

Conservation Value of Wildlife Sanctuary Gautam Budha Hazaribagh, Jharkhand

1. The forest of Gautam Budha Wildlife Sanctuary is spread over an area of 259.5 Sq.Km (138.36 Km² falls in the state of Bihar and remaining 121.14 Km² in the State of Jharkhand) and is located on the hills and undulating tracts lying north of the hilly terrain which is an extension of Chhottanagpur plateau. The sanctuary is drained by river Mohane which is perennial and sink for all the streams and rivulets flowing in the sanctuary.
2. According to the classification of Forest Types of India by Champion and Seth, the forest of the area falls under the broad category of Northern Tropical Dry Deciduous forest, which has been further classified as
 - a. Dry Peninsular Sal (5B/C1c)
 - b. Northern dry mixed deciduous forest (5B/C2)
 - c. Dry Bamboo brake(5/E9)
3. The Soil is very deep in valleys and plains and is loamy or sandy loam in texture, supporting dense semi-deciduous Sal forests interspersed with grassland, making the sanctuary an ideal habitat for a variety of fauna. On the hills, soils are shallow, while the forest is of miscellaneous type.
4. Support and benefits provided by the forest ecosystem include
 - a. Goods such as food, fuel and byproducts.
 - b. The sanctuary harbours a number of seasonal streams, springs and headwater areas which is very significant for watershed management and also has an influence on the local climate, weather and topography.
 - c. Home range of various tribes and seasonal water sources.

- d. Soil moisture enrichment, ground water recharge, rain water conservation, water and air purification and maintenance of wildlife habitat along with carbon storage.
5. The forest of Gautam Budha Wildlife Sanctuary has a good floral and faunal diversity with more than 100 species of plants and 75 species of birds. The PA is also rich in mammalian, herpetofauna and entemofauna. Species like Asan, Pandan, Siris, Kendu, Salai, Dhaura, Jamun, Gamhar, in top canopy, Mahua, Bauhinia species, Bhelwa, Beri, Dudhkoraiya etc. in middle story are found. In under story Phuldhawai, Galphulli etc are found.
 6. Area of Gautam Budha Wildlife Sanctuary (Including Jharkhand and Bihar) is a transitional area between the Chhottanagpur plateau and Gangetic plains and the only remaining natural forest area in this geography.
 7. It is an excellent habitat for top-carnivores.
 8. The protected area of forest harbours a number of streams and rivers both perennial and seasonal which is the source for surface flow and ground water recharge as well. The list of natural water bodies (perennial/ seasonal) is given in the following table.

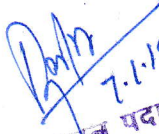
Sl. No.	Name of River / Nala	Location	Remarks
1	2	3	4
1.	Sarne River	Near Bukar, along border of Gaya District	Perennial
2.	Jarda River	Near Bukar, towards Mainukhar	Perennial
3.	Mainuar River	Near Bukar, towards Pathalgarhwa	Perennial
4	Bukar River	Near Bukar, towards Pathalgarhwa & Asanchuan	Perennial

5.	Bhalupahar River	Near Khairatand, towards Asanchuan	Perennial
6.	Suhari River	Near Asanchuan, towards Pandria	Perennial
7.	Panchbadiniya River	Near Asanchuan, towards Bukar	Perennial
8.	Jamunia River	Near Asanchuan, towards Khairatand	Perennial
9.	Fatar River	Near Pathargarwa, towards Kododuma	Perennial
10.	Simarkola River	Near Pathargarwa, towards Bukar	Perennial
11.	Marghati River	Near Pathargarwa, towards Mainukhar	Perennial
12.	Goari River	Near Chordaha, towards Gaya	Perennial
13.	Khaurawa Ghat River	Near Silodhar, towards Gaya	Perennial
14.	Ramasaran River	Near Muria, towards Chatra	Perennial
15.	Haribokhar River	Near Muria, towards Gaya	Perennial
16.	Mohane River	Near Maurania, towards Gaya	Perennial
17.	Jharna River	Near Bukar, towards Ghajhandi	Perennial
18.	Guhi Stream	Near Silodhar, towards Danua	Seasonal
19.	Tari Stream	Near Silodhar, towards Danua	Seasonal
20.	Harguma Stream	Near Sikda, towards Maurenia	Seasonal
21.	Hasail Nala	Near Sikda, towards Pathalgarwa	Seasonal
22.	Ghorachaur Nala	Near Garmorwa, towards S. Border	Seasonal
23.	Pichri Nala	Near Aahri,	Seasonal
24.	Balwa Nala	Near Aahri, towards S. Border	Seasonal
25.	Kadru Nala	Near Muraniya, towards Bihar	Seasonal

