CHAPTER 5 EXISTING ENVIRONMENTAL CONDITION OF ALGAR CHAR GRAM IN CHARAREA

5.1 Natural Conditions

(1) General Description

The physiographic unit falls under Agro Ecological Zone 6a and active Brahmaputra-Jamuna Flood plain (Ba). This sub unit, which underlines Agro Ecological Region 7, comprises young, stratified, alluvial land within and adjoining the shifting channels of the Brahmaputra and Jamuna rivers, the old Brahmaputra River and the Dhaleswari-Kaliganga River. The land formations are liable to change shape each year as river banks are eroded, new alluvium is deposited within/alongside channels, and older deposits are buried by layers of new alluvium. The relief varies from smooth to irregular, with differences in elevation of 2-3 meters or more between adjoining ridges and depressions. The depth of flooding varies from shallow to deep on different sites and the maximum depth may vary by a meter or more from year to year.

Fulchari Upazila covers Tista Meander Estuarine Flood Plain and Active Brahmaputra-Jamuna Flood Plain and the areas are 75.18 sq. km and 241.18 sq. km, respectively. The deposits comprise alternating layers of sand and silt. Extensive areas of sand often are deposited in high flood years, especially in the north, whereas silty material is more extensive in years of lower floods and in the south. Brahmaputra sediments are grayer in color than Ganges sediments. They are rich in weather able minerals, especially micas, and are neutral or moderately alkaline in reaction, but not calcareous.

(2) Surface Water Quality

JICA Study Team collected the three water samples for surface water quality analysis. The sampling was done on random basis consisting two samples from pond, one from the river Bramaputra within the Study Area. The Table data indicates that pH varies from 6.91 to 7.54, Electrical conductivity, EC varied between 326 to 356 μ s/cm and total dissolved solids, TDS between 153 to 167 mg/l. The surface water quality is within Bangladesh and WHO guide line values and suitable for irrigation.

Surface Water Quality in Algar Char Gram

Ş;		_			Algar Char	
alií		ard		Location -1	Location –2	Location -3
Water Quality Parameters	Unit	Bangladesh Standard	WHO Standard	Brahmaputra River Middle-west Algar Char	Open pond Md. Raffqul Islam North Algar char	Open pond Md. Hasen Khalifa East Algar char
PH		6.5-8.5		7.54	7.41	6.91
EC	μ s/cm			325	356	326
TDS	mg/l	1000	1000	153	167	156
Chloride (Cl)	mg/l	600	250	1.5	14.0	1.5
Nitrate (NO ₃₎	mg/l	10	50	0.9	7.9	0.9

Source: JICA Study Team

(3) Ground Water Quality

The sampling was done on random basis consisting two samples from hand tube well and one from shallow tube well within the Study Area. The Table data indicates that pH varies between 7.05 to 7.99, EC varies between 326 to 818 μ s/cm, Arsenic contents 0.00 to 0.06 mg/l, Iron contents between 0.78 to 12.8 mg/l, Sulphate contents 0.3 to 5.0 mg/l and Phosphate contents between 0.0 to 5.0 mg/l in the Algar Char Gram. The data indicate that Arsenic and Iron content in one tube-well, are higher than Bangladesh and WHO guide line values for drinking purposes.

Ground Water Quality in Algar Char Gram

Ø		for	for		Algar Char	
eter			4	Location-1	Location-2	Location-3
Water Quality Parameters	Unit	Bangladesh Standard Drinking Water	WHO Standard Drinking water	Md. Jahirul Islam East Algar Char, Depth: 17m', Hand Tubewell	Md. Azgar Munshi Middle Algar Char, Depth: 26m', Shallow Tubewell	A. Samad Mondal North Algar Char, Depth: 14m', Hand Tubewell
PH		6.5-8.5		7.99	7.5	7.05
EC	μ s/cm			818	584	326
Iron (Fe)	mg/l	0.3-1.0	0.3	12.8	0.78	5.4
Arsenic (As)	mg/l	0.05	0.01	0.06	0	0.008
Chloride (CI)	mg/l	600	250	40.0	13.0	50.0
Manganese (Mn)	mg/l	0.1	0.1	0.0	0.0	0.0
Sulphate (SO ₄)	mg/l	400	250	0.0	0.3	5.0
Phosphate (PO ₄)	mg/l	6		0.5	0.0	0.0
Nitrate (NO ₃₎	mg/l	10	50	0.0	0.0	1.8

Source: JICA Study Team

(4) Soil Resources

Complex mixtures of sandy and silty alluvium occupy most char lands, but there are some developed gray silty soils on older areas of alluvium, especially along the eastern side of the

Fulchari Upazila. The proportions of sandy and silty alluvium vary from place to place and from year to year. Over all, silty deposits are more extensive than sandy deposits, especially in the south and on relatively older land. However, large areas of sand may be deposited in high flood years, especially in the northern part. The parent alluvium is in weather able minerals, especially Biotite, low in organic matter and neutral to moderately alkaline in reaction, but not calcareous.

5.2 Ecological Conditions

Wetland Flora

The Study Area supports two types of wetland e.g., a) Permanent wetland and b) Seasonal wetland. The permanent wetland includes rivers, canals, beels, perennial water bodies and fishponds. The permanent wetland provides refuge and shelter for the most of the aquatic flora and fauna, the seasonal wetland serves as the grazing ground for fish and other aquatic animals like fresh water turtles. The changes in the physical characteristics of wetland have a direct impact on its dependent flora and fauna. The fluctuation or changes in the population dynamics of the bio-diversity define the biomass productivity of the wetland.

The natural vegetation in chars prevents soil erosion from wind and channel cutting. These chars support growing of paddy field and dry season vegetables. The char land vegetation exhibits zonations into pioneer, closed herbaceous, middle mixed are bushy zones. The open pioneer zones the first in the supratidal region. In this, the vegetation is rather sparse with a few plants like Paspalum vaginatum, Panicum repens, Zoysia matrella. A herbaceous zone where the vegetation attains little more density with some mat formation herbs such as Fimbristylis chaeteria, Eragrostis coarctata, succeeds this zone (refer to Table 5.1 to 5.4).

Aquatic Flora

Aquatic flora in the project area can be divided into communities based on a set of environmental conditions. The communities are as follows: i) Free-floating plants, ii) Sub merged floating plants, iii) Rooted floating plants, iv) Sedges and meadows, and v) Marginal vegetation.

The free-floating plant community is common in the Study area. This type of vegetation floats freely in the water. These are the plants remain in contact with water and air, but not soil. It is abundant in the perennial water bodies. Kachuripana (*Eichhornia crasipes*) is the single most dominant species followed by Indurkunipana (*Salvinia cuculata*) and Khudipana (*Lemna perpusilla*), Topapana (*Pistia strateotes*). Many fishponds also support this type of vegetation.

The submerged plant community is one of the prevalent plant types in the Area. These are the plants in contact with only water, being completely submerged and not rooted in the mud. Their stems are long and leaves generally small. It is found in both permanent and seasonal wetland. Almost all these plants are monocotyledons from closely related families like Aponogetonnaceae, Hydrocharitaceae, Potamogetonaceae and Najadaceae. These plants begin their growth period with the rise of the water level and persist as long as water is present. The species composition of the community differs between the permanent and the seasonal wetlands. Janjhi (Hydrilla verticillata), Patajanjhi (Vallisneria spirallis), Goisa (Najas indica) and Naja falcinata are the most common in perennials water bodies while Ghenchu (Aponogeton natans) is dominant on the seasonal wetland.

The rooted floating community is a dominant plant type in some wetlands and its deeply flooded seasonal wetlands, which is also in the Area. The short growth period in shallow seasonal wetlands renders them scarce in this habitat. There roots are fixed in mud, but leaves have long petioles which keep them floating on the water surface. The remaining plants except leaves remain in water. Dominant families are Nymphaeaceae and Gentianaceae. At the present level Nymphaea nouchali, Nymphaea rubra and Nymphaea stellate are the most abundant and common.

Sedges and meadows are ecotones consisting of amphibian plants. Some of them are terrestrial, some are aquatic and others are amphibian in nature. The community has the highest species diversity among all the wetland plant communities in the Area. The dominant families in this community are Cyperaceae and Gramineae. At the species level, Mutha (*Cyperus rotundus*), and Chrisra (*Scirpus erectus*) are common in the seasonal floodplains. In some wetlands, Dhol kalmi (*Ipomoea fistulosa*) and Sarkachu (*Monochoria vaginalis*), *Ludwigia* sp., *Persicaria hydropiper*, *Enhydra fluctuans*, *Eclipta alba*, *Clinogyne dichotoma* are also very common. Generally, this vegetation type occupies the water margins and moves with water level fluctuation.

Marginal plants are not defined as a community. They are composition of both wetland plants and small dry land herbs occupying surrounding saturated soil. The composition of the marginal plants depends on the degree of water logging and the flood tolerance of each species. Cyperaceae are the dominant family followed by many unrelated plant families ranging from Amaranthaceae to Gramineae.

Most of the wetland plant species are sensitive to and governed by seasonal water level fluctuations. Most of the channels in the Area are without vegetation in monsoon. After the recession of the water level, plants begin to surface.

Due to the lack of adequate wetland plant products, human use of aquatic plant products remains very low. Wetland products are minimally used for food, medicine, fuel, fodder and thatching materials. Wetland plant products, currently used by humans are grouped as follows:

i) Starch food, ii) Other vegetables, iii) Fodder and forage, iv) Medicine, v) Thatching and mat, vi) making, vii) Fuel, viii) Fisheries habitat, and ix) Bio-fertilizer.

Terrestrial Flora

The terrestrial flora can be divided into two categories: natural vegetation and human influenced vegetation. Natural vegetation includes wooden areas, grassland and other natural habitats. Human influenced vegetation includes homestead gardens, plantation, cropland and other planned or cultivated habitat. The major habitat patterns in the project area are homestead vegetation, bamboo orchard, crop field vegetation, grassland vegetation and roadside vegetation. They are covered by natural vegetation.

