Exploring market-based wildlife trade dynamics in Bangladesh

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SUPPLEMENTARY TABLE 1 Observation checklist used to collect information in the market survey.

Ref no	o: Date:	Time:		Market Name	e:	
Locat	ion: City/Village/Park border/	Inside park				
		Road commun	ication	Highway/Ma	rine high	way/Village
Ports	close to the market:	Distance fro	om port:	Surve	eyor ID:	
		Obse	rvations			
1	Name of observed species					
2	Taxa of observed species					
3	Conservation Status of the obs	erved species	IUCN Categ	gories	CITES	Appendix
5 Conservation States of the o						
4	Type of animals		Live		Byprodu	cts
5	Number of individuals/Produc	ts(As a whole	As live whol	e animals	As by-pr	roducts
	allillais)					
6			District	Division	l	Foreign
0	ration: City/Village/Park bordersence of LEM office: Yes/Nond/No Road Its close to the market: Name of observed species Taxa of observed species Conservation Status of the old Type of animals Number of individuals/Produanimals) Origin of observed wildlife Destination of wildlife Price of the wildlife Price of wildlife Harvest methods Transportation methods Motivation of trading					
7	Destination of wildlife			<u> </u>		
8	Price of the wildlife					
9	Source of wildlife		Wild		Captive	breed
10	Harvest methods					
11	Transportation methods					
12	Motivation of trading					
13	Picture ID for the Observation					

SUPPLEMENTARY MATERIAL 1 Questionnaire used to interview respondents (this is a translation from the original questionnaire in Bangla).

			ID NUMBER	ı
QUESTIONNAIRE DATE:				
INTERVIEWER _ UNION:				
UNION.			.,,	
	Coordinate	X	Y	

SECTION-1: ORAL STATEMENT AND CONSENT FORM

I am Nasir Uddin a PhD student of Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences. I would like to talk with you about your opinions on the environment, biodiversity of Bangladesh because you are a citizen of Bangladesh with having possible experiences and information about the environment of Bangladesh. I am trying to understand what the status of wildlife and threats to them is and how people think about all those threats and possible mitigation approaches. For this reason, I would like to ask you several questions. There are no wrong answers to any questions I ask you.

Your personal information never is associated with the answer you will be provided. Information you will be provided will be in your control. I will give your interview only a reference number, nothing else which is at the top of the questionnaire. The location of your home, your family status and personal information will not be taken with me. I will take the information you will provide and will take back those with me and will analyze with information from other media and sources. No raw information will be shared with any authorities, only published papers and suggestions generated through this information will be shared with government, conservation communities and research communities for better policy formation and conservation planning.

You may choose not to participate in the interview, or can say not to answer any questions if you think. If you do not understand any questions please ask me, I will be happy to clarify at any time. You must be at least 18 to participate in this interview process.

Are you happy to complete this survey?	(Tick (\	√) if YES; cros	ss (X) if NO)

Quick notes for interviewer

This questionnaire will act as a template to ask questions to respondents. Respondents will be selected from those who are already involved with wildlife trade events like hunting/poaching, trading/smuggling and use/consumption. Primary list of probable respondents will be selected from government records and sampling number will be reached by following snowball sampling methods. So, all five categories of behaviour related questions will ultimately assess respondent's behaviour what will be analyzed to see drivers of wildlife trade. Later on, open-ended questions will be asked to assess comparative scale, nature, trend, purposes, law enforcement gaps and intervention measures to prevent wildlife trade in Bangladesh.

SECTION-2: STRUCTURED QUESTIONS

Ice breaking questions:

	Please indicate how much you agree or d	isagree with	the follow	ing statement:		
	Statement	Strongly agree	Agree	Neutral (neither agree nor disagree)	Disagree	Strongly disagree
1	I like cricket more than football					

2	Spicy food is tasty than non-spicy food					
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A: KNOWLEDGE ABOUT WILDLIFE AND LAWS

