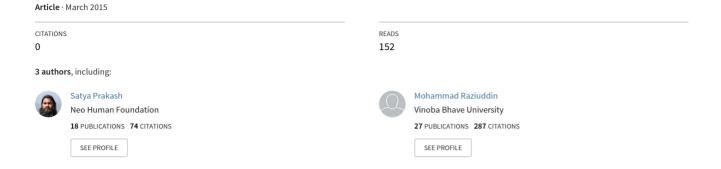
Report on Asian Waterbird Census (AWC 2015), Jharkhand. ENVIS Jharkhand News, Issue No. 12, Feb-Mar: 2015, Department of Forest and Environment, Jharkhand. Pp. 7-12





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Preface

verything comes from biodiversity but issues arise threatening this vital part of nature. Threats on endangered species, receding wetlands, denuded forest trees and other harmful effects of human activities are just some of these many issues.

Keeping this in mind, in simple and lucid manner this newsletter brings to the readers valuable information on Birds census in major wetland of Jharkhand, Ancient trees, Gurmar; A RET species conservation, Ethnobotany of Kadam tree, Different success stories of plantation, Workshop on climate change and Plant rituals and mythology of Jharkhand is also included.

I hope that the newsletter will be immense theoretical / practical significance to researchers / forest officials and others by serving a guide for biodiversity, conservation of biological diversity by subsequent reduction of pressure on natural forest.

In future many research activities / information issue will be published and compiled by this centre.

Dinesh Kumar, IFS

C.F. Plantation Research & Evaluation -cum-Envis Coordinator Jharkhand, Ranchi







Contents

Scope of Economic upliftment through Sisal Plantation in Jharkhand	2
Anthocephalus Chinensis (Kadamb) a Fast Growing Multipurpose Tree	4
Medicinal Uses by Traditional Knowledge	
Report on Asian Waterbird Census (AWC 2015), Jharkhand	7
Conservation of Gymnema Sylvestre (Gurmar) through Shoot Cutting : A	13
RET Species of Jharkhand	
Ancient Medicinal Trees of Jharkhand	14
Consultative Workshop on Market Transformation and Removal of Barriers	17
for Effective Implementation of the State Level Climate Change Action Plan	
Awareness and Training Programme for Villagers and Students of	19
Jharkhand	
BOOK REVIEW	20









Report on Asian Waterbird Census (AWC 2015), Jharkhand

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Introduction

The Asian Waterbird Census (AWC) forms a part of the International Waterbird Census (IWC), a global programme coordinated by Wetlands International since 1967. In India it is coordinated by Bombay Natural History Society (BNHS). The AWC 2015 in Jharkhand was conducted on large scale with the support of bird watchers, ornithologists, IBCN members, BNHS members, IBCN and AWC State Coordinators (Jharkhand and Bihar), from Delhi, Mumbai, Jharkhand and Bihar and with the support of Forest and Environment Department, Govt. of Jharkhand.

The avifauna of India includes around 1313 species of birds (Grimmett et al., 2011). India has a total of 310 wetland species of birds of which 130 species are migrants and 173 residents while the status of seven species is not known (Kumar et al., 2006). This census was undertaken to identify the wetland species of birds and their estimated numbers in Jharkhand at the selected wetlands.

Study Site and Methodology

The census was conducted as per guidelines of AWC, Wetlands International. Asian Waterbird Census 2015 was conducted in twenty five selected water bodies in different districts of Jharkhand (Table-1, Graph-1). The census was conducted from 22nd January to 11th February 2015. Both small and large water bodies were selected for the census. Among these, eleven water bodies were major wetlands according to National Wetland Atlas: Jharkhand (2010) and the rest were selected randomly for census. Among these IBA (Important Birds Areas) sites of Jharkhand, Wildlife Sanctuaries and the sole National Park (Betla) of Jharkhand were also selected for census.

The census of birds was done by 'direct sighting method' and species were identified with the help of guides (Ali and Ripley 1987, Manakadan et al 2011; Grimmett et al., 1999; 2011; Ali, 2002). Counting of waterbirds was made following the method of Javed and Kaul (2002). Most of the observations were made during day time in the morning from 6.30 hrs. to 17.00 hrs in the evening. Listing of birds was done as per the checklist provided by Kumar et al., (2003). Residential status of the birds has been described as per Ali (2002). The status of Threatened birds was identified as per IUCN Red list and Schedule birds were from The Wildlife (Protection)

Act 1972. The checklist was prepared using common English and scientific names, their residential status, IUCN status, The Wildlife (Protection) Act, 1972 status and their counts.

Results and Discussion

During the survey a total of 78 species of wetland bird species (Table 4) were recorded belonging to 19 families. Out of these 62 were water birds and 16 were wetland dependent birds. Out of 78 species, 26 species were resident birds while 23 were resident migrants and the rest 29 were migratory birds (Table-3). During the census an estimated total of 71,170 birds were observed .Among these 37168 were migratory birds (Table-3).

The maximum number of species of birds was sighted at Udhuwa Lake Bird Sanctuary (51) followed by Tilaya Dam (43), Masanjore (39), Garga Dam (29) and the minimum number was seen at Tapkara Dam (9).

Maximum total count of different wetland bird species was observed at Masanjore Dam (9564) followed by Chandil Dam (7896) and Udhuwa Lake Bird Sanctuary (7823) and the least was observed at Tapkara Dam (57). The details of other water bodies are provided in Table 1.

