

### 3.7 Flora and Fauna Survey

The baseline data on terrestrial ecology, covering both flora and fauna are derived from existing literature of Botanical Survey of India, Zoological Survey of India and on past studies conducted in the area by other organizations and corroborated through field studies during January 2009 to March 2009. The overall floral and faunal composition in the study area is good and is comparable to the neighbouring areas. The general growth of most of the plants in the study area is found to be normal. The fauna is listed on the basis of species sighted during field investigation. The data on the aquatic life of the water bodies in the study area is derived from existing literature and through collection of samples and their analysis conducted during January 2009 and March 2009.

Proposed Lekhapani OCP is located in the north-central region of Makum coalfield in Tinsukia district of Assam. The block lies about 15 kms northeast of Margherita town. The nearest railway station is Ledo, which is located at a distance of nearly 10 kms from the project on the Dibrugarh- Tinsukia section of NF Railway. The National Highway 38, running east- west passes about 3.5 kms north of the project and connects the area with the rest of the country. The block can be approached from Margherita by NH- 38 and then through the kuttcha approach road from Sindhi village.

#### **FLORA AND FAUNA SURVEY/ ECOLOGICAL STUDY**

The **Lekhapani OCP project** area (325 hc.) is situated in the Tinsukia district of Upper Assam. The location falls under the Lekhapani RF. Broadly the area comes under the Indo-Burma biodiversity hotspot. The region's climate is generally subtropical in nature with high rainfall (2000 – 3000 mm per annum), moderate to high temperature (Min. 6 – 25 °C and Max. 20 – 45 °C) and high humidity (35% Min and 95% Max). Four distinct climatic seasons can be identified in a year: Pre-monsoon, Monsoon, Post Monsoon and Winter.

The landscape of the proposed project area represents a complex of agricultural land, rural habitation, hilly forests, industrial establishments and patches of

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vegetation. The surface is hilly, rolling and undulating with a distinct northerly slope towards river Buri-Dehing. The land area in the fringe comprised of- (a) Cultivated land and b) Tea Gardens (c) Other surface features like industrial establishment, road, Tipong and Lekhapani river and few streams, settlement areas etc.

### 3.7.1 **FLORA & FAUNA**

This survey report has been prepared covering both **Proposed Activity/Core Zone (PA)** area where coal mining will be carried out and **Fringe area of the Proposed Activity/Buffer Zone (FPA)**. The PA area of Lekhapani OCP falls in the state of Assam and FPA area covers the states of Assam and Arunachal Pradesh (south side from a distance of approximately 10 km. onwards). NH 38 and Railway line passes through the study area.

The PA area of Lekhapani OCP which covers an area of 235 hectares falls inside the Lekhapani Reserve Forest which has a total of 1,396.761 hectares area i.e. 16.82% of the reserve forest. The FPA area covers 10 kms. (periphery of Core zone) arial radius from the proposed project side. The western part of the PA area is bordered by a village name Mullung No. 221 which is approximately 3 km. away from the proposed project side and the NH 38 is in the northern side. The southern boundary covers the inter state boundary with Arunachal Pradesh whereas the eastern most part is shared with the Tipong Reserve Forest and partially by the Proposed Tipong Reserve towards the south eastern part. There is no human habitation.

The Flora-fauna survey covered mainly the areas having forest cover and the main water bodies together with the vegetation and small ponds in the adjacent villages.

The vegetation consists of forest areas in the interiors and multiple variety of vegetation on the fringes of the hills. Some wild animals also exist in these forest areas. The forest in this area is broadly known as Tropical Wet Evergreen Forest or Upper Assam Dipterocarpus Musua Forest (Champion and South Classification – 1 B/C).

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### 3.7.2 **FLORA**

#### **Methodology**

The field survey was carried out in the PA and FPA areas through the existing forest trails. The survey was covered by a team of three qualified persons in the time period of 100 man hours covering approximately 50 km.

The period of survey was January to March 2009 i.e., during winter season. Only the existing species in the field were recorded. The species which could not be identified was brought to the laboratory for final identification. Except listing of the species no density, abundance of the species was done.

#### **Floral evaluation**

A Total of 83 species of plants within the PA were recorded. Apart from that 191 species of plants were recorded from the fringe areas which comprises of herbs, shrubs, canes, orchids, vegetables medicinal plants and trees.