"This first section of questions is focused on local wildlife and wildlife rules." By wildlife I wanted to mean animals that live in forest and seas and not domesticated. Wildlife has been protected by the local government and by roles and I was I wanted to mean the practices or procedure government following to protect and conserve forest and wildlife. Please indicate how much you agree or disagree with the following statements:

	ronowing statements:					
	Statement	Strongly agree	Agree	Neutral (Neither agree nor disagree)	Disagree	Strongly disagree
1	I am afraid about the disruption of					
	ecological services in my area					
2	I am afraid about the future extinction of certain wildlife					
3	I am aware of national law and					
	regulations of wildlife protection					
4	I am aware of global laws and					
	regulations of illegal wildlife trade					
5	I think that protected species trade has					
	been legally restricted nationally and					
	internationally					
6	I think that wildlife trade is a					
	punishable offence in Bangladesh					
7	Wildlife trade is one of the main					
	causes of global biodiversity loss					
8	Wildlife handling can transmit diseases					
	to humans					

B: LIVELIHOOD

	Livelihood denotes means of securing the	e basic needs	of huma	n life. In this sect	ion you will	be asked a
	couple of questions about your livelihood	d and their in	teraction	with wildlife trac	de. Please ind	dicate how
	much you agree or disagree with the follo	wing statem	ent:			
	Statement	Strongly agree	Agree	Neutral (neither agree nor disagree)	Disagree	Strongly disagree
1	Most of my earnings come from natural					
	resource trade					
2	Lack of effective income generation					
	activities influence wildlife trade in my					
F	area					
3	Wild animals (Mammals, birds, reptiles,					
	amphibians and some marine species)					
	trade can make more money than any					
	other business					
4	Financial transaction faces no problem					
	in wildlife trade					
5	Recruiting hunter/poacher is easy with					
	small wages					
6	I think wildlife parts can be transported					
	at low cost					

C: RISK, EFFORTS AND LAW ENFORCEMENT

Risk denotes chances of being exposed to law enforcement/authorities while committing any trade events. Efforts denote attempts, time, financial involvement and other activities to complete a trade event. Law enforcement denotes detection, arrest, confiscation (items), prosecution and conviction by any law enforcement agencies for any trade associated personnel or trade items. Please indicate how much you agree or disagree with the following statement:

				•		
	Statement	Strongly agree	Agree	Neutral (neither agree nor disagree)	Disagree	Strongly disagree
1	I believe that detection of wildlife trade is not so easy by present law enforcement system					
2	There are little chances of being arrested while poaching wildlife					
3	There are little chances of being arrested while trading wildlife					
5	There is little chance of being arrested while transporting wildlife in Bangladesh					
5	There is little chance of seizure of wildlife in airports					
6	There is little chance of seizure of wildlife in seaports					
7	The severity of penalties of poaching in Bangladesh is very low					
8	The severity of penalties of wildlife trade in Bangladesh is very low					
9	Chance of prosecution of wildlife criminals is very low in Bangladesh					
10	Chances of being convicted for wildlife trade is very low in Bangladesh					

D: DEMAND

Demand means the desire of people to buy and spend money on wildlife and wildlife parts. Demand maybe in locally, nationally or from international communities. In this section we will discuss about the demand for wildlife parts in your locality, within the country and outside the country. Please indicate how much you agree or disagree with the following statement:

	Statement	Strongly	Agree	Neutral	Disagree	Strongly
		agree		(neither agree		disagree
				nor disagree)		
1	Getting customers for wildlife					
	products is very easy					
2	There is the demand for bushmeat					
	inside Bangladesh					
4	There is the demand for bushmeat					
	from outside the country					
5	There is the demand for wildlife parts					
	for antiques inside Bangladesh					
6	There is the demand for wildlife parts					
	for antiques outside Bangladesh					
7	People like to keep wildlife as a pet in					
	Bangladesh					
8	People use wildlife parts as traditional					
	medicine					

9	Traditional medicine production in			
	Bangladesh requires wildlife parts.			
10	Wildlife can be easily sold from any places of Bangladesh			
11	There is the demand for wildlife trade on social media			