The highest count of bird species observed was Lesser Whistling-Duck (12809) which were observed in maximum number at Tenughat Dam (5000) followed by Red-crested Pochard (10370) observed in maximum number at Tilaya Dam (2500) and Patratu Dam (2500); Common Coot (8985) seen in maximum number at Tilaya Dam (2500) and Chandil Dam (2500); Bar-headed Goose (7008) found maximum at Khandoli Dam (2000) and Patratu Dam (1500); Tufted Duck (5559) seen maximum at Masanjore Dam (3000) followed by Chandil Dam (1000) and Konar Dam (500); Northern Pintail (2776) seen in maximum at Hatia (1200) followed by Maithon Dam (600) and Northern Shoveller (1748) seen maximum at Getalshud Dam (1500). The details of other species are provided in Table-4.

It was interesting to note that a single White-capped Redstart (*Chaimarrornis leucocephalus*) that is resident and also breeds in Himalayas and North East Indian Hills, winters south to Baluchistan and Bangladesh was sighted at Masanjore Dam (Dumka).





Sighting of Tagged Bar-headed Goose

During the survey at Konar Dam (Hazaribag) and Hatia Dam (Ranchi), a green collared tagged Bar-headed Goose was sighted. It is interesting to report that the bird was photographed and the green collar contained the code F 40. Similarly, another green collared tagged Bar-headed Goose was also sighted at Hatia Dam but unfortunately we were unable to take good photograph of it. However the collar bore a code that started with letter K. The details of the collared bird species were sent to Bombay Natural History Society (BNHS) for getting information of tagged Bar headed Goose observed in Jharkhand. Subsequently the BNHS and Head, Laboratory of Ornithology, Institute of Biology, MAS, Wildlife Science and conservation Center, Mongolia confirmed that the tagging was done in Mongolia. Further the Bar-headed Goose with the code F40, sighted at Konar Dam was tagged on 15 July 2013 at the Northwest bay of the Terkhiin Tsagaan Lake in province Arkhangai of the Central Mongolia (capture location N 48.161426, E 99.596579) and the other bird from Hatia Dam with code-K was also tagged in Mongolia. These information ascertain that the migratory Bar-headed Goose come from Mongolia in Jharkhand.



Threatened Bird Species

Eleven threatened bird species were recorded at different places in Jharkhand during the census. Among these Darter (Anhinga melanogaster), Oriental White Ibis (Threskiornis melanocephalus), Ferruginous Pochard (Aythya nyroca), Eurasian Curlew (Numenius arquata), River Tern (Sterna aurantia) were near threatened (NT); White-necked Stork (Ciconia episcopus), Lesser Adjutant-Stork (Leptoptilos javanicus) were Vulnerable (Vu) and Black-bellied Tern (Sterna acuticauda) was endangered (EN) as per IUCN Red list. The other three species, Western Marsh Harrier (Circus aeruginosus), Osprey

(*Pandion haliaetus*) and Fulvous/Large Whistling Duck (*Dendrocygna bicolor*) were listed as Schedule I as per The Wildlife (Protection) Act, 1972 (Table - 2).



Resident birds, Lesser Adjutant (Vu) and Darter (NT) were recorded only at Udhuwa Lake Bird Sanctuary. White-necked Stork (Vu) also a resident species was recorded at Tilaya Dam, Udhuwa Lake Bird Sanctuary, Tenugaht Dam and Malay Dam (Latehar). Oriental White Ibis (NT) was sighted at Tilaya Dam, Udhuwa Lake Bird Sanctuary (maximum number 800), Khandoli Dam (Giridih), Sitarampur Dam (Saraikela) and Malay Dam.



Acknowledgements

We are greatly indebted to PCCF-cum-Chief Wildlife Warden, Jharkhand, Shri B.C.Nigam for taking initiative to carry out AWC 2015 in Jharkhand successfully. We are highly thankful to Arvind Mishra, Mridula Sapru, Prabhat Thakur, Kevin Paul, Murari Singh, Indrajeet Samanta, Amit Sinha, Dinesh Kumar, Conservator of forest, Plantation Research and Evaluation, Ranchi and all Divisional Forest Officers, Forest and Environment Department, Jharkhand of different divisions for their support and encouragement during the census. Special thanks are due to the Range







Forest Officers of different divisions for their valuable help in making necessary arrangements during the survey. We are also thankful to the team members, volunteers, forest staff and local personals who unconditionally supported the census.

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Table 1: Study (Census) Sites

		lable 1: Study (Census) Sites		
Sl. No.	Study Site	Status (Sanctuary, IBA)	District	Total Censes of Birds
1	Lotwa Dam	Hazaribag Wildlife Sanctuary/IBA	Hazaribag	348
2	Tilaya Dam*	IBA	Koderma	6460
3	Udhuwa Lake Bird Sanctuary*	Udhuwa Lake Bird Sanctuary/IBA	Sahibganj	7823
4	Hatia Dam*		Ranchi	2598
5	Getalshud Dam*		Ranchi	2737
6	Patratu Dam		Ramgarh	5821
7	Kanke Dam		Ranchi	1575
8	Khandoli Dam		Giridih	3028
9	Topchanchi Jheel	Topchanchi Wildlife Sanctuary/IBA	Dhanbad	604
10	Panchet Dam*		Dhanbad	2765
11	Maithon Dam*	IBA	Dhanbad	1518
12	Masanjore Dam*		Dumka	9564
13	Garga Dam		Bokaro	700
14	Tenughat Dam*		Bokaro	5264
15	Konar Dam*		Hazaribag	4665
16	Bodha Dam		Hazaribag	149
17	Chharwa Dam		Hazaribag	2260
18	Gonda Dam		Hazaribag	561
19	Chandil Dam		Seraikela	7896
20	Dimna Lake	Dalma Wildlife Sanctuary/IBA	Jamshedpur	929
21	Sitarampur Dam		Sarikela	770
22	Kansjore Dam*		Simdega	223
23	Tapkara Dam	Palkot Wildlife Sanctuary	Palkot	57
24	Malay Dam*		Latehar	2707
25	Kamaldah Lake	Palamau Tiger Reserve / IBA	Palamau	112
			Total :	71170