Most of the 20-25 principal families of the plants are found in the present Study Area e.g.,

Gramineae, Leguminosae, Anacardiaceae, Moraceae, Myrtaceae, Cyperaceae, Euphorbiaceae, Annonaceae, Rutaceae, Cucurbitaceae, Ebenaceae, Solanaceae, Lythraceae, Labiatae, Lauraceae, Rubiaceae, Malvaceae, Apocynaceae, Compositae, Combretaceae, etc.

Wetland Fauna

The Study Area is quite different from Haor area but rich in biodiversity. It supports faunal habitat and also play an important role for fish breeding ground during the rainy season. The areas have very few or no trees but bushes and the ground soil act sometime as a habitat for some amphibia, reptile, birds and mammals. Some endangered wildlife is identified (refer to Table 5.5).

Terrestrial Fauna

The Study Area is a suitable habitat for some terrestrial wildlife. It also supports two types of wildlife in two different seasons as the area inundates for six months of the year. In rainy season, some local migratory birds come here, stay for some months to breed, and then backed. Some endangered wildlife is identified (refer to Table 5.6).

Endangered Wildlife and Fishes

The Study Areas in Char and Haor support a variety of critically endangered, endangered and vulnerable wildlife and fish species. During survey, two amphibian species have been identified as a vulnerable species. In reptile group, two critically endangered and two endangered turtle, one vulnerable lizard and five vulnerable snake species have been identified. In past, these species are common in these Areas. Now they are occasionally seen. In aves group, three critically endangered, three endangered and one vulnerable bird species have been identified. The population of these bird species is declining due to various reasons. In mammalian group, two endangered and one vulnerable mammalian species have been identified in the Areas. Four critically endangered, eleven endangered and nine vulnerable fish species have been identified in the project area during the survey (refer to Table 5.7).

5.3 Socio-Economic Profile

Population Increase

The population of the locality is largely sedentary. There is slightly higher percentage of sedentary population in sampled Char village compared to Haor ones. There are about 7.3% shifting cultivators in haor compared to only 1.3% in char sampled village.

	Gr		
Types of Household Heads	Gurai N=150	Algar Char N=150	Total N=300
Sedentary	92.7	98.7	95.7
Shifting cultivator	7.3	1.3	4.3
Total	100.0	100.0	100.0

The key-informants opine that the shifting cultivation here is not like shifting cultivation of tribal areas where tribal people cultivate in some areas of hills for few years and than move to another suitable area. Here poor people move to new area during rainy season or economically lean period to work on other's land as agriculture labor or share cropper i.e. they cultivate land in locations than their own area. They all again return to their own home during farming season. Therefore they are not shifting cultivators in traditional sense.

Nearly all-household heads are married. The remaining household heads are unmarried, divorcee, separated, and widower. The average and median age of the household heads are around 44, and 42 years respectively. This means most of the household heads are middle aged. There is very little difference between the mean ages of household heads of both Areas (refer to Table in next page).

The family size does not seem to be large in Areas. On an average the family size is 6.05 in both sampled villages with average 3.22 numbers of children in each family. It may be noted here that the household heads are middle aged (Mean=44 years) and are left with many more years of active reproductive life because their wives are likely to be much younger to them. Therefore, the completed family size is likely to be much higher than what is needed to keep the population under control. In addition to this high natural growth there is a possibility of influx of immigrants to the locality in the wake of development activities.

The family structure appears to have gone through a transition because only 1.3 couples live in each household. This figure indicates that a significant numbers of families are nuclear. Each household has nearly 1.5 income earners. In other words each family member has to support 4 members including himself/herself. The above data amply show that there will be a high natural population growth in the area.

According to key-informants about 15% to 20% population of the area seasonally migrate to towns in search of livelihoods and return to village in the post rainy session when employment is available in farmlands. Key-informants of both char and haor areas also opine that population will increase through in-migration immediately in the post implementation of the project. If opportunities are available the population, which migrate during rainy session, will settle permanently in the locality.

Percentage Distribution of Age of the Household Heads by Village

	Gra	m	
Age	Gurai N=150	Algar Char N=150	Total N=300
15-30	9.3	16.7	13.0
31-40	26.7	36.0	31.3
41-50	32.7	25.3	29.0
51-60	20.7	12.0	16.3
61+	10.7	10.0	10.3
Total	100.0	100.0	100.0
Mean	46.0	42.0	44.0

However, the key-informants of both areas seem to have a clear vision about the long-term impact of flood proofing activities. They believe, if flood proofing can bring change in the economic life of people, the fertility will decline as development may provide opportunity to women to go to school, which in turn will make them conscious of benefit of small family. However, it is likely that the new settlers to the area will be of working class who will migrate here to avail the employment opportunity here.

Drastic Change in Population Composition

Theoretically migrants are young who move from place to place for better life. Therefore, it is unlikely that children or older people will come in bulk to settle to project areas. The key-informants of both areas assert that young male and young couples are the potential settlers. There will be children with young couples but their family size will not be big because of their shorter marital life. It is also likely that the young migrant families will be nuclear. Therefore, if project is successful key-informants anticipate proportionately more young people in the locality than older age group.

Outbreak and Spread of Endemic Diseases

The vast majority of the sampled respondents (73%) think some kind of endemic disease may breakout in the post project period. Only about 10% of them, however, anticipate high rate of it.

Percentage Distribution Of Opinions of Household Heads on the Possibility of Spread of Endemic Diseases

	Gr	am	
Possible Endemic Disease	Gurai N=150	Algar Char N=150	Total N=300
Low	89.2	63.3	73.2
Medium	10.8	20.0	16.5
High	0.0	16.7	10.3
Total	100.0	100.0	100.0

Key-informants of both areas opine that not many diseases will breakout due to development activities. The key-informants of haor anticipate some waterborne diseases while char key-informants anticipate diseases from air pollution, as road communication will develop in the area. People in general are not scared of diseases, which may breakout due to development activities. They believe that economic development as a result of the project will provide enough resources to cope with the outbreak of diseases. The present common diseases the survey respondents report are diarrhoea (97%), malnutrition (87%), skin disease (42%), fever (26%), jaundice (21%), and cough/cold (13%). The key-informants also have reported similar diseases. It is observed that the key-informants of Haor area have mentioned occurrence of more water borne diseases than those of Char area.

There is no qualified doctor in proposed project villages. People depend on village doctor (trained for few months) or quacks. In haor there is a Family Welfare Center with a lady health visitor.

