Binturong Arctictis binturong

Globally Threatened: Vulnerable (VU), At Potentially Risk in Lao PDR; National Category I (Prohibited)

Binturong was reported throughout Lao PDR, but remain little is known on its status in the country. Direct observation survey of the 1990s also yielded very few records (Duckworth *et al.*, 1999). It was actually reported in most conservation areas of the country but it is rare today. As a nocturnal species it is hard to have its picture in the wild as camera trapping would help capture it. This species was reported in only SB2 and SB3 but in quite low confidence. This species is fairly nationally important for conservation, this species would be present but having neither yet confirmed in the field nor included on the GT confirmed list for this report.

Bengal Slow Loris Nycticebus bengalensis,

Globally Threatened: Endangered (EN); Little Known in Lao PDR; National Category I (Prohibited)

This species was reported throughout Lao PDR, but remains little is known on its status in the country. It was reported in all Survey blocks from Ban Dak Dom, Ban Dak Dreun and Ban Prao. Mr. Sengnisone from Ban Dak Dom caught this species at night in Sep 2021. Unfortunately, it was not detected during the night surveys and neither by the herp team. The Survey area would support a very small population of this species so it is unlikely to be of nationally conservation significance. The species was well recognised by local villagers as the Pygmy Slow Loris (*Nycticebus pygmaeus*) is smaller with yellowish, whereas the Bengal Slow Loris is larger with quite whitish. It is therefore not be confused among them. Given in high confidence of village reports on this species occurring in the Survey area, although this species was not confirmed in the field it was certified its presence.

Pygmy Slow Loris Nycticebus pygmaeus,

Globally Threatened: Endangered (EN); Little Known in Lao PDR; National Category I (Prohibited)

This species was reported almost throughout Lao PDR, but remain little is known on its status in the country. It is considered difficult to find in the area. Some villagers suggested that the survey area would have only the *N. bengalensis* in the survey area. However, Mr. Sengnisone reported that there are two species present in the territory of Ban Dak Dom. Anyway, it is still in question if the species is present in the area or not.

Owston's Civet Chrotogale owstoni

Globally Threatened: Endangered (EN), At Risk in Lao PDR; National Category I (Prohibited)

Owston's Civet occurs in many parts of Lao PDR but its habitat was restricted to Upper Evergreen Forest, along Annamite Mountain Range. It was recently rare due to hunting and probably habitat loss. This species was reported from Ban Dak Dom for the SB2 and Ban Dak Dreun for SB3 and SB4 but insufficient information to support whether the species is present

today. However, it was finally caught on camera trap in SB3 on 16 August 2021 (see Fig. 17; Annex 7). This species is considered rare and present specially in Annamite Range.

Great Hog Badger *Arctonyx collaris*

Globally Threatened: Vulnerable (VU), At Low Risk in Lao PDR; National Category I (Prohibited)

Great Hog Badger, it occurs throughout the Lao PDR, but little is known on its current status. Occurrence seems to be patchy, with no recent records from the Mekong Plain, which covers most of the western part of the southern half of the country (Duckworth *et al.*, 1999). This species was reported in the area but no any evidence of this species was found during the surveys. Anyway, with some confident report from Ban Dak Dom for SB2 and made realized that this species is still present in the area. Finally, it was caught on camera traps for 2 times at UTM: 721472/1713389.

5.3.2.7 First record and possible new species accounts

There were two different species of wild pigs were caught on camera trap, usually known Eurasian Wild Pig (*Sus scrofa*) with its long snout, but one of them was likely *Sus bucculentus* as its shorter snout (see Fig. 19). It is believed there would be identified to this species. As it was rediscovered in 1997 (Grove et al. 1997) after having gone unrecorded since first being described in 1892. The Annamite is the habitat of this species. On the other hand, it is possible to be a hybrid with domestic pig which is hard to make decision from just a picture. Also, Owston's Civet and Spotted Linsang are other rare species which are difficult to obtain their pictures from the wild (see Annex 7) but they were captured on camera trapping.



Figure 19. Morphology of 2 different wild pigs (sus scrofa and sus bucculentus)

5.3.2.7 Some other selected species accounts

Black Giant Squirrel Ratufa bicolor

Globally- Near-Threatened (NT); Potentially At Risk in Lao PDR; National Category II (Managed)

Black Giant Squirrel occurs throughout Lao PDR but its population has decreased considerably as target hunting species for bush meat and often seen being sold in a local market (Duckworth *et al.*, 1999). This species was reported in the SB1, SB2, SB3 and SB4 with confidence for this species presence in the survey area. Previously, Mr. Sonenivong from Ban Dak Dom reported this species was seen in SB3. Through the survey we observed this animal in SB2 on July 2021 and also in the same SB2 on Dec 11 2021. This species was observed again during the dry season survey in the SB2 and SB5, also caught on camera trap in SB5. With some hunting pressure the population of this species would remain in very small number in the Survey area.

In addition, Chinese Goral (*Naemorhedus griseus*) was reported in the SB3 & SB4 but it was not confirmed. It is probably not present.

5.3.2.8 Seasonal variation and distribution of mammal species in the survey area

Distribution of mammal species in the survey area is not really different. They have similar species of composition. Based on the encounters, the Zone A (Annamite) has a higher density of pangolins but the Zone B (Phou Koungking) has a higher density of Stump-tailed Macaque and Chinese Serow. Further northwest such as Phou Yai is only the site where a presence of Northern Pig-tailed Macaque. Among the survey blocks, the higher biodiversity will be in SB2, SB4, SB5 and SB3 and SB.

Seasonaly variation of mammal species is also not different. Mammals are not a migratory species, they do inhabitat where are safe such as for the Zone A (Phou Koungking) is the safe place for many wildlife species. Whereas, for the Zone B, more wildlife species were recorded during wet season. It was reported that douc langur does occur more often from September to November.

5.3.2.9 Recommendations

Through the survey it is realized that the survey area is all critical habitat as it supports a number of GT species so it needs to be careful to interfere the area. Phou Koungking and SB2 should be legally protected for provincial protected area to ensure the remaining at least 9 GT mammal species in the area be legally protected. It can be linked from SB2 to Phou Koungking and Phou Yai which can be established as bio-offset area of the project.

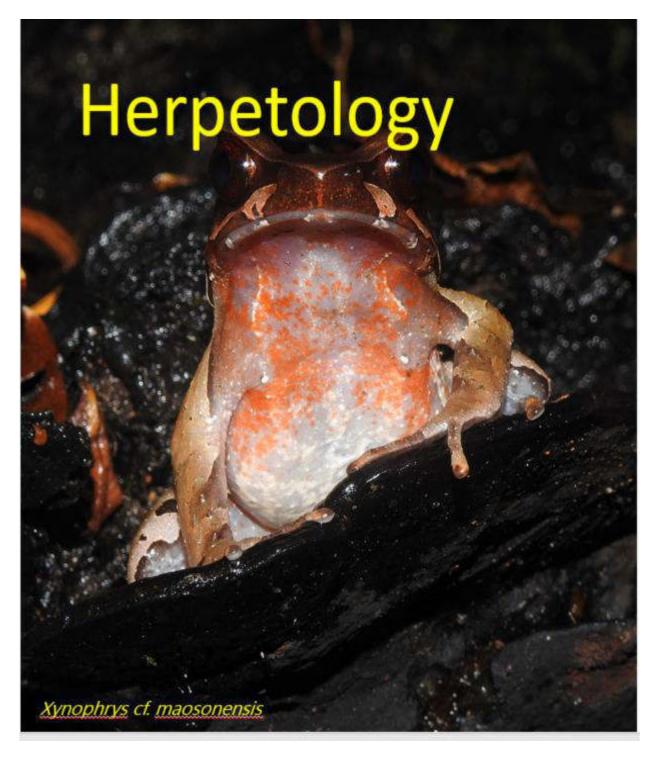
The survey for large mammals covered the study area well and conducted thoroughly except for the southern Phou Koungking known Phou Katieng where at least 4 GT and target species were present and it seems they have a good population of Northern buff-cheeked Gibbon, Red-shanked Douc Langur, Sambar and Bears.

5.3.2.10 Conclusions

The survey of mammals was conducted and covered enough the habitats and species except some small mammals, including bats. Those small mammals are hard to identify from tracks and feeding sites but that they are not really important for this assessment since the target mammal species are medium and large mammals. Through the surveys made a total of 59 animal species, of which 44 mammal species were confirmed in the field, including some species were reported by local villagers from reliable village reports. Of these species, as 14

GT mammal species were confirmed, included 3 CR, 3 EN and 8 VU). The Survey area still holds a high diversity of mammal species especially the SB2 and SB3 but most of them are of a low population, except Pangolins in the SB2 and Chinese Serow and Stump-tailed Macaque in the SB3 and SB4.

Mammal conservation is urgent because many of them are in low numbers so appropriate strategy and mechanism e.g collaborative management should be applied to work with local communities for protecting them from local extinction. Most importantly, Phou Koungking (SB3 and SB4) should be legally established as conservation area e.g provincial protected area.



5.3.3 Herpetology

5.3.3.1 Introduction

The survey area is part of the Southern Annamite Mountain Range which is well dominated by Upper Evergreen Forest and unique habitats for some specialist reptile species. Mostly the survey area with over 1,000m a.s.l. and some small portion with a higher elevation of 1,500m a.s.l. which is considered Montane Evergreen Forest (MEF).

According to the Integrated Biodiversity Assessment Tool (IBAT) of International Union for Conservation of Nature (IUCN) and some reviews generated a list of 10 GT species in the Survey area. Of these species, 6 GT species were the target species for the reptile survey, included Bourret's Box Turtle (*Cuora bourreti*, CR), Three-horned scale Pitviper (*Protobothrops sieversorum*, EN), Yellow eyed Spadefoot Toad *Leptobrachium xanthops* (EN), Black-breasted Leaf Turtle (*Geoemyda spengleri*, EN), Impressed Tortoise (*Manouria impressa*, VU) and Red River Krait (*Bungarus slowinskii*, VU). Meanwhile, some other GT species were not defined as target species but important to record if they are present.

5.3.3.2 Key findings

Through the survey made a total of 74 herpetofauna species, of which 30 reptile species and 41 amphibian species were confirmed from the field surveys. As globally threatened species of herpetofauna would be still present in the area, but only 3 GT were confirmed from the field as Red River Kriat (*Bungarus slowinskii*, VU), Chinese soft-shell Turtle (*Pelodiscus sinensis*, VU) and Serrate Frilled Treefrog (*Kurixalus cf gryllus*, VU) (see Table 15a and 15b).

Interestingly, 6 reptile species were first record of Laos, 2 second record of Laos and 3 reptile species are considered possible new species as not described yet (see Fig. 13), and detailed list of herpetofauna species were confirmed from the survey area can be found in Annex 3 and Annex 4.

Survey Block	Ke	ey reptile speci	es	GT species count
	CR	EN	VU	by SB
SB1 – Annamite			3	3
SB2 – Annamite			5	5
SB3 – Phou Koungking			3	3
SB4 – Phou Koungking			4	4
SB5 – Phou Yai			4	4

Table 15a. List of Globally Threatened reptile species records and reports in the Survey area

Remarks: some reliable report is counted for reptiles.

Table 15b. List of GT and target reptile species records and reports in the Survey area

1	2	0	Survey Block			
	. 2	3	4	5		
?	??	?			Uncertain	
					Possible	
	t? t					

Yellow eyed Spadefoot Toad	Leptobrachium xanthops	EN	Report		?	?			
Impressed Tortoise	Manouria impressa	VU	Report	х	x				YES
King Cobra	Ophiophagus hannah	VU	Report		x	x	x	x	YES
Burmese Python	Python bivittatus	VU	Report		х	х	х	x	YES
Black-breasted Leaf Turtle	Geoemyda spengleri	EN	Report		?	?			
Keeled Box Turtle	Cuora mouhotii	EN	Report	?					Possible
Red River Krait	Bungarus slowinskii	VU		Х	x				YES
Indochinese Spitting Cobra	Naja siamensis	VU	Report		x	x	x	х	YES
Three-horned scale Pitviper	Protobothrops sieversorum,	EN	Report		?	?	?		Uncertain
Serrate Frilled Treefrog	Kurixalus cf gryllus	VU					x	х	YES
Asiatic Soft-shell Turtle	Amyda cartilaginea	VU	Report						Possible
Chinese Soft- shell Turtle	Pelodiscus sinensis	VU		х					YES
Total				3	5	3	4	4	7

Remarks: The globally threatened herpetofauna species were confirmed including those species from reliable village reports, but only 3 of them were directly confirmed in the field. Some species with low confidence (possible) were not be counted.

5.3.3.3 Findings by survey block

According to the herpetofauna species recorded with some reports showed a higher number of reptile species were in SB3 and SB4 (Phou Koungking) and then the SB2 (Annamite). The key findings by Survey block were presented on a number of species records and reliable village reports in the area with highlighting of some important findings by survey block.

5.3.3.3.1 Findings by Survey block 1 (Annamite)

The survey for herpetofauna in the Survey block 1 was conducted through village interviews (Ban Dak Dom) and field surveys. The village interviews reported of 23 herpetofauna species, of which during the field observations 21 species were confirmed as 9 reptiles and 13 amphibians) were present in the field and mostly photographed. Carapace of the Impressed Tortoise was found in Ban Dak Ta-ok noy. With some reliable village reports there are 3 GT species present in the Survey block, including: Impressed Tortoise (EN), Red River Kriat (VU) and Chinese Soft-shell Turtle (VU). These tortoises were reported in Ban Dak Dom and reported that they used to hunt them but they are considered rare today.

5.3.3.3.2 Findings by Survey block 2 (Annamite)

The survey for herpetofauna in the Survey block 2 was conducted through village interviews (Ban Dak Dom) and field surveys. The village interviews reported of 26 herpo fauna species, of which during the field observations 23 species (11 reptiles and 12 amphibians) were present in the area and mostly photographed. Of which, only 1 GT species, Red River Kriat, but only the Red River Kriat was confirmed from the field in SB2 at 15.555660N/ 107.358260E as was found dead on road. Still, other 4 GT species from reliable village reports including: Impressed Tortoise (EN), King Cobra (VU), Indochinese Spitting Cobra (VU) and Burmese Python (VU). Yet, no field verification as they were just reported by local villagers of Ban Dak Dom. Mostly likely possible GT species are still present in the area are Elongated Tortoise (EN) and Asiatic Soft-shell Turtle.

5.3.3.3.3 Findings by Survey block 3 (Phou Koungking E)

The survey for herpetofauna in the Survey block 3 was conducted through village interviews (Ban Dak Dreun) and field surveys. The village interviews reported of 38 herpo fauna species, of which during the field observations, 32 species (15 reptiles and 17 amphibians) were confirmed in the field and mostly photographed. As 3 GT species from reliable village reports including: King Cobra (VU), Indochinese Spitting Cobra (VU) and Burmese Python (VU).

5.3.3.3.4 Findings by Survey block 4 (Phou Koungking W)

The survey for herpetofauna in the survey block 4 was conducted through village interviews (Ban Prao) and field surveys. The village interviews reported of 33 herpetofauna species, of which during the field observations 30 herpetofauna species (16 reptiles and 14 amphibians) were confirmed in the field and mostly photographed. As 5 GT species from direct observation and reliable village reports including: King Cobra (VU), Indochinese Spitting Cobra (VU), Burmese Python (VU), Impressed Tortoise (EN and Serrate Frilled Treefrog (VU).

5.3.3.3.5 Findings by Survey block 5 (Phou Yai)

The survey for herpetofauna in the survey block 5 was conducted through village interviews (Ban Prao) and field surveys. The village interviews reported of 23 herpetofauna species, of which during the field observations 23 species (11 reptiles and 12 amphibians) were confirmed in the field and some photographed. As 4 GT species from direct observation and reliable village reports including: King Cobra (VU), Indochinese Spitting Cobra (VU), Burmese Python (VU) and Impressed Tortoise (EN).

Through the surveys, the globally threatened and target reptile species is only Red River Krait (*Bungarus slowinskii*, VU) and *Kurixalus cf. gryllus* (VU) were confirmed in the survey area during the wet season survey, 2 turtle species were found during the dry season survey. More efforts for the reptile survey would generate more species to the list of herpetofauna species and that should focus on beginning of wet season.

5.3.3.4 Overview of herpetofauna community

There are several sub-herb communities in the survey area as Snake, Lizard, Turtle and Frogs as following:

Snake community

Snakes were reported widely in Laos which they can adapt to some degraded environments and a number of snake species were reported in the Survey area. They are associated with small rivers, streams where well covered by forest habitats. Snake can be found both daytime and night time but more active at night for feeding. Therefore, spotlighting would be only best survey to detect snakes.

The surveys for snakes were conducted mainly through field observations to confirm the presence of this sub-herp group, mostly the Green Pitviper snake in the family of Vipiridae (4 species), while some other in general environment which some ratsnakes do present and in the family of Colubridae (7 species were recorded in the field). The common species are Vogel's pitviper (Trimeresurus vogeli), Brown-spotted pitviper (Protobothrops *mucrosquamatus*), Beauty ratsnake (Elaphe taeniura). big-eve bamboo snake (Pseudoxenodon macrops) etc.

Lizard community

Lizards were reported widely in Laos which they can adapt to many environments and some numbers of lizard species were reported in the Survey area. They are associated with several environments. As a uniqueness of the Annamite habitats in the survey area so some specific lizard could be present. A majority of the lizards can be found on tree trunk, bushes and ground as well as associated with streams. Lizards can be found both daytime and night time but more active for feeding in night time.

The surveys for lizards were conducted mainly through field observations to confirm the presence of this sub-herp group, mostly the family of Agamidae (4 species) and Scincidae (4 species), included the species of Mountain horn dragon (*Acanthosaura nataliae*), Ziegler's tree lizard (*Pseudocalotes ziegleri*), Blue-trailed skink (*Plestiodon quadrilineatus*) etc. The mountain horn dragon was well presented in the survey area as it was found in all survey blocks and meaning to Annamite it is then considered Annamite horn dragon (see Fig. 20).

Turtle community

Turtles were reported widely in Laos, there are turtle and tortoise which they cannot adapt well to some degraded environments and some numbers of turtle species were reported in the Survey area. The turtles are associated with rivers e.g Xe Khaman and small rivers/streams. The tortoise species are associated with forest habitats as land turtles. Mostly both turtles and tortoises were reported with high confidence but no any of them were confirmed in the field, they are rare and would have a low population in the area. The turtles especially land turtles were under most high threat due to high pressure with assistance from hunting dogs in searching land turtles.



Figure 20. Annamite horn dragon (Acanthosaura sp)

Frog community

There are tree dwelling frogs and ground dwelling frogs.

Tree dwelling frogs, tree or arboreal frog community inhabiting trees was mainly present in the Survey area. The sub-amphibian group recorded and reported in the survey area were the family of (Ranidae: *Odorrana, Sylvirana and Amolops*). However, it is not popularly consumed or harvested.

Ground dwelling frogs, the ground-dwelling frog community is the small group living in the Survey area and show low numbers of species and populations. The sub-amphibian group recorded and reported in the survey area.

5.3.3.5 Globally threatened species accounts

Following are the records of species considered of global and/or national conservation interest which specific recording sites were given with mapping, as well as endemic species (first record and possible new species were provided) (see Fig. 21).

Impressed Tortoise Manouria impressa

Globally Threatened: Vulnerable (VU); At Risk in Lao PDR; National List I (Prohibited)

The species is a non-aquatic species as land turtle (tortoise); it has a distribution throughout the Lao PDR (Stuart & Platt, 2004). In addition, it occurs from Myanmar across Southern China and Indo–China, southward to Peninsular Malaysia (Zhao & Adler 1993). This species

was reported in 4 survey blocks (except SB5). Local villagers from Ban Dak Dom reported the presence of this species as they collected it occasionally, 2-3 tortoises per year, as well as Ban Dak Dreun used to harvest this tortoise. It is in a very low population and in high market demands as local villager searching for this tortoise for food and sale with assistance from dogs. During the surveys, although with high confidence of local reports on its presence there was no evidence of this species was found in the field but carapace of the species was found in Ban Dak Ta-ok noy so it was finally confirmed its presence.

Bourret's Box Turtle Cuora bourreti

Globally Threatened: Critically Endangered (CR); National List I (Prohibited)

Bourret's box turtle is native to Indo-China, especially Lao PDR, and includes central Vietnam (Nguyen *et al.*, 2009 and Stuart *et al.*, 2011). It is known from central Viet Nam (Nghe An, Ha Tinh, Quang Binh, Thua Thien-Hue, Da Nang, Quang Nam, and Kon Tum provinces), as well as from adjoining Savannakhet Province in Lao PDR (Obst and Reimann 1994, Nguyen *et al.*, 2009, Stuart *et al.*, 2011). During the surveys, the residents from Ban Dak Dom reported the presence of this turtle in SB2 but it was not really confident since it was no anyone hunted this turtle recently. Pitfall traps were used for trapping freshwater turtles in rivers. This species become very rare today and probably become extinct in the area. During the surveys, no evidence of this species was found. The main threat to the turtle was a hunting for sale in the past, hardly used for food since it is good market price. This species is in high demand from international market in Vietnam.

Keeled Box Turtle Cuora mouhotii

Globally Threatened: Endangered (EN); At Risk in Lao PDR; National List I (Prohibited)

The species was originally described from the "Laos Mountains". The species is associated with limestone karst in central and northern Lao PDR (Stuart & Platt 2004, Teynié & David 2010) and occurs in north-eastern India, Myanmar, northern Thailand, southern China and Vietnam (Zhao & Adler 1993). It was only recorded in Laos as a specimen collected from Hin Namno National Park (Stuart & Platt 2004). The species was reported in the survey area including SB2 (Annamite), SB3 and SB4 (Phou Koungking). Through the surveys, no any evidence of this species was found. As searches were conducted in small streams, and probably due to the low population it is difficult to detect.

Elongated Tortoise Indotestudo elongata

Globally Threatened: Endangered (EN); At Risk in Lao PDR; National List I (Prohibited)

The species is a non-aquatic species "tortoise" as a land turtle. It is widely distributed across South and Southeast Asia. The species was reported in SB2, SB2 and SB3. Through the surveys, no any evidence of this species was found. It was reported in Ban Dak Dom (SB2) that the villagers (Mr. Kham) collected it 2 years ago. Due to the low population it is difficult to detect and not know if it is still present.

Three-horned scale Pitviper Protobothrops sieversorum

Globally Threatened: Endangered (EN)

This species is only known from the Annamite Mountains of Lao PDR and Vietnam (Ziegler *et al.*, 2000 and Hermann *et al.*, 2002). This species is endemic to evergreen karst forests at low and possibly mid-elevations, in both primary and disturbed forest. It has been found in Phong Nha-Ke Bang National Park (Vietnam) and the Hin Namno National Park, which are part of the biggest continuous karst formation in Indochina and this snake was recorded at 200 and 600 m a.s.l. However, it was not reported nor recorded in the survey area.

Yellow eyed Spadefoot Toad Leptobrachium xanthops

Globally Threatened: Endangered (EN)

This species has a distribution mainly in Indo-China, and reported in the highland of southern Lao PDR e.g Sekong Province (Stuart 2005), it is exactly in Phou Koungking (SB3). Known with certainty only from wet evergreen forest at 1,450–1,500m a.s.l. Although probably more widespread in the highlands of southwestern Laos and adjacent Central Highlands of Vietnam. This species was reported in SB2 by Ban Dak Dom and SB3 by Ban Dak Dreum but at very low confidence. During the surveys there was no evidence of this frog was found in the area. Through the surveys, no any evidence of this species was found. Due to the low population it is difficult to detect, this species may occur in the Survey area. Threat to this species was due to habitat loss and ecological changes because of probably climate change. However, it was not reported nor recorded in the survey area

Black-breasted Leaf Turtle Geoemyda spengleri

Globally Threatened: Endangered (EN)

Geoemyda spengleri is endemic to Southeast Asia. Geoemyda spengleri inhabits forested hill regions of southern China (Guangdong, Hainan, and possibly Guangxi and Hunan) and northern Viet Nam, including adjoining areas of Lao PDR; its southern extent remains unclear. *Geoemyda spengleri* is primarily terrestrial but occasionally uses streams (Fang 1930). It inhabits in closed forest canopy at mid to high elevations (from 500 to over 1,000 m a.s.l.). This species was reported in SB2 by Ban Dak Dom and SB3 by Ban Dak Dreum but at very low confidence of its presence in the survey area today, it is very difficult to detect. During the surveys there was no evidence of this turtle was found in the survey area.

King Cobra Ophiophagus Hannah

Globally Threatened: Vulnerable (VU); Potentially At Risk in Lao PDR; National List I (Prohibited).

The king cobra has a wide distribution in South and Southeast Asia, it occurs widely from India across the Southern China, southward to Indonesia and the Philippines (Zhao & Adler 1993), including Cambodia, Thailand, Laos, Vietnam and Malaysia, and at elevation of 2,000 m a.s.l. It is known throughout Laos as Lao name "Ngou Chong Ang" (Deuve 1970). The animal was reported in SB2 by Ban Dak Dom and SB3 by Ban Dak Dreum and SB4 by Ban Prao, as they used to encounter it occasionally in the past with confidence of its presence in the Survey area today. The species was of high demands from market, as with a lucrative price e.g US\$50–70/kg. Through the surveys, during the surveys there was no evidence of this snake was found. Yet, based on the provisional information and the reliable village

reports this species was confirmed its presence in the area as they used to find it very occasionally.

Asiatic Soft-shell Turtle Amyda cartilaginea

Globally Threatened: Vulnerable; Potentially At Risk in Lao PDR.

The species is quite common and known throughout Lao PDR (Stuart & Platt 2004), including a historical record from Paklay and Bolikhamxay (Smith 1931). Moreover, this species also occurs widely in Southeast Asia, from Myanmar to Indonesia (Asian Turtle Trade Working Group 2000) but it becomes rare today. The species was reported in Ban Dak Dom for SB2, and previous survey by WWF mentioned the presence of this species in Sekong River and its tributaries such as Xe Khaman which runs through the territory of Ban Dak Dom. This species was well reported during the survey but another Soft-shell turtle found so this species is not confirmed but the Chinese Soft-shell Turtle instead. Threat to this animal was the overexploitation for food and sale.

Chinese Soft-shell Turtle Pelodiscus sinensis

Globally Threatened: Vulnerable; Potentially At Risk in Lao PDR.

The species is native to China but they are raised widely in the region. The species was not reported from the survey but it was found in Ban Dak Dom by Mr. Sengnisone that he caught it from the small river nearby this village in September 2021. The suitable habitat including Sekong River and its tributaries such as Xe Khaman which runs through the territory of Ban Dak Dom. Although during the survey, no any evidence of the turtle was found but only one was found in Ban Dak Dom (see Fig. 13b) and realized it is present. Threat to this animal was the over-exploitation for food and sale.

Indochinese Spitting Cobra Naja siamensis

Globally Threatened: Vulnerable (VU); Potentially At Risk in Lao PDR; National List II (Managed)

Indochinese Spitting Cobra is known throughout Laos, it occurs widely from India across the Southern China, southward to Indonesia and the Philippines (Zhao & Adler 1993). The animal was reported in SB2 by Ban Dak Dom and SB3 by Ban Dak Dreum and SB4 by Ban Prao, as they used to encounter it occasionally in the past with confidence of its presence in the Survey area today. Its population is considered low and quite difficult to detect. Mr. Kham from Ban Dak Dom reported sightings of this snake in the SB1 and SB2. Through the surveys, no evidence of the snake was found. However, based on the provisional information and reliable village reports this species was confirmed its presence as they used to find it occasionally.

Burmese python Python bivittatus

Globally Threatened: Vulnerable (VU); At Risk in Lao PDR; National List I (Prohibited)

Burmese python occurs throughout Southern and Southeast Asia, including Cambodia, Thailand, Laos and Vietnam. Ecologically, the Burmese python is often found near marshes

and swamps, and is sometimes semiaquatic, but can also be found in trees. This species was reported in SB2, SB3, SB4 and SB5 but given in medium confidence. Due to a low population today, it is difficult to detect this snake in the Survey area. The snake species was heavily harvested in the area because of the needs for both local and international market and sold as a skin (US\$30-50/kg). Through the surveys, no evidence of the snake was found. Given in high confidence and reliable village reports this species was confirmed its presence in the Survey area as they use to find it occasionally, Ban Dak Kang hunted this snake 3 years ago in SB5.

Red River Krait Bungarus slowinskii

Globally Threatened: Vulnerable (VU)

Bungarus slowinskii is known only from Viet Nam, where it has been recorded from Yen Bai, Lao Cai, Quang Tri and Quang Nam Provinces (Nguyen *et al.*, 2009). It is suspected to occur in adjacent areas of Lao PDR, but has never been recorded there (B. Stuart and Q.T. Nguyen *pers. comm.* 2011). The snake has large extent of occurrence and can be found from 400-700 m a.s.l. This snake is a terrestrial, oviparous snake of mountain regions, which has only been found in or near streams in evergreen forest. This species was reported in all survey blocks with high confidence of its presence today. During the surveys it was found dead on road on 14 July, 2021, in SB2 (UTM: 752925/1721182, alti: 1,080m a.s.l.) (see Fig. 21).