Abbreviation:-

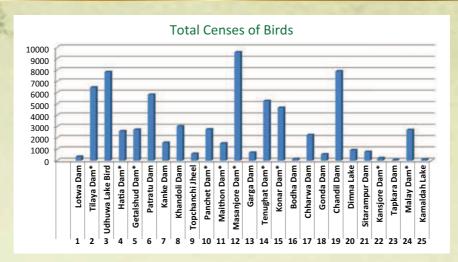
* Major wetlands of Jharkhand according to National Wetland Atlas: Jharkhand (2010)

IBA - Important Bird Areas

We select 25 study sites out of which 11 sites are major wetlands of Jharkhand according to National Wetland Atlas Jharkhand, 2010. (Graph-1)







Graph-1: Showing Site wise bird censes in Jharkhand

Table 2: Threatened Birds Sighted during Asian Waterbird Census (AWC) Jharkhand - 2015

Sl. No.	Common Name	Scientific Name	Habitat	Residential Status	WPA 1972	IUCN Status	Total Count
1	Darter	Anhinga melanogaster	WB	RM	IV	NT	1
2	White-necked Stork	Ciconia episcopus	WB	R	IV	Vu	10
3	Lesser Adjutant-Stork	Leptoptilos javanicus	WB	RM	IV	Vu	5
4	Oriental White Ibis	Threskiornis melanocephalus	WB	R	IV	NT	818
5	Fulvous Whistling Duck	Dendrocygna bicolor	WB	RM	1	LC	250
6	Ferruginous Pochard	Aythya nyroca	WB	М	IV	NT	1
7	Western Marsh Harrier	Circus aeruginosus	WDB	М	- 1	LC	2
8	Osprey	Pandion haliaetus	WDB	М	- 1	LC	2
9	Eurasian Curlew	Numenius arquata	WB	М	IV	NT	1
10	River Tern	Sterna aurantia	WB	R	IV	NT	11
11	Black-bellied Tern	Sterna acuticauda	WB	R	IV	EN	7

Table 3: Migratory Birds Sighted during the AWC Jharkhand 2015

Sl. No.	Common Name	Scientific Name	Habitat	Residential Status	WPA 1972	IUCN Status	Total count
1	Great Crested Grebe	Podiceps cristatus	WB	М	IV	LC	975
2	Great Cormorant	Phalacocorax carbo	WB	М	IV	LC	276
3	Gadwall	Anas strepera	WB	М	IV	LC	4786
4	Northern Shoveller	Anas clypeata	WB	М	IV	LC	1748
5	Bar-headed Goose	Anser indicus	WB	М	IV	LC	7008
6	Red-crested Pochard	Rhodonessa rufina	WB	М	IV	LC	10370
7	Ferruginous Pochard	Aythya nyroca	WB	М	IV	NT	1
8	Common Pochard	Aythya ferina	WB	М	IV	LC	1560
9	Northern Pintail	Anas acuta	WB	М	IV	LC	2776
10	Tufted Duck	Aythya fuligula	WB	М	IV	LC	5549
11	Brahminy Shelduck	Tadorna ferruginea	WB	М	IV	LC	451
12	Eurasian Wigeon	Anas penelope	WB	М	IV	LC	145
13	Common Teal	Anas crecca	WB	М	IV	LC	89
14	Mallard	Anas platyrhynchos	WB	М	IV	LC	2
15	Common Merganger	Mergus merganser	WB	М	IV	LC	4
16	Western Marsh Harrier	Circus aeruginosus	WDB	М	I	LC	2





Sl. No.	Common Name	Scientific Name	Habitat	Residential Status	WPA 1972	IUCN Status	Total count
17	Osprey	Pandion haliaetus	WDB	М	1	LC	2
18	Grey-headed Lapwing	Vanellus cinereus	WB	М	IV	LC	300
19	Green Sandpiper	Tringa ochropus	WB	М	IV	LC	4
20	Wood Sandpiper	Tringa glareola	WB	М	IV	LC	273
21	Little Stint	Calidris minuta	WB	М	IV	LC	20
22	Temminck's Stint	Calidris temminckii	WB	М	IV	LC	101
23	Eurasian Curlew	Numenius arquata	WB	М	IV	NT	1
24	Common Greenshank	Tringa nebularia	WB	М	IV	LC	7
25	Black-headed Gull	Larus ridibundus	WB	М	IV	LC	687
26	Pallas's Gull	Larus ichthyaetus	WB	М	IV	LC	1
27	Grey Wagtail	Motacilla cinerea	WDB	М	IV	LC	14
28	Rosy Pipit	Anthus roseatus	WDB	М	IV	LC	15
29	White-capped Redstart	Chaimarrornis leucocephalus	WDB	R/M	IV	LC	1
						TOTAL:	37168