9. Immense scope for wildlife research and education.

10. Potential for Wildlife tourism, Aesthetic value, Nature interpretation and education to tourists.

11. List of flora and faunas have been reported in Biodiversity value of Gautam Budha Wildlife Sanctuary by Wild Life Institute of India, Dehradun is given in annexure


7.1.18
वन प्रसाधन पदाधिकारी
वन प्रसाधन, प्रसाधन, हजारीबाग

APPENDICES

APPENDIX I

Checklist of Birds recorded in Gautam Buddha Wildlife Sanctuary.

S.No.	Family	Scientific Name	Common Name	IUCN Status	Resident Status
Apodidae					
1		<i>Apus affinis</i>	Indian House Swift	Least Concern	Resident
Caprimulgidae					
2		<i>Caprimulgus asiaticus</i>	Indian Nightjar	Least Concern	Resident
Charadriidae					
3		<i>Vanellus indicus</i>	Red-Wattled Lapwing	Least Concern	Resident
4		<i>Vanellus malabaricus</i>	Yellow-Wattled Lapwing	Least Concern	Resident
Turnicidae					
5		<i>Turnix suscitator</i>	Barred Buttonquail	Least Concern	Resident
Ciconiidae					
6		<i>Ciconia episcopus</i>	Woolly-Necked Stork	Vulnerable	Resident
7		<i>Anastomus oscitans</i>	Asian Openbill	Least Concern	Resident
Columbidae					
8		<i>Streptopelia chinensis</i>	Spotted Dove	Least Concern	Resident
9		<i>Streptopelia decaocto</i>	Eurasian Collared Dove	Least Concern	Resident

10	<i>Columba livia</i>	Rock Pigeon	Least Concern	Resident
11	<i>Streptopelia senegalensis</i>	Laughing Dove	Least Concern	Resident
Bucerotidae				
12	<i>Ocyceros birostris</i>	Indian Grey Hornbill	Least Concern	Resident
Meropidae				
13	<i>Merops orientalis</i>	Green Bee-Eater	Least Concern	Resident
14	<i>Merops philippinus</i>	Blue-Tailed Bee-Eater	Least Concern	Resident
15	<i>Merops leschenaulti</i>	Chestnut-Headed Bee-Eater	Least Concern	Breeding
Alcedinidae				
16	<i>Halcyon smyrnensis</i>	White Throated Kingfisher	Least Concern	Resident
Coraciidae				
17	<i>Coracias benghalensis</i>	Indian Roller	Least Concern	Resident
Cuculidae				
18	<i>Clamator jacobinus</i>	Pied Cuckoo	Least Concern	Resident
19	<i>Hierococcyx varius</i>	Common Hawk Cuckoo	Least Concern	Resident
20	<i>Eudynamys scolopaceus</i>	Asian Koel	Least Concern	Resident
21	<i>Centropus sinensis</i>	Greater Coucal	Least Concern	Resident
Accipitridae				

22	<i>Neophron percnopterus</i>	Egyptian Vulture	Endangered	Resident
23	<i>Elanus caeruleus</i>	Black-Winged Kite	Least Concern	Resident
24	<i>Pernis ptilorhynchus</i>	Oriental Honey-Buzzard	Least Concern	Resident
25	<i>Accipiter badius</i>	Shikra	Least Concern	Resident
Phasianidae				
26	<i>Pavo cristatus</i>	Indian Peafowl	Least Concern	Resident
27	<i>Francolinus pondicerianus</i>	Grey Francolin	Least Concern	Resident
28	<i>Galloperdix lunulata</i>	Painted Spurfowl	Least Concern	Resident
Rallidae				
29	<i>Amaurornis phoenicurus</i>	White-Breasted Waterhen	Least Concern	Resident
Aegithinidae				
30	<i>Aegithina tiphia</i>	Common Iora	Least Concern	Resident
Campephagidae				
31	<i>Pericrocotus cinnamomeus</i>	Small Minivet	Least Concern	Resident
Cisticolidae				
32	<i>Prinia hodgsonii</i>	Grey Breasted Prinia	Least Concern	Resident
33	<i>Orthotomus sutorius</i>	Common Tailorbird	Least Concern	Resident