5.3.3.6 First record and possible new species accounts

First records of herpetofauna species in Laos are interesting and with publication of these frog species will change some previously known endemic herpetofauna species of Vietnam to Annamite or Indochina since they are not present in only Vietnam.

FIRST RECORDS

Serrated Frilled Treefrog Kurixalus cf. gryllus

Globally Threatened: Vulnerable (VU) and – first record of Laos

This frog was first record in Vietnam and considered endemic to Vietnam in Kon Tum Province at above 1,000m a.s.l. (Nguyen and Eto, 2014), but with this record in Dak Cheung (Southern Annamite) which reveals the species distribution is larger than the previous known range, probably the whole Southern Annamite Mountain Range including the Upper Evergreen Forest of Attapeu Province. During the surveys this frog was found in the SB4 on 21 July, 2021 at UTM: 730980/1712401. This species was only the first record of Laos and endemism to the Annamite, but also one of Globally threatened species.

Truong son bug-eyed Frog Theloderma truongsonese

Globally Threatened: not known as not assessed yet – first record in Laos

This frog was first record in Vietnam and considered endemic to Vietnam in Kon Tum Province at above 1,000m a.s.l. (Nguyen and Eto, 2014), but with this record in Dak Cheung (Southern Annamite) which reveals the species distribution is larger than the previous known, probably the whole Southern Annamite Mountain Range including the Upper Evergreen Forest of Attapeu Province. During the surveys this frog was found in the SB1 on 13 July, 2021 and SB4 on 20 July, 2021 at 15.478276N/107.154488E, alt:1,455m a.s.l.

Spiny torrent Frog Amolops spinapectoralis

Globally Threatened: not known as not assessed yet – first record in Laos

Amolops spinapectoralis occurs in Northern and central montane Vietnam (Gia Lai, Da Nang, Quang Nam, Kon Tum, Phu Yen, and Quang Name Provinces), it is at present only known from a few locations in central Vietnam and endemic to Vietnam - but it is likely to be found more widely in the Vietnamese central highlands as well as in the adjacent southeastern Laos and northeastern Cambodia (Inger *et al.*, 1999 and Poyarkov *et al.*, 2021). This species inhabits in evergreen forests at elevations of over 700m a.s.l. and montane (wet forest), vertical rock faces adjacent to waterfalls. It can be very abundant locally; however, it is threatened by habitat loss in Vietnam and partly in Laos by expanding agriculture; large areas of forest are being converted to cash crop plantations such as rubber, coffee, and tea. During the surveys this frog was found in the SB3 on 20 July, 2021 at 15.502398N/ 107.368455E, alt: 1,170m a.s.l.

Poilene Frog Limnonectes cf. poilani

Globally Threatened: not known as not assessed yet – first record in Laos

Limnonectes cf. poilani is considered a big frog, inhabits in Upper Evergreen Forests at elevations of ca. or over 1,000m a.s.l., mainly montane (wet forest), vertical rock streams and adjacent to waterfalls (Le *et al.* 2018. During the surveys this frog was found in the SB1 on 15 July, 2021 at 15.539671N/107.353805E, alt: 1,065m a.s.l.

In addition, there are other 2 species of second record of amphibian in Laos, and 3 possible new species (see Fig. 21 and Annex 3) as one of them was recorded outside the survey blocks.

NEW SPECIES CANDIDATE

Quaripaa sp. – possible new species to science as it has not been described before.

This species was found in the pond close to the Guesthouse in Dak Cheung town as urban area, just outside the survey blocks. This area is degraded area, it was originally the range of upper evergreen forest.

Xenophrys cf. maosonensis – possible new species to science as it has not been described before. This species was found in small stream of SB2 and SB4. The streams were well covered with healthy upper evergreen forest.

Rhacophorus sp nov – possible new species to science as it has not been described before. This species was found in small stream of SB2. The stream was well covered with healthy upper evergreen forest. **Polypedates sp.** – possible new species to science as it has not been described before. This species was found in small stream of SB2. The stream was well covered with healthy upper evergreen forest.

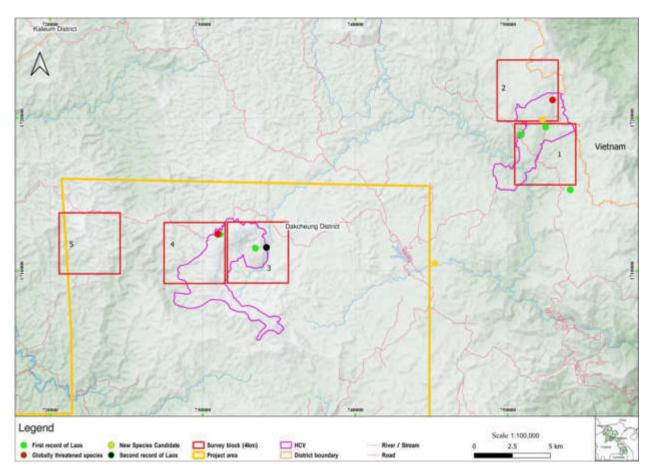


Figure 21. Locations of GT and endemic reptile species in the survey blocks

5.3.3.7 Some other selected species accounts

No any particular herpetofauna species are selected for species accounts.

5.3.3.8 Seasonal variation and distribution of herpetology in the survey area

Herpetofauna species in the survey area have similar distribution but they have different variation by season. Most species are active during wet season especially the beginning of wet season but barely any species can be detected during dry season. Only some few species were found in dry season such as a group of *Limnoectes*, not leaf frog and snakes were found.

5.3.3.9 Recommendations

Herpetofauna (amphibian and reptile species) has been surveyed fairly completely during the surveys. Yet, some numbers of globally threatened species reported could not be confirmed in the field due to some rarity. Therefore, it needs further survey for dry season especially turtles and snakes. Some herpetofauna species with a low population should be surveyed as to identify their habitats for protection.

5.3.3.10 Conclusions

All habitats and micro-habitats are important for herpetofauna community and considered unique for both southern Annamite as well as Phou Koungking (as part of sporadic Annamite, it is Montane Evergreen Forest with submit of 1,700 m a.s.l). Through the surveys of herpetofauna made a total of ca. 73 herpetofauna species were listed, of which 71 species were confirmed from the field survey and other 6 species from reliable village reports.

As 7 globally threatened herpetofauna species (6 reptile and 1 amphibians) were confirmed their presence with some few species from reliable village reports, all is VU species. The SB4 and SB3 (Phou Koungking) generated a high number of herpetofauna species, then SB2, 5 and SB1 (Annamite). But, the GT herpetol fauna species was found in high number in the SB2, then SB4 and SB5.

Further survey of herpetofauna should be conducted in specific habitats in the future to identify a number of species still to be confirmed, especially those GT species. The most important survey blocks for herpetofauna are SB3, SB4 and SB3. These include canopy dwelling herpetofauna species. Moreover, larger size species were not detected due to a low population caused by heavy harvesting specially turtles and snakes.

6. THREATS TO BIODIVERSITY

Threats to biodiversity are mainly for terrestrial species – the mammal, turtles and snakes which are all becoming rare in the Survey area due to hunting, overharvest for trading, some logging activity (SB1) and slash-burned activities for hill rice cultivation and coffee plantation (SB1) so most globally threatened under high threats (see Fig. 22a-22d).

Secondary forest, habitat degradation due to expansion of agriculture was observed widely in SB5, and partly in SB3, SB4, SB1. Also, new road construction was observed in the SB2 which made the habitat fragmented and that will generate new impact on gibbon population in the area from disturbance and hunting. A new transmission of E-Moun Dam was being under construction during the survey as its alignment runs through the northern section of SB5, SB4, SB3 and SB1. Therefore, cumulative impact in the area is and will be from transmission lines of other hydropower power projects such as E-Moun Dam, Xe Khaman Dam, also the military road project, and the proposed logistics park of the International Checkpoint.

Hunting was found more frequency during dry season survey from gunshots and hunters as gunshots were heard 9 times on December 7, 2021 in SB1, and some in other SBs. Hunters

were found during the survey and evidences from camera traps in all SBs particularly the SB1 and SB5. Snare lines were found occasionally in the forests. Hunting some GT species, including Gibbon and Red-shanked Douc Langur were reported but mostly by opportunistic encounters. As well as collecting juvenile Douc for sale by the villagers of Ban Ta-ok noy was reported as they caught it from the SB2.



Figure 22a. Some evidences of threats (hunting and logging)



Figure 22b. Hunting (Porcupine), trapped dead animal and snares



Figure 22c. Hunters captured on camera traps



Figure 21d. Road construction along the Lao-Vietnam Border and TL clearance

The mammal is a large animal and easily detected by a hunter and its capacity of moving is difficult and needs habitat connectivity. Searching animals with assistance from domestic dogs will exaggerate the level of expiration of many species particularly tortoises. Only Phou Kounking (SB3 and SB4) are fairly protected by traditional belief as sacred place and difficult to access due to highly steep slopes. The SB1, SB5 and SB2 received higher threats.

7. CONCLUSIONS

The Survey area holds important wildlife community with a number of fauna and flora species recorded, including some numbers of globally threatened species especially mammal and endemic species for herpetofauna and plants. Although the survey area was not declared as any conservation area, a total of 23 Globally Threatened species were confirmed in the area (14 mammal, 6 reptile, 1 amphibian and 2 plant species).

The target species that were directly confirmed in the field including Northern buff-cheeked Gibbon (*Nomascus annamensis*, EN), Red-shanked Douc Langur (*Pygathrix nemaeus*, CR), Chinese Pangolin (*Manis Pentadactyla*, VU), Sunda Pangolin (*Manis javanicus*, CR), Stump-tailed Macaque (*Macaca arctoides*, VU), Sambar (*Rusa unicolar*, VU), Chinese Serow (*Capricornis milneedwardsii*, VU), Annamite Striped Rabbit (*Negolagus timminsi*, EN), Owston's Civet (*Chrotogale owstoni*, EN), Impressed Tortoise (*Manouria impressa*, VU) and Red River Kriat (*Bungarus slowinskii*, VU). Also, other GT species were confirmed but not on the target species as Serrate Frilled Treefrog (*Kurixalus cf gryllus*, VU), Stump-tailed Macaque (*Macaca arctoides*, VU), Northern Pig-tailed Macaque (*Macaca leonina*, *VU*), Chinese Serow (*Capricornis milneedwardsii*, VU), Sun Bear (*Helarctos malayanus*, VU) and Asiatic Black Bear (*Ursus thibetanus*, VU), Great Hog Badger (*Arctonyx collaris*, VU) and Smooth-coated Otter (*Lutrogale perspicillata*, VU).

Interestingly, apart from GT species there are 48 endemic species were found in the survey blocks, of which 29 first plant records of Laos, 4 first herpetofauna records of Laos, 2 second herpetofauna records of Laos, 10 possible new plant and 3 possible new herp species were defined for possible new species to science for the time being.

In addition, the area is interesting sites for wildlife survey or research, including birds and amphibians, will be SB3 and SB4 (Phou Koungking) as outstanding biodiversity with uniqueness of habitat – Montane Evergreen Forest at up to 1,700 m a.s.l. This hotspot of biodiversity should be legally established as conservation area in the future.

Meanwhile, some incidental records from the mammal, herpetofauna and plant assessment on bird and fish can be found in Annex 8.

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ANNEXES

Annex 1a-1. Summary of plant plot by Survey Block (SB1 – Annamite) based on DAFOR

Site name	Survey	Block 1 Date and Tin	ne 13-15	/7/2021	Botanical S Latitude		Longitud		Monitoring Plot	(ID Numbilot 1-1/1-2/1-3/1-4/1-
						6			Monitoring Plot	A Texture of the second s
Surveyors	Souladeth, P	., Soukhavong, M., Thonpha	ikdy, N., Bo	outtavong, 1.						
Air Temperature ["C]	27	Cloud Cover	0	Rain	0	Wind	0	rief weather descriptio	War	m and hot in the morning
Habitat types present				Disturbed formets	ager Bao Dak Tao	ak, National Protection Area	alang the	border to Vistaam		
		Site and vegetation	descriptio		ilear bair bak rao			sament scores and comm	ents (fire wildlif	e and human activity!
		and and selection				Fire	NA	Wildlife NA		n activity Shifting and cutting we
Louise	nontana au	ergreen forest dominated	bu the fe	mily Lauraceae and Eag		Combined Impact			Paracella	Shirting and tatenty in
Lower	inormality eve	ergreen inreat dominated	by the la	niny Lauraceae and Fage	accare.	lotes on impacts within		and neart Forest locat	ed in the village,	easy to enter and destroy the for
or forest habitat describe	e canopy, uni	derstorey and ground flora		-	41:	10 IV			1.083	
anopy mean height (m)	12	Canopy mean cover (%)	80	Understorey mean heigh	t(m) 4	Inderstorey mean cover (%	20	Herbaceous layer mean	height (m 0.6	erbaceous layer mean cover [
pprox age of canopy (yrs)	60	Bare ground cover (%)	20	Water cover (%)		Vloss Layer mean height (m	0.1	Moss Layer mean cover	r (%) 5	
or other habitats record	overall max a	and mean height of vegeta								
Mean veg height (cm)	120	Max veg height (cm)	300							
Vegetation cover (%)	90	Bare ground cover [%]	10	Water cover (%)	0					
			_	1.0						
	vithin the plo	t that define the habitat typ DAFOR	es and an			DAFOR	_	Specie		DAFOR
Species cronychia pedunculata	_	A		Species Endospermum diadenum		DAFOR		Litsea monopetala	-	0 DAFOR
glaia tomentosa		D		Engelhardtia serrata	6	0		Litsea umbellata		D
Iniphyllum		A		Engelhardtia cf. roxburgh	lana	0		Machilus sp.1		D
nacolosa clarkel		F		Engelhardtia sp.1	11111 C	0		Madhuca pierrei		A
nacolosa griffithil Mast.		A		Exbucklandia tonkinensis	ş	ŏ		Magnolia braianensis		A
porosa yunnanensis		D		Gironniera subaequalis		F		Magnolia sp.1		F
rtocarpus		1		Glochidion eriocarpum		0		Meliosma cambodiana		0
alophyllum pisiferum		F		Glochidion cf. rubrum	1	0		Monoon sp.1		R
innamomum curvifolium		D		Heynea trijuga		0		Nephelium hypoleucum	6	D
lerodendrum cyrtophyllu	m	D		Horsfieldia thorelii		F		Pinus kesiya		0
leyera cf. bokorensis		D		Knema cf. lenta		0		Polyalthia		A
ratoxylum sumatranum		F		Lindera bokorensis		0		Polyosma		0
acrydium elatum		F		Lindera sp.1		F		Pseuduvaria		0
iospyros filipendula		F		Lithocarpus corneus		D		Psydrax		0
iplospora sp.1		F		Lithocarpus garrettianus	8 - C	0		Quercus sp.1		0
iplospora sp.2		F		Lithocarpus pierrei		A		Quercus sp.2		A
aeocarpus dubius		F		Lithocarpus sp.1		A		Schima crenata		D
aeocarpus griffithii		0		Lithocarpus sp.2		0		Sterculia parviflora		D
					a lange and a second	F - Frequent, O - Occasional,	R - Rare.			
					Contraction of the second s	rked in list using *				
				Invasive	species to be ma	rked in list using **				
Photo references										

Species	DAFOR	Species	DAFOR	Species	DAFOR
itewartia laotica	0	Asplenium phyllitidis D. Don	D	Ophiopogon dracaenoides (Baker) Hook.f.	0
Styrax chinensis	0	Pteridium aquilinum (L.) Kuhn	D	Piper	0
Styrax sp.1	0	Selaginella wallichii (Hook, & Grev.) Spring	D	Plectocomia pierreana Becc.	0
Symplocos atriolivacea	D	5milax	D	Smilax glabra Roxb.	0
Symplocos caudata	Ŧ	Alyxia	A	Styrax	0
Syzyglum angkae	0	Diplazium donianum (Mett.) Tardieu	A	Tetrastigma	0
Syzygium antisepticum	A	Fimbristylis	A	Zingiber	Ŕ
Syzygium lineatum	D	Ardisia crenata Sims	F		2.5
Syzyglum syzygioides	F	Cyperus	F		
Syzyglum sp.1	R	Eulalia contorta (Brongn.) Kuntze	F		
Syzyglum sp.2	0	Alpinia	0		
Canthophyllum ellipticum	0	Ardisia gigantifolia Stapf	0		
		Ardisia sp.1	R		
		Aspidistra	0		
		Blastus borneensis Cogn.	0		
		Calophyllum	0		
		Ixora javanica (Blume) DC.	0		
		Lindsaea ensifolia Sw.	0		
		Mapania	0		
		Nephelium hypoleucum Kurz	0		
		DAFOR SCALE: D - Dominant, A - Abundant, F - Free	quent, O - Occasional, R	- Rare.	
		Red list species to be marked in			
		Invasive species to be marked in	A CONCEPTION OF THE OWNER OWNER OF THE OWNER		

Detailed plant plots of the Survey block 1 as below

	y Block 1 Date of	d Time	7/13/2021	Latitude	zal Surveys 752943	Longitude	1719617	Monitoring Plot (ID)	Number	1-1
		and the second se			1.04.040			Monitoring Plot Size		0.1 ha
	, P., Soukhavong, M., T	попрлакоу,	N., Bouttavong, I.				S.			1054595
Air Temperature (*C) 27	Cloud Cover	0	Rain	0	Wind	0	f weather descri	Ø Wa	arm and hot in the morning	
Habitat types present			Disturbed fores	sts near Ban D	ak Taoak, National Protection	Area along t	he border to Vietr	nam		
	Site and veget	ation descrip	ption		Co	ondition asse	assment scores a	nd comments (fire, wild	dlife and human activity)	
					Fire	NA	Wildlife	NA Hu	iman activity Shifting a	nd cutting wo
					Combined impac	t acore	Station of the	A1995 176-1853D	In the second state second second	
Lower mont	ane evergreen fores	t dominate	d by the family Fagaceae		otes on impacts within	the plot and	freart	Forest located in the vi	illage, easy to enter and des	troy the forest
or forest habitat describe canopy, under	rstorey and ground flo	ra			weeks and the					3 641
Canopy mean height (m) 14	Canopy mean cover	80	Understorey mean height (m)	5	Understorey mean cover (%)	30	Herbaceous laye	r mean height (± 0.5	lerbaceous layer mean cove	r (? 15
oprox age of canopy (yrs) 45	Bare ground cover (20	Water cover (%)		Moss Layer mean height (m)	0.1	Moss Layer mea	in cover (%) 4		
r other habitats record overall max and	d mean height of vege	tal						in the second		
Mean veg height (cm) 100	Max veg height (cm	200								
Mean veg height (cm) 100 Vegetation cover (%) 85	Max veg height (cm Bare ground cover [Water cover (%)	0						
Vegetation cover (%) 85	Bare ground cover (15		11.000						
the second se	Bare ground cover (6) 15 types and a		11.000	DAFOR			Species	DAFOR	
Vegetation cover (%) 85 st of dominant species within the plot t	Bare ground cover (that define the habitat	6) 15 types and a	ny notable species (including Red	i Ust/Invasive			s Ardisia gigantifo	A BOOM STORE	DAFOR O	
Vegetation cover (%) 85 st of dominant species within the plot t Species glaia tomentosa Teijsm. & Binn.	Bare ground cover (that define the habitat DAFOR	6) 15 types and a	ny notable species (including Red Species	i List/Invasive hder	DAFOR A			lia Stapf	Subtrative States	
Vegetation cover (%) 85 st of dominant species within the plot t Species glala tomentosa Teijsm. & Binn. cronychia pedunculata (L.) Miq.	Bare ground cover (that define the habitat DAFOR A	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel	l Ust/Invasive hder .Camus) A.Car	DAFOR A		Ardisia gigantifo Asplenium phyll	lia Stapf	0	
Vegetation cover (%) 85 st of dominant species within the plot t Species glaia tomentosa Teijsm. & Binn. cronychia pedunculata (L.) Mig. ntidesma montanum Blume	Bare ground cover (that define the habitat DAFOF A 0	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A Madhuca pierrei (F.N.Williams) Melicope giomerata (Craib) T.G	i List/Invasive hder .Camus) A.Car) H.J.Lam S.Hartley	DAFOЯ А О О О		Ardisia gigantifo Asplenium phyll	lia Stapf Itidis D. Don num (Mett.) Tardieu	0	
Vegetation cover (%) 85 st of dominant species within the plot t Species	Bare ground cover (that define the habitat DAFDF A O O	6) 15 types and a	ny notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A Madhuca pierrei (F.N.Williams)	i List/Invasive hder .Camus) A.Car) H.J.Lam S.Hartley	DAFOЯ А О О О		Ardisia gigantifo Asplenium phyll Diplazium donia	lia Stapf itidis D. Don num (Mett.) Tardieu lume) DC.	0	
Vegetation cover (%) 85 st of dominant species within the plot t Species glaia tomentosa Teijsm. & Binn. cronychia gedunculata (L.) Mig. htidesma montanum Blume alakata baccata (Roxb.) Esser silschmiedia	Bare ground cover (that define the habitat DAFOF A 0 0 0 0 5 5	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A Madhuca pierrei (F.N.Williams) Melicope giomerata (Craib) T.G	i List/Invasive hder .Camus) A.Car) H.J.Lam S.Hartley	DAFOЯ А О О О		Ardisia gigantifo Asplenium phyll Diplazium donia Ixora javanica (B	lia Stapf Itidis D. Don num (Mett.) Tardieu Iume) DC. Jeucum Kurz	0	
Vegetation cover (%) 85 st of dominant species within the plot t Species glala tomentosa Teijsm. & Binn. cronychia pedunculata (L.) Mig. ntidesma montanum Blume alakata baccata (Roxb.) Esser glschmiedia astanopsis acuminatissima (Blume) A.DO	Bare ground cover (that define the habitat DAFOF A 0 0 0 0 5 5	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A Madhuca pierrei (F.N.Williams) Melicope giomerata (Craib) T.G Melicope pteleifolia (Champ, es	i List/Invasive hder .Camus) A.Car) H.J.Lam S.Hartley	DAFOR A 0 0 0 0		Ardisia gigantifo Asplenium phyll Diplazium donia Ixora Javanica (B Nephelium hypo	lia Stapf itidis D. Don num (Mett.) Tardieu lume) DC. Jeucum Kurz rreana Becc.	0 0 0 F	
Vegetation cover (%) 85 st of dominant species within the plot t Species glaia tomentosa Teijsm. & Binn. cronychia pedunculata (L.) Miq. ntidesma montanum Blume alakata baccata (Roxb.) Esser	Bare ground cover (that define the habitat DAFOF A O O O F C C D F	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A Madhuca pierrei (F.N.Williams) Melicope glomerata (Craib) T.G Melicope pteleifolia (Champ. es Monoon sp.1	i List/Invasive hder .Camus) A.Car) H.J.Lam S.Hartley	DAFOR A O O O R		Ardisia gigantifo Asplenium phyll Diplazium donia Ixora javanica (B Nephelium hypo Plectocomia ple Pteridium aquili	lia Stapf itidis D. Don num (Mett.) Tardieu lume) DC. Jeucum Kurz rreana Becc.	0 0 F F 0 0	
Vegetation cover (%) 85 st of dominant species within the plot t Species glaia tomentosa Teijsm. & Binn. cronychia pedunculata (L.) Miq. ntidesma montanum Blume lakata baccata (Roxb.) Esser vischmiedia estanopsis acuminatissima (Blume) A.DO nnamomum curvifolium (Lam.) Nees ndospermum diadenum (Miq.) Airy Shan	Bare ground cover (that define the habitat DAFOF A O O O F C C D F	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A Madhuca pierrei (F.N.Williams) Melicope giomerata (Craib) T.C Melicope giomerata (Craib) T.C Melicope giomerata (Craib) T.C Melicope specielolia (Champ. es Monoon sp.1 Quercus sp.1	i List/Invasive hder Camus) A.Car J H.J.Lam S.Hartley x Benth.} T.G.	DAFOR A O O O R		Ardisia gigantifo Asplenium phyll Diplazium donia Ixora javanica (B Nephelium hypo Plectocomia ple Pteridium aquili	lia Stapf itidis D. Don num (Mett.) Tardieu lume) DC. keucum Kurz rreana Becc. num (L.) Kuhn chil (Hook. & Grev.) Spr	0 0 F F 0 0	
Vegetation cover (%) 85 st of dominant species within the plot i Species glala tomentosa Teijsm. & Binn. rronychia pedunculata (L.) Mig. ntidesma montanum Blume ilakata baccata (Roxb.) Esser vilschmiedia estanopsis acuminatissima (Blume) A.DC nnamomum curvifolium (Lam.) Nees idospermum diadenum (Mig.) Airy Shar ronniera subaequalis Planch.	Bare ground cover (that define the habitat DAFOS A O O O F C C D F W F	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A Madhuca pierrei (F.N.Williams) Melicope glomerata (Craib) T.G Melicope glomerata (Craib) T.G	hder .Camus) A.Car) H.J.Lam S.Hartley x Benth.) T.G. Don	DAFOR A O O O R		Ardisia gigantifo Asplenium phyll Diplazium donia txora javanica (B Nephelium hypo Plectocomia ple Pteridium aquili Selaginella wallia	lia Stapf itidis D. Don num (Mett.) Tardieu lume) DC. keucum Kurz rreana Becc. num (L.) Kuhn chil (Hook. & Grev.) Spr	0 0 F F 0 0	
Vegetation cover (%) 85 st of dominant species within the plot t Species glala tomentosa Teijsm. & Binn. cronychia pedunculata (L.) Mig. ntidexma montanum Blume alakata baccata (Roxb.) Esser rilschmiedia astanopsis acuminatissima (Blume) A.DO mamomum curvifolium (Lam.) Nees	Bare ground cover (that define the habitat DAFOR A O O O F C C D F W F O O O O O O O O O O O O O	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A. Madhuca pierrei (F.N.Williams) Melicope giomerata (Craib) T.G Melicope ptelefolia (Champ. es Monoon sp.1 Quercus sp.1 Sterculia parviflora Roxb. Symplocos caudata Wall. ex G.)	hder .Camus) A.Car) H.J.Lam S.Hartley x Benth.) T.G. Don	DAFOR A A O O O C C C C C C C C C C C C C C C		Ardisia gigantifo Asplenium phyll Diplazium donia Ixora javanica (B Nephelium hypo Plectocomia pie Pteridium aquili Selaginella walili Smilax glabra Ro	lia Stapf itidis D. Don num (Mett.) Tardieu lume) DC. keucum Kurz rreana Becc. num (L.) Kuhn chil (Hook. & Grev.) Spr	0 0 F F 0 0 0 F	
Vegetation cover (%) 85 st of dominant species within the plot t Species glaia tomentosa Teijsm. & Binn. cronychia pedunculata (L.) Mig. ntidesma montanum Blume alakata baccata (Roxb.) Esser vilschmiedia astanopsis acuminatissima (Blume) A.DC nnamomum curvifolium (Lam.) Nees adospermum diadenum (Mig.) Airy Shaw ronniera subaequalis Planch. omphandra javanica (Blume) Valeton	Bare ground cover (that define the habitat DAFDF A 0 0 0 0 0 0 0 0 0 0 0 0 0	6) 15 types and a	my notable species (including Red Species Uthocarpus corneus (Lour.) Rel Uthocarpus pierrei (Hickel & A. Madhuca pierrei (F.N.Williams) Melicope giomerata (Craib) T.G Melicope ptelefolia (Champ. es Monoon sp.1 Quercus sp.1 Sterculia parviflora Roxb. Symplocos caudata Wall. ex G.)	hder .Camus) A.Car) H.J.Lam S.Hartley x Benth.) T.G. Don	DAFOR A A O O O C C C C C C C C C C C C C C C		Ardisia gigantifo Asplenium phyll Diplazium donia Ixora javanica (B Nephelium hypo Plectocomia pie Pteridium aquili Selaginella walili Smilax glabra Ro Tetrastigma	lia Stapf itidis D. Don num (Mett.) Tardieu lume) DC. keucum Kurz rreana Becc. num (L.) Kuhn chil (Hook. & Grev.) Spr	0 0 F F 0 0 0 F	