#### **Abbreviations used**

<b>CR</b>	: Critically Endangered
<b>EN</b>	: Endangered
<b>LC</b>	: Least Concerned
<b>NT</b>	: Near Threatened
<b>VU</b>	: Vulnerable
<b>IUCN</b>	: International Union for Conservation of Flora and Fauna
<b>PA</b>	: Proposed Activity ( <b><i>Core Zone</i></b> )
<b>FPA</b>	: Fringe Area of Proposed Activity ( <b><i>Buffer Zone</i></b> )
<b>*</b>	: Denotes availability of the species

**Herbs & Shrubs**

Sl. No.	Local Name	Scientific Name	PA	FPA
1	Gondhoa ban	<i>Ageratum conyzoids</i>	*	*
2	Hati khutura	<i>Amaranthus spinosa</i>	*	*
3	Khutura	<i>Amaranthus viridis</i>	*	*
4	Jati bah	<i>Bambosa nutans</i>	*	*
5	Khar pat	<i>Cassia alata</i>	*	*
6	Medeluwa	<i>Cassia sophera</i>		*
7	Bor manimuni	<i>Centella asiatica</i>	*	*
8	Bon guti	<i>Chrysopogan aciculatus</i>	*	*
9	Bhet tita	<i>Clerodendron viscosum</i>	*	*
10	Akashi lata	<i>Cuscuta reflexa</i>	*	*
11	Dubari bon	<i>Cynadan dactylon</i>		*
12	Dhatura	<i>Datura sp.</i>	*	*
13	Jarmani bon	<i>Eupatorium odoratum</i>	*	*
14	Dudh bon	<i>Euphorbia hirta</i>		*
15	Saru manimuni	<i>Hydrocotyle japonica</i>		*
16	Ulu kher	<i>Imperata cylindrica</i>		*
17	Goo phool	<i>Lantana camara</i>	*	*
18	Doron	<i>Lucus aspera</i>	*	*
19	Futkala	<i>Melastoma malabathricum</i>		**
20	Japani habi	<i>Mikania scandens</i>	*	*
21	Lajuki lata	<i>Mimosa pudica</i>	*	*
22	Narasingha	<i>Murraya koenigi</i>		*
23	Tulasi	<i>Ocimum sanctum</i>		*
24	Pani amlakhi	<i>Phyllanthus niruri</i>		*
25	Agachhit	<i>Plumbago sp.</i>		*
26	Beh	<i>Polygonum hydropiper</i>		*
27	Barli bokua	<i>Pouzalzia zeylanicia</i>		*
28	Era goch	<i>Ricinus communis</i>		*
29	Bar palang	<i>Rumex maritimus</i>		*
30	Kahua	<i>Saccharum spontaneum</i>		*
31	Hostikana lata	<i>Smilax sp.</i>		*
32	Tita vekuri	<i>Solanum indicum</i>	*	*
33	Akashilata	<i>Cuscuta reflexa</i>	*	*
34	Aparajita	<i>Clitorea ternate</i>	*	*
35	Kathalu	<i>Dioscorea sp.</i>		*
36	Nag	<i>Mikania scandens</i>	*	*
37	Pan	<i>Piper betel</i>		*
38	Bhedai lata	<i>Paederia scandens</i>	*	*

**Canes**

Sl. No.	Local Name	Scientific Name	PA	FPA
1	Raidang	<i>Calamus erectus</i>	*	*
2	Jati bet	<i>Calamus tenuis</i>	*	*

**Orchids**

SI. No.	Local Name	Scientific Name	PA	FPA
1	Kapau phool	<i>Vanda roxburghii</i>	*	*
2	Bhatau phool	<i>Vanda teres</i>	*	*
3		<i>Liparis viridifolia</i>	*	*
4		<i>Gastrochilus assamica</i>		*
5		<i>Dendrobium bobile</i>	*	*
6		<i>Dendrobium sp. 1</i>	*	*
7		<i>Dendrobium sp. 2</i>		*