Table: 4 Total Bird Species Diversity in All 25 Study Sites at Jharkhand

	lable : 4 lotal Bird Species Diversi	ty in All 25 Study Sites at Jharkhand	
Sl. No.	Common Name	Scientific Name	Total
1	Little Grebe	Tachybaptus ruficollis	1167
2	Great Crested Grebe	Podiceps cristatus	1085
3	Little Cormorant	Phalacrocorax niger	1685
4	Great Cormorant	Phalacocorax carbo	276
5	Indian Shag/Cormorant	Phalacrocorax fuscicollis	468
6	Darter	Anhinga melanogaster	1
7	Little Egret	Egretta garzetta	848
8	Grey Heron	Ardea cinerea	17
9	Purple Heron	Ardea purpurea	13
10	Large Egret	Casmerodius albus	224
11	Median Egret	Mesophoyx intermedia	453
12	Cattle Egret	Bubulcus ibis	714
13	Indian Pond Heron	Ardeola grayii	574
14	Little Green Heron	Butorides striatus	1
15	Black-crowned Night-Heron	Nycticorax nycticorax	2
16	Chestnut Bittern	Lxobrychus cinnamomeus	1
17	Asian Openbill-Stork	Anastomus oscitans	1803
18	White-necked Stork	Ciconia episcopus	10
19	Lesser Adjutant-Stork	Leptoptilos javanicus	5
20	Oriental White Ibis	Threskiornis melanocephalus	818
21	Black Ibis	Pseudibis papillosa	91
22	Lesser Whistling-Duck	Dendrocygna javanica	12809
23	Fulvous Whistling Duck	Dendrocygna bicolor	250
24	Cotton Teal	Nettapus coromandelianus	260
25	Gadwall	Anas strepera	4786
26	Northern Shoveller	Anas clypeata	1748
27	Bar-headed Goose	Anser indicus	7008
28	Red-crested Pochard	Rhodonessa rufina	10370
29	Ferruginous Pochard	Aythya nyroca	1
30	Common Pochard	Aythya ferina	1560





