></p> <ul style="list-style-type: none"> • Ensure that camps are located away from existing stream, river, or water sources, and that no discharge from camps is made into nearby water bodies; • Proper containers/waste bins should be provided at the project site; • Dumping of waste on the sides of the road, on private land, or in other non- designated places should be prohibited; • Collection, transportation and final disposal of all waste should be undertaken regularly [weekly] • Possible hazardous waste (motor oils, vehicle fuels, etc.) should be collected separately and authorized collector and transporter should be sub-contracted to transport and finally dispose; • All construction materials should be covered during the transportation to avoid waste dispersion; The options for reuse/recycling of the generated waste streams should be taken into consideration (e.g. excavated soil, etc.). • Burning of construction waste should be prohibited. <p><i>After construction:</i></p> <p>All waste shall be removed from the project</p>	<p>BFL focal and contractor</p>	<p>Nu 10000 (USD-121) Procurement and installation of waste bins</p>

<p><i>Worker's health and safety.</i> Refer to the full OHS guidelines attached wherever relevant)</p>	<p>Short term Minor</p>	<ul style="list-style-type: none"> • Comply with the workers' health and safety guidelines • Ensure regular health screening for the workers pre and during construction activities • Ensure that no underage workers, or children are engaged • Ensure decent work conditions, including an appropriate salary, working hours, accommodation and food for workers shall be provided to all workers • Ensure that workers are employed on the principle of equal opportunity and fair treatment, and there is no discrimination with respect to any aspects of the employment relationship, such as recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, and promotion, termination of employment or retirement, and disciplinary practices. • Implement a grievance mechanism for workers • Ensure that workers are provided with safety gears like face mask, hand gloves, safety boots, reflectors. 	<p>BFL focal and Contractor</p>	<p>From the activity cost</p>
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5. ESMP Implementation Arrangements

The implementation of project activities will be carried out by the BFL focal person. The focal person will be responsible for complying with all procedures outlined in this ESMP and for processing any requirements for obtaining clearances, permits, approvals, or consent documents from relevant authorities and stakeholders.

This ESMP should be part of the contract document that the PA will sign with the Contractor(s) for implementation of the planned activities in BC 5 in 2025. The Contractor is obligated to perform all proposed preventive or mitigation environmental and social measures in this plan and to keep the evidence of any documents related to applying these measures (e.g., letter asking the municipality for disposal of inert waste, records on OHS information session performed for all workers before start of activities, all developed EHS plans, etc.). An OHS information session should be organized by the Contractor for all workers prior to starting the project activities and prior to any specific tasks with high health risks.

The BC 5 Supervising Engineer shall need to monitor the implementation of construction work and mitigation measures as proposed by the Contractor and Contractor's subcontractors through site monitoring and verification, reviewing the records and evidence whether the measures have been applied and adopted. Ask the contractor to apply and adopt those measures immediately in case not done. The non-compliances should be recorded and the report on any non-compliance should be reported to the ESS officer immediately, and the ESS officer will report it to the PCU (M&E Officer).

6. ESMP Monitoring Arrangements

The BFL focal person in Divisional Forest Office, Pema Gatshel will closely monitor the implementation of all planned activities and the required mitigation measures and ensure that they fully comply with this ESMP and with the terms and conditions included in the environment clearances issued by RGoB's national authorities.

Divisional Forest Office, Pema Gatshel is also fully responsible for the compliance of all external contractors and service providers working in the Divisional Forest Office, Pema Gatshel with the safeguard's requirements outlined in the ESMP.