17		20		_	·• ·· ·· //		cel Surveys					_
Site name	Survey B	lock 1	Date and Ti	nie.	7/13/2021	Latitude	752607	Longitude	1718678	Monitoring Piot (ID		2
Surveyors Si	ouladeth, P.	Soukhavong.	M., Thonp	hakdy, N	, Bouttavong, T.					Monitoring Plot Siz		na
Air Temperature ("C)	27	Cloud Co	ver	0	Rain	0	Wind	0	if weather descrip		Warm and hot in the morning	
Habitat types present					Disturbed fore	sts near Ban D	ak Taoak, National Protection A	Area along ti	e border to Vietna	am		
		Site and	vegetation	descript	tion		6	ondition ass	essment scores an	nd comments (fire, wi	Idlife and human activity)	
				Contraction of the			Fire	NA	Wildlife		iuman activity Shifting and	cutting wo
							Combined Impact	t score	2			recent and the
Low	ver montan	e evergreen	forest do	minated	by the family Fagaceae		lates on impacts within	the plot and	Inearb	Forest located in the	village, easy to enter and destro	the forest
r forest habitat describe cano;	py, understo	erey and groun	vd flora									
Canopy mean height (m)	14	anopy mean o	cover (%)	85	Understorey mean height (m)	3	Understorey mean cover [%]	25	Herbaceous laye	r mean height (n 0.5	lerbaceous layer mean cover (20
Approx age of canopy (yrs)	60	Bare ground or	aver (%)	15	Water cover (%)		Moss Layer mean height (m)	0.1	Moss Layer mean	n cover (%) 4		
r other habitats record overall	max and m	ean height of	vegetati						2			
Mean veg height (cm)	150	Max veg heig	ht (cm)	340								
Vegetation cover [%]	90	Bare ground or	over (%)	10	Water cover [%]	0						
Manager and Annals and Annals - 1	100			10.00								-
	he plot that			s and any	notable species (including Red L	ist/Invasive)				and particular in		
Species			DAFOR		Species	0.	DAFOR		5	pecies	DAFOR	
thocarpus corneus (Lour.) Rehd	er		D		Lithocarpus corneus (Lour.) Reh	der	D		-		-	
nacolosa clarkel Pierre nacolosa griffithii Mast.			- C 2		Litsea umbellata (Lour.) Merr. Magnolia braianensis (Gagnep.	(Field)	A 0					
			A		Magnolia pratanensis (Gagnep. Magnolia sp.1	Highan.	0				-	
rtocarpus alophyllum pisiferum Planch, &	Triana		A		Meliosma cambodiana Pierre		0				-	
nnamomum javanicum Blume	TT NATING		A		Schima crenata Korth.		A					
plospora sp.1			6		Sterculia parvifiora Roxb.		D					
aeocarpus griffithil (Wight) A.G	ray		0		Stewartia laotica (Gagnep.) J.Li	& T.I. Minz	0					
gelhardtia serrata Blume			0		Symplocos atriolivacea Merr. &		A					
geihardtia sp.2			F.		Symplocos caudata Wall, ex G.I	the state of the second s	A					
bucklandia tonkinensis (Lecom	te) H.T.Cha		F		Syzygium angkae (Craib) Chant	and the second se	0		-		-	
ochidion eriocarpum Champ. e	and the second se		0									
orsfieldia thorelii Lecomte			0									
tsea monopetala (Roxb.) Pers.			F									
					Red I	st species to b	dant, F - Frequent, O - Occasion be marked in list using * e marked in list using **	ial, R - Rare.				

		at it a large a	-	-110-11	and the second s	nical Surveys	1999-1999 - 1999-1999-1999-1999-1999-19	1		-			<u> </u>
Site name	Survey	Block 1 Date and	lime	7/14/	2021 Latitude		52318	Longitude	1717523	Conceptual and the local division of the loc	Plot (ID Number)	1-3	
Surveyors So	ouladeth,	P., Soukhavong, M., Tho	nphakdy,	N., Bouttavong, T.						Monitoring	Plot Size	0.1	14
Air Temperature (°C)	27	Cloud Cover	0	Rein	0		Wind	0	d weather descr	lp .	Warm and ho	t in the morning	
Habitat types present		75		Disturbed	forests near Ban	Dak Taoak, Nat	ional Protection A	Area along t	the border to Viet	nam			
		Site and vegetati	on descrit	otion			Co.	edition ass	essment scores a	nd comments i	fire, wildlife and hu	man activity!	
		And in the Local Division of the Local Divis		dub / r			Fire	NA	Wildlife	NA	Human activit	The second s	utting wo
							Combined Impect	score	20. 2				1
Lower monta	ane ever	green forest dominate	d by the	family Lauraceae and My	rtaceae	otes c	n impacts within	the plot an	d nearb	Forest located	in the village, easy 1	to enter and destroy	the forest
or forest habitat describe canop	py, under	storey and ground flora											
Canopy mean height (m)	13	Canopy mean cover (%)	70	Understorey mean heigh	it (m) 3	Understore	y mean cover (%)	25	Herbaceous laye	er mean height	1 0.5 Inchaceous	layer mean cover (9	10
Approx age of canopy (yrs)	65	Bare ground cover (%)	30	Water cover (%)		Moss Layer	mean height (m)	0.1	Moss Layer mea	in cover (%)	10		
or other habitats record overall	I max and	mean height of vegeta							2		0. H.		
Mean veg height (cm)	80	Max veg height (cm)	250										
Vegetation cover (%)	90	Bare ground cover (%)	10	Water cover (%)	0								
	T	Service of the servic		Physics and the second s	100								
st of dominant species within t	the plot ti		pes and a			/e)							
Species		DAFOR		Specie	11		DAFOR			ipecies	1	DAFOR	
iospyros filipendula Pierre ex Le	comte	0		Elaeocarpus dublus DC.			0						
Ironniera subaequalis Planch.		0		Goniothalamus tamirens	they want any lot of the other second descent factors	20	F						
thocarpus corneus (Lour.) Rehd	ler	0		Medinilla septentrionalis	(W.W.5m.) H.L.U		0						
fachilus sp.1		D		Polyaithia parviflora Ridl.		_	0						
tagnolia braianensis (Gagnep.) F	and the section of th			Prunus arborea (Blume)	COMPANY AND	_	F						
ist of dominant species within t	the plot t		pes and a			re)	(m. 17. 181 - 1			a			
Species		DAFOR	0002790	Specie	18	110	DAFOR			ipecies		DAFOR	
iospyros filipendula Pierre ex Le	comte	0		Elaeocarpus dublus DC.			0						
ironniera subaequalis Planch.		0		Goniothalamus tamirens	and the second second and framework the second se	se	F						
thocarpus corneus (Lour.) Rehd	ier	0		Medinilla septentrionalis	or the second		0						
Aachilus sp.1		D		Polyalthia parviflora Ridl.			0						
fagnolia braianensis (Gagnep.) F	FiglarMag			Prunus arborea (Blume) I		_	F						
lephelium hypoleucum Kurz		0		Xanthophyllum ellipticum	n Korth, ex Miq.		0						
seuduvaria		0											
luercus sp.1		A		-					-				
chima crenata Korth.		A		-		-			-				
tyrax chinensis Hu & 5.Ye Liang		0		-									
tyrax sp.1	-	0		-					-				
mplocos atriolivacea Merr. & C	unum ex H	0 R				-							
yzygium sp.1 (big lvs)		D							-				
yzygium antisepticum yzygium syzygioides (Miq.) Mer													
AckRonal AACARiganes (Muld 1 Mill	T. OLLANI,	1 A		diction property internet	a constant	1		10.000					
					Dominant, A - Abo Red list species to nvasive species to	be marked in	list using *	ual, R - Rare					

							al Surveys				- <u>19</u> - 19		
Site name	Survey	Block 1	Date and Tir	me	7/14/2021	Latitude	751395	Longitude	1717920	Monitoring Pla		1-4	
Surveyors	Souladeth,	P., Soukhavon	g. M., Thonpi	hakdy, N.	Bouttavong, T.					Monitoring Pla	tSize	0.1 ha	
Air Temperature ("C)	27	Cloud (Cover	0	Rain	0	Wind	0	rf weather descr	P	Warm and hot i	n the morning	
Habitat types present		50°	517		Disturbed fore	sts near Ban D	ak Taoak, National Protection /	Area along ti	he border to Vietn	am		93	
		Site ar	nd vegetation	n descript	tion			ondition as	essment scores a	ind comments (fir	e, wildlife and hum	an activity)	
							Fire Combined impact	NA t score	Wildlife	NA	Human activity	Shifting and cut	ting woo
Lo	wer mont	ane evergree	n forest dor	minated	by the family Lauraceae		aotes on impacts within	the plot an	f mearts	Forest located in	the village, easy to	enter and destroy th	e forest
or forest habitat describe can		CARDING STORY OF BALLS	CONTRACTOR OF A DESCRIPTION OF				1				<u></u>		
Canopy mean height (m)	15	Canopy mean	And in the local division of the local divis	85	Understorey mean height (m)	3	Understorey mean cover (%)	40	Property and the second second second second		0.4 ferbaceous la	yer mean cover (%	35
Approx age of canopy (yrs)	-45	Bare ground	and some state of the local division of the	15	Water cover (%)	1	Moss Layer mean height (m)	0.1	Moss Layer mea	in caver (%)	5		_
r other habitats record over	Construction of the second	and the second se	and the second se	0.50	_								
Mean veg height (cm) Vegetation cover (%)	180	Max veg he	the second se	250	Water cover (%)	0							
vegetation cover (%)	95	Bars ground	Cover (m)	5.	water cover [%]								
st of dominant species within	the plot th	at define the	habitat types	s and any	notable species (including Red Lis	t/Invasive)		-					
5pecies			DAFOR		-Species		DAFOR		3	Species	i i	DAFOR	
cronychla sp.1		11	0		Heptapleurum cambodiana Yaha		0		2				
glaia tomentosa Teijsm. & Bin	in.		0		Syzygium lineatum (DC.) Merr. 8	k L.M. Perry	0						
nacolosa griffithii Mast.			0		Syzygium sp.2		D						
rtocarpus			0		Dacrydium elatum (Roxb.) Wall.		0						
eyera sp.1	202. 11	1	D		Diospyros filipendula Pierre ex L	and the second se	F						
ratoxylum sumatranum (Jack)	Blume	1	0		Medinilla septentrionalis (W.W.	Sm.) H.L.Li	0		1				
acrydium elatum (Roxb.) Wall	. ex Hook.		F		Memecylon		0						
aeocarpus dubius DC.			0										
ngelhardtia sp.2			0										
ironnlera subaequalis Planch.			0						_				
omphia serrata (Gaertn.) Kani	the second s		0										
thocarpus garrettianus (Craib	A.Camus		0										
thocarpus sp.1			D						-				
fagnolia sp.1			F										
sydrax sp.1			F				· · · · · · · · · · · · · · · · · · ·		1				
					Red li	st species to l	dant, F - Frequent, O - Occasion be marked in list using * be marked in list using **	nal, R - Rare.					

W.							nical Surveys	_		18		14	
Site name	Survey	Block 1 Date	e and T	inte .	7/15/2021	Latitude	751734	Longitude	1717636	Monitoring Plot		1-5	
Surveyors S	ouladeth, P	, Soukhavong, M	, Thon	phakdy, I	N., Bouttavong, T.					Monitoring Plot	5124	0.1 ha	<u>8</u>
Air Temperature (*C)	30	Cloud Cover	æ	0	Rain	0	Wind	0	f weather descr	ip.	Warm and hot in	the morning	
Habitat types present			100		Disturbed fores	sts near Ban	Dak Taoak, National Protection	Area along t	he border to Viet	nam			
		Site and ve	retatio	n descrip	tion		6	ndition asse	issment scores ar	nd comments (fire,	wildlife and huma	n activity)	
							Fire	NA.	Wildlife	NA	Human activity	Shifting and cut	ting woo
							Combined Impac	t score		a trace in the trace	101510111155		
Low	er montan	e evergreen for	est do	minated	by the family Lauraceae								
							otes on impacts within	the plot and	1 neart	Forest located in th	e village, easy to e	nter and destroy th	e forest
or forest habitat describe cano	py, unders	torey and ground	flora				11 m			M			
Canopy mean height (m)		Canopy mean cov		90	Understorey mean height (m)	5	Understorey mean cover [%]	60		er mean height (🚺	4 erbaceous lay	er mean cover [?	40
Approx age of canopy (yrs)		Bare ground cov	-	10	Water cover (%)	8	Moss Layer mean height (m)	0.1	Moss Layer mea	an cover (%)	5		
or other habitats record overa	and the second	and a second second second second second	and the second se										
Mean veg height (cm)	100	Max veg height	A DISCOUTING TO	250									
Vegetation cover (%)	90	Bare ground cov	ne (96)	10	Water cover (%)	0							
THE PROPERTY OF THE PROPERTY OF	THE OWNER WHEN		-	0000079	ny notable species (including Re-	CONTRACTOR OF	-						
st of dominant species within Species	the plot th		iitat tyj FOR	pes and a	ny notable species (including Ke Species	d List/Invasi	DAFOR	_		species		DAFOR	
dala tomentosa Teijsm, & Binr	i		9		Polyosma sp.1		A				11	Dia Gri	
porosa sp.1)		Polyosma sp.2		0						
alophyllum pisiferum Planch. 8	k Triana		0		Syzygium antisepticum (Blume	e) Merr. & L.	M. F						
arallia brachiata (Lour.) Merr.	0.00 - 0.00 - 0.00)	0		Syzygium sp.2	area a construction a s	F						
astanopsis acuminatissima (Bl	ume) A.DC		9		Unknown_Phyllanthaceae		0						
nnamomum javanicum Blurne)		Xanthophyllum ellipticum Korti	h. es Miq.	0						
crycarpus imbricatus (Blume) (fe Laub.)										
plospora sp.2	A+4.5	()										
dospermum diadenum (Mig.) /	Airy Shaw	()										
iema sp.1	0.14 - 1	(5							\$Y			
ndera cf. bokorense Yahara & Ti	agane		2										
hocarpus sp.2)										
adhuca pierrei (F.N.Williams) H	J.Lam)										
lagnolia cf. braianensis (Gagnep	.) Figlar	(3										
eolitsea sp.1		1	1										
							indunt, F - Frequent, O - Occasion	nal, R - Rare.			201		
							be marked in list using *						
					Invasi	ve species to	be marked in list using **						

W			1	400		Botan	cal Surveys			w1			
Site name	Survey B	Nock 1	Date and Ti	me	7/16/2021	Latitude	752607	Longitude	1719693	Monitoring Plot (1-6	2
Surveyors	Souladeth, P.,	5oukhavong	, M., Thonphi	akdy, N., E	Souttavong, T.					Monitoring Plot S	iae	0.1 h	a
Air Temperature ("C)	30	Cloud	Cover	0	Rain	0	Wind	0	if weather descrip		Warm and hot in th	e morning	
Habitat types present			85		Disturbed fore	sts near Ban	Dak Taoak, National Protection A	rea along ti	e border to Vietnar	n			
		Site a	nd vegetation	descript	lion		6	odition as	essment scores an	d comments lfire, w	vildlife and human	activity	_
		and the local division of the local division					Fire	NA	Wildlife		Human activity	Shifting and cut	tting woo
							Combined impact	score	S			UNCC.	22.910
Lov	wer montan	e evergree	n forest dor	minated	by the family Lauraceae		Notes on impacts within	the plot and	estantay.	Forest located in th	e village, easy to en	ter and destroy th	e forest
r forest habitat describe can	iopy, underst	torey and gr	ound flore				No.						
Canopy mean height (m)		lanopy mea		70	Understorey mean height (m)	2	Understorey mean cover (%)	40		mean height (n D	4 lerbaceous layer	mean cover (%	35
Approx age of sanopy (yrs)		Bare ground		30	Water cover (%)		Moss Layer mean height (m)	0.1	Moss Layer mean	cover (%)	8		
or other habitats record over	all max and n	Concerning and the second s	the local division of	_							55		
Mean veg height (cm)	90	Man veg h	NAME AND ADDRESS OF TAXABLE PARTY.	180		_		_				_	
Vegetation cover (%)	85	Bare ground	f cover (%)	15	Water cover (%)	0		_					
st of dominant species within	the plot the	t define the	a habitat typ	es and an	y notable species (including Red I	List/Invasive)							
Species	-	1	DAFOR		Species		DAFOR		5	pecies	1	DAFOR	
innamomum javanicum Blume		2	F								3		
erodendrum cyrtophyllum Turc	2.	_	0										
eyera sp.1		-	0		- 5								
ndera sp.1			A										
thocarpus corneus (Lour.) Reho			0		5				-		-		
thocarpus pierrei (Hickel & A.C	Camus) A.Car		A		1								
tsea umbellata (Lour.) Merr.			A						-		-		
ladhuca pierrei (F.N.Williams)	H.J.Lam		0						-				
lonoon sp.2			0										
eolitsea zeylanica (Nees & T. I	Nees) Merr.		A						-		-		
ephelium hypoleucum Kurz			D										
olyalthia sp.1		-	0										
eptapleurum cambodiana Yaha	ara & Tagane		A						-		_		
nknown_Euphorbiaceae			0						-		-		
					Red lis	t species to	dant, F - Frequent, O - Occasion be marked in list using * be marked in list using **	<mark>il, R</mark> - Rare.			21 - 12		

No	Scientific Name	Local Name	Family	IUCN Red List
1	Acronychia pedunculata	ເປົ້າແຂບທອງ (Pao khaeb thong)	Rutaceae	
2	Aglaia tomentosa	ຍິງກະສັງ (Gnong kasang)	Meliaceae	
3	Alniphyllum	ຍານດົງ (Gnan dong)	Styracaceae	
4	Anacolosa clarkei	ແຄະ (Khae)	Olacaceae	
5	Anacolosa griffithii Mast.	ແຊະ (Sae)	Olacaceae	
6	Aporosa yunnanensis	ເໜືອດໃບແຫຼມ (Maud bai-laem)	Phyllanthaceae	
7	Artocarpus	ມີ້ນ່ຳ (Mee pa)	Moraceae	
8	Calophyllum pisiferum	ກະທຶງ (Ka thueng)	Calophyllaceae	
9	Carallia brachiata	ບົ້ງນັ່ງ (Bong nang)	Rhizophoraceae	
10	Castanopsis acuminatissima	ກໍ່ເດືອຍ (Kor deau)	Fagaceae	
10	-	ຈວງ (Juang)	-	
	Cinnamomum curvifolium		Lauraceae	
12	Clerodendrum cyrtophyllum	ພວງນີ້ (Phoung phee)	Lamiaceae	
13	Cleyera cf. bokorensis	່ໃກ໋ (Kaii)	Pentaphylacaceae	
14	Cratoxylum sumatranum	ຕິ້ Tia₂v(/)	Hypericaceae	
15	Dacrydium elatum	ຮັ້ງຫອມ (Hinh hom)	Podocarpaceae	
16	Diospyros filipendula	ຄັນຈັK9bma(njong)	Ebenaceae	
17	Diplospora sp.1	ສ້ຽນ (Sean)	Rubiaceae	
18	Diplospora sp.2	ສ້ຽນ (Sean)	Rubiaceae	
19 20	Elaeocarpus dubius	ແຊງແຊວ (Saeng seo) ມຸນ (Moun)	Elaeocarpaceae	
20	Elaeocarpus griffithii Endospermum diadenum	ມມ (Moull) ຕະພິ ງີ (phong)	Elaeocarpaceae Euphorbiaceae	
21	Engelhardtia serrata	ພ່າວຂຽວໜາມ (Phao khiew)	Juglandraceae	
22	Engelhardtia cf. roxburghiana	ພ່າວຂຽວ (Phao khiew)	Juglandraceae	
23	Engelhardtia sp.1	ພາວ (Phao)	Juglandraceae	
25	Exbucklandia tonkinensis	ໂພກາບລາງ (Pho kablang)	Hamamelidaceae	
26	Gironniera subaequalis	ຫາງແມງໄອ່ (Hang maeng-ai)	Cannabaceae	
27	Glochidion eriocarpum	ຂຶ້ມ ແKhee mod)	Phyllanthaceae	
28	Glochidion cf. rubrum	ແດງນ້ຳ (daeng nam)	Phyllanthaceae	
29	Gomphia serrata	ຊ້າງນ້າວ (Sang nao)	Ochnaceae	
30	Heptapleurum cambodianum	ຕ້າງ (Tang)	Araliaceae	
31	Heynea trijuga	ໝາກແຟນ (Mak fane)	Meliaceae	
32	Horsfieldia thorelii	ເລື ອດນ໌ L ອລ(d nok)	Myristicaceae	
33	Knema cf. lenta	ເລື່ອດຄວາຢ (aud khouay)	Myristicaceae	
34	Lindera bokorensis	ບົງບໍກໍ (Bong bokor)	Lauraceae	
35	Lindera sp.1	ບິງ (Bong)	Lauraceae	
36	Lithocarpus corneus	ກໍ່ຫຼັ K ໙ r (Rab)	Fagaceae	
37	Lithocarpus garrettianus	ກໍ່ແປັນ (Kor Pane)	Fagaceae	
38	Lithocarpus pierrei	ກໍ່ກັກ (Kor Kak)	Fagaceae	
39	Lithocarpus sp.1	ກໍ Kor)	Fagaceae	
40	Lithocarpus sp.2	ກໍ Kor)	Fagaceae	
41	Litsea monopetala	ໜີຫອມ (Mee hom)	Lauraceae	
42	Litsea umbellata	ບົງຮ້າງ (Bong hang)	Lauraceae	
43	Machilus sp.1	ຕອງຫອມ (Tong Hom)	Lauraceae	
44	Madhuca pierrei	ລະມຸດຊາງ (Lamout sang)	Sapotaceae	
45	Magnolia braianensis	ຈຳປີປ່າ (Champi Pa)	Magnoliaceae	
46	Magnolia sp.1	ຈຳປີປ່າ (Champi Pa)	Magnoliaceae	

Annex 1a-2. Summary of tree species list in the Survey Block 1

47	Meliosma cambodiana	ໝາກກອກພູ (Mak kok phou)	Sabiaceae
48	Monoon sp.1	ຢາງໂອນ (Yang oun)	Annonaceae
49	Neolitsea zeylanica sp.1	ໄຟເດືອນຫ້າ (Fai deuanha)	Lauraceae
50	Neolitsea sp.1	ໄຟເດືອນຫ້າ (Fai deuanha)	Lauraceae
51	Nephelium hypoleucum	ຄໍແລນ (Kho lane)	Sapindaceae
52	Pinus kesiya	ແປກສາມໃບ (Peak sambai)	Pinaceae
53	Polyalthia	ນໍ້າເຕົ້າກົກ (Namtao kok)	Annonaceae
54	Polyosma	ເໝືອດໂລດ (Maud lod)	Escalloniaceae
55	Pseuduvaria	ກ້ວຍເຫງັ ນຕົ້ນK (uay ngen ton)	Annonaceae
56	Psydrax	ກະປະ (Ka-pa)	Rubiaceae
57	Quercus sp.1	ກໍ່ (Kor)	Fagaceae
58	Quercus sp.2	ກໍ່ (Kor)	Fagaceae
59	Schima crenata	ຄາຍໂສ້ (Khai Soh)	Theaceae
60	Sterculia parviflora	ປໍໃບໃຫ່ຍ (Por baiyai)	Malvaceae
61	Stewartia laotica	ປໍເຫືອງລາວ (Por huang lao)	Theaceae
62	Styrax chinensis	ຍານຈີນ (Gnan chin)	Styracaceae
63	Styrax sp.1	ຍານ (Gnan)	Styracaceae
64	Symplocos atriolivacea	ເໝືອດຄອມ (Maud khom)	Symplocaceae
65	Symplocos caudata	ເໝືອດຄອມນ້ອຍ (Maud khom noy)	Symplocaceae
66	Syzygium angkae	ຫວ້າກາ (Wha ka)	Myrtaceae
67	Syzygium antisepticum	ສະເມັກແດງ (Samek deang)	Myrtaceae
68	Syzygium lineatum	ຫວ້າຈ່ອຍ (Wha joi)	Myrtaceae
69	Syzygium syzygioides	ຫວ້າຢ່ອງ (Wha yong)	Myrtaceae
70	Syzygium sp.1	ຫວ້າ (Wha)	Myrtaceae
71	Syzygium sp.2	ຫວ້າ (Wha)	Myrtaceae
72	Xanthophyllum ellipticum	ແສງດົງ (Seng dong)	Polygalaceae

Annex 1b-1. Summary of plant plot by Survey Block (SB2 – Annamite)

Site name	Sixty	ey Block 2 Etate and	Time 16-13/	7/2021	Latitude	9777	Longitude	G	Monitoring Plot (IC		Flot 2-1/2-2/2-3/2-4/2	2-5/2-1
Surveyors.	Souladeth, P., Souk	havong, M., Thonphakdy, N., Bouttaw	ong, T.						Monitoring Plot Siz	*	0.6 ha	
Air Temperature (*C)	-27	Cloud Cover	0	Itain	8	Wind	0	Brief weather description		We'm and ho	in the morning	_
Habitat types present.					Underconstructio	n road from the international borde	r to Vietnam					
	14.	Site and vegetation	odighteb i				Condition	assessment acores and commun	s (fire, wildlife and h	iman activity	12:	
	Lower montane evergreen forest dominated by the family Fagaceae and Lauraceae					(See	NA	withite N	A: Huma	e activity	Shifting and outting	wood
									new road will be caused high impacts to the habitat and rare trees (e.g. D ne (Pinus datatensis) were recently cut-down during the road construction			
r forest habitat describe can	opy, understancy ar	ad ground flora		-16		10.00		Pid his	in transferring were set	Contrar and	instanting ing route contain	199714
Canopy mean height (m)	14	Canopy mean cover [%]	85	Understorey mean height (m)	2	Understoney mean cover (%)	20	Herbacous layer mean height (n	0.5	Merbaceore	us layer mean cover [%]	1
Appene age of camopy (yrs)	80	Hare ground cover (%)	15	Water cover (N)		Mossi Layer mean beight (m)	0.1	Mains Layer mean cinves (%)	5			
other habitats record over			- Aline			Reading and according						
Mean veg beight (cm)	150	Max weg height (cm)	280			4						
Vegetation cover (%)	85	Bare ground cover [%]	10	Water cover (%)	5					_		_
of dominant species within	the plot that define	the habitat types and any notable s	pecies Encludie	or Red List/Investeral	_							-
Species		DAFOR	Desiring Advicant	Species		DAFOR		Spotles			DAFOR	
er laurinum		0		Fagraea cellanica				Magnolia bratanensia		14	1	_
ingium sp.1		0		Garcinia hanburyi				Meliosma cambodiana				
eodaphne bidoupensis		A		Garcinia pedunculata		D		Memocylon minimifolium			0	_
meslea fragram		0		Gironniera subaegualia		E		Monook jucundum			A	_
iorosa yunnanensis		4		Heptapleurum cambodianum		D		Nagela fleury *			0	
lophyllum dryobalanoides		0		liex excavata		D		Neolitsea tomentosa			D	
stanopsis acuminatissima		A		illicium roseum		A.		Pinus dalatensis *			A	
stanopsis piriformas		D		feora javanica		0		Platea latifolia			0	
ionanthes ramiflorus		0		Lasienthus cf. viridiramilis		0		Podocargus rienifolius			Ó	
namomum javanicum		0		Lindera bokoronse		0		Polyosma dolichocarpa		-	A.:	_
crycarpus imbricatus		E F		Lindera up.1		0		Psythax sp.2			0	
crydium elatum		D		Uthocarpus contexe.		D		Pyrenaria polaneana			F	
ospyros filipendula		0		Lithocarpus pletres		A		Quercus cf. langbianensis			0	
seocarpus dubius		F		Lithocarpus sp.3		A		Quertus thorelir			0	
eocarpus griffithii		0		Lithocarpus sp.4		1		Sarcosperma kontumense			0	
aeocarpus limitaneus		0		Litsea baviensis		0		Schima crenata			0	
dospermum diatienum		0		Litsea umbellata		F		Stercula kisophylla			R	
geftarittia serrata		0		Machilus sp.1		A		Stercula parvifiora			F.(
rya		D		Machilus angustifolia		D		Stewartia laotica			1	
buckfandia		0		Madhuca cochinchinensis		-1		Symplocos anomala	4 1		D	_
	24			Red	list species to be n	t, F - Frequent, O - Occasional, R - Ra narked in fist using * sarked in fist using **	ire.					_

Spertim	DAFOR	Species	DAFOR	Species	EN/OR
mplocos atrioliyacea	F	Lasianthus	D	Bobits	8
mploces dolichotricha	F	Hedyotia	D	Bulbophyllum	R
rygium antisepticum	0	Alysia	B	Cnestis palala (Lour.) Merr.	0
ristroemia gymnanthera	0	Arenga westerhouti Griff.	0	Cyperus	A
ophyllum sp. 1	0	Aspłenium phylitidu D. Don	D	Diplazium donienum (Mett.) Tartleu	A
ophyllum sp.2	0	Cygodium microphyRum (Cav.) R.Br.	0	ixora	0.
ophyllum sp.3	0	Lygodium salicifolium C.Presl	D	Austicia	0
coinium cf. bidoupensis	- R	Polystichum attenuatum Tagawa & Z./wats.	0	Lindsaea ensitalia Swi.	ά.
nthophyllum ellipticum	P	Pothos chinensis (Ital.) Merr.	D	Odontosoria chinemata (L.) 1.5m.	A
		Pteridium aquilinum (L.) Kuhn	D	Oxyspora	A
		Selagineila wallichi (Hook, & Grev.) Spring	0	Pothos gigantipes Buchet ex P.C. Boyce	0
		Vanderboschia auriculata (Blume) Copel.	D	Rhaphidophora	A.
		Aglaonema costatum N.E.Br.	A	Strobilanthes	0
		Amomum	A	Tabernaemontana	A
		Amomum uliginosum K.D. König	Â	Tetraitigma	0
		Angioptaris cf. wangii Ching	A	Woodwardia japotica (L.f.) 5m.	A
		Artisla	A	Zingiber	R
		Argostemma bariense Pierre ex Pit.	A	Zitiphus	0
		Begonia malabarica Lam.	Å	5 ST ST F G	
		Blastus	A		5 K
		DAFOR SCALE: D - Dominant, A - Abundant, F - Fre	quent, O - Occasional, R - Rare.		
		Red list species to be marked a	n list using *		
		invasive species to be marked a			