31 Northern Pintail 32 Tufted Duck Aythya fuligula 33 Brahminy Shelduck Aythya fuligula 34 Eurasian Wigeon Anas penelope 35 Common Teal Anas crecca 36 Comb Duck Sarkidiomis melanotos 37 Mallard Anas platythynchos 38 Common Merganger Anas platythynchos 39 Western Marsh Harrier Circus aeruginosus 40 Osprey Pandion haliaetus 41 Common Moorhen Gallinula chloropus 42 Purple Moorhen 43 Common Coot Fulica atra 44 White-breasted Waterhen 45 Pheasant-tailed Jacana 46 Bronze-winged Jacana 47 Grey-headed Lapwing 48 Red-wattled lapwing 49 Yellow-westled Lapwing 50 Little Ringed Plover Charadrius dubius 51 Common Sandpiper 52 Green Sandpiper 53 Wood Sandpiper 54 Common Sandpiper 55 Little Stint Callidris terminickii 56 Temminck's Stint Callidris terminickii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tinga nebularia 59 Black-winged Still Larus ridibundus 60 Bronze-manda 61 Larus ridibundus 62 Pallas's Gull Larus ridibundus 64 Larus ridibundus 65 Small Blue Kingfisher 66 White-breasted Kingfisher 67 Lesser Pied Kingfisher 68 Common Smallow 69 Wire-tailed Stall 60 Motacilla alba 60 Motacilla indicus 61 Larus ridibundus 62 Pallas's Gull Carron Smallow 64 Hirundo rustica 65 Small Blue Kingfisher 66 Mithe-breasted Kingfisher 67 Lesser Pied Kingfisher 68 Common Swallow 69 Wire-tailed Swallow 60 Hirundo daurica 60 Wite-tailed Swallow 61 Hirundo daurica 61 Motacilla indicae 62 Citrine Wagtail 63 Motacilla indicae 64 Auther acute was the fundo daurica 65 Large Pied Wagtail 66 Motacilla indicae 67 Motacilla indicae 68 Common Swallow 69 Hirundo daurica 60 Motacilla indicae 60 Motacilla indicae 61 Auther Swallow 61 Motacilla indicae 62 Larus ridibundus 63 River Tern 64 Larus ridibundus 65 Large Pied Wagtail 66 Motacilla indicae 67 Motacilla indicae 68 Common Swallow 69 Wire-tailed Swallow 60 Hirundo rustica 60 Motacilla indicae	Total	Scientific Name	Common Name	Sl. No.
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35 Common Teal Anas crecca 36 Comb Duck Sarkidiornis melanotos 37 Mallard Anas platyrhynchos 38 Common Merganger Mergus merganser 39 Western Marsh Harrier Circus aeruginosus 40 Osprey Pandion haliaetus 41 Common Moorhen Gallinula chloropus 42 Purple Moorhen Porphyrio porphyrio 43 Common Coot Fulica atra 44 White-breasted Waterhen Amaurornis phoenicurus 45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopicilus indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus indicus 49 Yellow-wattled Lapwing Vanellus indicus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa glareola 53 Wood Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris temminckii 56 Terminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus richtyaetus 61 Black-headed Gull Larus richtyaetus 62 Pallas's Gull 63 River Tern Sterna acuricauda 64 Black-bellied Tern Sterna acuricauda 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo rustica 71 White Wagtail Motacilla flava 72 Citrine Wagtail Motacilla alba 73 Yellow Wagtail Motacilla maderaspatensis 74 Chaimarrornis leucocephalus	145		•	
36 Comb Duck 37 Mallard 38 Common Merganger 38 Common Merganger 39 Western Marsh Harrier 40 Osprey 41 Common Moorhen 42 Purple Moorhen 43 Common Coot 44 White-breasted Waterhen 45 Pheasant-tailed Jacana 46 Bronze-winged Jacana 47 Grey-headed Lapwing 48 Red-wattled lapwing 49 Yellow-wattled Lapwing 49 Yellow-wattled Lapwing 50 Little Ringed Plover 51 Common Snipe 52 Green Sandpiper 53 Wood Sandpiper 54 Common Sandpiper 55 Little Stint 56 Temminck's Stint 57 Eurasian Curlew 58 Common Greenshank 59 Black-winged Stilt 60 Bronze-winged Stilt 61 Black-headed Gull 61 Black-headed Gull 62 Pallas's Gull 63 River Tern 64 White-breasted Kingfisher 64 White-breasted Waterle 65 Large Pied Wagstall 66 White-breasted Kingfisher 67 Lersa Pied Wagstall 67 Lersa Pied Wagstall 68 Common Strope 69 Wire-tailed Stint 60 Brown-headed Gull 61 Larus ridibundus 61 Larus ridibundus 62 Pallas's Gull 63 River Tern 64 Black-bellied Tern 65 Small Blue Kingfisher 66 White-breasted Kingfisher 77 Lersa Pied Wagstall 78 Motacilla alba 79 Vellow-wastall 79 Winte-capped Redstart 70 Motacilla cinerea 71 White Wagstall 71 Motacilla cinerea 72 Large Pied Wagstall 73 Motacilla flava 74 Grey Wagstall 75 Large Pied Wagstall 76 Motacilla cinerea 77 White-capped Redstart 77 White-capped Redstart 77 White-capped Redstart 77 White-capped Redstart 77 Chimmons Larus Chairmans Larus Ch	89			
37 Mallard Anas platyrhynchos 38 Common Merganger Mergus merganser 39 Western Marsh Harrier Circus aeruginosus 40 Osprey Pandion haliaetus 41 Common Moorhen Gallinula chloropus 42 Purple Moorhen Porphyrio porphyrio 43 Common Coot Fulica atra 44 White-breasted Waterhen Amaurornis phoenicurus 45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus cinereus 49 Yellow-wattled Lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tiringa ochropus 53 Wood Sandpiper Tringa ochropus 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris iminuta 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tiringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus ichthyaetus 61 Black-headed Gull Larus ichthyaetus 62 Pallas's Gull Larus ichthyaetus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna aurantia 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Alcedo atthis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo rustica 71 White Wagtail Motacilla cinerea 72 Citrine Wagtail Motacilla alba 73 Yellow Wagtail Motacilla increea 74 White-capped Redstart Chaimarornis leucocephalus	4			
38 Common Merganger Mergus merganser 39 Western Marsh Harrier Circus aeruginosus 40 Osprey Pandion haliaetus 41 Common Moorhen Gallinula chloropus 42 Purple Moorhen Porphyrio porphyrio 43 Common Coot Fulica atra 44 White-breasted Waterhen Amaurornis phoenicurus 45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus indicus 49 Yellow-wattled Lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa glareola 53 Wood Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris minuta 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus brunnicephalus 62 Palla's Gull Larus brunnicephalus 63 River Tern Sterna acuticauda 64 Black-bellied Tern Sterna acuticauda 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Ceryle rudis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 79 Wire-tailed Swallow Hirundo daurica 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla fava 73 Yellow Wagtail Motacilla maderaspatensis 74 Grey Wagtail Motacilla maderaspatensis 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Antus roseatus	2			