Table 5.1 Wetland Flora of Feasibility Study Area in Char and Haor Area

Family	Scientific Name	Local Name	Habitat		icro I	Iabit	ats	Sites		
			HADITAL	CL	IR	AQ	0	A	В	
Alismataceae	Sagittaria sagittifolia	Chhotokut	Herb	•	•		·		·	
Amaranthaceae	Alternanthera sesilis	Chanchi	Herb	<u> </u>	•		·	Ŀ	•	
Amaranthaceae	Amaranthes spinosus	Katanote	Herb	<u> </u>	. •		Ŀ	Ŀ		
Amaranthaceae Aponogetonnaceae	Amaranthus viridis Aponogeton natans	Ban note Ghenchu	Herb Herb	+			Ŀ	<u> </u>	÷	
Aponogetonnaceae Araceae	Colocasia esculenta	Kachu	Herb	+ -		 	 :	┞.	<u>:</u>	
Araceae	Pistia strateotes	Topapana	Herb	 		 .	ا	H÷	+	
Boraginaceae	Heliotropium indicum	Hatishore	Herb	٠.		H	٠.	 	 	
Capparidaceae	Crataeva nurvala	Barun	Tree	+			 . 	-	 •	
Ceratophyllaceae	Ceratophyllum dumersum	Jhanihi	Herb			•			•	
Compositae	Blumea lacera	kukurshinga	Herb	1			•	•	•	
Compositae	Centipida minima	Hachuti	Herb		•		•		•	
Compositae	Eclipta alba	Kesuti	Herb		•		•	·	•	
Compositae	Enhydra fluctuans	Helencha	Herb		•		•	•	•	
Convolvulaceae	Ipomoea aquatica	Kalmi	Herb			٠		·	·	
Convolvulaceae	Ipomoea fistulosa	Dholkalmi	Herb	•	•	Ŀ	Ŀ	Ŀ	Ŀ	
Cyperaceae	Cyperus difformis	Belua	Herb	 	·		·	Ŀ	·	
Cyperaceae	Cyperus iria	Barachancha Mutha	Herb	•	·		<u> </u>	ŀ	ŀ	
Cyperaceae Cyperaceae	Cyperus rotundus Fimbristylis miliacea		Herb	·	·	├	•	•	•	
Cyperaceae Cyperaceae	Scirpus articulatus	Bara javani Chechra	Herb Herb	1		┝	·	ŀ	<u>:</u>	
Cyperaceae	Scirpus erectus	- Cheema	Herb	+	H	 	<u> </u>	-	·	
Euphorbiaceae	Croton bonplandianum	Bon croton	Herb	+	 •	┢	-	٠.	.	
Euphorbiaceae	Phyllanthus amarus	Bhui amla	Herb	†	•	 	•		 .	
Euphorbiaceae	Trewia polycarpa	Latim, pitali	Tree	†			•		•	
Gentiaceae	Erythraea roxburghii	Gima	Herb	Ī	•		•	•	•	
Gentianaceae	Nymphoides indica	Panchuli	Herb			•	•		•	
Gramineae	Chrysopogon aciculatus	Chorekanta	Herb		•		•	•	•	
Gramineae	Cynodon dactylon	Durba, Dubla	Herb	<u> </u>	<u> </u>		•	•	·	
Gramineae	Panicum paludosum	-	Herb				Ŀ		Ŀ	
Gramineae	Paspalum scrobiculatum	Goicha	Herb	 		<u> </u>	ŀ	·	٠.	
Gramineae Hydrocharitaceae	Phragmites karka Hvdrilla verticillata	Nal, Khagra Janjhi, Kurcli	Herb Herb	<u> </u>	•	 .	•	·	<u>:</u>	
Hydrocharitaceae	Vallisneria spiralis	Patajhanji	Негb	+-		⊢ ÷	H÷	H÷	 :	
Lamiaceae	Leucas lavandulifolia	Shetadrun	Негь	+		⊢	 	Ť	l .	
Lecythidaceae	Barringtonia acutangula	Hijal	Тгее	•					 .	
Limnaceae	Lemna perpusilla	Khudipana	Herb			•	·	-	٠.	
Lythraceae	Ammania baccifera	Dadmari	Herb	1			•		•	
Lythraceae	Rotala rotundifolia		Herb			•	•	•	•	
Malvaceae	Rosa involucrata	Bon golap	Shrub		•		•	•	٠	
Marsileaceae	Marsilea quadrifolia	Shusnisak	Herb			•	•	•	٠	
Najadaceae	Najas falciculata		Herb	<u> </u>		•		·	·	
Najadaceae	Najas indica		Herb	<u> </u>		•	·	<u> </u>	Ŀ	
Nymphaceae	Nelumbo nucifera	Poddo	Herb	 		<u> </u>	<u> </u>	<u> </u>	·	
Nymphaeaceae Nymphaeaceae	Nymphaea rubra Nymphaea stellate	Lal shapa Nilshapla	Herb Herb	╁		├ :-	l :	<u> </u>	<u>:</u>	
Onagraceae	Jussiaea repens	Kesardam	Herb	+	 .	<u> </u>	H÷	.	H÷	
Onagraceae	Ludwigia octovalis	- Kesaruani	Herb	+		-	H	H	H	
Oxalidaceae	Oxalis corniculata	Amboli	Herb	┼	•	 	-	 	٠.	
Polygonaceae	Persicaria hydropiper	Biskhatali	Herb	 .	•	·	!	-	 .	
Polygonaceae	Persicaria orientale	Barapanimarich	Herb	٠.	•	•	•	•	•	
Pontederiaceae	Eichhornia crassipes	Kachuripana	Herb	1		•	•	•	•	
Pontederiaceae	Monochoria vaginalis	Sarkachu	Herb				•	•	•	
Rubiaceae	Hedyotis corymbosa	Khetpapra	Herb		•		•	٠	•	
Rubiaceae	Dentella serphylifolia	Bhuipat	Herb	 	ļ <u>.</u>		•		•	
Salviniaceae	Salvinia cuculata	Indurkanipana	Herb	 		<u> </u>	·	<u> </u>		
Scrophulariaceae	Limnophila gratiloides	Karpur	Herb	4	٠	<u> </u>	·	<u> </u>	·	
Scrophulariaceae	Lindernia antipoda	-	Herb	+	•	<u> </u>	·	<u> </u>	١·	
Scrophulariaceae Scrophulariaceae	Lindernia hyssopioides Lindernia rotundifolia	-	Herb	+	<u> </u>	 	•	•	<u> </u>	
Nymphaceae	Nymphaea nouchali	Shapla	Herb Herb	 	<u> </u>		•	<u> </u>	-	
Trapaceae	Trapa maximowiczii	Singra	Herb	+	 -	 :	H	ٺ	⊢÷	
Umbelliferae	Centella asiatica	Thankuni	Herb	1		-	-	٠.	 	
Utriculariaceae	Utricularia aurea	Jhangi	Herb	+	\vdash	\vdash		\vdash	H	
	Pongamia pinnata	Koroch	Tree	+		\vdash	١.	 	 .	

Legend: A= Char area, B= Haor area, CL= Cultivated land, IR= Island of rice field, AQ= Aquatic, O= Others

Table 5.2 Homestead flora of Feasibility Study Area in Char and Haor Area

	~		T. 1	Micro habitats				Sites		
Family	Scientific name	Native name	Habitat	FL	G	J	0	A	В	
Acanthaceae	Jusuticia ganderusa	Jagatmadan	Shrub		٠		·	ŀ	•	
Amaraanthaceae	Amaranthus spinosus	Kantanotey	Herb	<u> </u>			·	ŀ	•	
Amaranthaceae	Achyranthus aspera	Apang	Herb				٠		•	
Amaranthaceae	Alternanthera sessilis	Haicha	Herb				٠	٠	•	
Anacardaceae	Anacardium occidentale	Kajubadam	Tree				•	٠	٠	
Anacardiaceae	Lannea coromandelica	Jiga, Jiol	Tree			•	ŀ	·	•	
Anacardiaceae	Mangifera indica	Am	Tree				Ŀ	•	·	
Annonaceae	Annona reticulata	Nona, Atafal	Tree				·	٠	٠	
Annonaceae	Annona squamosa	Sharifa	Tree	<u> </u>			•	•	٠	
Annonaceae	Polyalthia longifolia	Debdaru	Tree	•			•	•	•	
Anocardiaceae	Spondias dulcis	Belati amra	Tree		•			•	٠	
Apocynaceae	Alstonia scholaris	Chatim	Tree				•	٠		
Apocynaceae	Holarrhena pubescens	Kurchi	Tree				•	•		
Araceae	Colocasia esculenta	Katchu	Herb		•		•	•	•	
Asclepiadiaceae	Calotropis gigantea	Akond	Shrub				•	•	•	
Asclepiadiaceae	Calotropis procera	Swet akond	Shrub	•			•	·	•	
Bombacaceae	Bombax ceiba	Simul	Tree			•	•	•	•	
Boraginaceae	Heliotropium indicum	Hatisur	Herb	•				•	•	
Caricaceae	Carica papaya	Papey	Shrub	•	÷			•	•	
Casuarinaceae	Casuarina equisetifolia	Jhau	Tree	•				-	•	
Combretaceae	Terminalia arjuna	Arjun	Tree	•			•	-		
Combretaceae	Terminalia bellirica	Bohera	Tree	•			•	•		
Combretaceae	Terminalia catappa	Katbadam	Tree	•			•	•		
Compositae	Blumea lacera	Shealmutra	Herb	•			•	•	•	
Compositae	Eclipta prostrata	Kala keshi	Herb	•			•	•	•	
Compositae	Lippia nodiflora	Bhuiorkra	Herb	1.		 	•	•	•	
Compositae	Mikania cordata	Assamlata, Taralata	Herb		-	•		•	•	
Compositae	Xanthium indicum	Ghagra	Shrub	! •			١.	•		
Convolvulaceae	Ipomoea fistulosa	Dholkalmi	Herb	† •	-		١.		•	
Cucurbitaceae	Coccinia indica	Telakucha	Climber					·	•	
Cyperaceae	Kyllingia monocephala	Muthaghas	Herb				•			
Dilleniaceae	Dillenia indica	Chalta	Tree				٠.	٠.		
Dioscoreaceae	Dioscroca alata	Chuprialu	Herb	1			٠.	├	·	
Ebenaceae	Diospyros discolor	Gab	Tree	\vdash			┪.	├		
Ebenaceae	Diospyros peregrina	Desigab	Tree			<u> </u>	├ .	-		
Euphorbiaceae	Cicca acida	Arborai	Tree	\vdash		\vdash	 .	·		
Euphorbiaceae	Codiaeum variegata	Patabahar	Shrub	١.		\vdash		! .	<u> </u>	
Euphorbiaceae	Croton bonplandianum	Croton	Herb	٠.			•	 	.	
Euphorbiaceae	Jatropha curcus	Baghverenda	Shrub	+ :	-		•		 .	
Euphorbiaceae	Jatropha gossypifolia	Lal verenda	Shrub	 				٠.	<u> </u>	
Euphorbiaceae	Phyllanthus emblica	Amlokhi	Tree	١.			٠.	 		
Euphorbiaceae	Phyllanthus reticulatus	Chitki	Shrub	+ -			 	l .	H	
Euphorbiaceae	Ricinus communis	Reri, Bherenda	Shrub	Ť			 •	 		
Euphorbiaceae	Trewia nudiflora	Gota gamar	Tree	+		\vdash	H		-	
Euphorbiaceae	Trewia nuaijiora Trewia polycarpa	Latin	Tree	1	-	 	 	 	H	
Flacourtiaceae	Flacourtia indica	Beuchi	Shrub	+-		\vdash	├ 	٠.	Ë	
Gramineae	Axonopus compresus	Trufghas	Herb	+-	-	\vdash	 	H÷	 	
Gramineae Gramineae	Bambusa balcooa	Balku bans		⊢ i	 	-	-	-	—	
Gramineae Gramineae	Bambusa baicooa Bambusa bambos	Beora bans	Tree	\vdash	_	•	·	<u> </u>	<u> </u>	
•	Bambusa cacharensis		Tree	 	-	<u> </u>	_	·	<u> </u>	
Gramineae		Bethua Tetua bans	Tree	+-	-	•	-	 		
Gramineae	Bambusa jaintiana Bambusa tulda		Tree	1		•	├	•	•	
Gramineae		Talla bans	Tree	₩	<u> </u>	<u> </u>	 	·	<u> • </u>	
Gramineae	Bambusa vulgaris	Baria bans	Tree	Н—	<u> </u>	·	<u> </u>	Ŀ	Ŀ	
Gramineae	Chrysopogon aciculata	Chore kanta	Herb	<u> </u>		<u> </u>	ŀ	∸	\vdash	
Gramineae	Cynodon dactylon	Durbaghas	Herb	-	<u> </u>	<u> </u>	<u> • </u>	<u> </u>	<u> </u>	
Gramineae	Vetiveria zizanioides	Benna	Herb	<u> </u>	<u> </u>	<u> </u>		·	·	
Hydrocotyleaceae	Centella asiatica	Than kuni	Herb	٠.		_	<u> </u>	<u> • </u>	Ŀ	
Labiatae	Hyptis suaveolens	Tokma	Herb	!		ļ	· ·	•	Ŀ	
Labiatae	Leucas aspera		Herb	<u> </u>			<u> </u>	<u> </u>	<u> </u>	