Detailed plant plots of the Survey block 2 as below

		- M				al Surveys	17	<u> </u>			- N	
Site name	Survey I	Block 2 Date and Ti	me	7/16/2021	Latitude	750740	ongitud	1722688	Monitoring Plot		2-1	
Surveyors	Souladeth, P	, Soukhavong, M., Thonp	hakdy, N	, Bouttavong, T.					Monitoring Plot	Size	0.1 ha	
Air Temperature (°C)	26	Cloud Cover	4	Rain	4	Wind	0	Brief weather description	Clear sky and wa	arm in them oming wind in the af	r, light-heavy rain ar ternoon	nd stro
Habitat types present		0		U	Iderconstruct	ion road from the Internation	al borde	r to Vietnam				
		Site and vegetation	descrip	tion			Condition	n assessment scores and c	omments (fire, wi	idlife and human a	activity)	
						Fire	NA	Wildlife	NA	Human activity	Shifting and cutti	ing wr
						Combined impact i	core	8 w 1	31.0 -		- Mill	1000
Lower mor	ntane everg	green forest dominated	by the	family Fagaceae and Lauraceae	6	es on impacts within t	he plot a			Contraction of the Constant of the	habitat and rare th ut-down during the	0.010.70
r forest habitat describe cano		and the second state of the second									-	
Canopy mean height (m)		Canopy mean cover (%)	85	Understorey mean height (m)	7	Understorey mean cover (%		Herbaceous layer mean h		0.5 Ierbaceous lay	er mean cover (H	10
pprox age of canopy (yrs)	and the second se	Bare ground cover (%)	15	Water cover (%)		Moss Layer mean height (m	0.1	Moss Layer mean cover (N)	5		
r other habitats record overa	ll max and m	Contraction of the second s	-	S								
Mean veg height (cm)	150	Max veg height (cm)	280									
Vegetation cover (%)	85	Bare ground cover (%)	15	Water cover (%)	0							
and dependences in an in a state of the	diversity of the local diversity of the	a define the holder poor	State Party	notable species (including Red Lis	a Balanch ind					_		
Species	tine plot the	DAFOR	101010-003	Species	e/invasive/	DAFOR		Specie			DAFOR	
seodaphne bidoupensis Yahar	a:	0		Quercus thorelil Hickel & A.Cam	us	A				-		
stanopsis acuminatissima (Blu		0		Sterculia parvillora Roxb.		A						
namomum javanicum Blume		0		Syzygium antisepticum (Blume)	Merr. & L.M.F	0						
ospyros filipendula Pierre ex L	ecomte	F		Urophyllum sp.1		0						
eocarpus dubius DC.		0		Xanthophyllum ellipticum Korth	ex Mig.	A						_
gelhardtia serrata Blume		0								-		
arcinia hanburyl Hook.f.		0										
x excavata Pierre		A										
hocarpus pierrei (Hickel & A.C	amus) A.Ca	A		-						-		
sea baviensis Lecomte		D						· · · · · · · · · · · · · · · · · · ·				
		0										
angifera	0.0 D 34 V 3	A										
	12 CK N. NI. N. J											
lonoon jucundum (Pierre) B.Xu	PE-DK INJINILAU	F.										
langifera Ionoon jucundum (Pierre) B.Xu eolitsea tomentosa H.W. Li ephelium hypoleucum Kurz	ie or humunus	F										

Invasive species to be marked in list using **

	Survey B	lock 2 Date and T	and a second	7/16/2021		cal Surveys	and the second second				2.2	
Site name	Survey 8	IDCK 2 Date and T	me	//16/2021	Latitude	750569	ongitud	1723483	Monitoring Plot		2-2 0.1 ha	-
Surveyors So	ouladeth, P.,	Soukhavong, M., Thonp	hakdy, N	, Bouttavong, T.					Monitoring Not-	129	0.1 ha	
Air Temperature (°C)	26	Cloud Cover	3	Rain	20	Wind	- 4	Brief weather descriptio	Clear sky and wa	rm in them orni wind in the	ng, light-heavy rain ar afternoon	nd str
Habitat types present				1	Inderconstruct	ion road from the Internation	al borde	r to Vietnam				
		Site and vegetation	n descrip	tion			Condition	assessment scores and	comments (fire, wi	diffe and human	activity)	
						Fire	NA	Wildlife	NA	Human activity	Shifting and cutt	ting w
						Combined impact a	score	3 2	14.			2002
		S 19976 19							1 11 11	24.4	S	104
Lower mont	tane everg	reen forest dominated	by the	family Fagaceae and Lauracea	ic.	es on impacts within th	a a constanta				he habitat and rare tr cut-down during the	
						es on impacts within th	ne piot at	Datat P	ne (Pinius dalatens	construction)	cut-down during the	road
										construction(
or forest habitat describe canop	sy, understo	orey and ground flora										
Canopy mean height (m)	15 0	anopy mean cover (%)	80	Understorey mean height (m)	7	Understorey mean cover (%	10	Herbaceous layer mean	height (m)	5 Ierbaceous I	ayer mean cover (%	10
Approx age of canopy (yrs)	80	Bare ground cover (%)	20	Water cover (%)	0	Moss Layer mean height (m)	0.1	Moss Layer mean cover	(%)	5		_
r other habitats record overall	max and m	ean height of vegetati-										
Mean veg height (cm)	150	Max veg height (cm)	280									
Vegetation cover (%)	85	Bare ground cover (N)	15	Water cover (%)	0							
1 GBA 19	11				122							
st of dominant species within ti	he plot that	define the habitat type	s and any	notable species (including Red L	ist/invasive)							
Species	and the second second	DAFOR		Species		DAFOR		Spec	63	1	DAFOR	
porosa yunnanensis (Pax & K.Ho	other states in the second states in the	0		Schima crenata Korth.		F		G.Oth	1 Distant		institute central	
chidendron clypearia (Jack) I.C.		F		Symplocos anomala Brand		0						
acrycarpus imbricatus (Blume) d	the second s	D		Syzygium antisepticum (Blume) Merr. & L.M.P							
ecrydium elatum (Roxb.) Wall. e	x Hook.	A		Vaccinium cf. bidoupensis		B						
aeocarpus dubius DC.		0		Xanthophyllum ellipticum Kort	h. ex Miq.	A						
луа		0										
eptapleurum cf. cambodiana Ya	ahara & Ta	A										
ex excavata Pierre		0										
ora javanica (Blume) DC.		0										
ndera sp.1		0										
achilus sp.1		A										
agnolia braianensis (Gagnep.) Fi		A										
lonoon jucundum (Pierre) B.Xue	& R.M.K.	0										
atea latifolia Blume		0										
olyalthia		E.										

Invasive species to be marked in list using **

			- 20-		Bota	inical Surveys						
Site name	Survey	Block 2 Date and Ti	те	7/17/2021	Latitude	751025	Longitude	1722672	Monitoring Plot (2-3	
Surveyors 50	uladeth,	P., Soukhavong, M., Thong	phakdy, 1	N., Bouttavong, T.					Monitoring Plot S	ize	0.1 ha	
Air Temperature ("C)	28	Cloud Cover	4	Rain	2	Wind	4	Brief weather description		warm in them on troog wind in th	ning, light-heavy rai e afternoon	in and
Habitat types present				U.	Inderconstru	ction road from the Internatio	onal border	to Vietnam				
1		Site and vegetation	n descrip	tion		3	Condition a	assessment scores and co	mments (fire, wild	ife and human a	ctivity)	
				103.71		Fire Combined Impac	NA	Wildlife	NA	Human activity	Shifting and cutti	ing wo
Lowe	er monta	ne evergreen forest do	minated	I by the family Fagaceae		ites de impacts within	the plot an				e habitat and rare to ut-down during the	
or forest habitat describe cano		the second se		11								
Canopy mean height (m)		Canopy mean cover (%)	90	Understorey mean height (m)	б	Understorey mean cover (%		Herbaceous layer mean	A COLOR MOTOR AND A DOL NOT THE OWNER.	Contraction of the Contraction of the	er mean cover ()	4
Approx age of canopy (yrs)	80	Bare ground cover (%)	10	Water cover (%)		Moss Layer mean height (m	0.1	Moss Layer mean cover	(96) 4	1. I		
or other habitats record overal	I max and		2010									
Mean veg height (cm)	150	Max veg height (cm)	280							_		_
Vegetation cover (%)	90	Bare ground cover (%)	10	Water cover (%)	0							
		UU		100								
	the plot t		es and a	ny notable species (including Red	List/Invasiv		_		100	_		
Species	15	DAFOR		Species		DAFOR		Speci	01		DAFOR	
seodaphne bidoupensis Yahara		A		Arenga westerhoutii Griff.		0				-		
acrydium elatum (Roxb.) Wall.	ex Hook.	0		Blastus		0						
ironniera subaequalis Planch.		A		bora		F						
eptapleurum cambodiana Yaha	ra & i aga	A		Justicia		0				_		
excavata Pierre		A		Lasianthus		F						
Icium roseum Yahara		A		Pteridium aquilinum (L.) Kuhn		0						
thocarpus corneus (Lour.) Rehd	ler	D		Tetrastigma		0						
ageia fleuryi (Hickel) de Laub.*		0								_		
hima crenata Korth.		F										
erculia parvifiora Roxb.		0										
mplocos anomala Brand		A		2								
mplocos dolichotricha Merr.		A										
zygium antisepticum (Blume) 1		F										
nthophyllum ellipticum Korth.	ex Miq.	0										
				DAFOR SCALE: D. Domi	oant à - Ahu	I Indant, F - Frequent, O - Occas	ional R . P	are		-		

					Bota	nical Surveys						
Site name	Survey	Block 2 Date and T	lme	7/18/2021	Latitude	752726	Longitude	1722359	Monitoring Plot (ID N		2-4	
Surveyors S	Souladeth, P	Soukhavong, M., Thong	ohakdy, N.	, Bouttavong, T.					Monitoring Plot Size		0.1 ha	-
Air Temperature (°C)	30	Cloud Cover	3	Rain	3	Wind	4	Brief weather descriptio	Clear sky and warm	in them orning, lig wind in the aftern		nd stro
Habitat types present					Underconstru	ction road from the internatio	nal border	to Vietnam				
		Site and vegetatio	n descrip	tion			Condition	assessment scores and o	comments (fire, wildlife	and human activit	1	
						Fire Combined impact	NA	Wildlife	NA Hu	uman activity	hifting and cutt	ing we
7/ 52/21 24 13			ominated	by the family Fagaceae		otes on impacts within	the plut an	ALC: NOT A DESCRIPTION OF A DESCRIPTIONO	road will be caused high Pine (Pinius dalatensis) v co			C
r forest habitat describe cano Canopy mean height (m) Approx age of canopy (yrs)	11 80	Canopy mean cover (%) Bare ground cover (%)	90 10	Understorey mean height (m) Water cover (%)	5	Understorey mean cover (%) Moss Layer mean height (m)		Herbaceous layer mean Moss Layer mean cover	TAXABLE INCOME. INCOME.	terbaceous layer r	hean cover (%	4
	and the second second second	Contraction of the second s	350									
Mean veg height (cm) Vegetation cover (%)	200 85	Max veg height (cm) Bare ground cover (%)	350 15	Water cover (%)	0 st/invasive)							
Mean veg halght (cm) Vegetation cover (%) t of dominant species within Species	200 85 the plot the	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR	15	notable species (including Red Lis Species	and some	DAFOR		Spec	cies .		DAFOR	
Mean veg height (cm) Vegetation cover (%) t of dominant species within Species oross yunnancrois (Pax & K.H	200 85 the plot the loffm.] F.P.	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR 0	15	notable species (including Red Lis Species Mellosma cambodiana Pierre	and some	R		Alyxia			F	
Mean veg height (cm) Vegetation cover (%) t of dominant species within Species orosa yunnmensis (Pax 8 K.H stanoptis acuminatissima (Bio	200 85 the plot the toffm.] F.P.J urne) A.DC	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR O F	15	notable species (including Red Lis Species Mellosma cambodiana Pierre Platea latifolia Blume	and some	R		Alyxia Arenga westerhoutii Grif	ff.:		F	
Mean veg halght (cm) Vegetation cover (%) it of dominant species within Species sorosa yunnanensis (Pax & K.H stanopsis acuminatissima (Bio stanopsis piriformis Hickel & A	200 85 the plot the toffm.] F.P.J urne) A.DC	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR O F D	15	notable species (including Red Lie Species Mellosma cambodiana Pierre Platea latifolia Blume Polyosma dolichocarpa Merr.	it/Invasīve)	R F A		Alyxia Arenga westerhoutii Grif Asplenium phyllitidis D. I	ff.:		F F O	
Mean veg height (cm) Vegetation cover (%) It of dominant species within Species orosa yumanensis (Pa & K,H stanopsis acuminatissima (BA stanopsis piriformis Hickel & a ionanthus ramiforus Roxb.	200 85 the plot the loffm.] F.P.I ume] A.DC. A.Camus	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR O F D O O	15	notable species (including Red Lie Species Mellosma cambodiana Pierre Platea latifolia Blume Polyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ge	it/Invasīve)	R F A O		Alyxia Acenga westerhoutii Grif Asplenium phγliitidis D. I Bolbitis	ff.:		F F 0	
Mean veg height (cm) Vegetation cover (%) it of dominant species within Species corosa yunnanensis (Pax & K.H stanopsis acuminatissima (Bit stanopsis piriformis Hickel & J ionanthus ramiflorus Roxb. crydium elatum (Roxb.) Wall.	200 85 the plot the loffm.] F.P.I ume] A.DC. A.Camus	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR O F D O F	15	notable species (including Red Lis Species Mellosma cambodiana Pierre Platea latifolia Blume Polyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre	it/Invasīve)	R F A O R		Alyxia Arenga westerhoutii Grif Asplenium phyllitidis D. I Bolbitis Bulbophyllum	ff.:		F 0 0 F	
Mean veg height (cm) Vegetation cover (%) it of dominant species within Species vorosa yunnanensis (Pax & K.H etanopsis acuminatissima (Bio stanopsis piriformis Hickel & v itonanthus ramiflorus Roxb. vcrydium elatum (Roxb.) Wall, seccarpus dubius DC.	200 85 the plot the loffm.] F.P.J ume) A.DC: A.Camus ex Hook.	Max veg height (cm) Bare ground cover (%) at define the habitat type DAFOR O F D O F O F O O	15	notable species (including Red Lie Species Mellosma cambodiana Pierre Platea latifolis Blume Polyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand	st/linvasive) sgriep. ex Aubr	R F A O R O		Alyxia Arenga westerhoutii Grif Asplenium phyllitidis D. I Bolbitis Bulbophyllum Cyperus	ff.:		F F 0	
Mean veg height (cm) Vegetation cover (%) it of dominant species within Species corosa yunnanerois (Pax & K.H stanopsis acuminatissima (Bio stanopsis piriformis Hickel & A itananthus ramiflorus Roxb. korydium elatum (Roxb.) Wall, seocarpus dublos DC, seocarpus griffithil (Wight) A.G	200 85 the plot the foffm.] F.P.J ume) A.DC: A.Carnus ex Haok. Sray	Max veg height (cm) Bare ground cover (%) at define the habitat type DAFOR O F D O F O F O O F O O	15	notable species (including Red Lie Species Meliosma cambodiana Pierre Platea latifolis Blume Pohyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand Symplocos atriolivacea Merr. &	st/Invasive) Ignep. ex Aubr Chun ex H.L. L	R F A O R O F		Alyxia Arenga westerhoutil Grif Asplenium phyllitidis D. t Bolbitis Bulbophyllum Cyperus Hedyotis	ff.:		F 0 0 F 0 F	
Mean veg height (cm) Vegetation cover (N) t of dominant species within Species orosa yunnanensis (Pax & K.H stanopsis acuminatissima (Bio stanopsis piriformis Hickel & J ionanthus ramiforus Roxb. crydium elatum (Roxb.) Wall, seocarpus dubius DC. seocarpus griffithil (Wight) A/G dospermum diadenum (Miq.)	200 85 the plot the foffm.] F.P.J ume) A.DC: A.Carnus ex Haok. Sray	Max veg height (cm) Bare ground cover (%) tt define the habitat type DAFOR 0 5 0 5 0 0 0 0 0 0 0	15	notable species (including Red Lie Species Mellosma cambodiana Pierre Platea latifolis Blume Polyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand	st/Invasive) Ignep. ex Aubr Chun ex H.L. L	R F A O R O		Alyxia Arenga westerhoutil Grif Asplenium phyllitidis D. 1 Bolbitis Bulbophyllum Cyperus Hedyotis Lasianthus	ff. Don		F 0 0 F 0 F F F	
Mean veg height (cm) Vegetation cover (%) it of dominant species within Species sorosa yunnanensis (Pax & K.H stanopsis acuminatissima (Bio stanopsis piriformis Hickel & A ionanthus ramiforus Roxb. scrydium elatum (Roxb.) Wall, seocarpus dubius DC. seocarpus griffithii (Wight) A.G dospermum diadenum (Miq.) graes cellanica Thunb.	200 85 the plot the foffm. J.F.P.J ame) A.DC: A.Camus ex Hook. Sray Airy Shaw	Max veg height (cm) Bare ground cover (%) of define the habitat type DAFOR 0 F 0 F 0 0 0 0 0 0 0 0	15	notable species (including Red Lie Species Meliosma cambodiana Pierre Platea latifolis Blume Pohyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand Symplocos atriolivacea Merr. &	st/Invasive) Ignep. ex Aubr Chun ex H.L. L	R F A O R O F		Alyxia Arenga westerhoutii Grif Asplenium phyllitidis D. 1 Bolbitis Bulbophyllum Cyperus Hedyotis Lasianthus Lygodium microphyllum	ff. Don		F F 0 F 0 F F F 0	
Mean veg height (cm) Vegetation cover (%) t of dominant species within Species orosa yunnanensis (Pa & K.H. stanopsis acuminatissima (Bk stanopsis piriformis Hickel & A ionanthus ramifiorus Roxb. crydium elatum (Roxb.) Wall, seocarpus dubios DC. seocarpus griffithil (Wight) A.G dospermum diadenum (Miq.) graes cellanica Thunb. rcinia pedunculata Roxb. ex Ba	200 85 the plot the foffm.] F.P.1 ame) A.DC A.Camus ex Hook. Sray Airy Shaw uch-Ham,	Max veg height (cm) Bare ground cover (%) of define the habitat type DAFOR O F D O F O O O O O O O O D	15	notable species (including Red Lie Species Meliosma cambodiana Pierre Platea latifolis Blume Pohyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand Symplocos atriolivacea Merr. &	st/Invasive) Ignep. ex Aubr Chun ex H.L. L	R F A O R O F		Alyxia Arenga westerhoutii Grif Asplenium phyllitidis D. I Bolbitis Bulbophyllum Cyperus Hedyotis Lasianthus Lygodium microphyllum Oxyspora	ff. Don		F 0 0 F 0 F 0 F 0 0 0 0 0 0 0 0 0 0 0 0 0	
Mean veg height (cm) Vegetation cover (%) t of dominant species within Species orosa yunnanensis (Pa & K.H. stanopsis acuminatissima (BA stanopsis acuminatissima (BA stanopsis piriformis Hickel & A ionanthus ramifiorus Roxb. crydium elatum (Roxb.) Wall. reocarpus dubios DC. reocarpus griffithil (Wight) A.G dospermum diadenum (Miq.) graes cellanica Thunb. rcinia pedunculata Roxb. es Bi ptapleurum cf. cambodiana Y.	200 85 the plot the foffm.] F.P.1 ame) A.DC A.Camus ex Hook. Sray Airy Shaw uch-Ham,	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR 0 F D 0 F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15	notable species (including Red Lie Species Meliosma cambodiana Pierre Platea latifolis Blume Pohyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand Symplocos atriolivacea Merr. &	st/Invasive) Ignep. ex Aubr Chun ex H.L. L	R F A O R O F		Alyxia Arenga westerhoutli Grif Asplenium phyllitidis D. I Bolbitis Bulbophyllum Cyperus Hedyotis Lasianthus Lygodium microphyllum Oxyspora Zingiber	ff. Don		F F 0 0 F F F 0 0 F	
Mean veg height (cm) Vegetation cover (%) It of dominant species within Species orosa yunnanensis (Pa & K.H stanopsis acuminatissima (Bk stanopsis acuminatissima (Bk stanopsis piriformis Hickel & a ionanthus ramiflorus Roxb. crydium elatum (Roxb.) Wall, seocarpus dubios DC. seocarpus griffithi (Wight) A.G dospermum diadenum (Miq.) graea cellanica Thunb. rcinia pedunculata Roxb. ex Bi ptapleurum Cf. cambodiana Y. cium roseum Yahara	200 85 Hoffm, J F, P, J ume) A.DC A.Camus ex Hook Gray Alry Shaw uch-Ham, ahara & Ta	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR O F D O C O O O O O O O O O O O O O O O O O	15	notable species (including Red Lie Species Meliosma cambodiana Pierre Platea latifolis Blume Pohyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand Symplocos atriolivacea Merr. &	st/Invasive) Ignep. ex Aubr Chun ex H.L. L	R F A O R O F		Alyxia Arenga westerhoutii Grif Asplenium phyllitidis D. I Bolbitis Bulbophyllum Cyperus Hedyotis Lasianthus Lygodium microphyllum Oxyspora	ff. Don		F 0 0 F 0 F 0 F 0 0 0 0 0 0 0 0 0 0 0 0 0	
Vegetation cover (%) at of dominant species within Species sorosa yunnanensis (Pax & K.H istanopsis acuminatissima (Bio istanopsis acuminatissima (Bio istanopsis piriformis Hickel & J nionanthus ramiflorus Roxb.) Wall, aeocarpus dubius DC, aeocarpus dubius DC, aeocarpus dubius DC, aeocarpus griffithii (Wight) A.G idospermum diadenum (Miq.) graea cellanica Thunb, arcinia pedunculata Roxb, ex Bi sptapleurum C, cambodiana Y. icium roseum Yahara thocarpus pierrel (Hickel & A.C	200 85 Hoffm, J F, P, J ume) A.DC A.Camus ex Hook Gray Alry Shaw uch-Ham, ahara & Ta	Max veg height (cm) Bare ground cover (%) tt define the habitat type DAFOR 0 F 0 0 F 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15	notable species (including Red Lie Species Meliosma cambodiana Pierre Platea latifolis Blume Pohyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand Symplocos atriolivacea Merr. &	st/Invasive) Ignep. ex Aubr Chun ex H.L. L	R F A O R O F		Alyxia Arenga westerhoutli Grif Asplenium phyllitidis D. I Bolbitis Bulbophyllum Cyperus Hedyotis Lasianthus Lygodium microphyllum Oxyspora Zingiber	ff. Don		F F 0 0 F F F 0 0 F	
Mean veg halght (cm) Vegetation cover (%) at of dominant species within Species corosa yunnanensis (Pax & K.H istanopsis acuminatissima (Bk istanopsis acuminatissima (Bk istanopsis piriformis Hickel & a nionanthus ramiflorus Roxb. acrydium elatum (Roxb.) Wall, aeocarpus dublos DC. aeocarpus griffithi (Wight) A.G. dospermum diadenum (Miq.) graea cellanica Thunb. srchia pedunculata Roxb. ex Bi sptapleurum cf. cambodiana Y. icium roseum Yahara	200 85 the plot the hoffm. J. F.P.J ame) A.DC. A.Camus ex Hook. 5ray (Airy Shaw uchHam, (ahara & Taj (amus) A.Ca	Max veg height (cm) Bare ground cover (%) It define the habitat type DAFOR O F D O C O O O O O O O O O O O O O O O O O	15	notable species (including Red Lie Species Meliosma cambodiana Pierre Platea latifolis Blume Pohyosma dolichocarpa Merr. Sarcosperma cf. kontumense Ga Sterculia lissophylla Pierre Symplocos anomala Brand Symplocos atriolivacea Merr. &	st/Invasive) Ignep. ex Aubr Chun ex H.L. L	R F A O R O F		Alyxia Arenga westerhoutli Grif Asplenium phyllitidis D. I Bolbitis Bulbophyllum Cyperus Hedyotis Lasianthus Lygodium microphyllum Oxyspora Zingiber	ff. Don		F F 0 0 F F F 0 0 F F	

					tertriter.	ical Surveys						
Site name	Survey B	Block 2 Date and Ti	me	7/18/2021	Latitude	752836	Longitude	1721953	Monitoring Plot (ID		2-5	
Surveyors Sou	ladeth, P.	Soukhavong, M., Thon	phakdy, N	N., Bouttavong, T.					Monitoring Plot Siz		0.1 ha	_
Air Temperature (°C)	30	Cloud Cover	3	Rain	3	Wind	4	Brief weather description	Clear sky and warm	n in them orning, ligh wind in the afterno		d str
Habitat types present					Underconstruc	tion road from the Internatio	onal border	to Vietnam				
1		Site and vegetation	n descrip	ition			Condition	assessment scores and co	mments (fire, wildlif	fe and human activit	n	
						Fire Combined impact	NA score	WildBfe	NA H	luman activity Sh	ifting and cuttle	nig wo
Lower	r montan	e evergreen forest do	minated	i by the family Fagaceae		ites on impacts within	the plot an		ad will be caused high e (Pinius dalatensis) ci			
r forest habitat describe canopy				2	5 - B	- A-		10 10		Li		
Canopy mean height (m)	14 0	anopy mean cover (%)	90	Understorey mean height (m)	5	Understorey mean cover [%		Herbaceous layer mean l	height (m) 0.5	lerbaceous layer m	ean cover (%	4
Approx age of canopy (yrs)	80	Bare ground cover (%)	10	Water cover (%)	ē - 1	Moss Layer mean height (m)	0.1	Moss Layer mean cover ((%) 5		55.07	
	max and n	mean height of vegetar										
r other habitats record overall n		mean height of vegetar Max veg height (cm)	300									
or other habitats record overall n	150	and the local division of the local division	300 10	Water cover (%)	0							_
or other habitata record overall n Mean veg height (cm) Vegetation cover (%)	150 90	Max veg height (cm) Bare ground cover (%)	10	ny notable species (including Red Species	List/Invasive)	DAFOR		Specie	45		IAFOR	
or other habitats record overall n Mean veg height (cm) Vegetation cover (%) st of dominant species within the	150 90	Max veg height (cm) Bare ground cover (%) at define the habitat typ	10	ny notable species (including Red Species Machilus angustifolia Mas & Yo	List/Invasive) thara	0		Specie	es		IAFOR F	
or other habitats record overall in Mean veg height (cm) Vegetation cover (%) st of dominant species within the Species er Isurinum Hassk meslea fragrans Wall.	150 90 e plot the	Max veg height (cm) Bare ground cover (%) st define the habitat typ DAFOR	10	ny notable species (including Red Species Machilus angustifolia Mas & Ya Madhuca cochinchinensis (Pler	List/Invasive) shara re ex Dubard) i	0		Amomum Ardisia			And a state of the	
r other habitats record overall n Mean veg height (cm) Vegetation cover (%) st of dominant species within the Species er laurinum Hassk. neslea fragrans Wall, sorosa yunnanensis (Pax & K.Hof	150 90. e plot the ffm.) F.P	Max veg height (cm) Bare ground cover (%) at define the habitat typ DAFOR F O O O	10	ny notable species (including Red Species Machilus angustifolia Mas & Yo Madhuca cochinchinensis (Pier Mastixia pentandra subsp. cam	List/Invasive) shara re ex Dubard) I ibodiana (Pierr	O R A		Amomum Ardisia Asplenium phyllitidis D. C			F	
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	Scientific Name	Local Name	Family	IUCN Red List
1	Acer laurinum	ກ່ວມ (Kuam)	Sapindaceae	
2	Alangium sp.1	ສະລິກດົງ (Salik dong)	Cornaceae	
3	Alseodaphne bidoupensis	ີຂີ້ໜຶ່ນຕື້ (Khe m in ton)	Lauraceae	
4	Anneslea fragrans	ແກ້ມອຶ້ນ (Kaem oun)	Pentaphylacaceae	
5		ເໜືອດໃບແຫຼມ (Maud bai-laem)	Phyllanthaceae	
6	Aporosa yunnanensis	ພະອົງ (Pha-ong)		
	Calophyllum dryobalanoides		Calophyllaceae	
7	Castanopsis acuminatissima	ກໍ່ເດືອຍ (Kor deau)	Fagaceae	
8	Castanopsis piriformis	ກໍ່ຂຶ້ໝູ (Kor khemou)	Fagaceae	
9	Chionanthes ramiflorus	ເຂົ້າສານຫຼວງ (Khaosan luang)	Oleaceae	
10	Cinnamomum javanicum	ແຄຫອມ (Khae hom)	Lauraceae	
11	Dacrycarpus imbricatus	ຮັ່ງຂຽວ (Hinh khiew)	Podocarpaceae	
12	Dacrydium elatum	ຮັ້ງຫອມ (Hing hom)	Podocarpaceae	
13	Diospyros filipendula	ຄັນຈ້ອງ (Khan jong)	Ebenaceae	
14	Elaeocarpus dubius	ແຊງແຊວ (Saeng seo)	Elaeocarpaceae	
15	Elaeocarpus griffithii	ມູນ (Moun) ມູນດົງ (Moun dong)	Elaeocarpaceae	
16 17	Elaeocarpus limitaneus		Elaeocarpaceae	
	Endospermum diadenum	ຕະພົງ (Ta phong) ພ່າວຂຽວໜາມ (Phao khiew)	Euphorbiaceae	
18 19	Engelhardtia serrata	ຫາງດີ (Hang dee)	Juglandraceae	
20	Eurya	ໂພກາບລາງ (Pho kablang)	Pentaphylacaceae	
	Exbucklandia	ຕັງນິ (Tang nok)	Hamamelidaceae	
21 22	Fagraea ceilanica	ສົມປ່ ຢ(\$om pong)	Gentianaceae	
22	Garcinia hanburyi	ສົມໂມງ (Som mong)	Clusiaceae	
23	Garcinia pedunculata	ຫາງແມງໄອ່ (Hang maeng-ai)	Clusiaceae	
24	Gironniera subaequalis	ຕ້າງ (Tang)	Cannabaceae	
25	Heptapleurum cambodianum Ilex excavata	ໄປງ (Tang) ໄຂ່ມົດ (Khai mod)	Araliaceae	
20		ຈັນບານ (Chan ban)	Aquifoliaceae Schisandraceae	
27	Illicium roseum	ເຂັມດົງ (Khem dong)	Rubiaceae	
20	Ixora javanica Lasianthus cf. viridiramlis	ຄັນແຮ້ ວດໍ K(hanheo dam)	Rubiaceae	
30	Lindera bokorense	ບົງບໍ ກB(ng bokor)	Lauraceae	
31	Lindera sp.1	ບິງ (Bong)	Lauraceae	
32	Lithocarpus corneus	່ ກໍ່ຫຼັບ (Kor Rab)	Fagaceae	
33	Lithocarpus pierrei	ກໍ່ K or t (ak)	Fagaceae	
34	Lithocarpus sp.3	n Kor	Fagaceae	
35		ບົງຫອມ (Bong hom)		
	Litsea baviensis	ບິງຮ້າງ (Bong hang)	Lauraceae	
36	Litsea umbellata		Lauraceae	
40	Machilus sp.	ຕອງຫອມ (Tong Hom)	Lauraceae	
37	Machilus angustifolia	ຕອງຫອມໃບແຄບ (Tong Hom bai khaeb)	Lauraceae	
38	Madhuca cochinchinensis	ລະມຸດຊາງ (Lamout sang)	Sapotaceae	
39	Magnolia braianensis	ໍຈຳປີປ່າ (Champi Pa)	Magnoliaceae	
40	Mastixia pentandra subsp. cambodiana	ໝາກເຖິນ (Mak thern)	Cornaceae	<u>_</u>
41	Meliosma cambodiana	ໝາກກອກພູ (Mak kok phou)	Sabiaceae	
42	Memecylon minimifolium	ເໜືອດຫຼີ ນດອກນ້ອ(Maud hin dok noy)	Melastomataceae	
42	Memecylon minimifolium Monoon jucundum	ຢາງໂອນ (Yang oun)		
<i>A J</i>	Monoon ulcundum	ວ່າງເອນ (Talig Oull)	Annonceae	