E: CULTURE

	Culture means ideas, customs, hobbie Please indicate how much you agree or d			•	ar people o	or society.
	Statement	Strongly agree	Agree	Neutral (neither agree nor disagree)	Disagree	Strongly disagree
1	Hunting wildlife is a traditional practice of mine					
2	I use bushmeat as a traditional diet					
3	I use/hunt wildlife as a norm of my ethnicity or cultural custom					
4	Keeping wildlife is considered prestigious in our culture					
5	Poaching and use of wildlife is related to cultural events of us					
6	50% of my family medicine comes from wildlife and wildlife parts					
7	Wildlife trade is my main business					

OPEN ENDED QUESTIONS:

Poaching

- Are there poaching activities going on in this area?
- Approximately number of households that depend on wildlife poaching?
- What forces/motivates people to poach in this area? (For subsistence, sale, sport/game, others?)
- Do people poach independently or as a group? As a group, how did you coordinate with each other?
- Do the people poach work for other individuals/ bosses/ Taukes?
- What animals do they poach? Any target species? If so, who are they and where are they from?
 (d)
- O How do they choose where to poach? (b) And when?
- O How many times do they go to the park in a month?
- O How do they get into the forest? Are there any tactics?
- O What type of weapons/gears/snares/poison do they use to kill animals?
- O How do they prepare to go poaching in the park?
- o How do they collect information about wildlife locations?

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Snaring

- o Do they use snares?
 - Which type of snares do they use
 - Can you describe how they set snares? (How many people needed, when is best to check?)
 - What animal was targeted, typically caught with these snares?

Precautions to detection, awareness of arrests

- Are there patrols/forest patrolling where they poach?
- o What precautions do they take to avoid discovery by the patrol team?

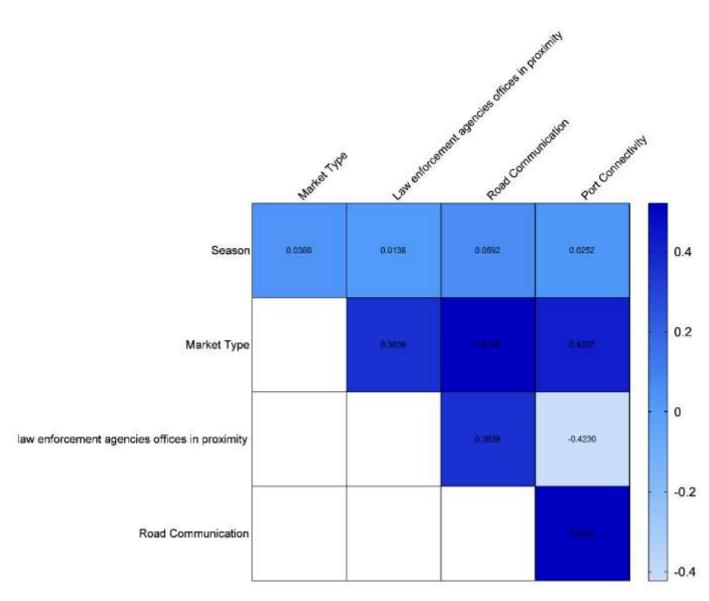
- O Why do they take the risk in your opinion?
- Have you heard of any poachers being arrested in the forest? Can you tell me about those cases you have heard of?

Market

- Who are their customers consumer profiles? (h) And what key species or products are traded? (e)
- O How much do they sell it?
- What modalities of sale? (Online, in markets, through intermediaries, direct sales to know buyers?) (g & e)
- What transport methods and routes are used (logistics)? (f)

General knowledge and Prevention methods

- O Do you know selling wildlife is illegal according to Bangladesh? Tell us detail
- Tell as five reasons why you are doing wildlife trade
- o Tell us the name of five wildlife that's buyers like most in your areas
- o Tell us the methods you use to hunt wildlife
- O How do you transport wildlife from hunting to the market?
- How do you hide wildlife from local communities and law enforcement agencies wile transporting?
- What are the common financial transection methods you use for wildlife trade?
- Which season do you hunt most wildfire and why?
- Have you faced any challenges by law enforcement agencies while hunting and trading wildlife?
- Tell us about the origin of your wildlife
- What are the key opportunities/facilitators criminals use to move product? (i.e.: What are the weaknesses in the LE system?)
- Enlist some opportunities to prevent poaching preparation
- o Enlist some opportunities to prevent pooching
- Enlist some opportunities to local trade Enlist some opportunities to prevent international trade