34	<i>Prinia inornata</i>	Plain Prinia	Least Concern	Resident
35	<i>Prinia socialis</i>	Ashy Prinia	Least Concern	Resident
Monarchidae				
36	<i>Terpsiphone paradisi</i>	Indian Paradise - Flycatcher	Least Concern	Resident
Leiothrichidae				
37	<i>Turdoides striata</i>	Jungle Babbler	Least Concern	Resident
Corvidae				
38	<i>Dendrocitta vagabunda</i>	Rufous Treepie	Least Concern	Resident
39	<i>Corvus macrorhynchos</i>	Large-Billed Crow	Least Concern	Resident
40	<i>Corvus splendens</i>	House Crow	Least Concern	Resident
Dicaeidae				
41	<i>Dicaeum agile</i>	Thick-Billed Flowerpecker	Least Concern	Resident
Dicruridae				
42	<i>Dicrurus macrocercus</i>	Black Drongo	Least Concern	Resident
43	<i>Dicrurus leucophaeus</i>	Ashy Drongo	Least Concern	Breeding
Estrildidae				
44	<i>Lonchura punctulata</i>	Scaly-Breasted Munia	Least Concern	Resident
Hirundinidae				
45	<i>Cecropis daurica</i>	Red-Rumped Swallow	Least Concern	Resident

Laniidae				
46	<i>Lanius vittatus</i>	Bay-Backed Shrike	Least Concern	Resident
47	<i>Lanius schach</i>	Long Tailed Shrike	Least Concern	Resident
Motacillidae				
48	<i>Anthus rufulus</i>	Paddyfield Pipit	Least Concern	Resident
Muscicapidae				
49	<i>Oenanthe fusca</i>	Brown Rock chat	Least Concern	Resident
50	<i>Copsychus saularis</i>	Oriental Magpie Robin	Least Concern	Resident
51	<i>Saxicoloides fulicatus</i>	Indian Robin	Least Concern	Resident
Nectariniidae				
52	<i>Cinnyris asiaticus</i>	Purple Sunbird	Least Concern	Resident
Oriolidae				
53	<i>Oriolus xanthornus</i>	Black-Hooded Oriole	Least Concern	Resident
54	<i>Oriolus kundoo</i>	Indian Golden Oriole	Least Concern	Resident
Passeridae				
55	<i>Passer domesticus</i>	House Sparrow	Least Concern	Resident
Pycnonotidae				
56	<i>Pycnonotus cafer</i>	Red-Vented Bulbul	Least Concern	Resident
Pittidae				
57	<i>Pitta brachyura</i>	Indian Pitta	Least Concern	Breeding

Sturnidae					
58	<i>Gracupica contra</i>	Asian Pied Starling	Least Concern	Resident	
59	<i>Acridotheres tristis</i>	Common Myna	Least Concern	Resident	
Sylviidae					
60	<i>Chrysomma sinense</i>	Yellow-Eyed Babbler	Least Concern	Resident	
Vangidae					
61	<i>Tephrodornis virgatus</i>	Large Wood-Shrike	Least Concern	Resident	
Zosteropidae					
62	<i>Zosterops palpebrosus</i>	Oriental White-Eye	Least Concern	Resident	
Threskiornithidae					
63	<i>Pseudibis papillosa</i>	Red-Naped Ibis	Least Concern	Non breeding	
Picidae					
64	<i>Dinopium benghalense</i>	Lesser Golden-backed Woodpecker	Least Concern	Resident	
Megalaimidae					
65	<i>Psilopogon haemacephalus</i>	Coppersmith Barbet	Least Concern	Resident	
66	<i>Psilopogon zeylanicus</i>	Brown-Headed Barbet	Least Concern	Resident	
Ardeidae					
67	<i>Ardeola grayii</i>	Indian Pond Heron	Least Concern	Resident	
68	<i>Egretta garzetta</i>	Little Egret	Least Concern	Resident	
69	<i>Bubulcus ibis</i>	Cattle Egret	Least Concern	Resident	

			Concern	
Psittacidae				
70	<i>Psittacula krameri</i>	Rose-Ringed Parakeet	Least Concern	Resident
71	<i>Psittacula eupatria</i>	Alexandrine Parakeet	Least Concern	Resident
72	<i>Psittacula roseata</i>	Blossom- Headed Parakeet	Least Concern	Resident
Strigidae				
73	<i>Glaucidium radiatum</i>	Jungle Owlet	Least Concern	Resident
Upupidae				
74	<i>Upupa epops</i>	Common Hoopoe	Least Concern	Resident
Phalacrocoracidae				
75	<i>Microcarbo niger</i>	Little Cormorant	Least Concern	Resident