Protocol for monitoring of activities under this ESMP will be carried out as follow;

SI #	Activities	Monitoring team	Timeline		Location	Means of Verification
			Start	Complete		
1	Construction of Breast wall near Division Office approach road	BFL Focal	October, 2024	Dec, 2024	Division Office, Pema Gatshel	Field monitoring report and pictorial evidences
		ESS focal	October, 2024	Dec, 2024		
2	Construction of Range Office at Nganglam	BFL focal	October, 2024	Dec, 2025	Nganglam Range Office, Norbugang gewog,	Field monitoring report and pictorial evidences
		ESS focal	October, 2024	Dec, 2025		

1. Construction of breast wall and range office:

- Monitoring by implementing entities:
 - At least weekly field visits
 - Monthly reports prepared by implementing entities and submitted to ESS officer
- Monitoring by ESS officer:
 - Monitoring of the work once during the implementation and through field report from IAs after completion of the work.
 - Quarterly reports by ESS officer to the PCU (M&E officer)
- Quarterly reports by PCU (M&E officer) to Secretariat
- Bi-annual reports of the Secretariat to WWF US (as part of mid-year and final APRs)

7. Capacity Need and Budget

Activities under this ESMP will be implemented by the BFL focal person, supervising engineer/staff and a contractor who then will employ skilled workers and wage labor as mentioned in the contract agreement.

The budget for each of the activities are as follows:

SI #	Activity	Amount (Nu.)	Budget for ESS mitigation
1	Construction of retaining wall near Division Office approach road	750000/-	10,000/-
2	Construction of Range Office at Nganglam under Norbugang gewog	60,00000/-	30000/-
Total		6,750000/-	40,000/-

8. Consultation and Disclosure Mechanisms

Activity 1. Construction of Breast wall near Division Office approach road

Consultation will be carried out among the staff at division office, ESS focal, Khar gewog administration and Dzongkhag engineer for Breast wall construction and for Range Office construction consultation will be done with Dungkhag Administration and municipality authority. Consultation will be carried out a month before we start this activity. Everything related to the project site and as per the documents of ESMP will be discussed during the consultation. Along with that a soft copy of the ESMP will be disclosed among the participants. This is to inform them regarding the planned project activity (construction), to solicit their opinions and enable them to question proposed mitigation measures. In addition, the GRM will be explained and socialized during the consultation and the GRM brochure will be accessible to all community members. The detailed minutes of the consultation meeting will be attached to this ESMP, along with a full list of participants (disaggregated by gender and age). Disclosures in Websites and social media etc.

Activity 2 Construction of Range Office at Nganglam under Norbugang gewog

Consultation will be carried out with the Dungkhag Administration, Municipal authority, Norbugang gewog administration, BFL focal, Nganglam Range staff and the private residence residing with the premise of the Range compound. The consultation will be carried out a month before we start this activity. Everything related to the project site and as per the documents of ESMP

will be discussed during the consultation. Along with that a soft copy ESMP will be disclosed among the participants. This is to inform them regarding the planned project activity (construction), to solicit their opinions and enable them to question proposed mitigation measures. In addition, the GRM will be explained and socialized during the consultation and the GRM brochure will be accessible to all community members. The detailed minutes of the consultation meeting will be attached to this ESMP, along with a full list of participants (disaggregated by gender and age).

9. Stakeholder Engagement Plan

Activity 3.1 Construction of Breast wall near Division Office approach road

- Date for Consultation: One month prior to implementing project activity
- Agenda: Discussion on project activity and ESMP; socialization of the GRM
- Location: Yajur, Khar, Division Office meeting hall

Activity 3.2 Construction of Range Office at Nganglam under Norbugang gewog

- Date for Consultation: One month prior to implementing of project activity
- Agenda: Discussion on project activity and ESMP; socialization of the GRM
- Location: Dungkhag meeting hall

10. Grievance Redressal Mechanisms

This ESMP and its mitigation measures are required to be disclosed to communities for 30 days prior to the start of implementation of activities.

In addition, the BFL focal point is responsible for making local communities aware of the grievance mechanisms: the BFL-specific grievance mechanism, WWF's Grievance Mechanism, and the GCF Independent Review Mechanism.

BFL-specific Grievance Mechanism

A grievance redressal mechanism (GRM) is in place to address any grievances arising from the implementation of BFL activities, on resources, non-performances of project obligation including safeguards, violation of law and/or corruption, project governance and implementation, fair access and benefit sharing, stakeholder engagement, labor-related issues and incidents, gender related issues and others.