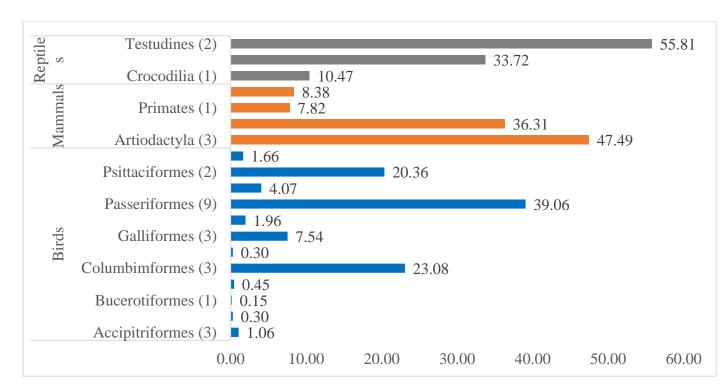
Supplementary Fig. 1 Collinearity checking among independent variables using Crammer's V.

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	ુક ⁸⁷	SOL WS	THEI TYPE	Ento	sq co.	COMM	Trai	Sitionical	'pe Ca	Triff. For	in of sale	wel Excit	u ol	_
Taxa	0.03	0.26	0.11	0.29	0.15	0.31	0.23	0.28	0.41	810	0.14	0.22		0.
Season		0.36	0.01	0.06	0.03	0.02	0.03	0.04	0.02	0.03	0.04	0.07		
Market Type			0.36	0.5Y	0.42	0.10	0.05	0.06	0.13	0.26	0.21	0.37		0.
aw Enforcement office in proximity				0.36	-0.42	-0.16	-0.10	0.03	-0.01	-0.17	0:04	-0.11		
Road communication					0.62	0.22	0.07	0.08	0.21	0.28	0.21	0.57	31	0
Port connectivity						-0.01	-0.01	-0.01	0.09	-0.11	0.06	0.63		923
Antique value of wild life							0.21	-0.12	-0.13	0.64	0.04	0.07		159
Traditional Medicine use					***			0.42	0.33	0.05	0.13	0.20		0
Can be pet									0.00	-0.27	0.14	0.22		
Can mimic human										-0.29	0.15	0.22	7,2=378	-(
Form of sale											-0.12	0.15		
Native/ Exotic												0.22	-	-0

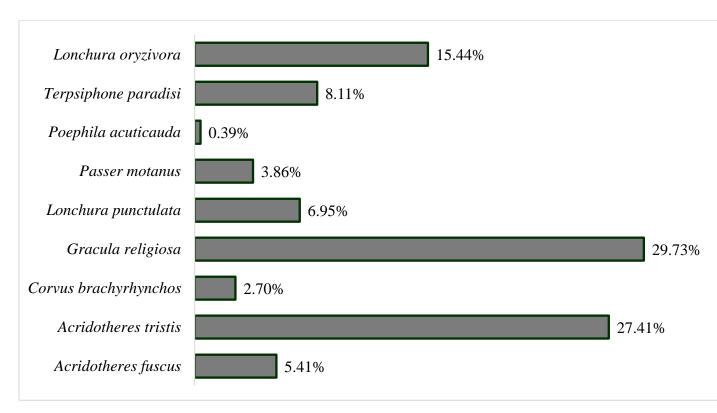
SUPPLEMENTARY FIG. 2 Collinearity checking among independent variables using Crammer's V.

SUPPLEMENTARY TABLE 2 Proportion of trade observations and number of animals/animal parts of wildlife observed across different types of markets.