**Cultivated vegetables in the Fringe Area**

SI.No.	Local Name	Scientific Name	FPA
1	Ol kachu	<i>Amorphophallus campanulatus</i>	*
2	Bhendi	<i>Abelmoschus esculentus</i>	*
3	Chal komora	<i>Banincasa hispida</i>	*
4	Sariah	<i>Brassica campestris</i>	*
5	Boga sariah	<i>B. alba</i>	*
6	Lai	<i>B. oleracea varjuncea</i>	*
7	Bondha kabi	<i>B. oleracea var capitata</i>	*
8	Ol kabi	<i>B. caulocarpa</i>	*
9	Phool kabi	<i>B. gongylodes oleracea</i>	*
10	Ranga lao	<i>Cucurbita maxima</i>	*
11	Tiauh	<i>Cucumis sativam</i>	*
12	Amita	<i>Carica papaya</i>	*
13	Kath alu	<i>Dioscorea alata</i>	*
14	Gajar	<i>Daucus carota</i>	*
15	Urohi	<i>Dolichos lablab</i>	*
16	Ranga alu	<i>Ipomea batata</i>	*
17	Bilahi	<i>Lycopersium esculantum</i>	*
18	Jika	<i>Luffa acutangula</i>	*
19	Bhol	<i>Luffa cylindrical</i>	*
20	Jati lao	<i>Lageraria vulgaris</i>	*
21	Sajina	<i>Moringa oleifera</i>	*
22	Pudina	<i>Mautha arveusis</i>	*
23	Narasingha	<i>Murraya koeningi</i>	*
24	Kerela	<i>Momordica charantia</i>	*
25	Bhat kerela	<i>Momordica cochinchineusis</i>	*
26	Kach kal	<i>Musa paradisica</i>	*
27	Kal	<i>Musa sapientum</i>	*
29	Bhedai lata	<i>Paedaria foetida</i>	*
30	Mati mah	<i>Phaseolus radiate</i>	*

SI.No.	Local Name	Scientific Name	FPA
31	French bean	<i>Phaseolus vulgaris</i>	*
32	Mula	<i>Raphanus sativum</i>	*
33	Paleng sak	<i>Spinacea oleracea</i>	*
34	Alu	<i>Solanum tuberosum</i>	*
35	Begena	<i>Solanum melongera</i>	*
36	Dangbodi	<i>Vigna catjung</i>	*

### Medicinal Plants

SI. No.	Local Name	Scientific Name	PA	FPA
1	Basak	<i>Adhatoda vasica</i>		*
2	Bael	<i>Aegle marmelos</i>		*
3	Sal kunwari	<i>Aloe vera</i>		*
4	Satiana	<i>Alstonia scholaris</i>	*	*
5	Atlos	<i>Anona reticulate</i>		*
6	Kardoi	<i>Averrhoa carambola</i>		*
7	Neem	<i>Azadiracta indica</i>		*
8	Dupar tenga	<i>Bryophyllum calycinum</i>	*	*
9	Sonaru	<i>Cassia fistula</i>		*
10	Bar manimuni	<i>Centella asiatica</i>		*
11	Aparajita	<i>Clitoria tenata</i>		*
12	Dubari	<i>Cynodon dactylon</i>		*
13	Outenga	<i>Dillenia indica</i>		*
14	Kala jamu	<i>Eugenia jambolana</i>		*
15	Dudh ban	<i>Euphorbia hirta</i>		*
16	Dimaru	<i>Ficus glomerata</i>		*
17	Bor thekera	<i>Garcinia pedunculata</i>	*	*
18	Boga doron	<i>Leucus linifolia</i>		*
19	Lajuki lata	<i>Mimosa pudica</i>		*
20	Champa	<i>Michelia champaka</i>		*
21	Narasingha	<i>Murraya koenigi</i>		*
22	Bhim kol	<i>Musa sapientum</i>		*
23	Ram tulosi	<i>Ocimum gratissimum</i>		*
24	Krishna tulosi	<i>Ocimum sanctum</i>		*
25	Amlakhi	<i>Phyllanthus emblica</i>		*
26	Dalim	<i>Punica granatum</i>		*
27	Tita bhekuri	<i>Solanum indicum</i>	*	*
28	Amora	<i>Spondius mangiferce</i>		*
29	Teteli	<i>Tamarindus indica</i>		*
30	Silikha	<i>Terminalia chebula</i>	*	*
31	Ada	<i>Zingiber officinales</i>		*