Source: Modern Taxonomy (J. Praveen et al., 2016)

APPENDIX II

Checklist of Butterflies and moths of Gautam Buddha Wildlife Sanctuary.

s.no	Common Name	Scientific Name	Family	IUCN threat status
1	Tawny Coster	<i>Acraea terpsicore</i>	Nymphalidae	Not Assessed
2	Blue Pansy	<i>Junonia orithya</i>	Nymphalidae	Not Assessed
3	Common Crow	<i>Euploea core</i>	Nymphalidae	Least Concern
4	Blue Tiger	<i>Tirumala limniace</i>	Nymphalidae	Not Assessed
5	Common Grass Yellow	<i>Eurema hecabe</i>	Pieridae	Not Assessed
6	Common Leopard	<i>Phalanta phalantha</i>	Nymphalidae	Not Assessed
7	Common Gull	<i>Cepora nerissa</i>	Pieridae	Not Assessed
8	Danaid Eggfly	<i>Hypolimnas misippus</i>	Nymphalidae	Not Assessed
9	Great Eggfly	<i>Hypolimnas bolina</i>	Nymphalidae	Not Assessed
10	Yellow Orange Tip	<i>Ixias pyrene</i>	Pieridae	Not Assessed
11	Lemon Butterfly	<i>Papilio demoleus</i>	Papilionidae	Not Assessed
12	Lemon Pansy	<i>Junonia lemonias</i>	Nymphalidae	Not Assessed
13	Mottled Emigrant	<i>Catopsilia pyranthe</i>	Pieridae	Not Assessed
14	Peacock Pansy	<i>Junonia almana</i>	Nymphalidae	Least Concern
15	Plain Tiger	<i>Danaus chrysippus</i>	Nymphalidae	Not Assessed
16	Striped Tiger	<i>Danaus genutia</i>	Nymphalidae	Not Assessed
17	Three Spotted	<i>Eurema blanda</i>	Pieridae	Not Assessed

Grass Yellow				
18	Common Sailer	<i>Neptis hylas</i>	Nymphalidae	Not Assessed
19	Chocolate Pansy	<i>Junonia iphita</i>	Nymphalidae	Not Assessed
20	Common Mormon	<i>Papilio polytes</i>	Papilionidae	Not Assessed
21	Common Pierrot	<i>Castalius rosimon</i>	Lycaenidae	Not Assessed
22	Spotted Pierrot	<i>Tarucus callinara</i>	Lycaenidae	Not Assessed
23	State Flash	<i>Rapala manea</i>	Lycaenidae	Not Assessed
24	Tree Yellow	<i>Grandaca harina</i>	Pieridae	Not Assessed
25	Baronet	<i>Symphaedra nais</i>	Nymphalidae	Not Assessed
26	Monky Moth	<i>Eupterote lineosa</i>	Eupterotidae	Not Assessed

Source: <http://www.learnaboutbutterflies.com/Taxonomy.htm>

APPENDIX III

Checklist of Plants recorded from Gautam Buddha Wildlife Sanctuary.

S. No.	Scientific Name	Trees (Vernacular Names)	IUCN Status	Threat	Family
1	<i>Acacia catechu</i>	Khair	Not Assessed		Fabaceae
2	<i>Adina cordifolia</i>	Karam	Not Assessed		Rubiaceae
3	<i>Aegle marmelos</i>	Bel	Not Assessed		Rutaceae
4	<i>Ailanthus excelsa</i>	Ghorkarand	Not Assessed		Simaroubaceae
5	<i>Alangium salvifolium</i>	Dhela	Not Assessed		Cornaceae
6	<i>Anogeissus latifolia</i>	Dhaw/Dhautha	Not Assessed		Combretaceae
7	<i>Azadirachta indica</i>	Neem	Not Assessed		Meliaceae
8	<i>Bauhinia racemosa</i>	Kathul	Not Assessed		Fabaceae
9	<i>Bauhinia variegata</i>	Kachnar	Least Concern Ver 3.1		Fabaceae
10	<i>Bombax ceiba</i>	Semul	Not Assessed		Malvaceae
11	<i>Boswellia serrata</i>	Salai	Not Assessed		Burseraceae
12	<i>Bridelia retusa</i>	Kaaj	Not Assessed		Phyllanthaceae
13	<i>Buchanania lanzan</i>	Piar	Not Assessed		Anacardiaceae
14	<i>Butea monosperma</i>	Palas	Not Assessed		Fabaceae
15	<i>Carissa opaca</i>	Kanauda	Not Assessed		Apocynaceae
16	<i>Cassia fistula</i>	Amaltas/Dudhaur	Not Assessed		Fabaceae
17	<i>Ceriscoides turgida</i>	Karhar	Not Assessed		Rubiaceae
18	<i>Combretum decandrum</i>	Ratend	Not Assessed		Combretaceae
19	<i>Croton oblongifolius</i>	Masondha	Not Assessed		Euphorbiaceae
20	<i>Dalbergia latifolia</i>	Choland/ Shisham	Kala Vulnerable A1cd Ver 2.3		Leguminosae
21	<i>Dalbergia sissoo</i>	Shisham	Not Assessed		Leguminosae
22	<i>Diospyros melanoxylon</i>	Tendu	Not Assessed		Ebenaceae
23	<i>Diospyros montana</i>	Makar Kendu	Not Assessed		Ebenaceae
24	<i>Ehretia laevis</i>	Datrang	Not Assessed		Boraginaceae
25	<i>Elaeodendron kamerunense</i>	Ratalgadu/Khaura	Data Deficient Ver 3.1		Celastraceae