Annex 1b-2. Summary of tree species list in the Survey Block 2

45	Neolitsea tomentosa	ໄຟເດືອນຫ້າຂົນ (Fai deuanha khon)	Lauraceae	
46	Pinus dalatensis var. bidoupensis	ແປກຫ້າໃບ (Peak habai)	Pinaceae	NT
47	Platea latifolia	ມັນໝູ M(an mou)	Icacinaceae	
48	Podocarpus neriifolius	ກະດອງ (Kadong)	Podocarpaceae	
49	Polyosma dolichocarpa	ເໝືອດດົງ (Maud dong)	Escalloniaceae	
50	Psydrax sp.2	ກະປະ (Ka-pa)	Rubiaceae	
51	Pyrenaria poilaneana	ໜ້ຽງດົງ (Miang dong)	Theaceae	
52	Quercus langbianensis	ກໍ່ລັງບຽງ (Kor langbian)	Fagaceae	
53	Quercus thorelii	ກໍ່ດາວ (Kor dao)	Fagaceae	
54	Sarcosperma kontumense	ເໝືອດກອນຕຸມ (Maud hom kontum)	Sapotaceae	
55	Schima crenata	ຄາຍໂສ້ (Khai Soh)	Theaceae	
56	Sterculia lissophylla	ປໍເມືອກ (Por muaek)	Malvaceae	
57	Sterculia parviflora	ປໍໃບໃຫ່ຍ (Por baiyai)	Malvaceae	
58	Stewartia laotica	ປໍເຫືອງລາວ (Por huang lao)	Theaceae	
59	Symplocos anomala	ເໝືອດນ້ ອ(Maud noi)	Symplocaceae	
60	Symplocos atriolivacea	ເໝືອດຄອມ (Maud khom)	Symplocaeae	
61	Symplocos dolichotricha	ເໝືອດຄອມນ້ ອ(Maud khom noy)	Symplocaceae	
62	Syzygium antisepticum	ສະເມັກແດງ (Samek deang)	Myrtaceae	
63	Ternstroemia gymnanthera	ເມືອກ (Mueak)	Pentaphylacaceae	
64	Urophyllum sp.1	ແຂ້ງ (Khaeng)	Rubiaceae	
65	Urophyllum sp.2	ແຂ້ງ (Khaeng)	Rubiaceae	
66	Urophyllum sp.3	ແຂ້ງ (Khaeng)	Rubiaceae	
67	Vaccinium cf. bidoupensis	ພວງໄຂ່ມຸກ (Phouang khaimouk)	Ericaceae	
68	Xanthophyllum ellipticum	ແສງດົງ (Seng dong)	Polygalaceae	

Annex 1c-1. Summary of plant plot by Survey Block (SB3 – Phou Koungking E)

Site name	Sine	Block 3 Date an	11me 23-24/	7/2021	Betanical Latitude		Longitude			ring Plot (ID		1/3-2/3-1/3-4/3-5/3
Surveyors	Souladeth, P., Soukh	evong, M., Thonphakdy, N., Boutta	ivong, T.						Monito	cing Plot Size	Course of the second	0.6 he
Air Temperature (*C)	295	Cloud Cover	6	tale /	5	Wint	7	Brief weather der	cription	Cloud	with light-heavy tail	n and cool
Habitat types present					fo	rest protection near Ban Dak Rem	1					
		Site and vegetation	in description				Conditi	on accessionent scores an	d comments (fire, w	dille and hu	man ectivity)	
						Fire	NA	Wildlife	NA		n activity	Cutting trees
Monta	ine evergreen fore:	st, dense of high trees at footf	ills and sparse	ly of small trees towards the sum	unit	Combined i		9				
						Wotes an im	wacts within the pla	at and rearby	Clear-cutting of yeg	etation for th	e Transmission Lines	throughout the surv
ir forest habitat desnibe cano	opy, understorcy and	ground flora										
Canopy mean height [m]	14	Campy mean cover [%]	90	Diderstorey mean height (m)	5	Understorey mean cover (N)	10	Herbaceous layer mea	n height (m)	1	Herbaceous layer m	cun cover (N) 5
Approx age of callopy (yrs)	70	Bare ground cover (%)	10	Water speer (%)		Missa Legen mean beight (m)	0.2	Most Lever mean cove	rr (%)	10	1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
or other hebitats record overs			- 1945	p state i state i s		United the summer the second						
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t of dominant species within locdes	one poor court activity t	the number types and any notable in DAFOR	interest in the stating	Soeries		DAFOR			Species			AFOR
er lautinum		R)		Pinus kesiya		0		Diplazium donianum I				0
meslea fragrans		F		Rhododendron simsii		A		Nephrolepis conditolit				D
odytes dimidiata		0		Rhodomyrtus tomentosa		R		Polystichum attenuati		1.		0
estanopsis acuminatissima		D		Schima crenata		D		Woodwardia japonici				0
estanopsis clarkei		A:		Semecarpus reticulata		0		Odontosoria chinensi	10.115m.			0
ionenthes sp 1		0		Stewartia laotica	_	0		Pteridium aquillinum	L) Kuhn			0
scrycarpus imbricatus		A		Symplocos caudata		A		Torenia sp				A
ephniphyllum beddamei		A		Symploces lucide		0		Impatiens hirsutisepa		_		R
gelhardtia serrata		R		Syzygium antisepticum		A		Lygodium salicifolium			-	A
ebucklandia tonkinensis		*		Syzygium attenuatum		A		Seleginelle wallichii (A
ironniers subsequellis		0		Syzygium lineatum	_	0		Zingiber mellis Skorni Ardisia villosa Rosh	ck., H.O.Tran & Side I			A A
eptapleurum cambodianum ex sp.1				Texicodendron succedaneum				Aplenium phyllitidia	0.000			Å
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the second second				DATOR SCALE D - Domina	ent a - Abundant	F - Frequent, O - Occesional, R -	Rate	Interestory canisment	ara papere a serie re	graun.		
						narked in list using *						
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tochemia so.		r		Staurogyne racemosa Kuntze		0				_		
thos chinenais (Raf.) Merr.				Zingiber sp.		0					-	
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Sabia parviflora Wall. ex Roxb.	E						
Smilas corbularia Kunth	1						
Smillas Ianceiñolia Roxb.	1 C						
Tetrastigma ramentaceum Planch							
Alpinia	Ċ.						
Ardisla	a						
Chessalie curviflora (Wall.) Thwaites	a						
Dioscorea sp	0						
Goinphosternine sp.	0						
laora nigricans R.Br. ex Wight & Arn.	0						
Uparis bootanensis Griff.	1 A 1						
Neangtis wightiana (Wall ex Wight & Arn.) W.H.Lewig	0						
Oxyspore of umbellata (Hook F ex Triana) J.P. Maxwel	0		A				
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			Red	list species to be m	arked in list using *		
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Photo references							

Detailed plant plots of the Survey block 3 as below

Site sume Survey B Durveyors Souladeth, P Air Temponature (*C) 20 Hubblat types present	Nock 3 Dete and 1 P. Soukhwong, M. Thonphekdy, 4 Cloud Cover Site and vegetation	N, Bouttavorg T 6	7/23/2021 Rain	Latitude 4	734837 Wind	Longitude	1712290	Monitoring Flat (D N Monitoring Flat Size		- Andrew State of Contract of
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		E:	6da	4	and the second s			Contraction of the server		ne.
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					17.		odition aurament wares and			
					Fire	NA-	Wildlife	NA Human	ractivity Cutting	(been
Montane evergreen forest,	t, dense of high trees at foothil	ills and sparsely	y of small trees towards the su	mmit		vithin the plot and re	ear Clear-cutting o	of vegetation for the Transm	mission lines throughout the surve	ry sites
forest fubital describe sampy, understorey and gro	round flora				1	꺌		6		3
Cannys mean height (m) 14	Cattingy mean silver (%)	60	Onderstorey mean height (m)	3	Understorey mean lower (%)		Hashiesmus layer mean heigh	it (m) 1	Histbacestas layer mean steer [N]	5
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other habitats record overall man and mean height a	t of vegetation						- 12			
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Mean veg height (onl) 140 Vegetation sower (%) 85		950 15	Water seven Chi	6						
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Site name Satvey	Dirck 3 Heter and T	lana -	7/23/2021	Latitude	Kal Surveys 735209	Longitude	1712012	Austioning Plot (ID N	innbert 3-2	
Surveyors Souladeth	P., Soukhavong, M., Thonphakdy, N	L Bouttavong T	8					Honitoring Plot Sire	0.174	-
Air Temperature (*O 25	thrud Cover	0	Rein	4	Wint	1	Bild weather description	0	outly with light-heavy rain and cool	
Habibat types present					Forest protection near Ban Dek	Fern				
and the second se	Site and vegetation	distriction				6	andition assessment scores and comm	uris (Grv., wikilde an	(harman activity)	
					Five	NA	Windlife NA		activity Cutting free	8
					Combined in	repart score				
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forest habitat describe caregy, understorey and g						1	Performance and a second second second		Drive Local Land Community Community	1.27
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Site name	Survey Blog	ck 3 Date and T	ITTAL CO.	7/23/2021	Botanical S Latitude	735792	Longitude	1712515	Monitoring Plot (IC	Number) 3-1	
Sarveyon	Souladeth, P.,	Soukhavong, M., Thonphakdy,	N., Bouttavor	ng, T.		To 00000	C.A. L. Monima e	Ro 300,400,445	Monitoring Plot Si	0.1 ha	_
Air Temperature (*C)	25	Cloud Cover	6	Rain	4	Wind	7	Brief weather description	Cloud	ty with light-heavy tain and cool	
Habitat types present		Sector Construction of the		196 - Yohilard - Sh	Fore	st protection near Ban Dek Ren	ń				
		Site and vegetation de	scription				Candi	tion assessment scores and comm	ents (fire, wiidlife an	sd human activity)	
						Fire Combined inc	NA	Wildlife N	A Huma	n activity Cutting tree	es
Montane evergree	en forest, den	se of high trees at foothills	and sparsel	ly of small trees towards the sur	imit			plot and nearby Clear-cuttin	g of vegetation for t	he Transmission Lines throughout sites	the sur
r Torest Nabitat describe canopy, under	storey and grou	and flora									
the way have been as the second second of the second second second second second second second second second se		Canopy mean cover (%)	90	Understorey mean height (m)	5	Understoney mean cover [%]		Herbaceous layer mean beight (n	1	Herbaceous layer mean cover (3	5
	65	Bare ground cover (%)	10	Water cover (%)		Moss Layer mean height (m)	0.2	Moss Layer mean cover (%)	5		1
r other habitats record overall max and	f mean height ei	l'engetation	11								
Mean veg height (cm)	140	Max weg height (on)	300								
Vegetation cover (%)	85	Bare ground cover [%]	13	Water over (N)	Ø	3					
ist of dominant species within the plot t	hat define the I	habitat types and any notable u	pecies findud	fing Rod List/Invasive)	-						_
Species		DAFOR	CONTRACTOR OF THE OWNER	Speckes		DAFOR		Species		DAFOR	
ineslea fragrans Wall.		1 A		Symplocos caudata Wall. ex G. D	ión	0		Ardisia villosa Roxb.		0	
odytes dimidiata E.Mey. ex Am.		F		Symplocos lucida (Thunb.) Siebo	sid & Zucc.	A		Diplazium donianum (Mett.) Taro	ti k u	0	
disia gracilenta C.M.Hu & J.E.Vidal		0		Syzygium antisepticum (Biume)	Merr. & LMU	0		Impatiens hirsutisepala Tardieu		0	
stanopsis acuminatissima (Blume) A.DO	č.	A		Syzygium attenuatum (Mig.) Me	rr. & L.M.Per	ri A		Liperis bootanensis Griff.		Ť.	
crydium elatum (Roxb.) Wall. ex Hook.		11 M M						Nephrolepis conditolia (L.) C.Pres	4	0	
phniphyllum beddomei Craib		1. F						Odontosoria chinensis (L.) J.Sm.		0	
bucklandia tonkinensis (Lecomte) Stee	nis ex Make	0						Philogacanthus publinervius T.Ans	lerson	0	
ronniera subaequalis Planch.		D						Polystichum atlenuatum Tagawa	& Z. Iwats.	0	
eptapleurum cf. cambodiana Yahara & T.	agane	0						Smilax lancerfolla Roxb.		0	
hocarpus harmandii (Hickel & A.Camus)	A.Camus	A						Zingiber mellis Škorničk., H.D.Trá	in & Šida f. *	F	
sea martabanica (Kurz) Hook.f.		A									
ododendron simsil Planch.	-	D									
odoleia championii Hook.f.	1.1	0									
odomyrtus tomentosa Wight		R								1	
hima crenata Korth.		A									
				Red list sp	ecles to be m	F - Frequent, O - Occasional, R arked in list using * arked in list using **	- Raro,				

Site name Survey	Block 3 Deterand	1 Time	7/24/2021	Latitude	731614	Longitude	1712736	Monitoring Plot (1		
Surveyors Soulidet	P., Soukhavong, M., Thonphak	udy, N., Bou	uttavong, T.		SP SECURICIES SPecial		and contains area i	Monitoring Plot S	0.1 ha	1
AirTemperature (*C) 25	Cloud Cover.	6	Rain	5	Wind	7	Brief weather descript)	on	Cloudy with light-heavy rain and cool	N.
Habitat types present	sate sate and a second s		77. (1976) (19		Forest protection near Bar	Dak Rem				
	Site and vegetation desc	riptica				Came	dition assessment scores and	comments (fire, wildlife	and human activity)	
		11.			Fire	NA	Wildlife	NA Hum	an activity Cutting to	ees
					Combined impa		Cin Cin	an outling of wagetabless P	or the Transmission Lines throughout t	The company of
Montane evergreen forest, dense	of high trees at foothills ar	nd sparse	ily of small trees towards the s	ummit	notes on angus	or manual rise but	a moore ay	at control of the Bernerout th		the survey size
forest lubitat describe canopy, understorey and	ground flora									
Canopy mean height (m) 14	Camopy mean cower (%)	.75	Understorey mean height (m)	5	Distantioning mean cover (%)	10	Herbaceous layer mean hei	ght (m) 1	Nerbaceous layer mean cover (%)	5
						0.2	Mosi Laver mean cover (%)			(†1
pprox age of canopy (ym) 70	Bare ground cover (%)	25	Water cover (%)		Moss Layer mean height (m)	8.Z	the second s	10		
of the second		25	Water cover (%)	1	Moss Layer mean height (m)	9.2	Contract Contraction Contract	10		
of property of the second s		25	Water cover (%)		Moss Layer mean height (m)	9.2	Norther Influenced Ad	10		
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ether habitats record overall max and mean help Mean veg helph (on) 150 Vegetation cover (%) 85 of dominant speces within the plut that define t Special issa grandenta C M-Na 8.3.5.Vidal	ht of wegetation Max weg height (cm) Bare groomt cover (N) he habitat types and any notabl DATON	350 15	Water covet (%) (including Red List/Invasive) Species		DMOR Q		spe	clen ur.) Merr.	antofweeth and a state of the second s	
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ether habitatis record overall max and mean heig Mean veg height (cm) 350 Vegetation cover (%) 85 of dominant species within the plint that define f Species issa gracilenta C.M.Ha B.J.S.Vidal ynla 35. taropsis acuminatissima (Blume) A.DC. rycarpos indefratos (Blume) de Laub. hrightyllum beddemei Craib diotrophe variami (Blume) Mis, tapleurum cf. cambodianum Yahara & Tagane fum roceum Yahars adambar excelsa (Noronha) Oken ocarpus hamrandi (Pickel & A.Camus) A.Camus	ht of wegetation: Mare engineering to ever (N) Bare ground cover (N) he habitat types and any notable DAFOR C B A C C C C A A C C C C C C C C C C C	350 15	Water covet (%) (including Red List/invasive) Spacies Schoepfin Inagrans Wall. Sympleces lucida (Thumb.) Steb Syrzysium attenuatur (Miq.) Me	old & Zucc. err: & L.M.P	DAFOR O A Å	. 10	Spea Ancistrociadus tectorius (Lo Embelia obiongifolia Hemg) Helixanthera parastica Lou Ampelopsis cantoniensis (P Dejndrubur sp. Diplarum donianum (Meit Gomphostemma sp. Lasianthus chevalieri Pit. Nephrolępis cordifolia (L.) Odontosona chinensis (L.)	dins ur.) Merr. 5. 7. Jook. & Am.) Planch.) Tardieu C.Presl .Sm. .gewe & 2. twats.	0 0 0 8 0 0 7 0 7 0 0 0	
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other hubitats vectors over all mass and mean heig Mean way height (cm) 250 Vegetation cover (%) 85 t of dominant species within the plot that define t	ht of wegefation Max weg height (cm) Bare ground cover (N) be habitat types and any realab DATOR R A A A A A A A A D D B F	350 15	Water covet (%) (including Red List/invasive) Spacies Schoepfin Inagrans Wall. Sympleces lucida (Thumb.) Steb Syrzysium attenuatur (Miq.) Me	old & Zucc. err: & L.M.P	DAFOR O A Å	. 10	Spil Ancistrociadus tectorius (Lo Embelia obiongifolia Hemol Helixanthera pacastica Iou Ampelopsis cartonienis (F Dendrobium sp. Diplanum donianum (Meit, Gomphostemma sp. Lasianthus chevalieri Pit, Nephrolepis cordifolia (L.) Odontosona chinenus (L.) Polystichum attenuatum 74 Sabia parviflora Wall, ex Ro	Ins. ur.) Merr. fock. & Am.) Planch,) Tardieu) Tardieu C.Presi 	0 0 0 0 0 7 7 0 0 0 0 0 0	

She name Safe	y Block 3 Date and	Time	3/24/2021 Int	Botanica tude	731809	tongitude		kenitoring Plot (ID No		
Surveyors Soulade	h, P., Soukhavong, M., Thorphakdy,	N., Bouttavon	g.T.	U.r	97303 91	1111 2000	M	landaring Plat Sae	0.1 ha	
Ale Temperature (*C) 25	Cloud Cover	6	Rata	4	Wod	7	Brief weather description	Clo	udy with light-heavy rain and cool	
Habitat types present				R	inest protection near Ban Dak Ren	n				
	Site and vegetation	description				CO	ndition assessment scores and comme	reta (Neu, wild lite and	f human activity)	
					Fire	NA:	W4rtite NA	Human a	ativity Cutting tree	8
					Combined impo					
Montane evergreen fores	dense of high trees at footh	ills and soa	rsely of small trees towards the summ	tin	National Contractions	the settless the pi	int and man by Chair-outtin	ng of vegetation for th	fee Transmission Lines throughout the	a survey site
and the star growth to too	contract of high frees at room	title and also	a sery of small press remains the spinit		transfer to the second second					
forest habitat describe campy, understorey a	nd around fines						3			
Canopy mean height (m) 15	Canopy mean cover that	90	Understorey mean height (m)	6 BT	Indeistorey mean cover [%]	10	Herbaceous layer mean height (m)	1 10	erbaceous layer mean cover (%)	10
Approvage of callopy lyis) 70	Bare ground cover [%]	10	Water cover [%]		Acss. Layer mean height (m)	0.2	Muss Laver mean cover [%]	10	Contract of the second second second second second	
other habitats record overall may and mean h			and the second s		and the second second second		And the state of the second se			
Mean weg height (cm) 140	Max weg height 6cmi	350	7							
Vegetation cover (%) 80	Base ground cover (N)	20	Water cover (N)	0						
t of dominant species within the plot that defin	e the habitat types and any notabl	e species (incl	luding Red List/Invasive)							
Species	DAFOR		Species		DAPOH.		Species		DAFOR	
er lautinum Hassk.	R		Neolitsea peylanica (Nees & T. Nees) Men	fui.	A		Alpinia		F	
acolosa griffithii Mast.	0		Schima crienata Korth.		A		Anonum			
stariopsis acuminatissima (Blume) A.DC.	(A)		Symploces caudata Wall. ex G. Don		0		Ardisia		0	
stanopsis clarkei King ex Hook.f.	A		Symplotos lucida (Thunb.) Siebold & Zutz.		0		Ostaš		0	
crydium elatum (Roxb.) Wall. ex Hook.	8		Syzygium attenuatum (Mig.) Merr. & L.M.	Perry .	8		Diplacium donianum (Mett.) Tardieu	-	0	
phriphyllum beddomer Craib	R						Lasianthus		E	
ndrotrophe variana (Blume) Mig pelhandtia serrata Blume	0						Lygodium salicifolium C.Presl		0	
gemaritha serrata elume bucklandia tonknemin (Lecomte) Steenis ex Make							Nephrolepia conditaka (L.) C.Presi Powr		0	
ptapleorum cf. cambodianum Yahara & Tagane	0		Woody Climbers:				Pothos chinensis (Raf.) Merr.		0.	
x3p.1	24		Ancistrocladus tectorius (Lour.) Merr.		¥.		Pothos gigantipes Buchet ex P.C. Boyc	2	0	
6.3p.3								e	0	
	0		Goetum sp.		0		Rhaphdophora		0	
and the second							Setagineita wallichi (Hook, & Grev.) 5	pring	0	
ium roseum Yahara Iocarpus elephantum (Hance) A.Camus	A									
Laboration of the second s	A A A						Torenia sp. Woodwardia japonica (l. f.) Sm.	102	0	