**Trees Species in the PA and FPA**

SI. No.	Local Name	Scientific Name	PA	FPA
1	Aam	<i>Mangifera indica</i>		*
2	Debadaru	<i>Polyalthia longifolia</i>		*
3	Atlas	<i>Annona squamosa</i>		*
4	Satiana	<i>Alistonia scholaris</i>		*
5	Simalu	<i>Bombax ceiba</i>	*	*
6	Dhuna	<i>Canarium bengalensis</i>	*	*
7	Karach	<i>Pongamia pinnata</i>	*	
8	Radhasura	<i>Delonix regia</i>		*
9	Krishnasura	<i>Caespinia pulcherima</i>		*
10	Kanchan	<i>Bauhinia variegata</i>	*	*
11	Nahar	<i>Mesua ferrea</i>		*
12	Silikha	<i>Terminalia chebula</i>	*	*
13	Hollokh	<i>Terminalia myriocarpa</i>		*
14	Arjun gosh	<i>Terminalia arjuna</i>	*	*
15	Bheleu	<i>Tetrameles nudiflora</i>		*
16	Outenga	<i>Dillenia indica</i>	*	*
17	Hollong	<i>Dipterocarpus macrocarpus</i>	*	*
18	Uriam	<i>Bischofia javanica</i>		*
19	Leteku	<i>Baccaurea sapida</i>		*
20	Palas	<i>Butea monosperma</i>	*	*
21	Sida	<i>Lagerstroemia parviflora</i>	*	*
22	Ajaha	<i>Lagerstroemia Speciosa</i>	*	*
23	Titachopa	<i>Michelia champaca</i>		*
24	Ghoraneem	<i>Melia azedarch</i>		*
25	Mahaneem	<i>Azadirachta indica</i>		*
26	Moj	<i>Acacia auriculiformis</i>	*	*
27	Sirish	<i>Alibizza lebbek</i>		*
28	Dimaru	<i>Ficus hispida</i>	*	*
29	Ahat	<i>Ficus religiosa</i>		*
30	Kathal	<i>Artocarpus intergifolia</i>		*
31	Madhuriam	<i>Psidium gujava</i>	*	*
32	Bogijamu	<i>Eugenia pracco</i>		*
33	Narikal	<i>Cocoss nucifera</i>		*
34	Bagari	<i>Zyzphus jujuba</i>		*
35	Kadam	<i>Anthocephalus sinensis</i>		*
36	Bel	<i>Aegle marmelos</i>		*

37	Rabab tenga	<i>Citrus grandis</i>	*	*
38	Borpat	<i>Alianthus grandis</i>	*	*
39	Kanak champa	<i>Pterospermum acerifolium</i>		*
40	Gameri	<i>Gmelina arborea</i>		*
41	Segun	<i>Tectona grandis</i>		*

### 3.7.3 **FAUNA**

#### **Methodology**

Forest trail and water bodies were surveyed during winter. Random survey for the fauna was also carried out and recorded both in the PA and FPA. Secondary data was also collected. These covers scats, dung, sign etc., interview with the forest officials and knowledgeable persons of the areas.

The observation on the animal communities within the study area has shown a wide diversity of species composition from lower to higher taxa. The survey reveals that a number of species of animals are present within the area. These animals are the representatives of Protozoans, Rotifers, Mollusca, Arthropods, Fishes, Amphibia, Reptiles, Birds and Mammals.

The diversity of butterfly are high. Butterflies are very sensitive to environmental changes due to pollution. The species diversity and respective population however suggests that the area is free from harmful pollutants that can adversely affect the butterfly population, as of now. It can be concluded that the 10 km area surrounding the Lekhapani OCP area is still a conducive habitat for number of animal species and no visible environmental impact is noticed during the study period.