Tubine.	I and an I mandalifalia	Swetadran	Негв	$\overline{}$	т	—т	•	•	$\overline{\cdot}$
Labiatae	Leucas lavendulifolia Ocimum sanctum	Tulsi	Herb	\dashv		-	$\overline{\cdot}$	$\dot{\cdot}$	\div
Labiatae		Kukurchita	Shrub	-		\dashv	•	$\dot{\cdot}$	
Lauraceae	Litsea glutinosa	Kharajora, Mendi	Shrub	\vdash		-	.	-+	- -
Lauraceae	Litsea monopetala		Tree	\vdash		∸	-	- 	$\dot{-}$
Lecythidaceae	Barringtonia acutangula	Hijal D. 1 15	Shrub		\rightarrow	\dashv	\dot{H}	\div	
Leeaceae	Leea crispa	Bonchalita		\dashv	-+	\dashv		- 	$\dot{\dashv}$
Leguminosae	Acacia mangium	Mangium	Tree	\vdash	\rightarrow	\dashv		:	∸⊣
Leguminosae	Acacia nilotica	Babla, Kikar	Tree	\vdash	-		•	\rightarrow	-
Leguminosae	Albizia lebbeck	Siris	Tree	-		-	-	-	-
Leguminosae	Albizia procera	Koroi	Tree	-			-	\rightarrow	-
Leguminosae	Butea monosperma	Polash	Tree			-	-		
Leguminosae	Caesalpinia bonduc	Nata	Shrub	\vdash		_			
Leguminosae	Cajanus cajan	Arhar	Shrub	\vdash		,	•		•
Leguminosae	Cassia alata	Dadmardan	Shrub	$\vdash \!$		•	•		•
Leguminosae	Cassia fistula	Bandar lathi, sonalu	Tree	\vdash			٠	•	•
Leguminosae	Cassia occidentalies	Barakalkesunda	Shrub				•	-	•
Leguminosae	Cassia siama	Minjuri	Tree				•	•	•
Leguminosae	Cassia tora	Chakunda	Herb				٠		•
Leguminosae	Cassisa sophera	Chotto kalkesunda	Shrub	•			•	•	•
Leguminosae	Dalbergia sissoo	Siso	Tree				•	•	•
Leguminosae	Delonix regia	Krishnachura	Tree		•		•	•	•
Leguminosae	Erythrina fusca	Painya mandar	Tree			•	•	•	•
Leguminosae	Erythrina variegata	Madar	Tree	П		•	•	•	•
Leguminosae	Samanea saman	Rendi, Raintree	Tree	\sqcap			•	•	. •
Leguminosae	Saraça asoka	Asok	Tree	П			•	•	•
Leguminosae	Sesbania grandiflora	Bokphul	Tree	\vdash			•	-	•
Leguminosae	Tamarindus indica	Tetui	Tree	 			•	· · ·	•
	Acacia auriculiformis	Akashmoni	Tree	╁			•		•
Legunimosae		Raktadrone	Herb	1		-		 . 	•
Libiatae	Leonurus sibiricus	Jarul	Tree	╁			<u> </u>		
Lythidaceae	Lagerstroemia speciosa		Tree	╂─┤					
Lythraceae	Lawsania speciosa	Henna plant	Shrub	 			1	- <u>:</u> -	÷
Malvaceae	Hibiscus rosa-sinensis	Jaba					 	\vdash	•
Malvaceae	Sida acuta	Kureta	Herb	 			<u> </u>	۱÷۱	_
Malvaceae	Sida cordifolia	Berela, kureta, cola	Herb				•	-	
Malvaceae	Urena lobata	Banokra, Jangli	Herb	-			٠.		•
Melastomaceae	Melastoma malabathricum	Datranga	Shrub	\vdash			<u> </u>	<u> </u>	•
Meliaceae	Azadirachta indica	Neem	Tree	-			٠.	<u> • </u>	•
Meliaceae	Melia azaderachta	Ghora nim	Tree	lacksquare			<u> </u>	<u> </u>	•
Meliaceae	Swietenia mahagoni	Mehagini	Tree	1			·	<u> • </u>	•
Moraceae	Artocarpus heterophyllus	Kathal	Tree		٠		└	<u> </u>	•
Moraceae	Artocarpus lacucha	Barta, Dewa	Tree		٠		•	•	•
Moraceae	Ficus benghalensis	Bot	Tree		٠		•	•	•
Moraceae	Ficus glomoreta	Jagadumur	Shrub				<u> </u>		•
Moraceae	Ficus hispida	Kakdumur	Shrub					Ŀ	٠
Moraceae	Ficus, hispida	Kakdumur	Shrub					<u> </u>	٠
Moraceae	Ficus religiosa	Assawath, Panbot	Тгее					<u> </u>	٠
Moringaceae	Moringa oleifera	Sajna	Тгее		([1 .	•	
Musaceae					T		١.	•	•
		Kacha kola	Shrub	•					
IMUsaceae	Musa paradisica	Kacha kola Kala		 			•	Ţ •	•
Musaceae Myrtaceae	Musa paradisica Musa sapientum	Kala	Shrub		÷		·		•
Myrtaceae	Musa paradisica Musa sapientum Psidium guajava	Kala Payara	Shrub Tree	1:	•		╄	╄	
Myrtaceae Myrtaceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini	Kala Payara Jam	Shrub Tree Tree	1:	•		·	·	·
Myrtaceae Myrtaceae Myrtaceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum	Kala Payara Jam Khudijam	Shrub Tree Tree Shrub	1:	•		•	÷	•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora	Kala Payara Jam Khudijam Eucalyptus	Shrub Tree Tree Shrub Tree	1:	•		•	: :	•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac	Kala Payara Jam Khudijam Eucalyptus Beli	Shrub Tree Tree Shrub Tree shrub	1:	•		•		•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga	Shrub Tree Shrub Tree shrub Shrub Shrub	1:	•		•		•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae Palmae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi Areca catehu	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga Supari, gua	Shrub Tree Shrub Tree shrub Shrub Tree	•	•		•	•	•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae Palmae Palmae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi Areca catehu Borassus fiabellifer	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga Supari, gua	Shrub Tree Shrub Tree shrub Shrub Tree Tree Tree Tree	1:	•			•	•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae Palmae Palmae Palmae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi Areca catehu Borassus fiabellifer Cocos nucicera	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga Supari, gua Tal Narikel	Shrub Tree Shrub Tree shrub Shrub Tree Tree Tree Tree Tree		•				•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae Palmae Palmae Palmae Palmae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi Areca catehu Borassus fiabellifer Cocos nucicera Phoenix sylvestris	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga Supari, gua Tal Narikel Khejur	Shrub Tree Shrub Tree shrub Shrub Tree Tree Tree Tree Tree Tree Tree		•				•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae Palmae Palmae Palmae Palmae Papaveraceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi Areca catehu Borassus fiabellifer Cocos nucicera Phoenix sylvestris Argemone mexicana	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga Supari, gua Tal Narikel Khejur Shelkanta	Shrub Tree Shrub Tree shrub Shrub Tree Tree Tree Tree Tree Tree Herb		•				•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae Palmae Palmae Palmae Palmae Papaveraceae Polygonaceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi Areca catehu Borassus fiabellifer Cocos nucicera Phoenix sylvestris Argemone mexicana Persacaria orientale	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga Supari, gua Tal Narikel Khejur Shelkanta Barapanimarich	Shrub Tree Shrub Tree shrub Shrub Tree Tree Tree Tree Tree Herb		•				•
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae Palmae Palmae Palmae Palmae Papaveraceae Polygonaceae Polygonaceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi Areca catehu Borassus fiabellifer Cocos nucicera Phoenix sylvestris Argemone mexicana Persacaria orientale Persicaria hydropiper	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga Supari, gua Tal Narikel Khejur Shelkanta	Shrub Tree Shrub Tree shrub Shrub Tree Tree Tree Tree Tree Herb		•				
Myrtaceae Myrtaceae Myrtaceae Myrtaceae Olaceae Oxalidaceae Palmae Palmae Palmae Palmae Papaveraceae Polygonaceae	Musa paradisica Musa sapientum Psidium guajava Syzygium cumini Syzygium fruticosum Eucalyptus citriodora Jasminum sambac Averrhoa bilimbi Areca catehu Borassus fiabellifer Cocos nucicera Phoenix sylvestris Argemone mexicana Persacaria orientale	Kala Payara Jam Khudijam Eucalyptus Beli Kamranga Supari, gua Tal Narikel Khejur Shelkanta Barapanimarich	Shrub Tree Shrub Tree shrub Shrub Tree Tree Tree Tree Tree Herb		•				•

Ranunculaceae	Clematis gouriana	Chagalbati	Herb				•	•	
Rhamnaceae	Zizypus mauritiana	Kul, Boroi	Tree		•		•	•	•
Rutaceae	Aegle marmelos	Bel	Tree		•		•	•	٠
Rutaceae	Citrus aruntifolia	Kagzi lebu	Shrub		•		٠	٠	•
Rutaceae	Citrus grandis	Jambura	Tree		•		•	•	•
Rutaceae	Feronia limonia	Kothbel	Tree				•	•	•
Rutaceae	Glycosmis arborea	Matmati, Datmajan	Shrub/Herb					•	•
Rutaceae	Zanthoxylum rhetsa	Bazna	Tree					•	•
Sapotaceae	Mimusops elongi	Bakul	Tree		•			•	٠
Scrophulariaceae	Scoparia dulcis	Bondhoney	Herb				٠	•	•
Solanaceae	Physalis minina	Tepari	Herb				•	•	
Solanaceae	Solanum indicum	Titbegun	Shrub	•			•	•	•
Solanaceae	Solanum nigrum	Phutibegun	Herb	•				•	•
Solonaceae	Datura metel	Dhutra	Herb	•				•	•
Sterculiaceae	Abroma augusta	Ulatkambal	Shrub	•				•	•
Tiliaceae	Grewia microcos	Patka	Tree/ Shrub	•				•	•
Ulmaceae	Trema orientalis	Jiban	Tree				٠	•	•
Verbenaceae	Duranta repens	Kanta mehedi	Shrub		•		٠	•	•
Verbenaceae	Gmelina arborea	Gamar	Tree	•			•	•	•
Verbenaceae	Lippia alba	Bhoikra	Shrub		•		•	•	•
Verbenaceae	Tectona grandis	Shegun	Tree		•		٠	•	•
Verbinaceae	Clerodendrum viscosum	Bhant	Herb	•	•	•		٠	•
Verbinaceae	Lantana camera	Lantana	Herb		•			•	•