If the stakeholders have any grievances related to the BLF project they can report their grievances via letter, phone call or verbally to nearby gewog or forest offices. The report can also be sent to the BFL PCU office or WWF office. The specific brochure for the GRM is attached in the annexure for any grievance related to implementation of the project activities.

WWF Grievance Mechanism

A grievance can be filed with the Project Complaints Officer (PCO), a WWF staff member fully independent from the Project Team, who is responsible for the WWF Grievance Mechanism and who can be reached at:

Email: SafeguardsComplaint@wwfus.org

Mailing address:

Project Complaints Officer

Safeguards Complaints,

World Wildlife Fund

1250 24th Street NW

Washington, DC 20037

Stakeholders may also submit a complaint online through an independent third-party platform at <https://secure.ethicspoint.com/domain/media/en/gui/59041/index.html>.

GCF Independent Review Mechanism

The Independent Review Mechanism (IRM) provides recourse to those affected or who may be affected by GCF projects. Complainants can find information on filing a complaint and proceed to file a complaint on the GCF IRM website: <https://irm.greenclimate.fund/case-register/file-complaint>.

Annexure- BFL: SUGGESTED OCCUPATIONAL HEALTH AND SAFETY STANDARDS

Employers and supervisors are obliged to implement all reasonable precautions to protect the health and safety of workers. Implementing entities should hire contractors that have the technical capability to manage the occupational health and safety issues of their workers, extending the application of the hazard management activities through formal procurement agreements.

This section provides guidance and examples of reasonable precautions to implement in managing principal risks to occupational health and safety. It is based on the IFC's Environmental, Health, and Safety Guidelines (April 30, 2007)¹ and the Occupational Health and Safety Guidelines of Bhutan's Construction Development Corporation Ltd., which relies on the national Regulation on Occupational Health, Safety and Welfare 2012, Regulation on Working Conditions 2012 and Labour Act 2007, and in compliance to Sl. No. 21 of Regulation on Occupational Health, Safety and Welfare 2012.

General Facility Design and Operation

Integrity of Workplace Structures

Permanent and recurrent places of work should be designed and equipped to protect occupational health and safety:

- Surfaces, structures and installations should be easy to clean and maintain, and not allow for accumulation of hazardous compounds.
- Buildings should be structurally safe, provide appropriate protection against the climate, and have acceptable light and noise conditions.
- Fire resistant, noise-absorbing materials should, to the extent feasible, be used for cladding on ceilings and walls.
- Floors should be level, even, and non-skid.
- Heavy oscillating, rotating or alternating equipment should be located in dedicated buildings or structurally isolated sections.

Severe Weather and Facility Shutdown

- Workplace structures should be designed and constructed to withstand the expected elements for the region and have an area designated for safe refuge (e.g., in case of earthquake).

Workspace and Exit

- The space provided for each worker, and in total, should be adequate for safe execution of all activities, including transport and interim storage of materials and products.

Fire Precautions

The workplace should be designed to prevent the start of fires through the implementation of fire codes applicable to industrial settings. Other essential measures include:

- The workplace shall be provided with adequate means of protection and escape in case of fire.
- The workplace shall be provided with adequate number of relevant fire extinguishers.
- Workers shall wear shoes without iron or steel nails or any other exposed ferrous materials which is likely to cause sparks by friction.
- Smoking, lightening, or carrying of matches, lighters or smoking materials shall be prohibited.
- All other precautions, as are reasonably practicable, shall be taken to prevent initiation of ignition from all other possible sources such as open flames, frictional sparks, overheated surfaces of machinery or plant, chemical or physical, chemical reaction and radiant heat.
- At every workplace adequate provision of water supply for firefighting shall be provided and maintained.
- Equipping facilities with firefighting equipment (e.g., fire extinguishing bottle). The equipment should be maintained in good working order and be readily accessible. It should be adequate for the dimensions and use of the premises, equipment installed, physical and chemical properties of substances present, and the maximum number of people present.
- Manual firefighting equipment shall be easily accessible and simple to use.
- Fire extinguishers and emergency alarm systems that are both audible and visible should be in place.
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Lavatories and Showers

- Adequate lavatory facilities (toilets and washing areas) should be provided for the number of people expected to work in the facility (at least one for every 20 workers). Toilet facilities should also be provided with adequate supplies of hot and cold running water and soap.