#### **Proposed Area and Fringe Proposed Area results:**

The faunal species spotted in the PA (core zone) and FPA (buffer zone) area are listed below:

**Aquatic Invertebrates (Protozoa/ Porifera/ Mollusca)**

Sl. No.	Scientific Name	PA	FPA
1	<i>Eugelina</i> sp.	*	*
2	<i>Prarmoecium</i> sp.	*	*
3	<i>Volvox</i> sp.	*	*
4	<i>Hydra</i> sp.	*	*
5	<i>Unio</i> sp.	*	*
6	<i>Pila globosa</i>	*	*

**Crustacea of PA and FPA**

Sl. No.	Scientific Name	PA	FPA
1	<i>Cypris</i> sp.	*	*
2	<i>Diaptamous</i> sp.	*	*
3	<i>Daphnia</i> sp.	*	*
4	<i>Eubbranchipus</i> sp.	*	*
5	<i>Palaemonetes</i> sp.	*	*

**Water Bugs**

Sl. No.	Scientific Name	PA	FPA
1	<i>Belostoma</i>	*	*
2	<i>Notonecta</i>	*	*
3	<i>Ranatra</i>	*	*

**Annelids**

Sl. No.	Common Name	Scientific Name	PA	FPA
1	Earthworm	<i>Lampito mauritii</i>	*	*
2	Earthworm	<i>Drawida calebi</i>	*	*
3	Leech	<i>Hirudinaria granulose</i>	*	*

**Arthropods of PA and FPA**

Sl. No.	Species Groups Found	PA	FPA
1	Honey bee	*	*
2	Dragon fly	*	*
3	Grass hopper	*	*
4	Garden spider	*	*
5	Common millipede	*	*
6	Common centipedes	*	*
7	Termites	*	*
8	Tree cricket	*	*
9	Indian scorpion	*	*

**Butterflies: (Five families of Butterflies Recorded were as follows)****FAMILY: PAPILIONIDAE**

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Status
1	White Dragontail	<i>Lamproptera curius</i>	*	*	-	-
2	Great Windmill	<i>Atrophaneura dasarada dasarada</i>		*	-	-
3	Common Windmill	<i>Atrophaneura polyeuctes</i>	*	*	-	-
4	Common Batwing	<i>Atrophaneura varuna astorion</i>		*	-	-
5	Common Jay	<i>Graphium dorson axion</i>		*	-	-
6	Veined Jay	<i>Graphium chironides</i>	*	*	-	-
7	Common Bluebottle	<i>Graphium sarpedon sarpendon</i>		*	-	-
8	Glassy Bluebottle	<i>Graphium cloanthus</i>	*	*	-	-
9	Common Rose	<i>Pachliopta aristolochiae</i>		*	-	-
10	Blue Peacock	<i>Priniceps arcturus arcturus</i>		*	-	-
11	Red Helen	<i>Priniceps helenus helenus</i>		*	-	-
12	Common Mormon	<i>Priniceps polytes romulus</i>		*	-	-
13	Crimson Rose	<i>Atrophaneura hector</i>	*		-	LC
14	Common Birdwing	<i>Triodes helena cereberus</i>	*	*	-	-
15	Common Raven	<i>Priniceps polyctor ganesa</i>		*	-	-

**FAMILY: PIRIDAE**

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Status
1	Common Albatross	<i>Appias albina darada</i>	*	*	-	-
2	Plain Puffin	<i>Appias indra indra</i>		*	-	-
3	Stripped Albatross	<i>Appias libythea.</i>		*	Schedule-IV	-
4	Common Emigrant	<i>Catopsilia pomona</i>		*	-	-
5	Common Gull	<i>Cepora nerissa nerissa</i>	*		-	-
6	Common Jezebel	<i>Delias eucharis</i>	*	*	-	-
7	Painted Jezebel	<i>Delias hyparete</i>		*	-	-
8	One Spot Grass Yellow	<i>Eurema andersoni andersoni</i>		*	-	-
9	Small Grass Yellow	<i>Eurema brigitta rubella</i>		*	-	-
10	Common Grass Yellow	<i>Eurema hecabe contubernalis</i>		*	-	-
11	Common Wanderer	<i>Pareronia valeria</i>	*		-	-
12	Indian Cabbage White	<i>Pieris canidia indica</i>		*	-	-