Count of Taxa						
Type of market	Taxa	Total observation	Percent of observation	Total individ ual	Percen t of total	Numbe r of species
Hill market	Birds	88	13	1441	20.74	9
	Mammals	82	46	473	64	10
	Reptiles	33	38	535	8	7
Hill market Total		203		2449		26
Peri-urban Market	Birds	210	32	1470	21	18
	Mammals	55	31	170	23	7
	Reptiles	36	42	5575	83	3
Peri-urban Market Tota	al	301		7215		28
Urban Market	Birds	365	55	4037	48	22
	Mammals	42	23	96	13	9
Reptiles		17	20	639	10	2
Urban Market Total	Urban Market Total			4772		33
Grand Total		928				



SUPPLEMENTARY FIG, 3 Percentage of wildlife in trade in each class. Percentages are given at the end of the bar as the percentage of items within that order fall into each family, the number following the family name indicates the number of species in trade within that family.



SUPPLEMENTARY FIG. 4 Species composition within Passeriformes. The highest percentage of individuals traded for any taxa was *Gracula religiosa* followed by *Acridotheres tristis*.

SUPPLEMENTARY TABLE 3 Result of bivariate analysis to assess factors associated with Taxa of wildlife trading in surveyed markets. Results from Pearson's Chi-squared test.

		Class			
Variables	Categories			Reptiles n	
		Birds n (%)	Mammals n (%)	(%)	p-value
	Summer	168 (74.67)	39 (17.33)	18 (8)	
	Wet	260 (70.46)	72 (19.51)	37 (10.03)	
Season	Winter	235 (70.36)	68 (20.36)	31 (9.28)	0.790
	Hill market	85 (41.87)	85 (41.87)	33 (16.26)	
	Peri-urban]
Market Type	Market	210 (69.77)	55 (18.27)	36 (11.96)	
	Urban				
	Market	365 (86.08)	42 (9.91)	17 (4.01)	0.001
law enforcement	No	61 (65.59)	29 (31.18)	3 (3.23)	
agencies offices					
in proximity	Yes	602 (72.1)	150 (17.96)	83 (9.94)	0.002
	District				
	Connected				
	Road	124 (62.63)	51 (25.76)	23 (11.62)	
	Metro				
	connected				
	road	365 (86.08)	42 (9.91)	17 (4.01)	
	National				
Road	Highway	124 (78.48)	20 (12.66)	14 (8.86)	_
Communication	Village road	47 (31.76)	69 (46.62)	32 (21.62)	0.001
Port Connectivity	No	379 (66.26)	124 (21.68)	69 (12.06)	
	Yes	281 (78.93)	58 (16.29)	17 (4.78)	0.001

row %; P<0.10 considered significant for Pearson's Chi-squared test.

SUPPLEMENTARY TABLE 4 Results from Pearson's Chi-squared test. Variables associated with trading IUCN Threatened species. (Bivariate analysis).

		IUCN threat			
		No	Yes	p-	
Variables	Categories	n (%)	n (%)	value	
			155		
Taxa	Birds	506 (76.55)	(23.45)	0.368	
Turu	Mammals	142 (80.68)	34 (19.32)	0.000	
	Reptiles	69 (81.18)	16 (18.82)		
Season	Summer	178 (79.11)	47 (20.89)	0.802	
Season	Wet	285 (77.87)	81 (22.13)	0.002	
	Winter	254 (76.74)	77 (23.26)		
	Hill market	133 (67.51)	64 (32.49)		
Market Type	Peri-urban Market	265 (88.04)	36 (11.96)		
Warket Type	Terr droam warket	203 (00.01)	105		
	Urban Market	319 (75.24)	(24.76)	< 0.001	
	No	83 (89.25)	10 (10.75)	101001	
Law Enforcement office in	110	05 (07.25)	195		
proximity	Yes	634 (76.48)	(23.52)	0.005	
	District Connected	, ,			
	Road	140 (70.71)	58 (29.29)		
Road communication		, ,	105		
	Metro connected road	319 (75.24)	(24.76)		
	National Highway	149 (94.3)	9 (5.7)		
	Village road	109 (76.76)	33 (23.24)	< 0.001	
			140		
Port connectivity	No	426 (75.27)	(24.73)	0.021	
-	Yes	291 (81.74)	65 (18.26)		
			202		
Antique value of wild life	No	686 (77.25)	(22.75)	0.055	
	Yes	31 (91.18)	3 (8.82)		
			155		
Traditional Medicine use	No	532 (77.44)	(22.56)	0.683	
	Yes	185 (78.72)	50 (21.28)		
			155		
Can be pet	No	504 (76.48)	(23.52)	0.112	
	Yes	213 (81.3)	49 (18.7)		
			139		
Can mimic human	No	511 (78.62)	(21.38)	0.386	
	Yes	206 (76.01)	65 (23.99)		
			182		
Form of sale	Live animal	589 (76.39)	(23.61)	0.024	
	Wildlife byproduct	128 (84.77)	23 (15.23)		
	Exotic	37 (82.22)	8 (17.78)	0.45	
Native/ Exotic	NT /	600 (77 5 A)	197	0.461	
	Native	680 (77.54)	(22.46)	0.111	
Origin of wildlife	Bred	70 (71.43)	28 (28.57)	0.111	