Potable Water Supply

- Adequate supplies of potable drinking water should be provided to workers at the work site.

Clean Eating Area

- Where there is potential for exposure to substances poisonous by ingestion, suitable arrangements are to be made for provision of clean eating areas where workers are not exposed to the hazardous or noxious substance

Lighting

- Workplaces should, to the degree feasible, receive natural light and be supplemented with sufficient artificial illumination to promote workers' safety and health, and enable safe equipment operation. Supplemental 'task lighting' may be required where specific visual acuity requirements should be met.
- Emergency lighting of adequate intensity should be installed upon failure of the principal artificial light source to ensure safe shut-down, evacuation, etc.

Safe Access

- Passageways for pedestrians and vehicles within and outside buildings should be segregated and provide for easy, safe, and appropriate access.
- Equipment and installations requiring servicing, inspection, and/or cleaning should have unobstructed, unrestricted, and ready access.
- Covers should, if feasible, be installed to protect against falling items.
- Measures to prevent unauthorized access to dangerous areas should be in place.

First Aid

- The employer should ensure that qualified first-aid can be provided at all times. A sufficient number of first aid boxes or cupboards shall be provided and maintained so as to be readily available during all working hours, provided that the distance of the nearest first aid box or a cupboard stall be not more than 200m from any working place.
- First aid kits include all equipment outlined in Annex 1 to these Guidelines.
- Remote sites should have written emergency procedures in place for dealing with cases of trauma or serious illness up to the point at which patient care can be transferred to an appropriate medical facility.

Work Uniform

- The contractor shall provide a working uniform to each worker.
- All workers shall be required to attend the duty in proper uniform unless otherwise instructed by the Contractor.

Air Supply

- Sufficient fresh air should be supplied for indoor and confined workspaces. Factors to be considered in ventilation design include physical activity, substances in use, and process related emissions. Air distribution systems should be designed so as not to expose workers to draughts.
- Re-circulation of contaminated air is not acceptable. Heating, ventilation and air conditioning (HVAC) systems should be equipped, maintained and operated so as to prevent growth and spreading of disease agents (e.g. Legionella pneumophila) or breeding of vectors (e.g. mosquitoes and flies) of public health concern.

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Information Provision on Occupational Health and Safety (OHS)

- The Contractor is responsible to hold an information session to familiarize all workers with the OHS procedures specified in these guidelines, in order to ensure they are apprised of the basic site rules of work at / on the site and of personal protection and preventing injury to fellow workers.
- The information session should consist of basic hazard awareness, site-specific hazards, safe work practices, and emergency procedures for fire, evacuation, and natural disaster, as appropriate. Any site-specific hazard or color coding in use should be thoroughly reviewed as part of orientation training.

2. Physical Hazards

Physical hazards represent potential for accident or injury or illness due to repetitive exposure to mechanical action or work activity.

Rotating and Moving Equipment

Injury or death can occur from being trapped, entangled, or struck by machinery parts due to unexpected starting of equipment or unobvious movement during operations. Recommended

protective measures include:

- Designing machines to eliminate trap hazards and ensuring that extremities are kept out of harm's way under normal operating conditions. Examples of proper design considerations include two-hand operated machines to prevent amputations or the availability of emergency stops dedicated

to the machine and placed in strategic locations.

- Where a machine or equipment has an exposed moving part or exposed pinch point that may endanger the safety of any worker, the machine or equipment should be equipped with, and protected by, a guard or other device that prevents access to the moving part or pinch point. Guards should be designed and installed in conformance with appropriate machine safety standards.