**FAMILY: LYCAENIDAE**

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Status
1	Common Hedge Blue	<i>Acetolepis puspa gisca</i>	*	*	-	-
2	Angled Pierrot	<i>Caleta caleta decidia</i>		*	-	-
3	Purple Sapphire	<i>Heliophorus epicles indicus</i>	*	*	-	-
4	Pointed Lineblue	<i>Ionolyce helicon</i>		*	-	-
5	Mettalic Cerulean	<i>Jamides alecto eurysacaes</i>		*	-	-
6	Common Cerulean	<i>Jamides celeno celona</i>	*	*	-	-
7	Glistening Cerulean	<i>Jamides elpis palissa</i>			-	-
8	Branded Yamfly	<i>Yasoda tripunctata</i>		*	-	-
9	Common Onyx	<i>Horaga onyx</i>	*		-	-
10	Common Gem	<i>Poritia hewitsoni hewitsoni</i>		*	Schedule-II	-
11	Banded Line Blue	<i>Prosotas aluta coelestis</i>	*	*	-	-
12	Pale Grass Blue	<i>Pseudozizeeria maha</i>		*	-	-
13	Common Acacia Blue	<i>Surendra quercetorum quercetorum</i>	*	*	-	-
14	Indian Sunbean	<i>Thetis thetis</i>		*	-	-
15	Common Imperial	<i>Cheritra freja freja</i>	*		-	-
16	Tiny Grass Blue	<i>Zizula hylax</i>		*	-	-

**FAMILY: NYMPHALIDAE**

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Status
1	Common Castor	<i>Ariadne merione assama</i>		*	-	-
2	Large Yeoman	<i>Cirrochroa aoris aoris</i>		*	-	-
3	Common Yeoman	<i>Cirrochroa tyche mithila</i>		*	-	-
4	Common Map	<i>Cyrestis thyodamas thyodamas</i>		*	-	-
5	Plain Tiger	<i>Danaus (Anosia) chrysippus</i>		*	-	-
6	Common Tiger	<i>Danaus (Salathura) genutia</i>		*	-	-
7	Common Palmfly	<i>Elymnias hypermnestra undularis</i>		*	-	-
8	Common Crow	<i>Euploea core core</i>		*	-	-
9	Double-Branded Crow	<i>Euploea sylvester hopei</i>	*		-	-
10	Gaudy Baron	<i>Euthalia lubentina indica</i>		*	-	-
11	Common Faun	<i>Faunis canens arcesilauns</i>	*		Schedule-II	-
12	Common Evening Brown	<i>Melanitis leda ismene</i>		*	-	-
13	Bushbrown Common	<i>Mycalesis perseus blasius</i>		*	-	-
14	Common Sailer	<i>Neptis hylas varmona</i>		*	-	-
15	Glassy Tiger	<i>Parantica aglea melanoides</i>	*	*	-	-
16	Chocolate Tiger	<i>Parantica melaneus platiniston</i>		*	-	-
17	Common Sergeant	<i>Parathyma perius</i>		*	-	-
18	Common Nawab	<i>Polyura athamas athamas</i>	*	*	-	-
19	Grey Pansy	<i>Precis atlites allites</i>		*	-	-
20	Common Jester	<i>Symbrenthia lilaea khasiana</i>	*	*	-	-
21	Blue Tiger	<i>Tirumala limniace leopardus</i>		*	-	-
22	Common Three Ring	<i>Ypthima asterope maharatta</i>	*		-	-
23	Common Four Ring	<i>Ypthima hubenri hubenri</i>	*	*	-	-

**FAMILY: HESPERIIDAE**

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Status
1	Pale Green Awlet	<i>Bibasis gomota</i>	*	*	-	-
2	Indian Awlking	<i>Choaspes benjaminii</i>	*	*	-	-
3	Common Awl	<i>Hasora badra</i>	*	*	-	-
4	Common Demon	<i>Notocrypta paraalsys</i>	*		-	-
5	Common Small Flat	<i>Sarangesa dasahara</i>		*	-	-
6	Indian Skipper	<i>Spialia galba</i>		*	-	-
7	Indian Palm Bob	<i>Suastus gremius</i>	*		-	-
8	Spotted Snow Flat	<i>Tagiades menaka</i>		*	-	-

**Fish Species of PA and PFA**

Sl. No.	Common Name	Scientific Name	PA	FPA
1	Kanduli	<i>Natopterus notopterus</i>		*
2	Doricana	<i>Esomus danricus</i>		*
3	Doricana	<i>Rasbora daniconius</i>		*
4	Puthi	<i>Puntius chola</i>		*
5	Puthi	<i>Puntius conchoniis</i>		*
6	Rohu	<i>Labeo rohita</i>		*
7	Mirka	<i>Cirrhina mrigala</i>		*
8	Magur	<i>Clarius batrachus</i>		*
9	Goroi	<i>Channa punctatus</i>		*
10	Cheng	<i>Channa gasua</i>	*	*
11	Kuchia	<i>Monopterusuchia</i>	*	*
12	Koi	<i>Anabas testudineus</i>		*
13	Bami	<i>Mastacembalus armatus</i>		*
14	Singi	<i>Heteropneustes fossilis</i>		*