39 Western Marsh Harrier Circus aeruginosus 40 Osprey Pandion haliaetus 41 Common Moorhen Gallinula chloropus 42 Purple Moorhen Porphyrio porphyrio 43 Common Coot Fulica atra 44 White-breasted Waterhen Amaurornis phoenicurus 45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus indicus 49 Yellow-wattled Lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temmincki's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus inthyaetus 62 Pallas's Gull Larus inthyaetus 63 River Tern Sterna acuticauda 64 Black-bellied Tern Sterna acuticauda 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 70 Weite-dayaled Swallow Hirundo smithii 71 White Wagtail Motacilla citreola 72 Citrine Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla maderaspatensis 74 Crey Pugtatlar Motacilla maderaspatensis 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Antus roseatus	4			
40 Osprey Pandion haliaetus 41 Common Moorhen Gallinula chloropus 42 Purple Moorhen Porphyrio porphyrio 43 Common Coot Fulica atra 44 White-breasted Waterhen Amauromis phoenicurus 45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Terminick's Stint Calidris terminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus irdibundus 62 Pallas's Gull Larus ridibundus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna aurantia 65 Semal Blue Kingfisher Alcedo atthis 66 Carly Furnice Swallow Hirundo rustica 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo smithii 79 Red-rumped Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo smithii 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla alba 73 Yellow Wagtail Motacilla maderaspatensis 74 White-capped Redstart Chaimarrornis leucocephalus	2	•		
41 Common Moorhen Porphyrio porphyrio 42 Purple Moorhen Porphyrio porphyrio 43 Common Coot Fulica atra 44 White-breasted Waterhen Amaurornis phoenicurus 45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus mialabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Tringa olareola 54 Common Sndpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ichthyaetus 63 River Tern Sterna acurticauda 64 Black-bellied Tern Sterna acurticauda 65 Miter Dreasted Kingfisher Alcedo atthis 66 White-breasted Kingfisher Alcedo atthis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo smithii 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo smithii 71 White Wagtail Motacilla alba 72 Grey Wagtail Motacilla flava 73 Yellow Wagtail Motacilla inaderaspatensis 74 Chaimarrornis leucocephalus 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Antus roseatus	2			
42 Purple Moorhen Porphyrio porphyrio 43 Common Coot Fulica atra 44 White-breasted Waterhen Amaurornis phoenicurus 45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled Lapwing Vanellus indicus 49 Yellow-wattled Lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris minuta 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus irdibundus 62 Pallas's Gull Larus irdibundus 63 River Tern Sterna acurticauda 64 Black-bellied Tern Sterna aurantia 65 Small Blue Kingfisher Halcyon smyrnensis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Halcyon smyrnensis 68 Common Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo smithii 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla flava 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla maderaspatensis 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Antus roseatus	162			
43 Common Coot 44 White-breasted Waterhen 45 Pheasant-tailed Jacana 46 Bronze-winged Jacana 47 Grey-headed Lapwing 48 Red-wattled lapwing 49 Yellow-wattled Lapwing 50 Little Ringed Plover 51 Common Snipe 52 Green Sandpiper 53 Wood Sandpiper 54 Lomon Sandpiper 55 Little Stint 56 Terminick's Stint 57 Eurasian Curlew 58 Common Greenshank 59 Black-winged Stilt 61 Black-headed Gull 62 Pallas's Gull 63 River Tern 64 Black-bellied Tern 65 Small Blue Kingfisher 66 White-breasted Kingfisher 67 Lesser Pied Kingfisher 68 Common Swallow 69 Wire-tailed Swallow 74 White-capped Redstart 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 76 Rosy Pipit 77 White-capped Redstart 77 White-capped Redstart 76 Marellus marous ware sure and subcoccephalus 77 White-capped Redstart 76 Rosy Pipit 77 White-capped Redstart 78 Large rice ware remeasure ware remained ware remained whose remained ware remained whotacilla and remarcing leucocephalus 77 White-capped Redstart 78 Chaimarrornis leucocephalus	604	·		
44 White-breasted Waterhen Amaurornis phoenicurus 45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus indicus 49 Yellow-wattled Lapwing Vanellus indicus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ichthyaetus 62 Pallas's Gull Larus ichthyaetus 63 River Tern	8985			
45 Pheasant-tailed Jacana Hydrophasianus chirurgus 46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Tringa ochropus 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ichthyaetus 62 Pallas's Gull Larus ichthyaetus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna aurantia 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo daurica 71 White Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla citreola 74 Grey Wagtail Motacilla inerea 75 Large Pied Wagtail Motacilla inerea 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarornis leucocephalus	6			
46 Bronze-winged Jacana Metopidius indicus 47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus indicus 49 Yellow-wattled Lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Actitis hypoleucos 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris minuta 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ichthyaetus 62 Pallas's Gull Larus ichthyaetus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna aurantia 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Ceryle rudis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo smithii 71 White Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla citreola 74 Grey Wagtail Motacilla inerea 75 Large Pied Wagtail Motacilla inerea 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	300			
47 Grey-headed Lapwing Vanellus cinereus 48 Red-wattled lapwing Vanellus indicus 49 Yellow-wattled Lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Actitis hypoleucos 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus idibundus 61 Black-headed Gull Larus ridibundus 62 Pallas's Gull Larus ridibundus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna aurantia 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Alcedo atthis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo daurica 71 White Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla citreola 74 Grey Wagtail Motacilla citerea 75 Large Pied Wagtail Motacilla inaderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	138			