Noise

- No worker should be exposed to a noise level greater than 85 dB(A) for a duration of more than 8 hours per day without hearing protection. In addition, no unprotected ear should be exposed to a peak sound pressure level (instantaneous) of more than 140 dB(C).
- The use of hearing protection should be enforced actively when the equivalent sound level over 8 hours reaches 85 dB(A), the peak sound levels reach 140 dB(C), or the average maximum sound level reaches 110dB(A). Hearing protective devices provided should be capable of reducing sound levels at the ear to at least 85 dB(A).
- Although hearing protection is preferred for any period of noise exposure in excess of 85 dB(A), an equivalent level of protection can be obtained, but less easily managed, by limiting the duration of noise exposure. For every 3 dB(A) increase in sound levels, the 'allowed' exposure period or duration should be reduced by 50 percent.
- Prior to the issuance of hearing protective devices as the final control mechanism, use of acoustic insulating materials, isolation of the noise source, and other engineering controls should be investigated and implemented, where feasible.
- Periodic medical hearing checks should be performed on workers exposed to high noise levels.

Vibration

Exposure to hand-arm vibration from equipment such as hand and power tools, or whole-body vibrations from surfaces on which the worker stands or sits, should be controlled through choice of equipment, installation of vibration dampening pads or devices, and limiting the duration of exposure.

Electrical

Exposed or faulty electrical devices, such as circuit breakers, panels, cables, cords and hand tools, can pose a serious risk to workers. Overhead wires can be struck by metal devices, such as poles or ladders, and by vehicles with metal booms. Vehicles or grounded metal objects brought into close proximity with overhead wires can result in arcing between the wires and the object, without actual contact. Recommended actions include:

- Marking all energized electrical devices and lines with warning signs
- Locking out (de-charging and leaving open with a controlled locking device) and tagging-out (warning sign placed on the lock) devices during service or maintenance
- Checking all electrical cords, cables, and hand power tools for frayed or exposed cords and following manufacturer recommendations for maximum permitted operating voltage of the portable hand tools
- Double insulating / grounding all electrical equipment used in environments that are, or may become, wet; using equipment with ground fault interrupter (GFI) protected circuits
- Protecting power cords and extension cords against damage from traffic by shielding or suspending above traffic areas
- Appropriate labeling of service rooms housing high voltage equipment ('electrical hazard')

and where entry is controlled or prohibited

- Establishing "No Approach" zones around or under high voltage power lines
- Rubber tired construction or other vehicles that come into direct contact with, or arcing between, high voltage wires may need to be taken out of service for periods of 48 hours and have the tires replaced to prevent catastrophic tire and wheel assembly failure, potentially causing serious injury or death
- Conducting detailed identification and marking of all buried electrical wiring prior to any excavation work

Eye Hazards

Solid particles from a wide variety of industrial operations, and/or a liquid chemical spray may strike a worker in the eye causing an eye injury or permanent blindness. Recommended measures include:

- Use of machine guards or splash shields and/or face and eye protection devices, such as safety glasses with side shields, goggles, and/or a full-face shield. Frequent checks of these types of equipment prior to use to ensure mechanical integrity is also good practice.
- Where machine or work fragments could present a hazard to transient workers or passers-by, extra area guarding or proximity restricting systems should be implemented, or PPE required for transients and visitors.
- Provisions should be made for persons who have to wear prescription glasses either through the use of overglasses or prescription hardened glasses.

Welding / Hot Work

Welding creates an extremely bright and intense light that may seriously injure a worker's eyesight. In extreme cases, blindness may result. Additionally, welding may produce noxious fumes to which prolonged exposure can cause serious chronic diseases. Recommended measures include:

- Provision of proper eye protection such as welder goggles and/or a full-face eye shield for all personnel involved in, or assisting, welding operations. Additional methods may include the use of welding barrier screens around the specific work station (a solid piece of light metal, canvas, or plywood designed to block welding light from others). Devices to extract and remove noxious fumes at the source may also be required.