Invasive species to be marked in list using **

Site name	Survey Block 3	Date and Tim	100	7/24/2021	Letitude	732041	Langthale	1712550	Monitoring Part 10	3-6	
10 VA	strawy proce a	and the second second		.729/2022		. agent	Langeade	111100	Monitoring Plot Size		
Sunneyara	Souladeth, P. Soukhavor	rg. M. Thonphakdy, N.	Bouttairing,	τ.							
Air Temperaturn (*C) 20	0 Clou	d Cover	8	Rain.	5	Wind	2	Brief weather deanlytion	Q 2	oudy with light-heavy rain and cool	
Habitat Types present					2	Forest protection near Ban Del	Rein				
Contraction of the Article of the Ar		Site and vegetation de	skriptim				6	endition associated sources and u	enuments three, withful a	al human activity!	
						En	NA	Widtle		activity Cutting tre	ei 🗌
						Combined i					
Montane evergree	an forest, dense of hi	gh trees at foothills	and sparse	ly of small trees towards the r	ummit	Watters all the	gants within the p	of and nearby Clear	cutting of vegetation for	the Transmission Lines throughout th	e survey sil
fired bilitet descrife sanopy, underst	And in case of the local division of the loc		1923	PROPERTY AND INCOME.	-			No. of Concession, Name	1000 C		17475
Canopy mean height (m)		can cover (%)	85	Understarey mean height (m)		Understorey mean cover [%]	10	Perharmin layer mean bright		Hertraceous Seyer mean cover (%)	5
Approx age of sampy (yrs)		and cover (%)	15	Water orver 210		Mins Layer mean height (m)	0.3	Mins Layer mean cover (%)	10		-
Mean weg height land 14		height tomi	350	1							
Vegetation over (%) E		and ameter (Sil	15	Water cover 254	a 50 a a	· · · · · · · · · · · · · · · · · · ·					
	All Included in		19165								
t of dominant species within the plot tha	at define the Nahitat type		tien finckuting								
Spenier -		DALON.		Spectra		DAFOR		Spenie		DAPOR	
stanopsis acuminatissima (Blume) A.DC		1		Semecarpus reticulata Lecomte	E			Ampelopsis cantoniensis (Hod	ik. & Arn.) Planch.	0	
stanopsis slarkel Kirig ex Hook f		0		Symplocos caudata Wall ex G	Don	A		Ardisia villosa Rosb.		D	
namonum curvifolium (Lam.) Nets		A		Symplocos lucida (Thurth.) Sieb	sold & Zucc	0		Asplenium phyllittidis D. Don-		A	
				Syzygium antisepticum (Biume)	distant II. 1 Ad Dants N				initial		
		D		- TRITABION BUILDEDORTHU (DURINE)	I MELL BLUM PETRY			Diplazium donianum (Mett.) T	er orse	0	
nnamonium javanicum Biume		D		Supygium attenuatum (Mig.) Me		D		Olgiazium donianum (Mett.) T Odontosoria chinensis (L.) 15/		0	
mamonium Javanicum Biume ghniphyllum beddomei Cratb	i ex Make				err. & L.M.Perry				n.		
nnamomum javanicum Biume Ishniphyllum beddomei Crath bucklandia tonkinensis (Lecomte) Steenis	i ex Make			Support attimustum (Mig.) Me	arr. & LM.Parry & LM.Perry	D		Odontosoria chinensis (L) 15e	n.	0	
nnamomum javanicum Blume ighniphyllum beddomei Craib bucklandia tonkinensia (Lecomte) Steenis ochidion eriocargum Champ, ex Benth	i ex Maile	7 7		Scrygium attenuatum (Mig.) Me Syzygium Tineatum (DC.) Merr. (arr. & LM.Parry & LM.Perry	D A		Odontosoria chinensis (L) 15 Oxyspora cf. umbellata (Hook	n. 7. ex Triana) I.F.Maxwell	0 F	
nnamonum javanicum Biume Ishniphyllum Iseddonei Crath bucklandia tonkinensis (Lecomte) Steekis ochidlon ericoargum Champ, ex Benth ochifeldia thorefil Lecomte	s ex Make	ř F O		Scrygium attenuatum (Mig.) Me Syzygium Tineatum (DC.) Merr. (arr. & LM.Parry & LM.Perry	D A		Odontosoria chinesala (L) 15a Oxyspora cf. unbellata (Hook Pleochemia sp.	n. 7. ex Triana)) F.Maxwell na & Z. Iwata.	0 F 0	
nnamonum Javanicum Biume Bhriphyllum beddomei Cruib bucklandia tonkineraia (Leconte) Steerko ochidion eriocargum Champ ex Benth orifielda thorarii Leconte Luidambar excelsa (Noronha) Oken	sex Make	7 7 0 0		Scrygium attenuatum (Mig.) Me Syzygium Tineatum (DC.) Merr. (arr. & LM.Parry & LM.Perry	D A		Odontosoria chinensis (L) 13r Oxyspara cf. unbellata Hook Pleochemia sp. Polystichum ettenuatum Taga	n. 7. ex Triana)) F.Maxwell na & Z. Iwata.	0 F 0 0	
nnamonum javanicum Biume Johnsphyllum bedönmei Craits bocklandis tenkinensis (Lecentra) Steenis ochidion eriocarpum Champ, ex Benth sarlieldis thoreili Lecentre Juidamber excess (Noronha) Oken Rocarpus elischantum Titance) & Camus		F 0 0 8		Suzygium attenuatum (Miq.) Me Syzygium Tineatum (DC.) Merr. (arr. & LM.Parry & LM.Perry	D A		Odontosoria chinensis (L) 13r Ovyspora cf. unbellata (Hook Pleochemia sp. Polystichum attenuatum Taga Pteridium aquilinum (L) Kuhn	n. 7. ex Triana)) F.Maxwell na 8. Z. Inata.	0 F 0 D	
nnamonum javanicum Biume sahniphyllum Isedöonesi Craits bucklandia tonkinensis (Lacomte) Steeris ochidion eriocargum Chemp, ex Berth arsfeldia thorelii Lacomte juidentbar escelsa Itkorohiai Oken bocargus elesbentum Hance) & Camus Socargus elesbentum Hance) & Camus	ACamo	7 0 0 8 0		Suzygium attenuatum (Miq.) Me Syzygium Tineatum (DC.) Merr. (arr. & LM.Parry & LM.Perry	D A		Odontosoria chinemia (L.) 13 Onyapara cf. unbellata (Hook Pieocenia sp. Polystichum attenuetum Taga Pieriolium agulinum (L.) Kuhn Rungia pectinata (L.) Mees	n. 7. ex Triana)) F.Maxwell na 8. Z. Inata.	0 F 0 D 0	
mamomum javanicum Biume sphniphyllum bedonnei Craib bucklandi si kohimerais (Lecontre) Steelvis ochidion er locargum Champ, es Benth mafieldis thorelli Lacombe juidember escelse (Noronha) Oken bocargus elephantum (Hence), Acamus hocargus hermandi) (Hickel & Acamus) hocargus hermedi (Hickel & Acamus)	ACamo	7 7 0 8 0		Suzygium attenuatum (Miq.) Me Syzygium Tineatum (DC.) Merr. (arr. & LM.Parry & LM.Perry	D A		Odontosonia chinensis (L) 15 Oxyspara cf. umbellata (Hook Pieocenevia sa. Pielystichum ettersustum Taga Piersidium agulinium (L) Kuhn Rungia pectinata (L) Nees Sabia parvillora Wall es Boal	n. 7. ex Triana)) F.Maxwell na 8. Z. Inata.	0 F 0 0 0 0 4	
Antamonium Javan-Lum Blume aphrophyllum bedöamei Craiti doublandia torkinensis (Lecomte) Steeris lochidian etiocargum Champ, ex Benth orafieldia thorelii Lecomte suidambar excelsa (Noronha) Oken Mocargua shohathun (Hance) & Camus thocargua shohathun (Hance) & Cam	ACamo	7 0 8 0 0 0		Suzygium attenuatum (Miq.) Me Syzygium Tineatum (DC.) Merr. (arr. & LM.Parry & LM.Perry	D A		Odontosoria chinesais (L) 33 Oxygora (f. unbelliata Hook Pieochemia sp. Polyatichum attenuatum Taga Piteridium aguilinum (L) Ness Sabia janvolfaru Wall es Rad Sabia janvolfaru Wall es Rad Smilas corbularia Kurth	n. 7. ex Triana)) F.Maxwell na 8. Z. Inata.	0 F 0 0 0 0 0 0 0	

No	Scientific Name	Local Name	Family	IUCN Red List
1	Acer laurinum	ກ່ວມ (Kuam)	Sapindaceae	
2	Anneslea fragrans	ແກ້ມອົ້ນ (Kaem oun)	Pentaphylacaceae	
3	Apodytes dimidiata	ພັບດົງ (Phab dong)	Icacinaceae	
4	Castanopsis acuminatissima	ກໍ່ເດືອຍ (Kor deau)	Fagaceae	
5	Castanopsis clarkei	ກໍ່ໜາມ (Kor nam)	Fagaceae	
6	Chionanthes sp.1	ເຂົ້າສານຫຼວງ (Khaosan luang)	Oleaceae	
7	Dacrycarpus imbricatus	ຮຶ້ງຂຽວ (Hinh khiew)	Podocarpaceae	
8	Daphniphyllum beddomei	ດິກດົງ (Dik dong)	Daphniphyllaceae	
9	Engelhardtia serrata	ພ່າວຂຽວໜາມ (Phao khiew)	Juglandaceae	
10	Exbucklandia tonkinensis	ໂພກາບລາງ (Pho kablang)	Hamamelidaceae	
11	Gironniera subaequalis	ຫາງແມງໄອ່ (Hang maeng-ai)	Cannabaceae	
12	Heptapleurum cambodianum	ຕ້າງ (Tang)	Araliaceae	
13	llex sp.1	ໄຂ່ມົດ (Khai mod)	Aquifoliaceae	
14	Illicium roseum	ຈັນບານ (Chan ban)	Schisandraceae	
15	Liquidambar excelsa	ສິບດາວ (Sob dao)	Altingiaceae	
16	Lithocarpus elephantum	ກໍ່ຊ້າງ (Kor xang)	Fagaceae	
17	Lithocarpus pierrei	ກໍ່ກັກ (Kor Kak)	Fagaceae	
18	Litsea martabanica	ໝີ່ບົງຫອມ (Mee bonghom)	Lauraceae	
19	Madhuca pierrei	ລະມຸດຊາງປ່າ (Lamout sang pa)	Sapotaceae	
20	Neolitsea zeylanica	ໄຟເດືອນຫ້າ (Fai deuanha)	Lauraceae	
21	Pinus kesiya	ແປກສາມໃບ (Peak sambai)	Pinaceae	
22	Rhododendron simsii	ກຸຫຼາບປ່າ (Koulab pa)	Ericaceae	
23	Rhodomyrtus tomentosa	ໂພງແກ້ມ (Phong kaem)	Myrtaceae	
24	Schima crenata	ຄາຍໂສ້ (Khai Soh)	Theaceae	
25	Semecarpus reticulata	ນ້ຳກ້ຽງດຳ (Namkieng dam)	Anacardiaceae	
26	Stewartia laotica	ປໍເຫືອງລາວ (Por huang lao)	Theaceae	
27	Symplocos caudata	ເໝືອດມົນ (Maud mon)	Symplocaceae	
28	Symplocos lucida	ເໝືອດພູ (Maud phou)	Symplocaceae	
29	Syzygium antisepticum	ສະເມັກແດງ (Samek deang)	Myrtaceae	
30	Syzygium attenuatum	ຫວ້າສະເມັກ (Wha samek)	Myrtaceae	
31	Syzygium lineatum	ຫວ້າຈ່ອຍ (Wha joi)	Myrtaceae	
32	Toxicodendron succedaneum	ເບັນຮັກ (Ben hak)	Anacardiaceae	

Annex 1c-2. Summary of tree species list in the Survey Block 3

Stename		v Block 4 Date as	nd Time 25-27	122 20101	Botanical	Surveys	Longitude	-	Monitoring Pict DD	And the second second	Plot 4-1/4-2/4-3/4-4/	
100 million 100		TEXTS IN THE REAL PROPERTY OF	(1) 1 41 (200)	///////////	Lannung		Longente		Monitoring Plot Siz		0.6 ha	4.204
Surveyors	Souladeth, P., Soukh	avong, M., Thonphakdy, N., Bout	tavong, T.					1				
Air Temperature (*C)	25	Cloud Cover	5	Rein	4	Wind	ñ	Brief weather description	Cloudy with	noderate-heavy	rain and strong brea	128
Habitat types present					Forwalt print	ection between Ban Plac and Ban Da	k Rem					
	•	Site and vegetat	ion description		and the second second			assessment scores and comm	ents (fire, wildlife and In	man activity)		
						- the	NA	Wildlife	NA Human	activity	Tree logging	-
	Montone eve	ergreen forest, dense of br	nad leaved to	and some pine forest		Coobleed ing		The second s				
	and that is a state	ingreen lorest, centre of or		ees and some price torest		Profession Imp	acts within the plo	Clea	r-cutting of vegetation fo through	out the survey :		Asing
forest habitat describe care	opy, understorey an	d ground Bola		10		1		1		1.		_
Canopy mean height (m)	14	Camppy mean cover (%)	90	Understoney mean height (m)	6	Understorey mean cover (%)	10	Herbaceous layer mean heigh	0.5	Herbaceous la	iver mean cover [%]	
Approx age of canopy (yrs)	80	Bare ground cover (%)	10	Water cover (%)		Moss Layer mean height (m)	0.1	Moss Layer mean cover [N]	5			
ir other habitats record overa						0 dv dr. 2001						
Mean weg height (cm)	150	Max veg height (cm)	250									
Vegetation cover [%]	85	Hare ground cover (%)	1 15		1.4.1				_	-	_	_
t of dominant species within	the plot that define	the habitat types and any notal	de soevies finctu	iding Red Uni/Impadant	_							_
Species		DWOK	and constrained of the second	Species.		DAION		Specie			ONFOR	
tidesma japonicum				Pinus kesiya		A		Herbaceous:				_
stanopsis acuminatissima		D		Pittosporum paucifiorum *		11 R / 2		Gleichenla sp.			D	
icrydium elatum		A		Polygala tonkinensis				Asplerium			D	_
ephriphyllum mejus seocarpus griffithi		D		Pyrenaria polaneena Quercus langbianensis *		F		Lindsaea enstfolia Sw. Brachytome wallichi Hook.f.			D	
ngeharitia serrata				Schima crenata		-		Hedyotis sp.			0	_
bucklandia tonkinensis		0		Sterculia Issophylia		E		Melicope sp.			4	_
arcinia pedutculata		D		Symplocos wikstroematoka		D		Ardhia crenata Simu		-	A	_
ronniera subaequalia		1						Gomphostemma up.			A	
minanthes remota		A						Alpinia up.			¥.	
ix chapaensis		D						Smilax glabva Roeb.			£.	_
excavata Pierre		F						Torenia sp.			E)	
cium sp. 1		R				-		Adenia sp.			F.	_
dera bokorense		. F						Arundina graminifolia (D. Don)	Hochr.		F	_
hocarpus harmandii		0						Ardisia villosa Roxb.			0	
sea martabanica		A.						Arenga		-	0	
ea unbelata		D						Breynia glauca Craib		-	0	
icaranga kurzii		0						Craspedolobium unjugum (Gag	rep.) z. Wei & Pedley		0	_
Bettia leucantha Irinda sp.		0						Embelia ribes Burm.f. Oxyspora cf. umbellata (Hook.f.	av Triana) i E Adam	-	0	_
olitsea zeylanica		0						Pothos	ex / name/ LF /waxwell	-	0	_
and a selection of a		0		Datos scarti p. D. Domini	ant & Aburdan	t, F - Frequent, O - Occasional, R - Rai	te C	100000			0	_
						narked in list using *	1.00-					
						tarked in hit using **						
	-				a standard the best							_

Annex 1d-1. Summary of plant plot by Survey Block (SB4 – Phou Koungking W)

Species	OWOR	Species	DATOIL	Species	CAP COL
ia parvifiora Wall. ex Roxb.	0		Linetin		
blanthes echinata News	0				
raitigma ramentaceum Plarich	0				
(ber	0				
		DAFOR SCALE: D - Dominant, A - Abundant,	E-Evenuent O - Occasional R - Rate		
		Red lst species to be ma			
		Invasive species to be ma			
Photo inferences		Internet species of the			

Detailed plant plots of the Survey block 4 as below

					ical Surneys :					
Stename So	arvey Block 4 Date and	finie.	7/25/2021	Latitude	728886	Longbode		Monitoring Plot (10 No		
Tourveyours Sould	adeth, P., Soukhavong, M., Thonghakdy,	N., Bouttavong,	τ					Maniforing Plat Size	0.1 ha	1
Air Temperature (°C) 22	Clear Cover	1	Kain	1	Wind	0	Inited weather description	Cloudy w	th moderate-heavy rain and strong b	ante.
Habitat types present				Escart	arotection between Ban Piso and	Ran Cast Barro				
	Site and vegetation	a description		CONTRACT OF			ondition assessment scores and somm	ents tire, wikilite and	human activity)	
	Constantiation of the state	Non-Berlin and and a			film	NA	wintin NG	Human		£
					Cumbined in					
Montar	ne evergreen forest, dense of hroa	d-leaved tree	a and some pine forest		Notes an on	paints within the pi	mand nearby Clear-cutting	of vegetation for the	Transmission Lines and illigit logging survey after	throughout
forest fulfilit describe savoyy, understorey	Contraction of the local division of the loc				And the second s					~~~
Canoge mean height (m) 15	Cantopy Internet cover [%]	85	Understorey mean height (m)	- T.;	Understoney mean cover (%)	10	Herbactorus layer mean height (m)		Herbaceous layer mean ower (NQ)	5
Approx age of sampy (yrs) 80 other habitate record overall max and mean	Bare ground cover (%)	-15	Water cretr (%)	l	Mons Løyer mean height (m)	01	Move Layer mean cover (%)	5		_
Mean weg bright (um) 150	Ales weg height (um)	520	-							
Vegetation cover Oil 85	Bare ground cover (N2	15	Writer oner (N)							
d of dominant species within the plot that def Species introduction integer und T.Anderson ex Dyer	The fullitat types and any notable sp DAFCH		Species Undera C. Bukorense Yahara B.	Tacana	DATON		Species Schoepfia fragrans Wall		BARGE 0	
tidesma japonicum Siebold et Zucc	0		Undera ct. bunorense Yahara &				Sterculia lissophylia Pierre		0	
tanopsis acuminatissima (Blume) ASC	0		Litses martabenica (Kurz) Hook		A		Symploces wikstreewifelia Hayata			
crydium elatum (Roxb.) Wall, ex Hook	0		Littee umbeilete (Lour) Merr.	<u> </u>	0		and a second second second second second			
phriphyllum majus Müll Arg.	0		Macaranga kurzii Pax & K Hoffs	8						
epcarpus griffithi) (Wight) AGrey	0		Millettia pachyloba Drake	**	0		Herbaceoux:			
elhardtia serrata Blume	0		Morinda sp.		0		Adenia sa.		0	
suckland is tonkinensis (Lecomtel Steenis es M	takes. O		Finus kestys Royle ex Gordon				Alpinia sp.		0	
			Fittosporum paucifierum Hook	& Are. *	0		Brachytome wallichii Hook f.		0	
	A									
rcinia pedunculata Roxb. ex Buch-Ham.	A		Polygale tunkinensis Chodet		0		Gleichenia sp.		0	
rcinia pedunculata Roab, ex Bach Ham ronniara subaequalis Planch mphandra sp.	0		Polygale tunkinensis Chodat Psychotria cambodiana Fierre	es Pit.	1		Hedyotis sp.		F	
/cinia pedunculata Roxb, ex Bach Ham conniera subaequalis Planch mphandra sp.	1		Polygela tonkinensis Chodat Psychotria cambodiana Pierre Pyrenaria pollaneana Gagnep		0		Hedyotis sp. Undraes ensifelia Sw.			
rcinia pedunculata Roxb, ex Bach Ham, ronniera subaequalia Planch mphandra sp. mnanthea remota (Steenia) Esser	0		Polygale tunkinensis Chodat Psychotria cambodiana Fierre		1		Hedyotis sp.		F	
vicinia pedunculata Rosb, ex Bach-Hem ronniera subaesualia Planch umphendra sp. wmanthai remota (Steerna) Esser ix chapaendis Merr ex excavata Pierre	0		Polygela tonkinensis Chodat Psychotria cambodiana Pierre Pyrenaria pollaneana Gagnep		0		Hedyotis sp. Undraes ensifelia Sw.		F	

Sita name Sarvey	Block 4 Data and	Time	7/25/2021	Botanic	228974	angliste	171256	2 Moni	toring Plat (I	onumber) 4	2
Surveyors	P. Soukhavong, M., Thonphakdy,	N Bouttainet	T			0.01		Moni	toring Plat Si	78 0.1	ha
Air Temperature (%) 25	Cloud Cover	6	Balo		Wind	Ť.	Brief weather de	escription .	Cloudy	with moderate-heavy rain and stro	as bineze
Habilat types present					stertion between San Plac and Ba				create a		
and the second state of th	Site and vegetatio	n description		POTESt pro	denoti tentra par Por Ani sa		ndition assessment suc	one and comments	fire, whilie	and forman activity)	
	Construction of the other states				Har	NA	weathe	NA		m activity Tree k	aging:
					Combined imp	ant score of a within the pi	and and the second second	Phone of States of St	and the state of the st	the Transmission Lines and illigie log	the second second second second second second
Montane eve	rgreen forest, dense of broa	ad-leaved tree	es and some pine forest		antes in mps	era wuhan me g		Cean-calcing or ve	distraction and		ford muniform re
e forest habitat describe canopy, understorey ar	d ground flora				Di.						
Canopy mean height (in) 13	Canopy mean cover [%]	85	Understorey mean height (m)	7.	Understorey mean cover (%)	8	Herthaceous layer m		0,5	Herbaceous layer mean cover [9	5
Appenx age of canopy (yrs) 80	Bare ground cover (%)	15	Water cover (%)		Moss Layer mean height (m)	0,1	Moss Layer mean co	over (N)	4	2	
r other habitats record overall max and mean he		0.4.2	and the second second								
Mean vog height (cm) 150	Max veg height (cm)	250	Water cover (N)								
Vegetation cover (%) 90	Earn ground cover (%)		Water cover cha	-							
t of dominant species within the piot that define		le species (indu									
Species	D/V/OIE		Spiniers Lities umbellata (Lour.) Merr.		ENVOR			Species		DAVOR	
Inandra Integerrima T. Anderson ex Dyer tidesma japonicum Siebold et Zucc.	0		Memecylon Hacinum Zoll, & Mor.		0		Admandra integerint Antidesma japonicum		er	0	
Isia gracienta C.M.Hu & J.E.Vidal	U E		Milettia pachyloha Drake				Ardisia gracilenta C.P				
tanopsis acuminatissima (Blume) A.DC.	0		Pittosporum paucificrum Hook, & Arn.		-		Memiecation Macinum			0	
crydium elatum (Roxb.) Wall. ex Hook.	ő		Polygala torkinensis Chodat				Paychotria cambodia			F	
phophyllum majus Mull.Arg.	0		Psychotria cambodiana Pierre ex Pit.		1		Schoepfia fragrans W			0	
eocarpus griffithii (Wight) A Gray	0		Pyrenaria pollaneana Gagnep.		0		accepted to grant a				
gelhardtia serrata Blume	0		Quercus langtrianensis Hickel & A.Cam	46.*	F		-				
bucklandia tonkinensis (Lecomte) Steenis ex Makesi	0		Schima crenata Korth.		0						
rcinia pedunculata Roxb. ex Buch. Ham.	(A)		Schoepfia fragrans Wall.		0		()				
ronniera subaequalis Planch	· · · · ·		Starculia koophylia Pierre		0						
mnanthes remota (Steenis) Esser	F		Symplocos wikstroemilifolia Hayata		(A.)						
x chapaerois Merr.	A		3 Dédite - 102								
x excavata Pierre	0										
hocarpus harmandii (Hickel & A.Camus) A.Camus	F										
			Red I	list species to be	ant, F - Frequent, O - Occasional, R e marked in list using * e marked in list using **	l-Rare					

						mod Servings					
Site name	Survey	Nock 4 Date an	dTime	7/26/2021	Latitude	729218	Longhude	1712797	Monitoring Plot (ID		
Surveyore	Souladeth	P. Soukhavong, M., Thünphakh	N, Bouttavong, T			S		AL	Monitoring Phot Sol	0.1he	-
Air Temperature (%)	25	Cloud Crew	1	Ban	4	Wind	8	Brief weather description	Cloudy	with moderate heavy rain and strong	breeze
Helsitet Types present					Forest	protection between Ban Plan and	Ran Dak Sera				
		Silie and vegetati	in description					undtion automent some and cam	menta (firt, würdlift a	eal fournam activity)	
						2010	NA	Widtle N	Home	a activity Tree loggi	NI -
						Combined in					
	Montane ev	ergreen forest, dense of bro	ad leaved trees	and some pine forest		Berres on 195	pairs within the p	Clear-cuttin	g of segration for th	e Transmission Lines and illight loggi survey sites	if throughout th
For forest habitat describe sampy, s						1			~~~~		
Campy mean height (m)	14	Canopy mean cover (%)	90	Understorry mean height (m)	6	Understorey mean cover (%)	10	Herbaceson layer mean height (m		Herbaceous layer mean cover (%)	5
Approx age of sanopy lying	80	Baire ground sover (N)	10	Water olver (N)		Man Layer mean height (m)	0.1	Moss Layer mean cover (%)	5	12	_
For other habitats record overall ma	the second se				1000						
Mean weg bright (cm) Vegetation cover (N)	150 #S	Max seg treight (cm)	250	Water saver (%)	0						
Vegetation miller [%]	85	Bare ground cover (50		Walter sover 1%							_
tist of dominant species within the p	int that define th	e habitat types and any ootable	species (Including I	Ind List/Invalue)	-						
Spesies	HEALTHR AND	DATON		Species		DATOR		Speries		BAFOR	
Adinandra integerrima T Anderson e	s Dyer	0		Memecylon filacinum Zall & Mo	10. · · · · · · · · · · · · · · · · · · ·			Alpinia șe		0	
Antidesma japonicum Siebold et Zuo		0		Millettia pachyloba Dreks	233 <u>-</u>	F		Ardialia crenata Sima		0	
Castanopole acuminatissinia (Biune	ti A.DC.	0		Pittosporum paucifiorum Hook	6 Am. *	0		Asplenium			
Daphniphyllum majus Müll Arg				Polygala tonkinensis Chodat		0		Brachytome wallichii ttook.f.			
Diseocarpus griffithii (Wight) A Gray	č			Psychotria cambodiana Pierre e	is Pit			Gleichenis sp		9	
Engelherdtia serrata Blume				Pyrenaria polaneana Gagnep.				Lindsaea ensifoite Sm		· · · · · ·	
Gercinia pedunculata Rosb. ex Buch	-Ham.	A		Quercus, langblanensis Hickel &	A Carnis *	1.5		Melicope sp		0	
Gironniera subaequalis Planch		0		Schoepfia fragrams Wall.		0					
Symmetrities remote (Steenis) Esser	3			Sterculia Tissophylla Pierre		0					
Rex chapaensis Merr.		A		Symploces wikstreeminelia Hay	6/18	0					
las escavata Pierre	1	0				-		-			
Lindera cf. bokorense Yahara & Taga Lithocarpus harmandri (Hickei & A.C				-						1	
Unocarput harmanan uniceer et ALC	amuti A camut	,									
Utsea umbellata (Lour.) Merr.		D									
Macananga kunzti Pax & K.Hoffin											
					fled list species to	ndant, P - Prequent, O - Occasional o be marked in list using * o be marked in list using **	, R - Rare				

Date and time Ahavong, M., Thorphakdy, N., Buuttavory	7/26/2021 Latitude	ical Surveys 705017 Loneitude	1712249 Monitoring Plot (10 Mumbert
	1/20/2021	730017 Longitude	1732249 Monitoring Plot (Monitoring Plot)	
the second s	L T.		harden been	0.18
Cloud Cover 6	Ram 3	Wind 6	Reief weather description Cloud	y with moderate-heavy rain and strong breeze
	Foreid o	protection between Ban Plao and Ban Dak Rem		
Site and vegetation description			Condition assessment scores and comments (fire, wildlife	e and haman activity)
		the NA	Wikitie NA Hum	an activity Tree logging
forest, dense of broad-leaved tre	ees and some pine forest	stores on impacts weren the	a pear and nearby clear-cutting or vegetation for	the transmission times and large logging throughout t survey lifes
nd form				
sopy mean cover (%) 90	Understoney mean height (in) 5	Understoney mean cover [%] 2	Herlisceous layer music height [m] 0.5	Herbaceous layer mean cover (% 3
re ground cover (%) 10	Water cover (%)	Mosa Lawer mean height (re) 0.1	Mona Layer mean cover (N) 3	
	A AND ADD AND			
CONTRACTOR AND ADDRESS OF THE OWNER OWNE				
e ground cover (%)	Water cover (%)			
The second se				DAFOR
		Nor all		0
				6
		E.		0
		0		
1		0		ò
1		0		1
A	Syzygium anthepticum (Blume) Merr. & L.M.Perry (S	F F	Sabia parviflora Wall, ex Roxb.	0
	A CONTRACTOR OF A CONTRACTOR O		Charles and a state of the state of	
+				
F O				
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	Interest, demse of broad-leaved tra- sid form sopy mean cover (%) 90 reground cover (%) 10 reground cover (%) 10 Raving height (pm) 300 reground cover (%) 12 Atat types and any notable species (not DAR(M 0 0 7 0 4 4 4	Interest, dense of broad-leaved trees and some pine forest ad form approximat cover (%) 90 Understorey mean height (m) 5 approximat cover (%) 90 Water cover (%) 9 approximat cover (%) 90 appro	Normal Cover (%) 90 Understore y mean height (m) 5 Understore y mean cover (%) 7 sid flora	Here NA Walkitie NA Here 1 forest, dense of broad-leaved trees and some pine forest Runes on impact score Cear-cutting of vegetation for Notes consequences Notes consequences Runes consequences Cear-cutting of vegetation for Notes consequences Species Notes consequences Cear-cutting of vegetation for Notes consequences Notes consequences Notes consequences Cear-cutting of vegetation for Notes consequences Species Notes consequences Notes consequences Notes consequences Sequences Notes consequences Notes consequences Notes consequences Notes consequences Notes consequences Sequences Notes consequences Notes consequences Notes consequences Notes consequences Notes consequences Notes consequences Sequences Notes consequences Notes consequences Notes consequences Notes consequences Notes consequences Sequences Notes consequences Notes conse