Legend: A= Char area, B= Haor area. FL= Fallow land, G= Garden, J= Jungles, O= Others

Table 5.3 Roadside Flora of Feasibility Study Area in Char and Haor Area

Fomile.	Spiontiffs	Lacelera	TT_1-14-4	M	icro l	nabita	ats	Sites		
Family	Scientific name	Local name	Habitat	MR MU RS O				A	В	
Amaranthaceae	Achyranthus aspera	Apang	Herb		•	<u> </u>		•		
Amaranthaceae	Alternanthera sesilis	Haicha	Herb	•	٠	L	•	•	•	
Amaranthaceae	Amaranthus spinosus	Kantanotey	Herb		•		•	L•	•	
Anacardiaceae	Lannea coromandelica	Jiga, Jiol	Tree				•		•	
Apocynaceae	Alstonia scholaris	Chatim	Tree				·	•		
Araceae	Colocasia esculenta	Katchu	Herb		•	•	Г	•	•	
Asclepiadiaceae	Calotropis procera	Swet akanal	Shrub		•		Г	•	•	
Bombacaceae	Bombax ceiba	Simul	Tree		•		•	•	•	
Boraginaceae	Heliotropium indicum	Hatisur	Herb			•		•		
Caricaceae	Carica papaya	Papey	Shrub				•	•		
Chenopodiaceae	Chenopodium ambrosioides	Chandonbeto	Herb	•	•	•	•	·	•	
Commelinaceae	Commelina benghalensis	Kanchira	Herb					•		
Compositae	Ageratum conyzoides	Fulkuri	Herb				٠.	٠.	.	
Compositae	Blumea lacera	Shealmutra	Herb			├		 	 .	
Compositae	Eclipta prostrata	Kala keshi	Herb			 	 .	 .	 .	
Compositae	Lippia nodiflora	Bhuiorkra	Herb			·		-		
Compositae	Mikania cordata	Assamlata, Taralata	Tree			-		H	 .	
Compositae	Spilanthes acmella	Marhatitiga	Herb				<u> </u>	H	•	
Compositae	Xanthium indicum	Ghagra	Herb/ Shrub				 	 .	-	
Convolvulaceae	Evolvulus numularis	Bhuiokra	Herb				H÷	H	:	
Convolvulaceae	Ipomoea fistulosa	Dholkalmi	Herb			\vdash	\vdash	⊢		
Cruciferae	Rorippa indica	Bonsarisha	+	 -			┝	<u> </u>	•	
Cucurbitaceae	Coccinia indica		Herb			<u> </u>	•	Ŀ	•	
-		Telakuch	Herb			•	<u> </u>	<u> • </u>	•	
Cyperaceae	Cyperus spp		Herb	_			Ŀ	<u> </u>	<u> </u>	
Cyperaceae	Fimbristylis sp		Herb		_		·	<u> </u>	•	
Cyperaceae	Kyllingia monocephala	Muthaghas	Herb				<u> </u>	<u> </u>	·	
Dioscoreaceae	Dioscroca alata	Chuprialu	Climber		٠	•	<u> </u>	<u> </u>	<u> </u>	
Euphorbiaceae	Croton bonplandianum	Croton	Herb				┝∸	<u> </u>	<u> </u>	
Euphorbiaceae	Phyllanthus emblica	Amlokhi	Tree				<u> </u>	•	·	
Euphorbiaceae	Phyllanthus reticulatus	Chitki	Herb				·	•	<u> </u>	
Euphorbiaceae	Ricinus communis	Reri, Bherenda	Shrub				<u> • </u>	•	Ŀ	
Gramineae	Axonopus compresus	Trufghas	Неть			•		٠	<u> </u>	
Gramineae	Chrysopogon aciculata	Chore kanta	Herb		•	•	·	٠	<u> </u>	
Gramineae	Cynodon dactylon	Durbaghas	Herb		•		Ŀ	•	Ŀ	
Gramineae	Phragmites karka	Khagra, Nal	Shrub				Ŀ	·	<u> </u>	
Gramineae	Setaria glauca		Herb				·	٠	٠	
Gramineae	Vetiveria ziznioides	Benna	Herb					٠	•	
Hydrocotyleaceae	Centella asiatica	Than kuni	Herb		•	•	•	٠	Ŀ	
Labiatae	Hyptis suaveolens	Tokma	Herb		•			٠	٠	
Labiatae	Leucas aspera		Herb		٠		٠	٠	•	
Labiatae	Leucas lavendulifolia	Swetadran	Herb		•		•	• ;	•	
Labiatae	Ocimum sanctum	Tulsi	Herb					•		
Leguminosae	Albizia procera	Koroi	Tree					•	•	
Leguminosae	Cassia fistula	Bandar lathi, sonalu	Tree				•	•	•	
Leguminosae	Cassia occidentalies	Barakalkesunda	Shrub				•		•	
Leguminosae	Cassia siama	Minjuri	Tree				•	•	•	
Leguminosae	Cassia sophera	Chotto kalkesunda	Herb			•		•	•	
Leguminosae	Cassia tora	Chakunda	Shrub		-		•			
Leguminosae	Crotalaria juncea	Shonpat	Herb		•		•	-	•	
Leguminosae	Dalbergia sissoo	Sisso	Tree				•	•	-	
Leguminosae	Delonix regia	Krishnachura	Tree				•		<u> </u>	
Leguminosae	Erythrina variegata	Madar	Tree				•	•	•	

Table 5.4 Charland Flora of Feasibility Study Area in Char

	C N	T I N	II-Litot	Micro habitats					
Family Name	Scientific Name	Local Name	Habitat	HS	CM	BC	0		
Amaranthaceae	Alternanthera sesilis	Haicha	Herb		٠	•			
Amaranthaceae	Amaranthus spinosus	Katanotey	Herb	•	•				
Araceae	Colocasia esculenta	Kanchu	Herb		•	•	•		
Boraginaceae	Heliotropiun indica	Hatisur	Herb		•	•			
Chenopodiaceae	Chenopodium ambrosioides	Chandonbeto	Herb		•	٠			
Commelinaceae	Commelina benghalensis	Kanchira	Herb		•	•			
Compositae	Blumea lacera	Shealmutra	Herb		•	•			
Compositae	Eclipta prostrata	Kolakeshi			•	•	•		
Compositae	Mikania cordata	Assanlata	Herb		•	٠			
Compositae	Spilanthes aemella	Marhatiga	Herb	•	•	•			
Compositae	Vernonia cinerea	Kalojira	Herb			•			
Compositae	Xanthium indicum	Ghagra	Herb		•	•			
Convalvulaceae	Ipomoea fistulosa	Dholkalmi	Herb	•	•	•	•		
Cyperaceae	Fimbristytlis sp		Herb		•	•	•		
Cyperaceae	Kyllinga monocephala	Muthaghas	Herb		•	•			
Euphorbiaceae	Croton bonplandianum	Croton	Herb		•	•			
Graminace	Saccharum spontaneum	Kash	Herb	$\top \cdot$	•	•	Ŀ		
Gramineae	Axonopus compresus	Turf ghas	Tree	•	•	•			
Gramineae	Chrysopogon aciculata	Chore kanta	Herb		•				
Gramineae	Cynodon dactylon	Durbaghas	Herb		•				
Gramineae	Dactyloctenium aegepticum	Makra	Herb			•	•		
Gramineae	Vetiveria zizanioides	Benna	Tree	<u> </u>	•				
Labiatae	Leucas lavendulifolia	Swetadran	Herb		•	•			
Labiatae	Ocimum sanctum	Tulsi	Herb						
Leguminosae	Cassia tora	Chalkasunda	Herb			•			
Leguminosae	Desmodium tritolium	Kodaliya	Herb			•			
Cyperaceae	Fimbristylis chaeteria		Herb			•	•		
Gramineae	Paspalum vaginatum		Herb		•		\vdash		
Gramineae	Panicum repens		Herb			•			
Gramineae	Zoysia matrella		Herb			•	•		
Malvaceae	Sida acuta	Kureta	Herb			•	L		
Malvaceae	Urena lobata	Banokra	Herb			·			
Papaveraceae	Argemone mexicana	Shealkanta	Herb	•			•		
Polygonaceae	Polygonum hydropiper	Biskhatali	Herb			•			
Rhamnaceae	Zizypus mauritiana	Kul, Borai	Herb	$oldsymbol{ol}}}}}}}}}}}}}}}$		•			
Scrophulariaceae	Scoparia dulcis	Bandhuni	Herb			•			
Solanaceae	Datura metel	Dhutra	Herb			•			
Solanaceae	Physalis minima	Tepari	Herb			•			

Legend: HS= High sandy soil, CM= Cultivated with moderate soil, BC= Besides char land, O= Others.