Working Environment Temperature

Exposure to hot or cold working conditions in indoor or outdoor environments can result temperature stress-related injury or death. Use of personal protective equipment (PPE) to protect against other occupational hazards can accentuate and aggravate heat-related illnesses. Extreme temperatures in permanent work environments should be avoided through implementation of engineering controls and ventilation. Where this is not possible, such as during short-term outdoor work, temperature-related stress management procedures should be implemented which include:

- Monitoring weather forecasts for outdoor work to provide advance warning of extreme weather and scheduling work accordingly
- Providing temporary shelters to protect against the elements during working activities or for use as rest areas
- Use of protective clothing
- Providing easy access to adequate hydration such as drinking water or electrolyte drinks, and avoiding consumption of alcoholic beverages

Ergonomics, Repetitive Motion, Manual Handling

Injuries due to ergonomic factors, such as repetitive motion, overexertion, and manual handling, take prolonged and repeated exposures to develop, and typically require periods of weeks to months for recovery. These OHS problems should be minimized or eliminated to maintain a productive workplace. Controls may include:

- Facility and workstation design with 5th to 95th percentile operational and maintenance workers in mind
- Use of mechanical assists to eliminate or reduce exertions required to lift materials, hold tools and work objects, and requiring multi-person lifts if weights exceed thresholds
- Selecting and designing tools that reduce force requirements and holding times, and improve postures
- Incorporating rest and stretch breaks into work processes, and conducting job rotation
- Implementing quality control and maintenance programs that reduce unnecessary forces and exertions

Working at Heights

Fall prevention and protection measures should be implemented whenever a worker is exposed to the hazard of falling more than two meters; into operating machinery; into water or other liquid; into hazardous substances; or through an opening in a work surface. Fall prevention / protection measures may also be warranted on a case-specific basis when there are risks of falling from lesser heights. Fall prevention may include:

- Installation of guardrails with mid-rails and toe boards at the edge of any fall hazard area
- Proper use of ladders and scaffolds by trained workers
- Use of fall prevention devices, including safety belt and lanyard travel limiting devices to prevent access to fall hazard area, or fall protection devices such as full body harnesses used in conjunction with shock absorbing lanyards or self-retracting inertial fall arrest devices attached to fixed anchor point or horizontal life-lines
- Appropriate training in use, serviceability, and integrity of the necessary PPE
- Inclusion of rescue and/or recovery plans, and equipment to respond to workers after an arrested fall

Illumination

Work area light intensity should be adequate for the general purpose of the location and type of activity, and should be supplemented with dedicated work station illumination, as needed. Controls should include:

- Use of energy efficient light sources with minimum heat emission
- Undertaking measures to eliminate glare / reflections and flickering of lights
- Taking precautions to minimize and control optical radiation including direct sunlight.
- Exposure to high intensity UV and IR radiation and high intensity visible light should also be controlled
- Controlling laser hazards in accordance with equipment specifications, certifications, and recognized safety standards. The lowest feasible class Laser should be applied to minimize risks.

2. Personal safety equipment for workers

All workers are equipped with the following personal safety equipment: helmet, gloves, ordinary boots and reflective vest. Workers that are exposed to dust should also be provided with eye protection glasses and face mask. Workers that are exposed to noise should be provided with ear plugs. Workers that need to work in the dark should be provided with hand and cap lamps.

Workers are instructed regarding safety equipment as follows:

- Always wear complete set of protective wear.
- Do not wear loose clothing, such as overhang shirt, jackets, mufflers etc.
- Tuck shirt and jacket well.
- Secure helmet with belt under the chin.
- Tuck the bottom sleeves of trouser inside safety boot.
- Dress with reflector

3. Standards for workers' accommodation²

1. General living facilities

- The location of the facilities is designed to avoid flooding or other natural hazards
- The living facilities are located within a reasonable distance from the worksite.
- Transport is provided to worksite safe and free.
- The living facilities are built using adequate materials, kept in good repair and kept clean and free from rubbish and other refuse.

2. Drainage

- The site is adequately drained.