Site same	Survey Block 4	Date and Tim		7/27/2021	Letitude	730445	Longhude	1712019	Monitoring Flot (D		
Surveyora	Souladeth, P., Soukhavong	L.M., Thorphakdy, N	Bouttavorg	Τ.				641	Monitoring Plot Siz	e Olhe	
Air Temporalister (*C) 2	7 Choul C	Count	4	Rain	38	Wind	6	triel wrather druc	ription Cloudy	with moderate heavy rain and strong	bresis
Habitat types present					Excert or	rotection between Ban Plap and	San Dak Darn	5			
	19	ite and vegetation de	natigition		Torest pr			sufficien assessment supre-	and comments (fice, wildlife a	and human activity)	
						f lew.	NA	Widtle	NA Huma	machaity Tree loggin	NE.
						Combined in					
Mor	stane evergreen forest,	, dense of broad-le	eaved trees	and some pine forest		Appendix on Ing	acts within the y	tot and nearby	leer-cutting of vegetation for t	the Transmission Lines and illigie log the survey sites	ging through
r formet habitat describe canopy, unders	turey and ground flore				17			_			
Canopy mean height (m)	5 Catopy mean	in cover (%)	90	Understorey resan height (m)	2	Understorey mean over (%)	10	Herbarrow layer mean	n height (m) 0.5	the bacatoos layer matan cover (%)	31
Approx age of campy (yrs) B	The second se		10	Water over (N)		Mons Layer mean height (m)	0.1	Moss Layer mean cover	4	14 N	
rr other habitats record overall maa and			ulu -								
Mean veg height (cm) 20	20 Max veg he	right (crv)	320								
Vegetation cover (%) B	0 Hare ground	i cover (%)	120	Water cover (%)	B						
ist of dominant species within the plot th	ut define the hubitat type	and any notable sp	exies Endudio	g fied List/Invalue3							
Species	The state of the state of the state	DAMON		Species .		DATOR			Species	IIAFON	
dinandra integerrima T.Anderson ex Dye	6	0		Lithocarpus harmandic (Hickel)	& ACamus] ACamu	1		Symplocos wikatroemi	folia Hayata	A.	
ntidesma japonicum Siebold et Zucc.		0		Litses martabanics (Kurs) Hook	.1.	A		Sebygium			
estanopsis acuminatissima (Blume) A.D.	£/: 1			Litsea umbellata (Lour.) Merr.		0					
acrydium elstum (Rosb.) Well. es Hook.		0		Macarange kurpi: Pax & K Hoffr	n.	(F)		Herbaceous/Termi:			
and the date and the begins of the still and strong the				1000 10/000							
				Memocylon		. F.,		Oxyspone of umbellate	(Hook F. ex Triana) J.F. Maswe	0	
aphniphyllum majus Müll Arg		R 0		Millettia pachyloba Drake		F D		Oxyspora of umbellate A/disis creneta Sima	(Hook f. ex Triana) 17 Maxwe	0	
aphniphyllum majus Müll Arg. aeocarpus griffithii (Wight) A.Gray						F D F			(Hook f. ex Triana) 17 Maxwe		
aphniphyllum majus Müll Arg aeocarpus griffithii (Wight) A.Gray ngelhariftia serrata Biume	is ex Maio	ő		Millettia pachyloba Drake Morinda sp. Pinus kesiya Royle ex Gordon		ŕ 0		Ardiala crenata Sima	s (Hoos.f. ex Triana) 1.F.Masser	0	
aphniphyllum majus Müll Arg aeocarpus griffithir (Wight) A.Gray igelhardkia serrata Blume ibucklandia tonkinensit (Lecomte) Steen		0		Millettia pachyloba Drake Morinda sp. Pinus kesiya Royle ex Gordon Pittosporum pauziflorum Hook	& Arn. *	r 0		Ardiais crenata Sima Asplenium Gleichenia sp. Hedyotis sp.	s (Hook.f. ex Triana) 17.Maawe	0	
aphniphyllum majus Müll Arg. ieocorpus griffithii (Wight) A.Gray ygelhardfia serrata Blume blucklandi a tonkinensis (Leconte) Steen archia gedunculata Roch ex fluch Ham		0		Millettia pachyloba Drake Morinda sp. Pinus kesiya Royle ex Gordon Pittosporum pausifiorum Hook Polygala torkinensis Chodet	& Arn. *	7 0 0		Ardiais crenets Sims Asplenium Gleichenia sp Hedyatta sp Undsaea ensifolia Sw.	(Plook f. & Triking) J.F. Maxwe	0	
aphniphyllum majus Müll Arg aeocerpus griffithii (Wight) A Gray gelhardhia serrata Biurie bucklandia tonkinensis (Jacomte) Steen arcina pedurculata Roch, es Buch, Ham ronniera sobaecualis Planch		0 0 0 4		Millettia pachyloba Drake Morinda sp. Pinus lesiya Royle ex Gordon Pittasporum pauciflorum Hook Pahygaia torikinensis Chodat Pyrenaria pollaneane Gagrep.		r 0		Ardiais crenata Sima Asplenium Gleichenia sp. Hedyotis sp.	(Plook f. & Trikraj LF.Maswe	0 0 0	
sphnishyllum majus Müll Arg eeocerpus griffithii (Wight) A.Gray gelhardita serrata Biune bucklandis tenkinensis (acomte) Steen ercinia pedusculata Rock ex Buch. Ham rominintes remata (Steenis) Esser ex obagaencis Merr.		0 0 4 0 F		Millettia pachyloba brake Morinda sp. Pinus kesiya Royle ex Gordon Pittasporum pauciflorum Hook Pehyapais tonkinensis Chodet Pyrenaria polloneane Gagnes. Quercus langbianensis Hickel A		0 0 0 0		Ardiala crenata Sima Asplenium Gleichenia ta Hedyata ap Undaea enalfolia Sw. Melicope sa Pothos	(Hook.f. ex Triana) 17. Maxwe	0 0 0 7	
aphniphyllum majus Müll Arg. aeocarpus griffithi (Wight) A.Gray ggithardia serrata Biume ibucklandia tankinensis (aeomte) Steen arcinia pedunculatir Roch ex Buch. Ham inomiera sobasayalia Planch ymiantikes remota (Steenis) Esser- es chapaensis Merr. es econista Flerre		0 0 4 0 5		Millettia pachyloba Drake Morinda sp. Pinus kesiya Royle ex Gordon Pittasporum pausiflarum Nock Pohyaia tonkinensis Chodet Pyretaria pollaneansis Hickel 8 Guercus tangbianensis Hickel 8 Echima crenate Korth.		7 0 0		Ardiais crenata Sima Aspienium Gleichenia sp. Hedystra sp. Undsaea enalfolia Sw. Melicope sp. Pothos Smillae glabra Roxb.		0 0 8 6 7 7 7 7 7 7 7	
aphnishyllum majus Müll Arg Jarocarpus griffithii (Wight) A Gray ngelhardila servata Blune shucklandi a tonkinenci (Leconte) Steen arcini gedunculati Anxh. et Buch. Han ironniera subaesualis Planch ymriantics remota (Steenis Esser ex sbagaensis Merr. ex escanata Pierre Itcium sp. 1		0 0 4 0 F		Millettia pachyloba brake Morinda sp. Pinus kesiya Royle ex Gordon Pittasporum pauciflorum Hook Pehyapais tonkinensis Chodet Pyrenaria polloneane Gagnes. Quercus langbianensis Hickel A		0 0 0 0		Ardiala crenata Sima Asplenium Gleichenia ta Hedyata ap Undaea enalfolia Sw. Melicope sa Pothos		0 0 9 F	
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invasive species to be marked in list using **

Site name Sur	vev Block 4 Balle and T	Contraction of the local division of the loc	7/27/2031	731205	ngitude 17125	45 Muniforing Plat BD	Number) 4-5
NIC PARTY 24	VEY BIOCK 4 DATE AND	Tatte	1/2//2022	731205	1/1/3	Monitoring Plat Sa	
Soula Soula	deth, P., Soukhevong, M., Thonphakdy	N. Bourtevon	a.T.				0.110
Air Temperature (°C) 28	Cloud Cover	3	Raks 2	Wind	5 Brief weather	devolution Clevely	with moderate-heavy rain and strong breeze
Habitat types present	-W 000000047 M	2	For	est protection between Ban Plac and Ban De	ik Eern	N- 32.4 M	
	Site and sugetation	i desirtyrisis	10			ores and comments (fire, wildlife a	end human activity)
		111		Aire	NA W2dBe	NA Huma	Title logging
				Cambined impact s	a she was seen as a second s		
Montane	evergreen forest, dense of broad	d-leaved tree	s and some pine forest	BUTES OF INSPECTS OF	illin De plot and nearby	Clear-cutting of vegetation for t	the Transmission Lines and illigle logging through the survey sites
or forest habitat describe canopy, understorey	and ground flora					in a second	
Canopy mean height (m) 14	Canapy mean cover \$12	85	Understorey mean height (m) 7	Duderstorey mean cover (%)	5 Hertacesus layer r		Herbaceous layer mean sover (N
Approx age of canopy fyrs] 80	Bere ground oover [%]	15	Water cover (%)	Moss Layer mean height (m)	0.1 Moss Layer means	cover (%) 3	ALTER VALUE MADEX OF FILE AND
or other habitats record overall max and mean							
Mean weg height (cm) 150	Max weg height (res)	300					
Viegetation.cover (N) 85	Bern growted enver (N)	15	Water over Dil 0				
ist of duminant species within the plot that def		spesles (indui					100000
Species	DAFOR		Species	DAEOR		Species	DAFOR
	0		Pittosporum paucifiorum Hook. & Arn. *	0	Herbaceous/ferms		
ntidesma japonicum Siebold et Zucc.	0		Polygala tonkinensis Chodat	0	Adenia sp.		0
ntidesma japonicum Siebold et Zucc. allicarpa rubella Lindi.	0 F		Polygala tonkinensis Chodat Schima crenata Korth.	D F	Adenia sp. Ardisia viliosa Ro	di.	0
ntidesma japonicum Siebold et Zucc. allicarpa rubella Lindi. astanopsis acuminatissima (Biume) A.DC.	0 F D		Polygala tonkinensis Chodat Schima crenata Korth. Schoepfia fragrans Wall.	0 F 0	Adenia sp. Ardisia viliosa Ro Arundina graminit		0 F
ntidesma japonicum Siebold et Zucc. allicarpa rubella Lindl. astanopsis acuminatissima (Blume) A.DC. acrydium elatum (Roxb.) Wall, ex Hook	0 F D 0		Polygala tonkinensis Chodat Schima crenata Korth.	D F	Adenia sp. Ardisia viliosa Ro Arundina graminit Asplenium	ds. Iolia (D. Don) Hochr	0
ntidesma japonicum Siebold et Zucc. alficarpa rubella cindi. astanopsis acuminačiscima (Blume) A.DC. iecrydium elatum (Rosk) Wall, es Hook egyhtiphyllum majus Müll.Arg	0 F D 0 0		Polygala tonkinensis Chodat Schima crenata Korth. Schoepfia fragrans Wall.	0 F 0	Adenia sp. Ardisia viliosa Ro Arundina gramini Anplenium Brachytome wallic	db. Iollia (D. Don) Hochr Hill Hook f.	0 F 0 F
ntidesma japonicum Siebold et Zucc. Silicarpa rubella Lindi. satanopsis acuminatiscima (Blume) A.D.C. acrydium elatum (Roch.) Wall, en Hook aphniphyllum majus Mull.Arg regithardta serrata Blume	0 F D 0 0		Polygala tonkinensis Chodat Schemin Angana Wall. Scheefin Angana Wall. Synygium linestum (DC.) Merr. & L.M.Perry	0 F 0	Adenia sp. Ardisia viliosa Ro Acurdino gramini Anurdino gramini Brachytome walite Breynia glauce Cri	db. Iolia (D. Don Hochr hii Mook f elb	0 F 0 F
ntidesma japonicum Siebold et Zucc. allicarga rubella (Indi. astanopsis acuminatiscime (Blume) A.DC. acydium elatum (Roxb.) Wall, ex Hook. aphniphylium majus Mull.Arg. ngelhardtus astrata Blume inorhiera subaequadis Planch	0 F D 0 0		Polygala tonkinensis Chodat Schims creata Koth. Schoepfia fragrans Wall. Synygium lineatum IDC J Merr. & L.M. Perry Woody Climber:	0 F 0	Adenia sp. Ardisia villosa Ron Anundina gramini Anplenium Brachytome wallic Breymia glauce Cr. Craspedolobium u	vb. Jolia (D. Don Hochr hill Mook f elb nijugtum (Gagnep: Z.Wei & Pedley	0 F 0 F 0 0
ntidesma japonicum Siebold et Zucc. allicarpa rubella Lindi. astanopsis acuminatissima (Biume) A.D.C. acyrdium elatum (Roxb.) Wall. ex Hook aphniphyllum majus Mull.Arg regelhardria serrata Biume inorniem subaequalis Planch ymnanthes remota (Steen's) Esser	0 F 0 0 0 0 0		Polygala tonkinensis Chodat Schemin Angana Wall. Scheefin Angana Wall. Synygium linestum (DC.) Merr. & L.M.Perry	0 F 0	Adenia sp. Ardisia willose Ro Arundina gramini Asplenium Brachytome wallis Bregnia glauce Gr. Craspedolobium u Bribelia ribes Bur	vb. Jolia (D. Don Hochr hill Mook f elb nijugtum (Gagnep: Z.Wei & Pedley	0 F 0 F
ntidesma japonicum Siebold et Zucc. alficargo rubella Lindi. astanopsis acuminatiscima (Blume) A.D.C. acrydium elatum (Roxb.) Wall, ex Hook. eghniphyllum majus Mull.arg. reginardta astrata Blume ironniera subaegualis Planch ymruarthes renota (Sberris) Esser es chappensis Merr.	0 F D 0 0 0 0 0 F F 0 0 0 0 0 0 0 0 0 0		Polygala tonkinensis Chodat Schims creata Koth. Schoepfia fragrans Wall. Synygium lineatum IDC J Merr. & L.M. Perry Woody Climber:	0 F 0	Adenia sp. Ardisia villosa Ron Anundina gramini Anplenium Brachytome wallic Breymia glauce Cr. Craspedolobium u	ds. Iolia (D. Don Hochr Hill Mook f. Bib Inijugum (Gagnep.) 2.Wei & Pedley = f.	0 F 0 0 0 0 0
ntidesma japonicum Siebold et Zucc. alficarga rubella cindi. astanopsis acuminatischem (Biume) A.D.C. tecrydium elatum (Roxb.) Wall, ex Hook. Isphilipyllum majus Mull.Arg. regelhardta servata Blume ironniera subaequalis Planch ymmanthes remota (Steenis) Esser ies chapensis Merr. thocarpus harmiendii (Hickel & A.Cemus) A.Ce	0 F D 0 0 0 0 0 F F 0 0 0 0 0 0 0 0 0 0		Polygala tonkinensis Chodat Schims creata Koth. Schoepfia fragrans Wall. Synygium lineatum IDC J Merr. & L.M. Perry Woody Climber:	0 F 0	Adenia sp. Antista villoss Rob Anudina graminit Asplenium Brachytonie waltie Breynia glauce Cr. Craspedolobium u Embelia ribes bur Gielchenia sp.	ds. Iolia (D. Don Hochr Hill Mook f. Bib Inijugum (Gagnep.) 2.Wei & Pedley = f.	0 F 0 F 0 0 0 0 0
ntidesma japonicum Siebold et Zucc. allicarpa rubella Lindi astanopsis acuminatissima (Biume) A.DC. acydium elatum (Rosk) Wall, ex Hook aphniphyllum majus Müll.Arg mgelhardtia serrata Biume inomienis subaequalis Planch ymmanthes remota (Steeris) Esser es chappensis Mer. thocarpus harmedii (Hickel & A.Camus) A.Can theae martabanica (Kurz) Mook f.	0 F 0 0 0 0 0 F 0 0 F 0 0 0 0 0 0 0 0 0		Polygala tonkinensis Chodat Schims creata Koth. Schoepfia fragrans Wall. Synygium lineatum IDC J Merr. & L.M. Perry Woody Climber:	0 F 0	Adenia sp. Antisia vilosa Ro Anudina granini Brachytomi wallio Breshta glauce Cr Craspedolobium u Embelia ribes Buri Gelchenia sp. Comphostemma sp.	vb. Jolia (D. Don Hochr Jhli Hock f. e-B m f m f. a	0 F 0 0 0 0 0 0 0 0 0 0 0 0
dinandra integerinen T.Anderson ex Dyer intidesma japonicum Siebold et Zucc. Silicarya rubella Lindi astanopsis acuminatispima (Blume) A.DC. tacrydium elatum (Roub.) Wall, ex Hook paphisphylium majus Mull.age. Ingelhardtia serrata Blume inonniera subaegualis Planch symmathes renota (Skeris) Esser les chapsensis Merr. Irbocarpus harmendi (Hickel & A.Camus) A.Car latea martabanica (Kur) Merr. Istaa umbellata (Lour.) Merr. Istacrange kurzil Pax & K.Noffm.	0 F D 0 0 0 0 F D 0 F 0 A A		Polygala tonkinensis Chodat Schims creata Koth. Schoepfia fragrans Wall. Synygium lineatum IDC J Merr. & L.M. Perry Woody Climber:	0 F 0	Adenia sp. Ardisia willoss Ro Arundina gramini Arglenium Brachytome wallin Brachytome wallin Craspedoiobium u Embelia ribes Burr Gleichenia sp. Gorsphosterma sp. Hedyotis sp.	vb. Jolia (D. Don Hochr Jhli Hock f. e-B m f m f. a	0 F 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0

No	Scientific Name	Local Name	Family	IUCN Red List
1	Antidesma japonicum	ເໝົ້າພູ (Mao phou)	Phyllanthaceae	
2	Castanopsis acuminatissima	ກໍ່ເດືອຍ (Kor deau)	Fagaceae	
3	Dacrydium elatum	ຮຶ່ງຫອມ (Hinh hom)	Podocarpaceae	
4	Daphniphyllum majus	ິດກດົງ (Dik dong)	Daphniphyllaceae	
5	Elaeocarpus griffithii	ມູນ (Moun)	Elaeocarpaceae	
6	Exbucklandia tonkinensis	ໂພກາບລາງ (Pho kablang)	Hamamelidaceae	
7	Garcinia pedunculata	ສົ້ມໂມງ (Som mong)	Clusiaceae	
8	Gironniera subaequalis	ຫາງແມງໄອ່ (Hang maeng-ai)	Cannabaceae	
9	Gymnanthes remota	ປິກ (Pik)	Euphorbiaceae	
10	Ilex chapaensis	ໄຂ່ມົດຊາປ່າ (Khai mod sapa)	Aquifoliaceae	
11	Ilex excavata Pierre	ໄຄ້ຂາວ (Khai mod)	Aquifoliaceae	
12	Illicium sp. 1 ***	ຈັນ (Chan)	Schisandraceae	
13	Lindera bokorense	ບິງບໍ່ກໍ (Bong bokor)	Lauraceae	
14	Lithocarpus harmandii	ກໍ່ໝັ້ນ (Kor man)	Fagaceae	
15	Litsea martabanica	ໝີ່ບົງຫອມ (Mee bonghom)	Lauraceae	
16	Litsea umbellata	ບົງຮ້າງ (Bong hang)	Lauraceae	
17	Macaranga kurzii	ແສ້ (Sae)	Euphorbiaceae	
18	Millettia leucantha	ຄຳພີ້ຕາຄວາຍ (Khamphee ta-khouay)	Fabaceae	
19	Morinda sp.	ຍໍປ່າ (Gno pa)	Rubiaceae	
20	Neolitsea zeylanica	ໄຟເດືອນຫ້າ (Fai deuanha)	Lauraceae	
21	Pinus kesiya	ແປກສາມໃບ (Peak sambai)	Pinaceae	
22	Pittosporum pauciflorum	ສຸມດອກນ້ອຍ (Soum dok-noi)	Pittosporaceae	VU
23	Polygala tonkinensis	ຕ້າງໄກ່ (Tang kai)	Polygalaceae	
24	Pyrenaria poilaneana	ໜ້ຽງດົງ (Miang dong)	Theaceae	
25	Quercus langbianensis	ກໍ່ລັງບຽງ (Kor langbian)	Fagaceae	NT
26	Schima crenata	ຄາຍໂສ້ (Khai Soh)	Theaceae	
27	Sterculia lissophylla	ປໍເມືອກ (Por muaek)	Malvaceae	
28	Symplocos wikstroemiifolia	ຄອມປ່ (Khom pa)	Symplocaceae	

Annex 1d-2. Summary of tree species list in the Survey Block 4

Annex 1e-1. Summary of plant plot by Survey Block (SB5 – Phou Yai)

Site name	Sin	vey Block 5 Date an	d Time 22-22	/7/2021	Botanical	dynada 👔	Longitude	0	Monitoring Plat (1		lot 5-1/5-2/5-3/5-4/	0-5/04
Serveyors	Souladeth, P., Soul	khavong, M., Thonphakdy, N., Boutta	ivong, T.						Monitoring Plot Si	re -	0.6 ha	-
Air Temperature ("C)	22	Cloud Cover		Rain	3	Wind		Brief weather description	Cloudy with	moderate-heavy n	an and strong bree	ere .
Habitat types present						Forest protection near Ban Plao						
		Site and vegetat	on description	C			Conditio	n assessment scores and comme	nts (fire, wildlife and)	smart activity)		
	Distr	rubed forest near the village.	dense of midd	lle and young trees		Fixe Combined i Notes on P	NA mpacts within the pro	Engineer Version	ng of vegetation for th	e Transmission Line	Cutting trees is throughout the su	-
n forest habitat describe can	opy, understorey a	ind ground flora	38						A10			
Canopy mean height (m)	.12	Camopy mean cover (%)	.85	Understorey mean height (ni)	5	Understorey mean cover (%)	20	Herbaceous layer mean height	0.5	Herbaceous lay	er mean cover (%)	- 10
Approx age of sampy (yrs)	50	Bare ground cover [%]	15	Water cover (%)		Moss Layer mean height (m)	0.3	Move Layer mean cover (%)	5	1.	Contraction of the second s	
n other habitats record over	and the second se											
Mean veg height (cm)	120	Max veg beight (cm)	260		-							
Vegetation cover [%]	25	Earn ground cover (%)	- 11	Water sines (%)	ų.				-			-
st of dominant species within	the plot that define	e the habitat types and any notable	species (incluff)	ng Red List/Invesive)	_			10				<u> </u>
Species		DAPOR		Species		DAFOR	1	Species			DAFOR	
ter laurinum		D		Heptapleurum cambodianum	1	A		Quertus			A	
porosa terapleura		D		Hex chapaensis		Ŧ		Semecarpus reticulata			0	
porosa yunnanensis		0		Hickum tenuifolium		R		Symplocas therfalla			A	
alakata baccata		A		Lindera annamensis		A		Symplocos wikstroemiifolia			*	
enkara				Lithocarpus harmandii		D		Syzygium antisépticum			志	
alophyllum pistlerum:		D		Lithocarpus pierrei		A		Syzygium clavifionum			A.	
ittella kuu		- E		Litsea cambodianum		A		Syrygium			0	
emelika sp. 1		- R		Litses martabanica		D		Terrutroemia gymnanthera			¥.	
estanopsis acuminatissima		A		Machikus angustifolia		O D ()		Toxicodendron succedaneum			0	_
mamomum ourvifolium		Ŧ		Maxticia pentandra suhipi cambodi	ana -	0		Xanthophyllum sp.1			Ŧ	
numonum		0		Microbrops.		D						
ospyret		0		Nagela flevryt *		+						
seocarpus griffithi		0		Neolitsea zeylanica		F						
gehardtia serrata		0		Nephelium hypoleucum		A						
arcinia pedunculata		0		Pinus kesiya		Å.						
ardenia		0		Pittosporum pautifiorum		F						
ronniera subaequoalia				Podocarpus pligeti		4						
omphandra		0		Polyatthia		0						
niothalamul		0		Polygala tonkinensis		0				-		
mnanthes remota		A		Psychotria	an or an and	0	500					
		98 6876				rt, F - Frequent, O - Occasional, R - I	lare.					
						narked in list using *						
	_			irwas	ve species to be n	narked in list using **						

	DAFOR	Spenes	CIAFON	Species	DAFON
tichum attenuatum Tagawa & Z. Iwats	0	Alsophila costularis Baker	0		
identfron clypearta (Jack) I.C.Nielsen	0	Derris sp.	0		
nia 10.	D	Debra sp.	n.		
cium donianum (Mett.) Tardieu	D	Phyllanthus roseus (Craib & Hutch.) Beille	0		
dwardla japonica (L.f.) Sm.	D	Calamus	F		
ymus mitratus Pierre	D	Canthum	0		
rosmilas paniculata Gagnep.	A	Medinilla septentrionalis (W.W.Sm.) H.L.U	0		
ella ribes Burm.f.	A	Melastoma	0		
ia villosa Roxb.	A	Odontosoria chinensis (L.) 3.5m.			
HUR	A	Okyspora sp.	0		
nthus curtisli King & Gamble	A	Priumatomeriu sp.	0		
ia sp.	R	Rubus rugosus Sm.	0		
dina gramisifolia (D. Don) Hochr	Ŧ	Unknown_Acarthaceae	0		
nia glauca Craib		Unknown_Arecaceae	0		
arpa rubella Lindi.	ŧ	Torenia (p	1		
sedolobium unitugum (Gagnep.) Z. Wei & Pedley	. F.				
nthus himatus (Rods.) Menr.	F				
opogon ip.	F				
ex contrularia Kanth	,				
own_Mentpermatese	有				
the second s	10.7	DAFOR SCALE: D + Dominant, A - Abundant, F	- Frequent, O - Occasional, R - Rare.		
		Red list species to be man			
		invasive species to be man			

Detailed plant plots of the Survey block 5 as below

			- Andrew State of Concession, Name			al Surveys			The second se	and a state of the		
Site nume	Survey 1	block 5	late and Since	7/21/2021	Lelitude	725071	Longitude	1710374	Monitoring Piet (10)		5-1	
Surveyors	Souladeth.	P. Soukhevong M. Thor	phekdy, N., Bouttevong	T.	11				Monitoring Flat Gre	1.5	0114	_
Air Temperature (*C)	23	Cloud Caver	6	Tain.	11	Wind	4	Brief weather deuriptic	in Cibody i	with moderate heavy ra	in and strong to	reeze .
Habitat types present						Forest protection near 8an Pla	100					
		Sile and y	petation description			E State		Condition assessment access and	comments (fire, wildlife or	of human activity)		
						Fire Combined in	NA	Whitle	NA. Human	antivity	Cutting tree	5
	Distrub	ed forest near the vill	age, dense of middl	le and young trees			sects within the s	fat acid martia De	isr-cutting of vegetation for	the Transmission Lines	throughout the	survey site
forest habilat describe sensor, or	olectory and m	mund flame		- 10		41		-				
Canopy mean height (m)	12	Genopy mean cover d	80	Understorey mean height (m)	- 5	Understarrey mean cover (%)	20	Herbaccous layer mean held	0.5	Herbaumous layer men	a cover this	10
Approx age of canopy birst	50	Berr ground cover D		Water ower (N)		Moss Layer manas height (m)	01	Moss Layer mean cover (%)	5	And the second sec	and the second second	
other habitats record overall max	and mean height	t of vegetation						Tana and a second s				
Mean weg height (am)	120	Max veg height jum	260									
Vegetation cover (%)	45	have ground ower ()	1 15	Water ones (NJ	- q		_				_	_
t of duminant species within the pl	ist that define the	e hubitat types and any n	stable species (including	g Red List/Invalue)	0		_				10011111	-
Species	Column Control (Control)		U CH	Television Species		LIAFON		A CHEMICAL CONTRACT OF BEE			DAFOR	
er laurinum Hassk.			0	iles chapsensis Merr.		0		Syzigium antisepticum (Blue			- P.	
orosa terapleura Hance	MUSERS W.		0	Illicium tenuifolium (Ridl.) A.C. Sm.		4		Syzygium clavifiorum (Roxb.		4	D.	
cosa yurnanensis (Pax & K.Hoffm	1. P.P. Metcalf		0	Lindera annamensis H Elu, Laurac		F		Ternstroemia gymnanthera	Wight & Arn.) Sprague		0	
akata baccata (Roxb.) Esser			F	Lithocarpus harmandii (Hickel & A.Car		D		Kanthophyllum sp 3			0	
tkara sp			1	Lithocarpus pierrel (Hickel & A Carrus	ACamus	A						
mellia kissii Wall			F	Utsee cambodianum Leconte								
nellie ap.			8	Machilus angustifolia Mase, Tagane 8	S Yahara	9		Herbaceous/ferma:				
stanopsis acuminatissima (Blume)	N.A.G.O.		1	Microtropis sp		0		Archidendron clypearia Usc	k) I C Nielsen		0	
namomum curvifolium (Lam.) Nee			P	Nephelium hypoleucum Kurs		0		Ardisia villosa Rost.			D.	
eocarpus griffithil (Wight) AGray			0	Pittosporum paucificrum Hook & Arn	ñ	0		Diplazium donianum (Mett.)	Tardieu			
priharidtia serrata Blume			0	Podocarpus pilgeri Foxe		0		Euonymus mitratus Pierre				
rcinia pedunculata Rosh. ex Buch-	Hen		D D	Polygele tunkinensis Chodet		0		rieteroumilas paniculata Ga	gnep.		0	
omiera subaesuoalis Planch			Ő	Psychotria sé.		1		Ophiopopon sp.			0	
mphandra sp.			0	Quertus sp.				Polystichum attenuatum Tag			F	
niothalamus sp.			,	Symplocos theifolia D.Don		A		Syzygium antisepticum (8kan			<i>t</i> .	
mnarithes remota (Steenis) Esser			£.	Symplocos wikstroemilifolia Heyeta		D		Woodwardle japonics (Lf.)	len.		. F.	
				Red	list species to b	utt, F - Frequent, O - Occasional e marked in list using " e marked in list using ""	,≅-Rare					