Leguminosae	Samanea saman	Rendi, Raintree	Тгее	-	•	٠	•
Leguminosae	Tamarindus indica	Tetul	Tree		•		
Malvaceae	Sida acuta	Kureta	Herb		•	٠	•
Malvaceae	Sida cordifolia	Berela, kureta, cola	Herb	•	٠	•	•
Malvaceae	Urena lobata	Banokra, Jangli	Herb		•	٠	•
Marsileaceae	Marsilea quadrifolia	Sushnishek	Herb	•	٠	٠	•
Meliaceae	Azadirachta indica	Neem	Tree		•	•	•
Meliaceae	Melia azaderachta	Ghora nim	Tree		•	•	•
Moraceae	Artocarpus heterophyllus	Kathal	Tree		٠	•	•
Moraceae	Ficus benghalensis	Bot	Тгее		•		•
Moraceae	Ficus glomoreta	Jagadumur	Shrub		•	•	•
Moraceae	Ficus hispida	Kakdumur	Shrub	•	•	•	•
Musaceae	Musa paradisica	Kacha kola	Shrub		•	•	•
Musaceae	Musa sapientum	Kala	Shrub		•	•	•
Myrtaceae	Syzygium cumini	Jam	Tree		•	•	•
Myrtaceae	Eucalyptus citriodora	Eucalyptus	Tree		•	•	
Palmae	Areca catehu	Supari	Tree		•	•	
Palmae	Phoenix sylvestris	Khejur	Tree		٠	•	•
Papaveraceae	Argemone mexicana	Shelkanta	Herb	•	•	•	•
Polygonaceae	Persicaria hydropiper	Biskhatali	Tree	•		•	•
Polygonaceae	Persicaria orientale	Barapanimarich	Herb	•	•	•	•
Pteridophyte	Pteris sp		Herb	•	٠	•	•
Rhamnaceae	Zizypus mauritiana	Kul, Boroi	Tree		•	•	•
Rutaceae	Glycosmis arborea	Matmati	Shrub/Herb		•	•	•
Scrophulariaceae	Lindernia procumbens	Bakpuspa	Herb		•	•	•
Scrophulariaceae	Lindernia sp		Herb		•		•
Scrophulariaceae	Scoparia dulcis	Bondhoney	Herb	•	•	•	•
Solanaceae	Physalis minina	Tepari	Herb	•		·	•
Solanaceae	Solanum indicum	Titbegun	Shrub	•		•	•
Solanaceae	Solanum nigrum	Phutibegun	Herb	•		•	•
Solonaceae	Datura metel	Dhutra	Shrub	٠	•	•	
Verbenaceae	Duranta repens	Kanta mehedi	Shrub		•	•	
Verbinaceae	Clerodendrum viscosum	Bhant	Herb		•	•	•
Verbinaceae	Lantana camera	Lantana	Herb			•	•

Legend: A= Char area, B= Haor area, MR= Semi-metalled roadside, MU= Muddy roadside, RS= Roadside slope, O= Others.

Table 5. 5 List of Identified Wetland Wildlife and Fish Fauna in Algar Char Gram of Fulchari Upazila, and Gurai Gram of Nikli Upazila

FORM	CLASS FAMILY	AMILY	ENGLISH NAME	SCIENTIFIC NAME	0	T d	T VC	93	Ð	> B	R CT		REMARK
	Amphibia												
	Ranidae	a											
А			Skipper frog	Euphlyctis cyanophlyctis*	+		+					A, G	
					×	×	×		×	※	×		
	Reptiha									_			
	Bataguridae*	ridae*											
R			Common Batagur	Batagur baska		+			+		+	A, G	
R			Indian Roofed Turtle	Kachuga tecta		+		+				A	
R			Median Roofed Turtle	Kachuga tentoria		+				+	+	A, G	
R			Brahmini River Turtle	Hardella thurji		+				+	+	A, G	
	Тлопусидае	chidae											
R			Ganges Soft Shell	Aspideretes gangeticus*		+			+		+	А	
	Homak	Homalopsidae											
R			Common Smooth Water Snake	Enhydris enhydris		+		+				A, G	
	Natricidae	dae											
24			Checkered Keelback	Xenochrophis piscator		+		+				A, G	
	Aves					×	×		X				
	Dendro	Dendrocygnidae											
В			Lesser Whistling-duck*	Dendrocygna javanica		+		+				A, G	
В			Falcated Teal	Anas falcata		+		+				А	
В			Mallard	Anas platyrhynchos		+					+		
В			Garganey	Anas querquedula		+		+				A, G	
	Podicip	Podicipedidae*											
В			Little Grebe	Tachybaptus ruficollis*		+		+				A, G	
	Phalact	Phalacrocoracidae*											
В			Indian Cormorant*	Phalacrocorax fuscicollis		+					_	G	
В			Little Cormorant	Phalacrocorax niger	+		+					A, G	
	Anatidae	æ				\dashv			1		\dashv	_	
В			Common Teal	Anas crecca		+		+	\dashv			G, MB	

LIFE CLASS FAMILY FORM	, A	ENGLISH NAME	SCIENTIFIC NAME	0 P	OA T	00 0	CE E V	'R CT	REMARK
Rallidae	31								
В		Watercock	Gallicrex cinerea		+				A, G
В		Water Rail	Rallus aquaticus		+		-	+	A, B, MB
В		Brown Crake	Amauromis akool		+	+			Ü
В		White-breasted Waterhen	Amaurornis phoenicurus		+				A, G
В		Common Coot*	Fulica atra		+				A, G, MB
В		Common Moorhen*	Gallinula chloropus		+	+			A, G
В		Purple Swamphen	Porphyrio porphyrio		+	+			A
Mammalia					_				
	Platanistidae								
M			Platanista gangetica		+		+		A, G

Cyprinidae	idae								i
4		Rohu	Labeo rohita	+		+			A, G
L		Flying Barb	Esomus danricus		+				A, G
ĮĮ.		Blackline Rasbora	Parluciosoma daniconius*		+				A, G
Ш		Black Rohu	Labeo calbausa		+		+		A, G
Ĺ,		Reba Carp	Cirrhinus reba		+		+		A
Ľ.		Mrigal	Cirrhinus mrigala		+				A, G
ĹŢ,		Olive Barb	Puntius sarana	-	+		+		A, G
[2,		Ticto / Firefin Barb	Puntius ticto	+			+		A, G
H		Swamp Barb	Puntius chola*		+	+			A, G
[1		Cotio	Osteobrama cotio*		+		+		A, G
Ľ		Large Razorbelly	Salmostoma bacaila		+	+			A, G
		Catla	Catla catla		+	+			A, G
Cobilidae	lac								
[I.		Gongata Loach	Somileptes gongota		+	+	1		А
Станове	10								
Ŧ		Magur	Clarius batrachus	+		+			A, G
[Referro]	Heteropneustidae								
F		Stinging Catfish	Heteropneustes fossilis	+		+			A, G
Siluridae	ас								
F		Freshwater Shark	Wallago attu	+		+			A, G
Ŧ,		Pabda Catfish	Ompok pabda		+		+		A, G
F		Indian Butter-catfish	Ompok bimaculatus	·	+		+		A, G
£.		Pabo Catfish	Ompok pabo		+		+		A, G

LIFE	CLASS FAMILY	ENGLISH NAME	SCIENTIFIC NAME	0	T d	, ov	93	3	VR	10	REMARK
	Chacidae										
ы		Indian Chaca	Chaca chaca		+			+			A, G
	Bagnidae							-			
F		Tengra Mystus	Mystus tengara	+			_	-			A, G
F		Striped Dwarf Catfish	Mystus vittatus		+		+				A, G
F		Menoda Catfish	Mystus menoda		+						А
F		Gangetic Mystus	Mystus cavasius		+				+		A, G
ī		Tista Batasuio	Batasio batasio		+		+				A
H		Long-whiskered Catfish	Aorichthys aor*		+				+		A, G
	Schiberdae										
F		Indian Potasi	Pseudotropius atherinoides		+	·	+				А
댼		Gangetic Ailia	Ailia colia		+		+				A
F		Silondia Vacha	Silonia silondia		+			+			A, G
ĽΤ		Jamuna Ailia	Ailia punctata*		+				+		A, G
F		Garua Bacha	Clupisoma garua		+			+			A, G
	Ariidae*										
F		Gagora catfish	Arius gagora*		+			_			A, G
[14		Soldier Catfish	Osteogeneiosus militaris		+			_			A, G
	Pangasidae*										
F		Pangus	Pangasius pangasius	+				+			A, G
	Belondae							_			
F		Freshwater Garfish	Xenentodon cancila	+		+		_			A
	Chamidae										
F		Asiatic Snakehead	Channa orientalis*		+				+		A, G
F		Spotted Snakehead	Channa punctatus		+		+				A, G
	Centropornidae							-			
F			Chanda baculis								A, G
F			Chanda ranga								А
	Mastacembelidae								1		
F		Striped Spinyeel	Mastacembelus pancalus	+		·	+	-			A, G
ਮ		Tire-trak Spinyeel	Mastacembelus armatus		+			+			A, G
F	_	One-stripe Spinyeel	Macrognathus aculeatus		+				+		A, G
	Anabantidae										
伍		Climbing Perch	Anabas testudineus	+			+				A, G
	Pristolepidae							_			
H.		Dwarf Chameleon fish	Badis badis		+		1	+	1		A, G
	Nanidae							+	1		
H		Mud Perch / Mottled Nandus	Nandus nandus		+				+		A,G

CE E V R CT REMARK		A, G		A, G		A, C	A ·	A		A, C			<	A, O		A, G	A, G	A		A, G		A, G	A, G	-		+ +		A, G	A, G	A	A		A, G
VC 00		1		+	_	+	+	+	+				-	+	+	+				+		+	+	_			1	+	+		+		+
T		+		+	-		+		_	+				+	+	+	+	+		+			+	_	+	+		+		+	+		+
e c					1	+		+	1	1										-		+							+				
SCIENTIFIC NAME		Toxotes charareus		Polydactylus indicus*		Colisa sota	Colisa fasciatus*	Colisa lalia*		Butis butis		Pseudopocryptes	lanceolatus*	Glossogobius giuris	Awaous gutum*	Awaous grammepomus	Brachygobius nunas	Periophthalmus keolreuteri		Johnius coitor		Chelodon fluviatilis*	Chelonodon potoca*		Notopterus chitala	Notopterus notopterus		Tenualosa ilisha*	Corica soborna	Gudusia varigata	Gudusia chapra	n 11 124 L . L .	Pellona attchela
ENGLISH NAME		Spotted Chatareus		Indian Threadfish		Sunset Gourami	Giant Gourami	Dwarf Gourami		Duckbill Sleeper				Tank Goby			Bumblebee Goby			Coitor Croaker		Green Pufferfish	Gangetic Pufferfish		Humped Featherback	Grey Featherback		Hilsa	Ganga River-Sprat	Burmese River Shad	Indian River Shad		Indian Pellona
FAMILY	Toxotidae		Polynemidae		Belontiidae				Blentndae		Gobiidae								Psigemidae		Tetradontidae			Notopteridae			Clubeidae						
LIFE CLASS	700			[[, []		[II.		Ĺī.		1	, II					TI.					[II.			[II	1 1				[7,

Legend: A= Amphibia, B= Bird, M= Mammal, R= Reptile, F= Fish, O= Observed, P= Previous record, L= Local information, VC= Very common, CO= Common, CE= Critically endangered, E= Endangered, V= Vulnerable, R= Rare, CT= Commercially threatened. MB= Migratory Bird, A= Algar Char Gram, G= Gurai Gram, * = new name followed.