3. Heating, air conditioning, ventilation and light

- Living facilities are provided with adequate heating, ventilation, and light systems including emergency lighting.

4. Water

- Workers have easy access to a supply of clean/ potable water in adequate quantities.
- The quality of the water complies with national/local requirements or WHO standards.
- Tanks used for the storage of drinking water are constructed and covered to prevent water stored therein from becoming polluted or contaminated.
- The quality of the drinking water is regularly monitored.

5. Wastewater and solid waste

- Wastewater, sewage, food and any other waste materials are adequately discharged in compliance with national and/or international standards and without causing any significant impacts on camp residents, the environment or surrounding communities.
- Specific containers for rubbish collection are provided and emptied on a regular basis.
- Pest extermination, vector control and disinfection are undertaken throughout the living facilities at least once.

6. Rooms/dormitories facilities

- Rooms/dormitories are kept in good condition.
- Rooms/dormitories are aired and cleaned at regular intervals.
- Rooms/dormitories are built with easily cleanable flooring material.
- Rooms/dormitories and sanitary facilities are located in the same buildings.
- Residents are provided with enough space.
- The number of workers sharing the same room/dormitory is minimized.
- Doors and windows are lockable and provided with mosquito screens when necessary.
- Mobile partitions or curtains are provided.
- Adequate number of furniture such as table, chair, mirror, and lamps are provided for all workers.
- Separate sleeping areas are provided for men and women.

7. Bed arrangements and storage facilities

- A separate bed is provided for every worker.
- The practice of “hot-bedding” is prohibited.
- There is a minimum space of 1 meter between beds.
- The use of double deck bunks is minimized.
- If double deck bunks are in use, there is enough clear space between the lower and upper bunk of the bed.
- Workers are provided with comfortable mattresses. Workers may be expected to use their own pillows and bed linens.
- Workers wash bed linen frequently and applied with adequate repellents and disinfectants (where conditions warrant).
- Adequate facilities for the storage of personal belongings are provided.
- Separate storages for work clothes and PPE and depending on condition, drying/airing areas are provided.

8. Sanitary and toilet facilities

- Sanitary and toilet facilities are constructed from materials that are easily cleanable.
- Sanitary and toilet facilities are cleaned frequently and kept in working condition.
- Toilets, showers/bathrooms and other sanitary facilities are designed to provide workers with adequate privacy including ceiling to floor partitions and lockable doors.

- Separate sanitary and toilet facilities are provided for men and women.
- Toilet facilities are conveniently located and easily accessible.
- Toilet facilities are environmentally friendly (e.g., pit toilet) and sewage is not disposed into the worksite.
- Open defecation in the vicinity of project sites should be prohibited.
- An adequate number of hand wash basins and showers/bathrooms facilities are provided.
- Shower facilities are provided with water heating facilities.

9. Cooking and laundry facilities

Cooking and laundry facilities should be available for workers at the worksite or in close vicinity to it. These facilities should be kept in clean and sanitary conditions.

10. Leisure, social and telecommunications facilities

- Basic social collective spaces should be available to workers.
- Workers are provided with dedicated places for religious observance, as appropriate.
- The employer provides workers with local sim cards that can be used for communication on their personal cell phones.

Contents of first aid box or cup-boards

The first aid boxes or cup-boards shall be distinctively marked with white cross on a green background and shall contain the following equipment:

1. Small sterilized dressings (12)
2. Medium size sterilized dressings (6)
3. Large size sterilized dressings (6)
4. Large size sterilized burn dressings (6)
5. (1/2 oz.) Sterilized cotton wool (6 packets)
6. (2oz.) Bottle containing a two per cent alcoholic solution of iodine (1)
7. (2oz.) Bottle containing Betadine (antiseptic solution) having the dose and mode of administration indicated on the label (1)
8. Roll of adhesive plaster (1)
9. A snake bite lancet (1)
10. Torch light (1)
11. Pair of scissors (1)
12. Tablets Aspirin (5gms) 2 dozen
13. Burn Ointment (2 tubes)
14. Dettol (2 phial, about 2 ozs)
15. Bandages 4 inches wide
16. Bandages 2 inches wide
17. Triangular bandages (2)
18. Packets of safety pins (1)
19. A supply of suitable splint

Annexure - BFL specific GRM Brochure



HOW TO FILE YOUR COMPLAINT

To file your complaint, please contact any of the designated individuals provided below. You may maintain anonymity if you prefer.