**Reptiles of PA and FPA**

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Status
1	Common house lizard	<i>Hemidactylus flaviviridis</i>		*	-	-
2	Garden lizard	<i>Calotes versicolour</i>	*	*	-	-
3	Monitor Lizard	<i>Varanus salvato.</i>		*	Schedule-II	-
4	Chekered Keelbacked	<i>Xanochrophis piscator</i>		*	Schedule-II	-
5	Common blind snake	<i>Typhlina bramima</i>	*	*	Schedule-IV	-
6	Common Rat snake	<i>Ptyas mucosus</i>	*	*	Schedule-II	-
7	Monocoelate Cobra	<i>Naja kouthia</i>		*	Schedule-II	-
8	King Cobra	<i>Ophiocephalus hannah</i>		*	Schedule-II	VU
9	Banded Krait	<i>Bangurus bungaroides</i>		*	Schedule-III	-
10	Rednecked Keelback Snake	<i>Rhabdophis subminiatus</i>	*		Schedule-IV	-
11	Bufsrtipped Keelback Snake	<i>Amphiesma stolatum</i>	*	*	Schedule-IV	-

**Birds fauna in the PA and FPA**

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Status
1	Fowljungle, Red	<i>Gallus gallus</i>	*	*	Schedule-IV	-
2	Rufous Woodpecker	<i>Celeus brachyurus</i>	*	*	Schedule-IV	-
3	Pale-headed Woodpecker	<i>Gecinulus grantia</i>	*	*	Schedule-IV	-
4	Lineated Barbet	<i>Megalaima lineata</i>		*	-	-
5	Blue Throated Barbet	<i>Megalaima asiatica</i>	*	*	-	-
6	Great Indian Hornbill	<i>Bucerus bicornis</i>		*	Schedule-I	NT
7	Hoopoe	<i>Upupa epops</i>		*	-	-
8	Roller, Indian	<i>Coracias benghalensis</i>		*	Schedule-IV	-
9	Common Kingfisher,	<i>Alcedo atthis</i>		*	-	-
10	White-throated Kingfisher	<i>Halcyon smyrnesis</i>		*	-	-
11	Green Bee-eater	<i>Merops orientalis</i>		*	-	-
12	Cuckoo, Plaintive	<i>Cacomantis merulinus</i>	*	*	-	-
13	Asian Koel	<i>Eudynamys scolopacea</i>	*	*	-	-
14	Red breasted Parakeet	<i>Psittacula alexndri</i>		*	Schedule-IV	-
15	Grey-Headed Parakeet	<i>Psittacula finschii</i>	*	*	Schedule-IV	-
16	Asian Palm Swift	<i>Cypsiurus balasiensis</i>		*	-	-
17	House Swift	<i>Apus affinis</i>		*	-	-
18	Oriental Bay Owl	<i>Phodilus badius</i>	*		Schedule-IV	-
19	Spotted Dove	<i>Streptopelia chinensis</i>		*	Schedule-IV	-
20	Pin-Tailed Green Pigeon	<i>Treron apicauda</i>	*	*	Schedule-IV	-
21	Black Kite	<i>Milvus migrans lineatus</i>		*	-	-
22	Darter	<i>Anhinga melanogaster</i>		*	-	-
23	Little Cormorant	<i>Phalacrocorax niger</i>		*	Schedule-IV	-
24	Little Egret	<i>Egretta garzetta</i>		*	-	-
25	Little Heron	<i>Butorides striateus</i>		*	-	-
26	Common Green Magpie	<i>Cissa chinensis</i>	*	*	Schedule-IV	-
27	House Crow	<i>Corvus splendens</i>		*	-	-
28	Long Billed Crow	<i>Corvus macrorhynchos</i>	*	*	-	-
29	Rufous Gorgeted Flycatcher	<i>Ficedula strophisota</i>	*		Schedule-IV	-
30	Greyheaded Canary Flycatcher	<i>Culicicopa ceylonensis</i>		*	Schedule-IV	-
31	Bar-winged Flycatcher-shrike	<i>Hemipus picatus</i>	*	*	Schedule-IV	-
32	Black Drongo	<i>Dicrurus macrocercus</i>	*	*	-	-
33	Sprangled Drongo	<i>Dicrurus hottentotus</i>		*	-	-