			177	
	Wild	647 (78.52)	(21.48)	

^{*}row %, p<0.10 considered statistically significant.

Market type, law enforcement office proximity, road communication, port connectivity, antique value of wild and form of sale found significantly associated with trading IUCN threatened animal at 10% significance level.

Rates of trading IUCN threatened animals is highest in hill areas (32.49%), in close proximity to law enforcement agencies offices (23.52) where there is no port connectivity (24.73%), for those animals have no antique value (22.75%) and when sold as live (23.61%).

SUPPLEMENTARY TABLE 5 Proportion of observation of IUCN threatened species sold in different types of market.

Market Type	No	% No of	Number of	% No of		
	Observation	Observation	individuals	individuals		
Hill Market	64	47	1548	62		
Per Urban	36	26	641	26		
Market						
Urban-Market	37	27	300	12		
Total	137	100	2489	100		

SUPPLEMENTARY TABLE 6 Observed species and the number in trade in surveyed markets.

Family	Scientific name	CITES Status	IUCN Status	Native/Exotic	Price/Piece	CatIUCN	Wet	Summer	Winter	Total observation	Live	Dead (as byproduct)
Sturnidae	Acridotheres fuscus	Non CITES	LC	Native	500	Not threatened	5	2	7	14	169	0
Sturnidae	Acridotheres tristis	Non CITES	LC	Native	1000	Not threatened	26	19	26	71	524	0
Alcedinidae	Alcedo atthis	Non CITES	LC	Native	1500	Not threatened	0	2	0	2	4	0
Rallidae	Amaurornis phoenicurus	Non CITES	LC	Native	500	Not threatened	4	2	4	10	31	0
Anatidae	Anas albogularis	Non CITES	VU	Native	1000	Not threatened	1	1	0	2	5	0
Mustelidae	Aonyx cinerea	Appendix- ii	EN	Native	30000	Not threatened	1	2	2	5	17	0
Ardeidae	Ardea goliath	Non CITES	LC	Native	500	Not threatened	11	8	8	27	71	0
Hystricidae	Atherurus macrourus	Non CITES	DD	Native	2000	Not threatened	2	3	1	6	1	11
Cervidae	Axis axis	Non CITES	LC	Native	20000	Not threatened	16	10	17	43	10	361
Geoemydidae	Batagur kachuga	Appendix- ii	EN	Native	100	Not threatened	24	8	16	48	0	3
Bucerotidae	Buceros bicornis	Appendix- I	VU	Native	25000	Not threatened	0	1	0	1	0	17
Elapidae	Bungarus caeruleus	Non CITES	LC	Native	5000	Not threatened	0	1	0	1	1	0
Cacatuidae	Cacatua galerita	Appendix-	CR	Exotic	75000	Not threatened	1	1	4	6	11	0
Sciuridae	Callosciurus erythraeus	Non CITES	LC	Native	500	Not threatened	3	3	3	9	66	0
Corvidae	Corvus brachyrhynchos	Non CITES	N/A	Native	1000	Not threatened	3	1	3	7	13	0
Crocodylidae	Crocodylus porosus	Appendix- ii	EN	Native	500000	Not threatened	3	2	4	9	17	0
Accipitridae	Erythrotriorchis buergersi	Appendix- ii	EN	Native	20000	Not threatened	1	0	2	3	11	0
Phasianidae	Gallus gallus	Appendix- ii	LC	Native	1500	Not threatened	7	6	10	23	241	0
Gekkonidae	Gecko gekko	Appendix- ii	LC	Native	500000	Not threatened	3	0	5	8	66	30