BFL FOCAL

- Phuntsho Norbu
- 17984452
- pnorbu@moenr.gov.bt
- Khar, Pema Gatshel

NGANGLAM RANGE OFFICE

- Sonam Zangpo
- 17832192
- szangpo@pemagatshel.gov.bt
- Nganglam Dungkhag, Nganglam

YOU MAY ALSO CONTACT THE BFL PROJECT COORDINATION UNIT (PCU) OR FUND SECRETARIAT (FS) AT:

BFL FUND SECRETARIAT (FS)

- Kuenzang Tobgay
- 17750414
- kuenzangtobgay@bfl.org.bt
- Bhutan For Life Fund Secretariat, Royal Textile Academy, Thimphu

BFL PROJECT COORDINATION UNIT (PCU)

- Norbu Yangdon
- 17987200
- norbuyangdon@moenr.gov.bt
- BFL Project Coordination Unit, Department of Forests and Park Services, Ministry of Energy and Natural Resources, Taba, Thimphu

CHOKHORLING BEAT OFFICE

- Darjay Wangchuk
- 17680643
- darjaywangchuk1972@gmail.com
- Chokhorling, Nganglam

SAMDRUP JONGKHAR RANGE OFFICE

- Ugyen Wangchuk
- 17659827
- ugswangss@gmail.com
- Samdrup Jongkhar Range Office, Territorial Division

DEWATHANG BEAT OFFICE

- Kunzang Norbu
- 17285688
- knorbu12xl@gmail.com
- Dewathang Beat Office, Samdrup Jongkhar

IF YOU ARE NOT COMFORTABLE FILING YOUR COMPLAINTS AT PROTECTED AREA OFFICES, YOU MAY ALSO FILE YOUR COMPLAINTS AT THE NEAREST FOLLOWING GEWOG OFFICES:

- Norbugang Gewog - 17317500
- Orong Gewog - 17838808

IF THE NATIONAL PROCESS OF GRM IS UNABLE TO RESOLVE THE GRIEVANCE, COMPLAINTS MAY ALSO BE FILED WITH WORLD WILDLIFE FUND (WWF).

Write to the WWF GCF Accredited entity at:
SafeguardsComplaint@wwf.us.org
Project Complaints Officer, Safeguards Complaints, World Wildlife Fund 1250 24th Street NW Washington, DC 20037

COMPLAINTS MAY ALSO BE FILED WITH GCF INDEPENDENT REDRESS MECHANISM (IRM) OPTION. COMPLAINT CAN BE FILED BY:

- Sending it by mail or email at irm@gcfund.org
- Sending a voice or video recording
- Filling out the online complaints form available at: <https://gcf.isight.com/external/case/new/group=Complaint>

A complaint for IRM should generally include:

- Name, address and contact information
- A description of the programme (caused adverse impacts to the complainant)
- A description of how the complainants have been/maybe adversely impacted by the project/programme
- Whether confidentiality is being requested and the reasons for it.

COMPLAINTS MAY ALSO BE FILED WITH THE WWF THIRD PARTY GRIEVANCE REPORTING MECHANISM BY USING ETHICS POINT WEBSITE AT:

<https://secure.ethicspoint.com/domain/media/en/ga/59041/index.html>

This mechanism can receive reports online or by phone in multiple languages.

IF YOU ARE UNSATISFIED WITH THE COMPLAINT RESOLUTION PROCESS, YOU CAN APPEAL TO:

GRM Appeal Committee, Bhutan For Life Project, DoFPS, Thimphu, Bhutan.