Table 5.6 List of Identified Terrestrial Wildlife in Algar Char Gram of Fulchari Upazila and Gurai Gram of Nikli Upazila

LFE CE	CLASS	FAMILY	ENGLISH NAME	SCIENTIFIC NAME	O P L) AC	00	B B	۸	R CT	REMARK
	Amminia										
		Ranidae									
A			Bull frog	Hoplobatrachus tigerinus*	+	+				+	A, G
\\			Cricket frog	Limnonectes limnocharis*	+	+					A, G
. ✓			Boulenger's Frog	Rana alticola	+				+		A, G
		Bufonidae						$\frac{1}{2}$	 	 	
A			Common Toad	Bufo melanostictus	+	+		$\frac{1}{1}$			A, G
		Microhylidae				$\frac{1}{1}$			-	-	
A			Ornate Microhylid	Microhyla ornata	+				+		A
		Rhacophoridae				}		+	1	1	
A			frog	Polypedates maculatus*	+	-	+ 2		-	XXXXXXX	A, G
			▓			***					
2	Reptilia										
		Gekkomidae			-	}		+	- - 	 	
2			Common House Lizard	Hemidactylus brooki	+	<u> </u>	+	+	+	+	A, G
~			House Lizard	Hemidactylus bowringii	+					<u> </u>	A, G
2			Common House Lizard	Hemidactylus flaviviridis	+	+			-		A, G
						_		1	+	_	
		Agamidae							1		
R			Common Garden Lizard	Calotes versicolor	+	1	+	+	+	+	A, G
		Scincidae				-		+	1	+	
22			Snake Shink	Riopa punctats						1	A C
2			Common Skink	Mabuya carinata	-	+	+	+			A, C
		Varanidae				-		+	<u> </u>	\ -	
R			Bengal/Grey Monitor Lizard	Varanus bengalensis	_	_ _		+	+	+	A, G
R			Yellow Monitor / Common	Varanus salvator				T	+	+	A
		Dipsadidae									ļ
22			Common Wolf Snake	Lycodon aulicus		+		_	- †	-	A, G
۲. ۲.			Yellowspeckled Wolf Snake	Lycodon jara		+			+	1	
		Colubridae								+	
R			Rat Snake	Coluber mucosus*		+			+	-	A, G
M M			Shortnosed Vine Snake	Ahaetulla nasutus			1	+	 	+	A, G
		Typhlopidae			+	$\frac{1}{2}$		1	+	 -	A, G
R			Snake	Ramphotyplops bramina* + + + A. C.		+	+		XXXXX		A, G
						***		***	***	××××××××××××××××××××××××××××××××××××××	***************************************

VC CO CE E V R CT REMARK			+ A, G	+ G, K		+		+ + + + + + + + + + + + + + + + + + +		4+ A, C		+ A, C		†	+		+ A, C			4,6		4, G			4, G		+ A, C			+ A,	+ A, G	-	+ A, G			+ A, G	
1					H			+	+	$\frac{1}{1}$	#	+	1	+	+		+	1	-		1	+	+	-			+	+	+	+	+	4	+	-† -†	+	+	
a o			+	+		+		_		+									+	+		+	1	+	+		_								+	+	_
SCIENTIFIC NAME			Alcedo atthis	Halcyon smyrnensis		Ceryle radis		Upupa epops		Megalaima lineata		Dinopium benghalense		Francolinus gularis	Francolinus pondicerianus		Merops orientalis		Centropus sinensis	Cuculus micropterus		Psittacula krameri		Apus affinis	Cypsiums balasiensis*		Tyto alba		Athene brama	Ketupa zeylonensis*	Ketupa flavipes		Caprimulgus asiaticus		Columba livia	Streptopelia chinensis	
ENGLISH NAME			Common Kingfisher	White-throated Kingfisher*		Pied Kingfisher*		Common Hoopoe		Lineated Barbet		Black-rumped Flamback*		Swamp Francolin*	Grey Francolin*		Green Bee Eater		Greater Coucal*	Indian Cuckoo		Roseringed Parakeet		House swift	Asian Palm Swift*		Barn Owl		Spotted Owl	Brown Fish Owl	Tyne Fish Owl		Indian Nightjar		Rock Pigeon*	Spotted Dove	
CLASS FAMILY	Aves	Alcedmidae			(Tervildae*		Upupidae		Megalaimidae		Picidae		Phasiandae			Meropidae		Centropodidae			Psittacidae		Apodidac			Tytonidae		Strigidae				Caprimulgidae		Columbidae			Rostraftilidae
FORM	1		m m	В		H.		В		В		B		В	B		В		В	В		В		B	В		В		M	m m	m		m		m	В	

LIFE CLASS	S FAMILY	ENGLISH NAME	SCIENTIFIC NAME	d O	T vc	00	(E)	EV	В	CT REMARK	KK.
B		Greater Painted-Snipe*	Rostratula bengalensis		+	H	 			A, G	Ī
	Jacanidae							_		-	T
В		Pheasant-tail Jacana	Hydrophasianus chirurgus	+	+	+				A ·	
В		Bronze-winged Jacana	Metopidius indicus	1	+ +	+	+		+	A, G	T
	Scolopacidae			-	_	-	-	_ 	 	; - -	Ţ
2		Common Sandpiper	Actitis hypoleucos*		+	+		}		A, G, MB	n]
n m		Curlew Sandpiper	Calidris ferruginea		+	+		-		A, G, MB	m
<u> </u>		Fantail Snipe*	Gallinago gallinago			1		_		A, MB	
a m		Eurasian Curlew*	Numenius arquata	_	+		-		+	A, G, MB	щ
n ee		Ruff*	Philomachus pugnax		+				1	A, G, MB	m
<u> </u>		Marsh Sandpiper	Tringa stagnatilis		+	+				A, G, MB	m
B		Common Redshank	Tringa totanus		+	-			+	A, G, MB	n
	Charadriidae			-	_	4	1	1			T
Ж		River Lapwing*	Vanellus duvaucelli		+	4		+		A	
В		Red-wettled Lapwing	Vanellus indicus		+	+				<u>5</u>	T
	Glareolidae					-					
B		Small Pratincole*	Glareola lactea		+	+				A, MB	T
	Landae				_	+		-			
2		Gull-billed Tem	Gelochelidon nilotica		+	+		1		A, G	T
<u> </u>		Indian Skimmer	Rynchops albicollis		+	_	_	+	-	V V	
2		Little Tem	Sterna albifrons		+	+	`	+		A, G	
m		River tern*	Sterna aurantia	+	+	1	 		+	A, G	T ₆
В		Whiskered Tern	Chlidonias hybridus		+	+	1		_	A, G, MB	<u>n</u>
В		Common Tern	Sterna hirunda	-	+	+	+	-	+	A, G, MB	i i
	Glareolidae							1			
В		Little Ringed Plover	Charadrius dubius	-	+	+		+	_	A, G, MB	n
В	Accipitndac*			\dashv	1	+	+	}	+		T
В		White-rumped Vulture*	Gyps bengalensis	+	+	+		1	+	Š Š	
В		Pallas's Fish Eagle*	Haliaeetus leucoryphus	+				+		A, G	
В		Brahminy Kite	Haliastur indus	+	+	ļ				A, G	
<u> </u>		Lesser Spotted Eagle	Aquila pomarina	+		_	- -			A, MB	
<u> </u>		Eurasian Marsh Harrier*	Circus aeruginosus		+	-			_	G, MB	
		Black Kite*	Milvus migrans	+		+		1		A	
2		Grey-headed Fish Eagle	Ichthyophaga ichthyaetus	+		+					
m		Osprey	Pandion haliaetus	_	+		- \ - 	-	-	+ A, MB	
	Ardendae			1	1	+		1		<	T
В		Indian Pond heron*	Ardeola grayu	+	+ -	+		+	+) t	
В		Cattle Egret	Bubulcus ibis	+	+	-	-	1) (4)	