26	<i>Erythrina variegata</i>	Farhad	Least Concern Ver 3.1	Leguminosae
27	<i>Ficus bengalensis</i>	Bargad	Not Assessed	Moraceae
28	<i>Ficus hispida</i>	Kath Dumar	Not Assessed	Moraceae
29	<i>Ficus racemosa</i>	Gular	Not Assessed	Moraceae
30	<i>Ficus religiosa</i>	Peepal	Not Assessed	Moraceae
31	<i>Flacourtia indica</i>	Behcha	Not Assessed	Salicaceae
32	<i>Gardenia gummifera</i>	Bandarlaud	Least Concern Ver 2.3	Rubiaceae
33	<i>Garuga pinnata</i>	Kaikar	Not Assessed	Burseraceae
34	<i>Gmelina arborea</i>	Gamhar	Not Assessed	Lamiaceae
35	<i>Helicteres isora</i>	Aintha	Not Assessed	Malvaceae
36	<i>Holarrhela antidysentrica</i>	Koraia	Not Assessed	Malvaceae
37	<i>Hymenodictyon excelsum</i>	Bhurkund	Not Assessed	Rubiaceae
38	<i>Ixora arborea</i>	Khonta	Not Assessed	Rubiaceae
39	<i>Lagerstroemia parviflora</i>	Sidha	Not Assessed	Lythraceae
40	<i>Lagerstroemia spp.</i>	Sikith	Not Assessed	Lythraceae
41	<i>Lannea coromandelica</i>	Parmhi	Not Assessed	Anacardiaceae
42	<i>Madhuca indica</i>	Mahua	Not Assessed	Sapotaceae
43	<i>Mallotus phillipensis</i>	Rori	Not Assessed	Euphorbiaceae
44	<i>Melia azadirachta</i>	Buccane	Not Assessed	Meliaceae
45	<i>Milusa velutina</i>	Kari	Not Assessed	Annonaceae
46	<i>Nyctanthes arbortristis</i>	Samsihar	Not Assessed	Oleaceae
47	<i>Ougeinia oojeinensis</i>	Panan	Not Assessed	Fabaceae
48	<i>Phoenix acaulis</i>	Khajur	Not Assessed	Arecaceae
49	<i>Prosopis cineraria</i>	Shami	Not Assessed	Fabaceae
50	<i>Pterocarpus marsupium</i>	Paisar	Vulnerable A1cd Ver 2.3	Leguminosae
51	<i>Schleichera trijuga</i>	Kusum	Not Assessed	Sapindaceae
52	<i>Semecarpus anacardium</i>	Bhelwa	Not Assessed	Anacardiaceae
53	<i>Shorea robusta</i>	Sal	Least Concern Ver 2.3	Dipterocarpaceae
54	<i>Streblus asper</i>	Sihora	Not Assessed	Moraceae
55	<i>Syzygium cumini</i>	Jamun	Not Assessed	Myrtaceae