Columbidae	Geopelia cuneata	Non CITES	LC	Native	300	Not threatened	14	5	9	28	412	0
Columbidae	Geopelia placida	Non CITES	LC	Native	500	Not threatened	19	8	11	38	1630	0
Sturnidae	Gracula religiosa	Appendix- ii	LC	Native	15000	Not threatened	29	19	29	77	559	0
Ursidae	Helarctos malayanus	Appendix-	CR	Native	200000	Threatened	0	0	1	1	0	3
Herpestidae	Herpestes auropunctatus	Appendix- III	LC	Native	5000	Not threatened	13	5	9	27	57	0
Accipitridae	Ichthyophaga ichthyaetus	Appendix- ii	LC	Native	10000	Threatened	0	1	0	1	10	0
Ciconiidae	Leptoptilos javanicus	Non CITES	VU	Native	5000	Not threatened	2	1	0	3	3	0
Estrildidae	Lonchura oryzivora	Appendix- ii	EN	Native	400	Threatened	19	10	11	40	514	0
Estrildidae	Lonchura punctulata	Non CITES	LC	Native	1000	Not threatened	9	3	6	18	143	0
Phasianidae	Lophura leucomelanos	Appendix- iii	VU	Native	2000	Not threatened	2	0	1	3	10	0
Cercopithecidae	Macaca mulatta	Non CITES	VU	Native	2000	Not threatened	7	1	6	14	23	2
Moschidae	Moschus leucogaster	Appendix-	EN	Native	200000	Not threatened	4	2	5	11	0	22
Elapidae	Naja naja	Appendix- ii	NT	Native	12000	Not threatened	0	1	1	2	2	0
Felidae	Neofelis nebulosa	Appendix-	CR	Native	1000000	Not threatened	0	1	0	1	1	0
Accipitridae	Nisaetus cirrhatus	Non CITES	LC	Native	30000	Not threatened	0	1	2	3	3	0
Felidae	Panthera pardus	Appendix-	CR	Native	1000000	Not threatened	3	0	0	3	0	5
Felidae	Panthera tigris	Appendix-	CR	Native	2000000	Not threatened	4	2	4	10	0	10
Viverridae	Paradoxurus hermaphroditus	Appendix- iii	LC	Native	2000	Not threatened	0	2	3	5	5	0
Passeridae	Passer motanus	Non CITES	LC	Native	200	Threatened	3	2	5	10	28	0
Estrildidae	Poephila acuticauda	Non CITES	N/A	Native	500	Not threatened	1	0	0	1	2	0
Phasianidae	Polyplectron bicalcaratum	Appendix- ii	VU	Native	40000	Threatened	10	8	6	24	106	144

Rallidae	Porphyrio porphyrio	Non CITES	LC	Native	1000	Not threatened	1	0	2	3	6	0
Felidae	Prionailurus viverrinus	Non CITES	EN	Native	25000	Not threatened	0	0	1	1	1	0
Psittaculidae	Psittacula krameri	Appendix- ii	LC	Native	2500	Not threatened	50	32	47	129	2134	0
Pythonidae	Python bivittatus	Appendix- ii	VU	Native	5000	Not threatened	3	2	2	7	5	10
Columbidae	Spilopelia chinensis	Non CITES	LC	Native	2000	Not threatened	36	25	26	87	922	0
Suidae	Sus scrofa	Non CITES	LC	Native	10000	Not threatened	14	5	12	31	2	115
Monarchidae	Terpsiphone paradisi	Non CITES	LC	Native	3000	Not threatened	3	7	11	21	89	0
Tytonidae	Tyto alba	Appendix- ii	LC	Native	3000	Not threatened	3	3	5	11	15	0
Varanidae	Varanus bengalensis	Appendix- I	NT	Native	5000	Threatened	4	4	3	11	314	32
Canidae	Vulpes bengalensis	Appendix- iii	VU	Native	10000	Not threatened	5	3	4	12	2	19