48 Red-wattled lapwing Vanellus indicus 49 Yellow-wattled Lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris minuta 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus irdibundus 62 Pallas's Gull Larus irdibundus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna aurantia 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo smithii 71 White Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla citerea 75 Large Pied Wagtail Motacilla inaderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	300			
49 Yellow-wattled Lapwing Vanellus malabaricus 50 Little Ringed Plover Charadrius dubius 51 Common Snipe Gallinago gallinago 52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Actitis hypoleucos 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ichthyaetus 62 Pallas's Gull Larus ichthyaetus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna auruntia 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo smithii 71 White Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla citreola 74 Grey Wagtail Motacilla maderaspatensis 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	115			
50 Little Ringed Plover 51 Common Snipe 52 Green Sandpiper 53 Wood Sandpiper 54 Common Sandpiper 55 Little Stint 56 Temminck's Stint 57 Eurasian Curlew 58 Rown-headed Gull 59 Black-winged Stilt 50 Black-beaded Gull 51 Larus ichthyaetus 52 River Tern 53 River Tern 54 Common Sandpiper 55 Little Stint 56 Temminck's Stint 57 Eurasian Curlew 58 Common Greenshank 59 Black-winged Stilt 59 Black-winged Stilt 59 Black-winged Stilt 50 Black-headed Gull 51 Larus ridibundus 52 Pallas's Gull 53 River Tern 54 Black-bellied Tern 55 Sterna aurantia 56 Small Blue Kingfisher 57 Lesser Pied Kingfisher 58 Common Swallow 59 Hirundo rustica 50 Halcyon smyrnensis 50 Hirundo rustica 51 Lesser Pied Kingfisher 52 Lesser Pied Kingfisher 53 Common Swallow 54 Hirundo daurica 55 Mirundo daurica 56 White-breasted Smallow 57 Lesser Pied Kingfisher 58 Common Swallow 59 Hirundo daurica 50 Motacilla alba 51 Motacilla flava 52 Citrine Wagtail 53 Motacilla flava 54 Grey Wagtail 55 Motacilla maderaspatensis 56 Rosy Pipit 56 Anthus roseatus 57 Myhite-capped Redstart 57 Myhite-capped Redstart 58 Chaimarrornis leucocephalus	3			
51 Common Snipe 52 Green Sandpiper 53 Wood Sandpiper 54 Common Sandpiper 55 Little Stint 56 Temminck's Stint 57 Eurasian Curlew 58 Common Greenshank 59 Black-winged Stilt 50 Brown-headed Gull 51 Larus ridibundus 52 Pallas's Gull 53 River Tern 54 Black-bellied Tern 55 Small Blue Kingfisher 56 Common Swallow 57 Eurasian Curlew 58 Common Greenshank 59 Black-winged Stilt 59 Black-winged Stilt 50 Brown-headed Gull 51 Larus brunnicephalus 52 Pallas's Gull 53 River Tern 54 Black-bellied Tern 55 Sterna aurantia 56 Small Blue Kingfisher 56 Alcedo atthis 57 Eurasian Curlew 58 Common Swallow 59 Black-bellied Tern 50 Sterna auritia 59 Black-headed Gull 60 Brown-headed Gull 61 Larus ridibundus 62 Pallas's Gull 63 River Tern 64 Black-bellied Tern 65 Sterna aurantia 66 Black-bellied Tern 66 Sterna auritia 67 Lesser Pied Kingfisher 68 Common Swallow 69 Wire-tailed Swallow 69 Hirundo smithii 60 Red-rumped Swallow 60 Hirundo smithii 61 Red-rumped Swallow 62 Hirundo smithii 63 Red-rumped Swallow 64 Hirundo smithii 65 Red-rumped Swallow 65 Motacilla alba 66 Motacilla flava 67 Citrine Wagtail 68 Motacilla flava 69 Kotacilla flava 70 Felow Wagtail 71 Motacilla flava 72 Citrine Wagtail 73 Yellow Wagtail 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 78 Chaimarrornis leucocephalus	43			
52 Green Sandpiper Tringa ochropus 53 Wood Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ridibundus 62 Pallas's Gull Larus ridibundus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna aurantia 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo daurica 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla flava 73 Yellow Wagtail Motacilla inaderaspatensis 74 Rosy Pipit Anthus roseatus 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	13			
53 Wood Sandpiper Tringa glareola 54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ichthyaetus 62 Pallas's Gull Larus ichthyaetus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna acuticauda 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Ceryle rudis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo daurica 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla flava 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla inaderaspatensis 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	4		· · · · · · · · · · · · · · · · · · ·	
54 Common Sandpiper Actitis hypoleucos 55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus irdibundus 62 Pallas's Gull Larus ichthyaetus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna acuticauda 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo daurica 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla maderaspatensis 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	273			
55 Little Stint Calidris minuta 56 Temminck's Stint Calidris temminckii 57 Eurasian Curlew Numenius arquata 58 Common Greenshank Tringa nebularia 59 Black-winged Stilt Himantopus himantopus 60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ridibundus 62 Pallas's Gull Larus ichthyaetus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna acuticauda 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo daurica 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla maderaspatensis 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	86			
56Temminck's StintCalidris temminckii57Eurasian CurlewNumenius arquata58Common GreenshankTringa nebularia59Black-winged StiltHimantopus himantopus60Brown-headed GullLarus brunnicephalus61Black-headed GullLarus ridibundus62Pallas's GullLarus ichthyaetus63River TernSterna aurantia64Black-bellied TernSterna acuticauda65Small Blue KingfisherAlcedo atthis66White-breasted KingfisherCeryle rudis67Lesser Pied KingfisherCeryle rudis68Common SwallowHirundo rustica69Wire-tailed SwallowHirundo smithii70Red-rumped SwallowHirundo daurica71White WagtailMotacilla alba72Citrine WagtailMotacilla citreola73Yellow WagtailMotacilla cinerea74Grey WagtailMotacilla maderaspatensis75Large Pied WagtailMotacilla maderaspatensis76Rosy PipitAnthus roseatus77White-capped RedstartChaimarrornis leucocephalus				
57Eurasian CurlewNumenius arquata58Common GreenshankTringa nebularia59Black-winged StiltHimantopus himantopus60Brown-headed GullLarus brunnicephalus61Black-headed GullLarus ridibundus62Pallas's GullLarus ichthyaetus63River TernSterna aurantia64Black-bellied TernSterna acuticauda65Small Blue KingfisherAlcedo atthis66White-breasted KingfisherHalcyon smyrnensis67Lesser Pied KingfisherCeryle rudis68Common SwallowHirundo rustica69Wire-tailed SwallowHirundo smithii70Red-rumped SwallowHirundo daurica71White WagtailMotacilla alba72Citrine WagtailMotacilla citreola73Yellow WagtailMotacilla flava74Grey WagtailMotacilla cinerea75Large Pied WagtailMotacilla maderaspatensis76Rosy PipitAnthus roseatus77White-capped RedstartChaimarrornis leucocephalus	20			