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Status
34	Common Iora	<i>Aegithina tiphia</i>	*		-	-
35	Robin Oriental Magpie	<i>Copsychus saularis</i>		*	-	-
36	Black Backed Forktail	<i>Ericurus immaculatus</i>	*		-	-
37	Common Myna	<i>Acridotheres tristis</i>		*	-	-
38	Jungle Myna	<i>Acridotheres fuscus</i>	*	*	-	-
39	Scarlet Minivet	<i>Pericrocotus flammeus</i>		*	Schedule-IV	-
40	Red Vented Bulbul	<i>Pycnonotus cafer</i>		*	-	-
41	Red Whiskered Bulbul	<i>Pycnonotus jocosus</i>		*	-	-
42	Common Tailor Bird	<i>Orthotomus sutorius</i>	*	*	Schedule-IV	-
43	Grey Hooded Warbler	<i>Seicercus xanthoschistos</i>		*	-	-
44	Buff-Breasted Warbler	<i>Pellorneum tickelli</i>		*	-	-
45	Jungle Babbler	<i>Turdoides striatus</i>	*	*	-	-
46	Plain Flower Pecker	<i>Dicaeum concolor</i>		*	-	-
47	Purple Sunbird	<i>Nectarinia asiatica</i>		*	Schedule-IV	-
48	House Sparrow	<i>Passer domesticus</i>		*	-	-
49	Yellow Wagtail	<i>Motacilla flava</i>		*	-	-

## Mamals in PA & PFA

Sl. No.	Common Name	Scientific Name	PA	FPA	Status	IUCN Category
1	Slow loris	<i>Nycticebus bengalensis</i>		*	Schedule-I	VU
2	Assamese macaque	<i>Macaca assamesensis</i>		*	Schedule-II	NT
3	Rhesus macaque	<i>Macaca mulatta</i>		*	Schedule-II	LC
4	Pig-tailed macaque	<i>Macaca nemestrina</i>		*	Schedule-II	VU
5	Capped langur	<i>Tachypithecus pileatus</i>		*	Schedule-I	VU
6	Western hoolock gibbon	<i>Hoolock hoolock hoolock</i>		*	Schedule-I	EN
7	Elephant	<i>Eephas maximusmus</i>		*	Schedule-I	EN
8	Wild boar	<i>Sus scrofa</i>		*	Schedule-III	NT
9	Jungle cat	<i>Felis chaus</i>	*	*	Schedule-II	LC
10	Leopard cat	<i>Prionailurus bengalensis</i>		*	Schedule-I	LC
11	Small indian civet	<i>Viverricula indica</i>	*	*	Schedule-II	LC
12	Common mongoose	<i>Herpestes edwardis</i>	*	*	Schedule-II	LC
13	Jackal	<i>Canis aureus</i>	*	*	Schedule-II	LC
14	Striped squirrel	<i>Tamias macclellandi</i>	*	*	Schedule-II	LC
15	Barking deer	<i>Muntiacus muntjak</i>		*	Schedule-III	LC
16	Porcupine	<i>Hystrix brachyura</i>	*	*	Schedule-II	LC
17	Indian flying fox	<i>Pteropus giganteus</i>	*	*	Schedule-V	LC
18	Rat	<i>Ratus ratus</i>	*	*	Schedule-V	LC
19	House mouse	<i>Mus musculus</i>		*	Schedule-V	LC
20	Lesser bamboo rat	<i>Cannomys badius</i>	*	*	Schedule-V	LC
26	Lesser bandicoot rat	<i>Bandicota bengalensis</i>		*	Schedule-V	LC

## REMARKS

From the Flora-Fauna survey, it can be seen that, the core zone (PA) of the proposed Lekhapani OCP does not have any endangered species of Flora or Fauna. Overall status of Flora & Fauna of the study area is normal and satisfactory.