			Contractor of Contractor			nical Services					Contract of the local distance of the local	
Sile name	Survey I	Hock 5 Date and	lime	7/21/2021	Latitude	723254	Longitude	17100		enitoring Plot (1		
Surveyors	Souladeth	P., Soukhavong, M., Thonphakd	y. N., Bouttavong	17					600	usitiaring Plat S	0e 61 he	
AirTemperature (%)	25	Cloud Cover	4	Itale		Wind	6	ticlef weather a	tesutigition	Cloud	y with moderate-heavy rain and strong	breese
Habitat types present						Forest protection near Ban Plac						
		Site and vegetation	en description			Policy provident from another		undition minument w	ores and comment	ts Hire, withfile	and human activity)	
			and the second second			Fire	NA .	Waddle	NA .		un estielle Cutting to	ees
						Contrined Im	net more					And in case of the local of
	Distrub	ed forest near the village, d	ense of middl	e and young trees		Paster on inge	icts within the p	ist and rearby	Clean-cutting	of vegetation fo	br the Transmission Lines throughout	the survey site
r forest habitat describe canopy, v												
Cenopy mean height (m)	10	Campy mean over [%]	80	Understorey mean height (m)	5	Understorey mean cover (%)	20	Herfautenak lauter m		0.5	Herhaceous layer mean cover (%)	10
Approx age of amony fyrst	50	Bare ground cover (%)	2.0	Water over (%)		Moss Løyer mean height (må	0.1	Mess Layer mean o	over (NJ	. 5		_
e other habitats record overall ma	and the party of t		2.11									
Mean veg height (cm) Vegetation cover (%)	120	Max weg height (om)	160	Witer man (St		18						
Vegetation cover (No	85	Bare ground over (N)	15	water court (S)								
ist of dominant species within the	plot that define it	e habitat types and any notable	species (includio	ng Red List/Invariant								_
Species	and the second se	DATOS	due and backson	Ipercies		DATOR		1	Spectra		DAFOR	
er laurinum Hassk		0		Microtropis sp		0		Alpinia sp.				
orosa terapleura Hance		A		Pinus kesiya Royle ex Gordon	1	D		Archidendron clype	arts (Jack) I.C.Nie	sen.	0	
(ekate baccate (Anxb.) Esser		*		Pittusporum pauciflorum Hook	c & Arn.	0		Breynia glauca Crai	b.		0	
onkara sip.		0		Podocarpus piligeri Foxw.		0		Calamus			0	
mellia kissii Wall.		. F		Psychotria sp.		- P.		Callicarpa rubella	Lindl:		- F	
isteriopsis acuminatissima (Blum	el ADC			Quercus sp.		F.		Diplatium donianu		È		
ronniera subaequoellis Planch	100011 - E	0		Symploces theifelie D.Don		0		Embeila ribes Burm		а	. B:	
omphandra sp.		0		Ternstroemia gymnanthera (W	ight & Am J Sprague	0		Euonymus mitratus			0	
miothelemus sp.		A		Xanthophyllum sp. 3		0		Lasterithus curtisil			- F	
mnanthes remota (Steenis) Esser		+						Lasianthus hirautu				
ex chapaensis Merr		0						Polystichum attenu	atum Tagawa & Z.	twoma.	0	
ndera annamensis H. Liu, Laurac		Ŧ						Smilax conbularia k	with		0	
thocarpus pierrei (Hickel & A.Cam	us) A.Camus	F						Unknoon, Menisper	maceae		8	
taea cambodiánum Lecomte	Salar and	+						Woodwardla japon	ica (L.F.) Sm.		0	
lachilus angustifolia Mase, Tagan	e & Yahara	F		2					12112-221-0			
				DW/OR SCALE D	fied list species to	idant, F - Frequent, O - Occessionel, be marked in list using * be marked in list using **	R - Rare					

Site name Survey	Nock 5 Date and 1	Time	7/21/2031	Botan	ral Surveys 722916	Lungthalie	1711705	lositoring Plot DD I	Number 5-3	
	Cole and	1000	- Testever	Lannade	744744	Linguinez		conturing Plat Size		
Souladeth Souladeth	F. Soukhavong, M., Thorphakdy, P	N. Bouttavong T	t				-			
Air Temperature (°C) 26	Claud Cover	4	Rain	3	Wind	8	Brief weather description	Cloudy	with moderate heavy rain and strong b	este
Habitat types present					Forest protection near Ban 8	Plao				
	Site and regelation	n description					undition assessment searce and concern			
					Hit .	NA.	wildSter NA	Hartter	authity Cutting tree	٤
					the second se	spects within the p	int and newly Clear-curtin	is of vessitation for	the Transmission Lines throughout the	INVEY N
Distru	bed forest near the village, de	nse of middle	and young trees							
orest buildet douribe carage, understorey and g	pround flare		1	1	1	1.	NI I		0	
Canogry mean height (m) 12	Canogramiean caver (%)	60	Understarrey mean height (m)	5	Understorey mean over [%]	20	merhorenna layer mean height (m)	0.5	Herbaceous layer mean some DQ	- N.
layerox sge of canopy (yrs) 50	Bare ground cover (NJ	20	Water ower CNJ		Mrm Layer mean height (m)	0.1	Noss Layer mean sower (%)	5		
other fubilities record overall man and moves heigh										
Mean seg height (cm) 100 Vegetation cover (b) 85	Max weg bright (um)	250	Conception of the local division of the loca							
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ygala tonkneros Chodat F iertus ig: 0	-	Oxyspora sp.		0		Phyllanthus roseus (Craib & Hutch.	Bella	0		
ertus ig. 0		Prismatomeris sp.		0		Pleocnemia sp		R		
		Rabus nagosus Sm.		0		Polystichum attenuatum Tagawa	Z. iwats.	0		
ygsum antisepticum (Blume) Merr. & L.M.Perry (M		Orophyllum sp.		E.		Torenia sp.		E.		
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gium ip. A						Woodwardia japonica (L.f.) 3m.		0		
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				e marked in list using *	o re - rearran					

						Not Serveys					
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Surveyors	Souladeth, 1	F. Soukhavong, M., Thonphakdy,	N. Bouttevong T	e					Monitoring Plot Siz	e Olha	11
Air Temperature (*C)	27	Cloud Cover	9	Balin	8	Wind	5	Brief weather description	Cloudy	with moderate heavy rain and strong	iveeie
Hatelat types present						Forest protection near Ban Pla	e.				
		Site and vegetation	n deuription					andition assessment works and comm	ents (fire, wiktlife a	and human activity)	
	Distrub	ed forest near the village, de	unse of middle	and young trees		Fine Conditional lan Painten un linna	NA part Clara acts within the p	in and nearby Clear-cut		mathivity Cutting to or the Transmission Lines throughout th	
r forest habital describe saropy, and	deratorrey and gro									1	
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Meast veg height (cmi)	120	Max veg height (cm)	Cet	20							
Vegetation cover (%)	80	Mana ground wrent Did	20	Water mere DS	0						
ist of dominant species within the plu Species	it that define the	babilat types and any establic sp DAFOR	pectes (Jeshulling 1	Red List/Invesive1 Species		DAFOR		Species		DAVOR	
per laurinum Massik.		D		Illicium terruifolium (Ridi.) A.C.	Śm.	A		Alpinia sp.		8	
iorosa yunnanensis (Pax & K.Hoffm.)	F.P.Metcolf	0		Undera annamensis H. Liu, Laur		A		Archidendron clypearia (Jack) I.C.N	elsen.	(A)	
alakate baccete (Rostr.) Esser		t.		Lithocarpus pierrei (Hickel & A	Camus) A Camus	A .		Ardiaia villose Roxb.		0	
mkara sp.		3		Litsee cambodiarium Lécomte		D		Clerodendrum sp		P	
lophyllum plaiferum Planch & Trian	14	A		Machilus angustifolia Mase; Ta	igane & Tahara	A		Craspidolobium unijugum (Gegnet			
mellia kissii Wall		1.		Microtropis sp.		0		Diglazium donianum (Mett.) Tardie	ŵ	0	
melliesp				Ragela Revryt (Hickel) de Laub.	*	- A .		Eribelia ribes Surm.l.		A	
estanopsis acuminatissima (8(ume) /		F		Nephelium hypolescum Rurz		A		Euonymus mitratus Pierre		0	
nnamomum curvifolium (Lam.) Ness	T	0		Podocarpus pilgeri Foxw.		0		Overa spi		R	
nnamomum sp		0		Quercus sp.		0		Medinilla septentrionalis (W.W.Sr	1 HFTI		
lospyrds sp.		0		Symplocos theifolia O.Don		0		Ophiopogon sp.	1 (<u>1199</u>)		
mphandra sp.		0		Symplocos wikstroemiifolia Har	vists	0		Oxyspore sp.			
mothelamus sp.		0		Syzygrum clavifiorum (Roxb.) W		A		Rubus rugosus Sm.		0	
mnanthes remota (Steerins) Esser		7		Ternstroemia gymnartheia (Wi		0		Torenia sp.		0	
eptapleurum zf. cambodianum tahan	a & Tegarie	0		Kanthophyllum sp. 3		0					
		43.		DAPOR SCALE D	Red list species to	dant, F - Frequent, O - Occasional, be marked in Not using * be marked in Not using **	R - Rare,				

No	Scientific Name	Local Name	Family	IUCN Red List
1	Acer laurinum	ກ່ວມ (Kuam)	Sapindaceae	
2	Aporosa terapleura	ເໝືອດພູ (Maud phou)	Phyllanthaceae	
3	Aporosa yunnanensis	ເໝືອດໃບແຫຼມ (Maud bai-laem)	Phyllanthaceae	
4	Balakata baccata	ລັບແລ (Lab lae)	Euphorbiaceae	
5	Benkara	ຄັດເຄົ້າ (Khat khao)	Rubiaceae	
6	Calophyllum pisiferum	ກະທຶງ (Ka thueng)	Calophyllaceae	
7	Camellia kissii	ໜ້ຽງອາມ (Miang arm)	Theaceae	
8	Camellia sp.1	ໜ້ຽງ (Miang)	Theaceae	
9	Castanopsis acuminatissima	ກໍ່ເດືອຍ (Kor deau)	Fagaceae	
10	Cinnamomum curvifolium	ຈວງ (Juang)	Lauraceae	
11	Cinnamomum	ຈວງ (Juang)	Lauraceae	
12	Diospyros	ໝາກເກືອ (Mak keau)	Ebenaceae	
13	Elaeocarpus griffithii	ມູນ (Moun)	Elaeocarpaceae	
14	Engelhardtia serrata	ພ່າວຂຽວໜາມ (Phao khiew)	Juglandraceae	
15	Garcinia pedunculata	ສົ້ມໂມງ (Som mong)	Clusiaceae	
16	Gardenia	ພຸດຜາ (Phout pha)	Rubiaceae	
17	Gironniera subaequoalis	ຫາງແມງໄອ່ (Hang maeng-ai)	Cannabaceae	
18	Gomphandra	ພູ່ພ່າ (Phou pha)	Stemonuraceae	
19	Goniothalamus	ເຂົ້າຫຼາມດົງ (Khao-larm dong)	Annonaceae	
20	Gymnanthes remota	ປິກ (Pik)	Euphorbiaceae	
21	Heptapleurum cambodianum	ຕ້າງ (Tang)	Araliaceae	
22	Ilex chapaensis	ໄຂ່ມົດຊາປ່າ (Khai mod sapa)	Aquifoliaceae	
23	Illicium tenuifolium	ຈັນບານ (Chan ban)	Schisandraceae	
24	Lindera annamensis	ລິນດາລາກ້ານແດງ (Lindara Kan- daeng)	Lauraceae	
25	Lithocarpus harmandii	ກໍ່ໝັ້ນ (Kor man)	Fagaceae	
26	Lithocarpus pierrei	ກໍ່ກັກ (Kor Kak)	Fagaceae	
27	Litsea cambodianum	ບົງຂະເໝນ (Bong khmer)	Lauraceae	
28	Litsea martabanica	ໝີ່ບົງຫອມ (Mee bonghom)	Lauraceae	
29	Machilus angustifolia	ຕອງຫອມໃບແຄບ (Tong Hom bai khaeb)	Lauraceae	
30	Mastixia pentandra subsp. cambodiana	ໝາກເຖິ່ນ (Mak thern)	Cornaceae	
31	Microtropis	ຂາງແດງ (Khang daeng)	Celastraceae	
32	Nageia fleuryi	ພະຍາໄມ້ (Phaya mai)	Podocarpaceae	NT
33	Neolitsea zeylanica	ໄຟເດືອນຫ້າ (Fai deuanha)	Lauraceae	
34	Nephelium hypoleucum	ຄໍແລນ (Kho lane)	Sapindaceae	
35	Pinus kesiya	ແປກສາມໃບ (Peak sambai)	Pinaceae	
36	Pittosporum pauciflorum	ສຸມດອກນ້ອຍ (Soum dok-noi)	Pittosporaceae	VU
37	Podocarpus pilgeri	ກະດອງ (Ka-dong)	Podocarpaceae	
38	Polyalthia	ນໍ້າເຕົ້າກົກ (Namtao kok)	Annonaceae	
39	Polygala tonkinensis	ຕ້າງໄກ່ (Tang kai)	Polygalaceae	
40	Psychotria	ດຸກໄກ່ (Douk kai)	Rubiaceae	
41	Quercus	ກໍ່ (Kor)	Fagaceae	
42	Semecarpus reticulata	້ນ້ຳກ້ຽງດຳ (Namkieng dam)	Anacardiaceae	

Annex 1e-2. Summary of tree species list in the Survey Block 5

43	Symplocos theifolia	ເໜືອດດົງ (Maud dong)	Symplocaceae
44	Symplocos wikstroemiifolia	ຄອມປ່ (Khom pa)	Symplocaceae
45	Syzygium antisepticum	ສະເມັກແດງ (Samek deang)	Myrtaceae
46	Syzygium claviflorum	ຫວ້າຫີນ (Wha hin)	Myrtaceae
47	Syzygium	ຫວ້າ (Wha)	Myrtaceae
48	Ternstroemia gymnanthera	ເມືອກ (Mueak)	Pentaphylacaceae
49	Toxicodendron succedaneum	ເບັນຮັກ (Ben hak)	Anacardiaceae
50	Xanthophyllum sp.1	ແສງດົງ (Seng dong)	Polygalaceae

				Cons.	Level of	Level of		Su	rvey B	locks	-		Field Confirmation				Sea	eason
No	Common Name	Scientific Name	Lao Name	status	Report	Detection	SB1	SB2	SB3	SB4	SB5	Seen	Track	Fecal	Other	Photo	Wet	Dr
1	Common Treeshrew	Tupaia glis	Ka tae		L	0	X	X	X	X	X				X	X		X
2	Indochinese ground squirrel	Menetes bernores	Ka tae khanglai		M	0	X	X	X	X	X	X				x	X	>
3	Eurasian Wild pig	Sus scrofa	Mou Pa		Н	C	X	X	X	X	X	X	X		X	X	X	2
4	Wild pig	Sus bucculentus	Mou Pa													X		3
5	Bengal Slow Loris	Nycticebus bengalensis	Ling Lom	EN	н		X	X	x	X	X							T
6	Pygmy Slow Loris	Nycticebus pygmaeus	Ling Lomnoy	EN	L		1000	X	20251		1 - W - 1							
7	Stump-tailed Macaque	Macaca arctoides	Ling din	VU	Н	0		X	X	X	X		X		X	X	X	2
8	Long-tailed Monkey	Macaca fascularis (f)	Ling hang yao	VU	L	0					X					11110		T
9	Clouded Leopard	Neofelis nebulosa	Sua lai mek	VU	L			1										
10	Large antlered Muntjac	Muntiacus vuquangensis	Fan khao nyai	CR	L													
11	Northern Pig-tailed Macaque	Macaca leonina	Ling kang	VU	L						X				X	x		X
12	Northern Buff-cheeked gibbon	Normascus annamensis	Thani kam toun	EN	Н	0	X	X	X	X					X	X	X	
13	Indo. Silvered Leaf Monkey	Trachypithecus Germaini	Ta Lung	EN	M			X	X	X	X					1.000		-
14	Red-shanked Douc Langur	Pygathrix nemaeus	Khadeng	CR	Н	0		X	X	X		X			X		X	1
15	Black Giant Squirrel	Ratufa bicolor	Kadang	1.500	Н	0		X	X	X	X	X			X		X)
16	Long-tailed Giant Rat	Leopoldamys Sabanus	Nou Wai		M	0		X	X	X	X		X		X	X	X	3
17	Greater Bandicot Rat	Bandicota indica	Nou Phouk		Н	101010		X	X	X	X				X	X)
18	Berdmore's berylmys	Berylmys berdmorei	Nou Thongkhao		Н	F	X	X	X	X	X		X		X		X	1
19	Red-Spin Maxomys	Maxomys surifer	Nou Thongluang		Н	0	X	X	X	X	X	-	X		X		X	2
20	House Rat	Rattus Rattus	Nou Ban		Н	0	X	X	x	X	X	-	X	-			X	3
21	Cook's Mouse	Mus cookii	Nou Zing		Н	0	X	X	X	X	X	X	X		X		X	
22	Short-tailed Gymnure	Hylomys suillus			Н	0			X	X	X	X				X	X	+
23	Chinese Pangolin	Manis pentadactyla	Lin Ngua	CR	Н	0	X	X	X	X		-	X		X	X	X	1,
24	Sunda Pangolin	Manis javanica	Lin Khouy	CR	Н	F		X	X	X	-		X		X	X	X)
25	Pallas' Squirrel	Callosciurus erythraeus	Ka Hok Thongdeng		M		X	X	X	X	X	X	-			X	X	3
26	Red-cheeked Squirrel	Drenmomys refigenis	Ka Hok Keamdaeng	-							X					X		2
27	Squirrel spp.	Callosciurus spp.	Ka Hok Moum	-	L			X	-	-	-	-						+
28	Eastern Striped Squirrel	Tamiops maritimus	Ka Len Dong		M	0		X	X	-	X	X					X)
29	Cambodian Striped Squirrel	Tamiops rodolphii	KaLen	-	M	F			X	-		X						3
30	Black Giant Squirrel	Ratufa bicolor	Kadang	-	H	F	X	X	X	X	-	X					X	-
31	Indian Giant Flying Squirrel	Petaurista philippensis	Bang Loua		Н			X	X	X	-	-			x		X	+
32	Phayrei's flying squirrel	Hylopetes phayrei	Bang Tong	-						x	x	-						-
33	Red-cheeked Flying Squirrel	Hylopetes spadicesus	Bang nai	-				1	-	x	X	-	-	-	-	-		+
34	Hoary Bamboo Rat	Rhizomys Pruinosus	Oon Yai		M		-	X	-	X	X	-						+
35	Bamboo Rat	Rhizomys	Oon Noy	-	M			X	1	X	X	-						-
36	Moonrat	Echinosorex gumnarus	Toon	-	M	-		-	-	X	X	-						+
37	East Asian Porcupine	Hystrix brachyura	Men		M			X	X	X		-			X	x	X	>
38	Brush tailed Porcupine	Atherurus macrourus	Hon	-	M				X	X	-	1					X	1
39	Dhole	Cuon alpinus	Ma Nai	EN	M			-		1								+*
40	Binturong	Arctictis Binturong	Ngen Khor	VU	M			-	+	-	-	1		-				+
41	Masked Palm Civet	Paguma larvata	Ngen kheua	10	L	0		-	-	-	X				X	x		3
	Spotted Linsang	a signification of the second	Ngen lingsang	-	1	0		-	-	-	X	-			X	X		X

Annex 2. List of mammal records from the survey area

43	Large Indian Civet	Virverra zibetha	Ngen Feng		Н		X	X	X	X	X	X			Х	X		X
44	Small Indian Civet	Virverricular indica	Ngen Eton		M		X	X	X	X	X	X					X	
45	Common Palm Civet	Paradoxurus hermaphroditu	Ngen Om		М		X	X	X	X	х		X				X	
46	Owston's Civet	Chrotogale owstoni	Ngen Lai Phat khon	EN	L				X	X						Х		X
47	Yellow Throated Marten	Martes flavigular	Ma mai		М			X	X	X	X					X		X
48	Smooth coated Otter	Lutrogale perspicillata	Nak Khon Lep	VU	M			X	X	X	-							X
49	Crab-eating Mongoose	Herpestes urva	Jon Phone kin pu		Н		X	X	X	X	X							X
50	Small Asian Mongoose	Herpestes javanicus	Jon Phonenoy		н		X	X	X	X	X						1	X
51	Asiatic Black Bear	Ursus thibetanus	Mee Khouy	VU	H			Х									X	
52	Sun Bear	Ursus malayanus	Mee Ma	VU	Н	0	X	X	X	X	X		X		X		X	X
53	Great Hog Badger	Arctonyx collaris	Mou Leung	VU	M		_	X	X	X	X				X	X	-	X
54	Small-toothed Ferret Badger	Melogale moschata	Ma Leung		H	0		X	X	X	X				X	X	X	X
55	Leopard Cat	Prionailurus bengalensis	Sua Meo		H	0	X	X	X	X	X		X				X	
56	Chinese Serow	Capricornis milneedwardsii	Nyouang	VU	H	F		X	X	X				X		X	X	X
57	Red Muntjac	Muntiacus muntjac	Fan		Н	0	X	X	X	X		X	X	х	X	X	X	X
58	Annamite Muntjac	Muntiacus truongson	Fan Moh	-	Н	0		X	X	X	X		X	х	X	Х	X	X
59	Sambar Deer	Cervus unicolor	Kuang	VU	Н	0	X	X	X	X	X		X		X	X	X	X
60	Chinese Goral	Naemorhedus greseus	Nyouang Pha	VU	M				X	X	1						1	
61	Annamite Striped Rabbit	Negolagus timminsi	Ka tai lai sua	EN	М													
	Remarks: Level of Report Confi	idence: L = Low. M = Medium a	and H = High: Level of I	etection:	0 = Occasi	onal F = Fr	equent.	C = Cor	nmon		8		50 - 83				5 a	ĺ

			Local Name		IUCN	1	Su	rvey bli	ock	4 1		Survey	season	
1	Common Name	Family and Scientific Name		Recorded by	Redlist	581	582	583	584	5845	Abundance	Wet	Dry	Comments
t		LIZARDS			-	-		-	-				-	
t		Anguidae						-	-	-				
t		Dopasia sokolovi	Ngou din	Recorded by other team member	LC		-		1		?	x		2nd record of Laps
t		Agamidae	1.000.000				-		1	-				
1	Izard	Acanthosaura nataliae	Katang Phou		LC	2	-	2	2	1	2	x	x	
-	izard	Acanthosaura prasina	Katang	Recorded by other team member	2	-	1	-	1	-	2	x		First record of Leos
T		Pseudocalotes ziegleri	Construction of the second sec		DD	-	-	1	1	-	1	x		2nd record of Laos!
t		Pseudocalotes versicolor			LC	1		-	-	-	4	x	x	
t		Scincidae				-	1	-	-	-				
t		Sphenomorphus unid			-	-	-	1	-	-		x		
t		Scincella unid				-	1	1	-	-		x		
t		Scincella unid		Observed only		-	-	1	-	-		X	-	
t		Plestindon guadrilineatus	-	Recorded by other teams	LC	1	-	-	-	-	1	x		First record of Laos? (needs to be confirmed)
t		Gekkonidae		necorded by broat toants			-	-	+	-				The record of cases (names to be continued)
t		Cyrtodactylus pseudoquadrivirgat	hai		LC	2	1	2	3	-	2	x	x	
+		SNAKES	T					-	-	-		-		
t		Colubridae			-	-	-	-	-	-			-	7.0
+		Pseudoxenodon macrops			LC	-	-	-	1	-	-	x		2/2
2		Lycodon ruhstrati abditus			LC	-	-	1	-	-		x	-	
3		Lycodon runstrati additus Hebius boulengeri	-	Found death in stream	LC	-	-	1	-	-		X	-	
		Hebius annamensis		Pound deach in scream	DD	-	-	1	+	+		x		
5		and which the strength of the state of the strength of the str		Recorded by other team member	LC	-		1	-	-		x	-	-
		Rhabdophis chrysargos				-	1		-	-			-	
5		Sibynophis collaris		Recorded by other team member	LC	-	-	1	-	-		x	-	
7		Elaphe taeniura		Recorded by other team member	-	1	1	-	1	1		<u>x</u>		
+		Pareidae			1100	-	-			-			-	
8		Pareas formosensis			LC		-	1	1	-		x	-	
+		Xenodermidae				L	-	-						
,		Fimbrios klossi		Recorded by other team member	LC		-	-	1			×		
		Pseudaspididae			- 2000								-	
)		Psammodynastes pulverulentus		Recorded by other team member	LC		1		2	1		X	X	
		Viperidae	di mar		Period		-							
L		Trimeresurus vogeli	Ngou Khlew		LC	2	-	1	Z .	1	2	X	X	
1	Vhite Lipped Pit Viper	Trimeresurus of albolabris	Ngou Khiew						2			X		Species complex
1		Protobothrops mucrosquamatus	1		LC	1			2	1		×	X	Not rare according to locals, fairly common.
		Elaphidae		1	1000	1.000						100	1991	
1 5	ed River Kriat	Bungarus slowinskii	Ngou Tham than noy	Found death on road, killed by locals.	VU		1					х		
	Kata Santa Santa	Elapidae	Second second second	dia anna an										
5 1	ing Cobra	Ophiophagus hannah	Ngou Chong Ang	Village report only	VU		X	X	X					Not on the map
5 5	pitting Cobra	Naja slamensis	Ngou hao	Village report only	VU		X	X	X	x				Not on the map, only confident report
Т		Pythonidae	Second and a second										-	
E	urmese Python	Python bivittatus	Ngou Leam	Village report only	VU		X	X	X	X			1	Not on the map, only confident report
T		Testudinidae	1.0000000000000000000000000000000000000	Construction of the second				1					-	
E	longated Tortoise	Indotestudo elongata	Tao Phek	Village report only	EN	X	x	X						Not on the map
		Manouria impressa	Tao Deuay		VU	x	x	X	X				x	Not on the map, its carapace was seen in villages
T		Geoemynidae	Contraction of the second		111111		-							
1	eeled Box Turtle	Cuora mouhatil	Tao	Village report only	EN		x	X	x					Not on the map
ť		Trionychidae					-	-						
di.	siatic soft-shell Turtle		Pa Fa Ong		VU			x	X				-	
	hinese soft-shell Turth		Pa Fa Ong Chin		VU	X	x		-				x	It was found by local villager of Ban Dak Dom
		Concernence and annual and a	COLUMN STOR SHITT			-				-				the reaction of the state of the barry of the barry

Annex 3a. List of herpetofauna (reptile) records from the survey area

				Recorded by	IUCN		s	urvey b	lock		Survey	season		
	Common Name	Scientific Name	Local Name		Redlist	581	SB2	583	SB4	SB45	Wet	Dry	Abundance	Comments
		Bufonidae												
1		Duttaphrynus melanosticus			LC					1	×			Very common in open/ disturbed area. Dakcheung to
2		ingerophrynus galeatus			LC			1	2		x		2	
		Ranidae					1						2	
3		Odorrana morafkai			LC	5	5	5	5	2	×		5	
4		Odorrana banaorum			LC	3	3	3	4		×		4	
5		Odorrana khalam			LC	1					×		1	
6		Odorrana absita			LC			1			N.		1	
7		Odorrana sp.						1			×		1	With green on limbs
8		Papurana milleti			LC			2 3	5	2	ĸ		4	
9		Papurana attigua			LC	13	1	1.3	2	1	x		3	
10		Sylvirana montosa			LC				1		×	×	ó	la contra de la co
11		Amolops spinapectoralis			LC			3			×		2	First record of Laos! Found only locally.
		Dicroglossidae												and the state of the second se
12		Fejervarya limnocharis			LC					1	×	х	4	Abundant in disturbed areas.
13		Quasipaa sp.									×			Undescribed species
14		Limnonectes cf taylori			LC		3	E .			x	X		
15		Limnonectes kiziriani			LC			L			×	×.		
16		Limnonectes poilani			LC						x	- 600		First record of Laos!
17		Spiny torrest						3	4	2		- X	4	
		Megophryidae				1	1	1	1	1	1			
18		Ophryophryne hansi			DD	4	3	4	5	1			4	Common along forest streams
19		Ophryophryne poilani						1			*			
20		Leptobrachella firthi				2	-							First record of Laos!
21		Leptobrachella unid.				1	-		-	-	*	-		
22		Brachytarsophrys intermedia		Found by local people	LC	-	2	-	-					Near Dakchung township
23		Xenophrys cf maosonensis				-	3		5	-	×		4	Undescribed species
-		Microhylidae				-	-	-						
24		Microhyla berdmorei				-	-	-	-	-	*			
25		Microhyla butleri				-			1					Only found in open disturbed area
26		Microhyla heymonsi	1			-		-	-	-	*			Only found in open disturbed area
27		Micryletta sp.				-		1	1					Only found in open disturbed area
28		Nanohyla marmorata			LC	1		2	4	1	*			
29		Nanohyla nanapollexa		Just observed	DD	1	-	-	-	-		-		

Annex 3b. List of herpetofauna (amphibian) records from the survey area

	Rhacophoridae									
30	Raorchestes sp.				1			×		
31	Kurixalus baliogaster	LC	1		1	3	2	x		More common at open areas
32	Kurixalus odontotarsus	LC				5	1	x		Locally distributed
33 Serrate Frilled Treefr	rog Kurixalus of gryllus	VU				1		x	1	Seems rare
34	Zhangixalus feae	LC	1		1			x	2	
35	Rhacophorus robertingeri	LC	3		3		1	×	4	
36	Rhacophorus sp nov			1				×		Undescribed species. Found in open area
37	Theloderma gordoni	LC				1		×		
38	Theloderma truongsonensis	DD				1		×		First record of Laos!
39	Gracixalus supercornutus	NT	1			2		×		Locally fairly abundant e.g northern Phou Koungkin
40	Polypedates megachephalus	150						x		Common species of open and disturbed habitats.
41	Polypedates impresus			1	1			×		
42	Polypedates sp.7			1				×		Unusual red coloration, appears overall different
	Remarks: Abundance: 1. Rare/Low = 1; 2. Occasiona	nl = 2-5; 3. Frequent =5-10; 4. Co	winmon -	10-20;	5. Abun	dant >2	0			