56	<i>Syzygium spp.</i>	Chamarber	Not Assessed	Myrtaceae	
57	<i>Tamarindus indica</i>	Imli	Not Assessed	Fabaceae	
58	<i>Terminalia arjuna</i>	Kahua	Not Assessed	Combretaceae	
59	<i>Terminalia belerica</i>	Bahera	Not Assessed	Combretaceae	
60	<i>Terminalia tomentosa</i>	Asan	Not Assessed	Combretaceae	
61	<i>Ziziphus nummularia</i>	Ber	Not Assessed	Rhamnaceae	
62	<i>Ziziphus spp.</i>	Kakor	Not Assessed	Rhamnaceae	
63	<i>Ziziphus xylopyrus</i>	Katar	Not Assessed	Rhamnaceae	
S. No.	Scientific Name	Shrubs (Vernacular Names)	IUCN Status	Threat	Family
1	<i>Acacia megaladana</i>	Arar (Lianas)	Not Assessed		Fabaceae
2	<i>Bauhinia Vahlia</i>	Mahulan (Climber)	Not Assessed		Fabaceae
3	<i>Butea superba</i>	Dhodharan (Lianas)	Not Assessed		Fabaceae
4	<i>Cassytha filiformis</i>	Amarlata	Not Assessed		Lauraceae
5	<i>Catunaregam spinosa</i>	Emun/Mauna	Not Assessed		Rubiaceae
6	<i>Combretum album</i>	Latur (Climber)	Not Assessed		Combretaceae
7	<i>Lantana camara</i>	Putus	Not Assessed		Verbenaceae
8	<i>Luffa cylindrica</i>	Turiya (Climber)	Not Assessed		Cucurbitaceae
9	<i>Momordica charantia</i>	Jungli Karela	Not Assessed		Cucurbitaceae
10	<i>Momordica dioica</i>	Kheksa (Climber)	Not Assessed		Cucurbitaceae
11	<i>Mucuna pruriens</i>	Alkusi	Not Assessed		Fabaceae
12	<i>Ventilago denticulata</i>	Ramai (Lianas)	Not Assessed		Rhamnaceae
13	<i>Vitex negundo</i>	Sinhuar	Not Assessed		Lamiaceae
14	<i>Ziziphus oenoplia</i>	Dithora	Not Assessed		Rhamnaceae
S. No.	Scientific Name	Herbs/Grasses (Vernacular Names)	IUCN Status	Threat	Family
1	<i>Abrus precatorius</i>	Gaithi (Climber)	Not Assessed		Fabaceae
2	<i>Achyranthes aspera</i>	Sevtar	Not Assessed		Amaranthaceae
3	<i>Ageratum conyzoides</i>	Jungli Pudina	Not Assessed		Amaranthaceae
4	<i>Andropogon intermedius</i>	Ghusi	Not Assessed		Poaceae
5	<i>Andropogon pumilus</i>	Rusi	Not Assessed		Poaceae
6	<i>Argemone mexicana</i>	Rangaini Kanta	Not Assessed		Papaveraceae
7	<i>Blumea lacera</i>	Kukraundha	Not Assessed		Asteraceae
8	<i>Cajanus scarabaeoides</i>	Van Kurthi	Least		Leguminosae

Concern Ver 3.1				
9	<i>Chrysopogon aciculatus</i>	Sama Ghas	Not Assessed	Poaceae
10	<i>Clerodendrum infortunatum</i>	Titbhant	Not Assessed	Lamiaceae
11	<i>Ichnocarpus frutescens</i>	Dudhlar	Not Assessed	Apocynaceae
12	<i>Cyathocline purpurea</i>	Jirhul Ghas	Least Concern Ver 3.1	Compositae
13	<i>Cynadon dactylon</i>	Dub	Not Assessed	Poaceae
14	<i>Cyperus rotundus</i>	Motha	Least Concern Ver 3.1	Cyperaceae
15	<i>Dactyloctenium aegyptium</i>	Makra Ghas	Not Assessed	Poaceae
16	<i>Dendrocalamus strictus</i>	Bamboo	Not Assessed	Poaceae
17	<i>Elettaria cardamomum</i>	Basaria	Not Assessed	Zingiberaceae
18	<i>Ocimum canum</i>	Van Tulsi	Not Assessed	Lamiaceae
19	<i>Phyllanthus Niruri</i>	Van Jira/Bhumi Amla	Not Assessed	Phyllanthaceae
20	<i>Pueraria tuberosa</i>	Patalkohda	Not Assessed	Fabaceae
21	<i>Senna occidentalis</i>	Saharfoka	Not Assessed	Fabaceae
22	<i>Senna tora</i>	Chakauda	Not Assessed	Fabaceae
23	<i>Sida cordifolia</i>	Bariyar	Not Assessed	Malvaceae
24	<i>Urginea indica</i>	Vanpyaj	Not Assessed	Liliaceae

Source: Management Plan of Hazaribagh (Mishra et al., 2008)