FAMILY	ENGLISH NAME	SCIENTIFIC NAME	0	P L	VC	00	CE 1	Е	RCT	REMARK
\ &	Great Egret*	Casmerodius albus*		+		+				A, G
Lit	Little Egret	Egretta garzetta	+		+					A, G
ا ز :ا	Cinnamon Bittern*	Ixobrychus cinnamomeus		+		+				A, G
Ľ	Little Bittern	Ixobrychus minutus		+						G
티틴	Intermidiate Egret*	Mesophoyx intermedia*	+			+				A, G
Asi	Asian Openbill*	Anastomus oscitans		+		+				A
Ğ.	Glossy Ibis	Plegadis papillosa		+						G
								_		
હ	Golden-fronted Leafbird	Chloropsis aurifrons		+		+				A, G
٦	Long-tailed Shrike*	Lanius schach	+	<u> </u>		+				A
	,		<u> </u>	_						
Ţ	Jungle Crow	Corvus macrorhynchos	+		+					A, G
H	House crow	Corvus splendens	+		+					A, G
Ruf	Rufous Tree Pie*	Dendrocitta vagabunda	+			+				A, G
Blac	Black-headed Oriole	Oriolus xanthornus	+			+				A, G
Cou	Common Iora	Aegithina tiphia		+		+				A, G
준	Ashy Woodswallow*	Artamus fuscus		+ '		+				A, G
										A, G
Вι	Black Drongo	Dicrurus macrocercus*	+		+					A, G
മ്പ	Bronzed Drongo	Dicrurus aeneus	+			+				A, G
i										
	Large Cuckooshrike	Coracina macei*		+		+				A, G
ÇO.	Small Minivet	Pericrocotus cinnamomeus		+		+				А
ŲΙ	Common Woodshrike	Tephrodornis pondicerianus		+		+				A, G
3	White-throated Fantail*	Rhipidura albicollis	+			+				A, G
-	Oriental Magpie Robin*	Copsychus saularis	+		+					A, G
	Pied Bushchat	Saxicola caprata		+				-		A
- 1	Common Myna	Acridotheres tristis	+		+					A, G
	Bank Myna	Acridotheres ginginianus	+	-	+			1		A
۹ı	Asian Pied Starling*	Sturnus contra	+	4	+					A, G

LIFF	CLASS FAMILY	ENGLISH NAME	SCENITFIC NAME	ОВ	T VC	8	CE	EV	R CT	REMARK
В		Chestnut-tailed Starling*	Stumus malabaricus	+	+					A, G
	Paridae									
В		Great Tit*	Parus major	+		+				A, G
	Pyenonotidae					-				
В		Red-vented Bulbul	Pycnonotus cafer	+	+			7		A, G
	Cisticolidae									
В		Grey-breasted Prinia*	Prinia hodgsonii	+	·	+				G, K
	Sulviidae*									
В		Striated Grassbird*	Megaurus palustris	+		+			-	A, G
[B		Common Tailorbird	Orthotomus sutorius	+	+					A, G
B		Common Babbler	Turdoides caudatus		+					A, G
В		Jungle Babbler	Turdoides striatus	+		+			_	A, G
	Alandidae									
В		Rufous-winged Bushlark*	Mirafra assamica	+		+				A, G
	Nectarinidae									
В		Purple Sunbird	Nectarinia asiatica	+		+				A, G
В		Purple-rumped Sunburd	Nectarinia sperata	-	+	+				A, G
В		Little Spiderhunter	Arachnothera longoropstra		+	+				A, G
	Passeridae									
В		Black-headed Munia	Lonchura malacca	+		+				A, G
В		Scally-breasted Munia*	Lonchura punctulata	_	+	+				A
В		House Sparrow	Passer domisticus	+	+					A, G
В		Baya Weaver*	Ploceus philippinus	+		+				A, G
В		Paddyfield Pipit	Anthus rufulus*	+	+					A, G, MB
	Motacillidae									
В		White browed Wagtail*	Motacilla maderaspatensis	+		+				A, G
В		White Wagtail	Motacilla alba		+	+				A, G, MB
	Mammalia					_		7		
	Canidae			1		-				
М		Jakal	Canis aureus	+	+			+		A, G
	Felidae									
M		Fishing cat	Prionailurus bengalensis		+			+	_	A, G
	Soricidae									
М		Grey Musk Shrew	Suncus murinus		+	+		\dashv		A, G
	Pieropodidae			+		_		 	1	
M		Flyintg Fox	Pteropus gigantius	+				_	+	A, G
	Vespertilionidae									

LIFE	CLASS FAMILY		ENGLISH NAME	SCIENTIFIC NAME	<u>a</u>	1	VC C	CO CE	н	V R CT	REMARK
M			Indian Pipistrelle	Pipistrellus coromandra	+		+				A, G
	Herpestidae	36									
×			Small Indian Mongoose	Hervested auropunctatus		+	+				A, G
	Mustelidae	9					1	1		1	
M			Common Otter	Lutra lutra		+	+	-	 	 	A, G
	Muridae						-				
z			Indian mole Rat	Bendicota bengalensis		+				_	A, G
 			Bandicoot Rat	Bandicota indica		+					A, G
M			Indian Field Mouse	Mus booduga		+	+ 				A, G
E 2			House Mouse	Mus musculus		+					A, G
[≥			Common House Rat	Rattus rattus		+	+				A, G
	Schridae					_	_		-	-	
M			Iтаwaddy Squirrel	Callosciurus pygerythrus		+	+				A, G

Legend: A= Amphibia, B= Bird, M= Mammal, R= Reptile, F= Fish, O= Observed, P= Previous record, L= Local information, VC= Very common, CO= Common, CE= Critically endangered, E= Endangered, V= vulnerable, R= Rare, CT= Commercially threatened, A= Algar Char Gram, G= Gurai Gram, K= Insufficiently known, MB= Migratory bird, *= new name followed.

Table 5.7 List of Critically Endangered, Endangered and Vulnerable Wildlife, and Fish Fauna in Char and Haor Area

REMARK		A, G		A, G			A, G	A, G	A, G		A, G	,	A, G	A, G	i	A, G			A		A, G	A, G				G, K	G, K	
V		}					7	7					+		1	+	+	1	+		+		∞					_
E							+		+					+													+	
Œ								+			+															+		
0		+		+																								
SCIENTIFIC NAME		Microhyla ornata		Rana alticola			Hardella thurji	Batagur baska	Kachuga tentoria		Aspideretes gangeticus*		Varanus bengalensis	Varanus salvator		Lycodon aulicus	Lycodon jara		Xenochrophis cerasogaster		Coluber mucosus*	asutus				Francolinus gularis	Perdicula manipurensis	
ENGLISH NAME		Ornate Microhylid		er's Frog			Brahmini River Turtle	Common Batagur	Median Roofed Turtle		Ganges Soft Shell		Bengal, Grey Monitor Lizard	Yellow Monitor / Common Lizard		Common Wolf Snake	Yellowspeckled Wolf Snake		Dark-bellied Marsh Snake		Rat Snake	Shortnosed Vine Snake				Swamp Francolin*	Manipur Bush Quail*	
FAMILY	Microhylidae		Ranidae			Bataguridae*				Trionychidae		Varamidae			Dipsadidae			Natricidae		Colubridae					Phasiandae			Strpidae
CLASS					Reptilia																			Aves				
LIFE FORM		A		A			R	2	2		R		R	R		R	R		R		R	~				В	B	

LIFE CLASS FORM CLASS	FAMILY	ENGLISHNAME	SCIENTIFIC NAME	o CE	ш	VR	REMARK
В		Spotted Owl	Athene brama			G,	
В		Brown Fish Owl	Ketupa zeylonensis*			+	G, K
В		Tyne Fish Owl	Ketupa flavipes		+		
	Landae						
В		Indian Skimmer	Rynchops albicollis		+	A	
В		Little Tern	Sterna albifrons		+	A	A, G
В	Accpitridae*						
В		Pallas's Fish Eagle*	Haliaeetus leucoryphus	+	+	1	A, G
Maumalia	0 00						
	Canidae						
M		Jakal	Canis aureus			+ A,	, G
	Felidae						
M		Fishing cat	Prionailurus bengalensis		+	Α	A, G
	Platanistidae						·
M			Platanista gangetica			A	A, G
							**
Osteichthyes							
	Cyprinidae						1
H		Black Rohu	Labeo calbausa		+	Ğ,	Α,
F		Reba Carp	Cirrhinus reba			+ +	
Ħ		Olive Barb	Puntius sarana		+	A	A, G
ΙΉ		Ticto / Firefin Barb	Puntius ticto	+		+ A	A, G
ഥ		Cotio	Osteobrama cotio*		+	A	A, G
Ιų		Gangetic Latia	Chrossocheilus latius		+	A	
	Sihandae						
Ħ		Pabda Catfish	Ompok pabda		+	A,	, G
দ		Indian Butter-catfish	Ompok bimaculatus		+	A	A, G
F		Pabo Catfish	Ompok pabo		+	A	A, G
	Chacadae						
F		Indian Chaca	Chaca chaca		+	A	A, G
	Bagridae						

REMARK	ای	G			G	ی	ای		9		G		ڻ	G		5		G		G	
	A, G	A, G		۷	A, G	A, G	A, G		A, G		A, G		A, G	A, G		A, G		A, G		A, G	A
V	+	+				+		_			+	-		+				+			+
Е					+								+			+				+	
CE				+			+		+												
0									+												
SCENTIFIC NAME	Mystus cavasius	Aorichthys aor*		Eutropichthus vacha	Silonia silondia	Ailia punctata*	Clupisoma garua		Pangasius pangasius		Channa orientalis*		Mastacembelus armatus	Macrognathus aculeatus		Badis badis		Nandus nandus		Notopterus chitala	Notopterus notopterus
ENGLISH NAME	Gangetic Mystus	Long-whiskered Catfish		Batchwa Bacha	Silondia Vacha	Jamuna Ailia	Garua Bacha		Pangus		Asiatic Snakehead		Tire-trak Spinyeel	One-stripe Spinyeel		Dwarf Chameleon fish		Mud Perch / Mottled Nandus		Humped Featherback	Grey Featherback
FAMILY			Schiberdae					Pangasidae*		Charmidae		Mastacembelidae			Pristolepidae		Nanidae		Notoptendae		
CLASS																					
LIFE FORM	H	Ľ		Į.	ഥ	Ţ	<u> </u>		щ		щ		ш	Ľ		[L,		Ľ		Н	Ŧ

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