58Common GreenshankTringa nebularia59Black-winged StiltHimantopus himantopus60Brown-headed GullLarus brunnicephalus61Black-headed GullLarus ridibundus62Pallas's GullLarus ichthyaetus63River TernSterna aurantia64Black-bellied TernSterna acuticauda65Small Blue KingfisherAlcedo atthis66White-breasted KingfisherHalcyon smyrnensis67Lesser Pied KingfisherCeryle rudis68Common SwallowHirundo rustica69Wire-tailed SwallowHirundo smithii70Red-rumped SwallowHirundo daurica71White WagtailMotacilla alba72Citrine WagtailMotacilla citreola73Yellow WagtailMotacilla flava74Grey WagtailMotacilla cinerea75Large Pied WagtailMotacilla maderaspatensis76Rosy PipitAnthus roseatus77White-capped RedstartChaimarrornis leucocephalus	101			
59Black-winged StiltHimantopus himantopus60Brown-headed GullLarus brunnicephalus61Black-headed GullLarus ridibundus62Pallas's GullLarus ichthyaetus63River TernSterna aurantia64Black-bellied TernSterna acuticauda65Small Blue KingfisherAlcedo atthis66White-breasted KingfisherCeryle rudis67Lesser Pied KingfisherCeryle rudis68Common SwallowHirundo rustica69Wire-tailed SwallowHirundo smithii70Red-rumped SwallowHirundo daurica71White WagtailMotacilla alba72Citrine WagtailMotacilla citreola73Yellow WagtailMotacilla flava74Grey WagtailMotacilla cinerea75Large Pied WagtailMotacilla maderaspatensis76Rosy PipitAnthus roseatus77White-capped RedstartChaimarrornis leucocephalus	7	•		
60 Brown-headed Gull Larus brunnicephalus 61 Black-headed Gull Larus ridibundus 62 Pallas's Gull Larus ichthyaetus 63 River Tern Sterna aurantia 64 Black-bellied Tern Sterna acuticauda 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo daurica 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla inerea 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	7	-		
61 Black-headed Gull 62 Pallas's Gull 63 River Tern 64 Black-bellied Tern 65 Small Blue Kingfisher 66 White-breasted Kingfisher 67 Lesser Pied Kingfisher 68 Common Swallow 69 Wire-tailed Swallow 70 Red-rumped Swallow 71 White Wagtail 72 Citrine Wagtail 73 Yellow Wagtail 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 78 Large Pied Redstart 78 Large Pied Redstart 79 Red-surve Alexandra Swallow 70 Rotarila Redsandra Swallow 71 Motacilla alba 72 Citrine Wagtail 73 Motacilla flava 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 78 Chaimarrornis leucocephalus	12			
62 Pallas's Gull 63 River Tern 64 Black-bellied Tern 65 Small Blue Kingfisher 66 White-breasted Kingfisher 67 Lesser Pied Kingfisher 68 Common Swallow 69 Wire-tailed Swallow 69 Wire-tailed Swallow 70 Red-rumped Swallow 71 White Wagtail 72 Citrine Wagtail 73 Yellow Wagtail 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 78 Sterna aurantia Sterna aurantia 8 Sterna aurantia 8 Cerna acuticauda 8 Alcedo atthis 8 Ceryle rudis 8 Ceryle rudis 9 Hirundo rustica 9 Hirundo smithii 9 Motacilla daurica 9 Hirundo daurica 9 Motacilla alba 9 Motacilla alba 9 Motacilla flava 9 Motacilla flava 9 Motacilla flava 9 Motacilla maderaspatensis 9 Anthus roseatus 9 Chaimarrornis leucocephalus	220			
63 River Tern 64 Black-bellied Tern 65 Small Blue Kingfisher 66 White-breasted Kingfisher 67 Lesser Pied Kingfisher 68 Common Swallow 69 Wire-tailed Swallow 69 Wire-tailed Swallow 70 Red-rumped Swallow 71 White Wagtail 72 Citrine Wagtail 73 Yellow Wagtail 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 78 Sterna aurantia	687			
64 Black-bellied Tern Sterna acuticauda 65 Small Blue Kingfisher Alcedo atthis 66 White-breasted Kingfisher Halcyon smyrnensis 67 Lesser Pied Kingfisher Ceryle rudis 68 Common Swallow Hirundo rustica 69 Wire-tailed Swallow Hirundo smithii 70 Red-rumped Swallow Hirundo daurica 71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla cinerea 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	1	*		
65Small Blue KingfisherAlcedo atthis66White-breasted KingfisherHalcyon smyrnensis67Lesser Pied KingfisherCeryle rudis68Common SwallowHirundo rustica69Wire-tailed SwallowHirundo smithii70Red-rumped SwallowHirundo daurica71White WagtailMotacilla alba72Citrine WagtailMotacilla citreola73Yellow WagtailMotacilla flava74Grey WagtailMotacilla cinerea75Large Pied WagtailMotacilla maderaspatensis76Rosy PipitAnthus roseatus77White-capped RedstartChaimarrornis leucocephalus	11			
66White-breasted KingfisherHalcyon smyrnensis67Lesser Pied KingfisherCeryle rudis68Common SwallowHirundo rustica69Wire-tailed SwallowHirundo smithii70Red-rumped SwallowHirundo daurica71White WagtailMotacilla alba72Citrine WagtailMotacilla citreola73Yellow WagtailMotacilla flava74Grey WagtailMotacilla cinerea75Large Pied WagtailMotacilla maderaspatensis76Rosy PipitAnthus roseatus77White-capped RedstartChaimarrornis leucocephalus	7			
67 Lesser Pied Kingfisher 68 Common Swallow 69 Wire-tailed Swallow 70 Red-rumped Swallow 71 White Wagtail 72 Citrine Wagtail 73 Yellow Wagtail 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 78 Ceryle rudis 79 Hirundo rustica 70 Hirundo smithii 70 Hirundo daurica 71 Motacilla alba 72 Motacilla citreola 73 Motacilla flava 74 Motacilla flava 75 Large Pied Wagtail 76 Rosy Pipit 77 Chaimarrornis leucocephalus	23		-	
68 Common Swallow 69 Wire-tailed Swallow 70 Red-rumped Swallow 71 White Wagtail 72 Citrine Wagtail 73 Yellow Wagtail 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 78 Wire-tailed Swallow 79 Hirundo daurica 70 Motacilla alba 71 Motacilla citreola 72 Motacilla flava 73 Motacilla flava 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 Chaimarrornis leucocephalus	64		9	
69 Wire-tailed Swallow 70 Red-rumped Swallow 71 White Wagtail 72 Citrine Wagtail 73 Yellow Wagtail 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart 78 Hirundo smithii 79 Hirundo daurica 70 Motacilla alba 70 Motacilla citreola 71 Motacilla flava 72 Motacilla cinerea 73 Motacilla maderaspatensis 74 Chaimarrornis leucocephalus	9			
70 Red-rumped Swallow 71 White Wagtail 72 Citrine Wagtail 73 Yellow Wagtail 74 Grey Wagtail 75 Large Pied Wagtail 76 Rosy Pipit 77 White-capped Redstart Motacilla daurica Motacilla citreola Motacilla flava Motacilla cinerea Motacilla maderaspatensis Anthus roseatus Chaimarrornis leucocephalus	193			
71 White Wagtail Motacilla alba 72 Citrine Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla cinerea 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	31			
72 Citrine Wagtail Motacilla citreola 73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla cinerea 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	92			
73 Yellow Wagtail Motacilla flava 74 Grey Wagtail Motacilla cinerea 75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	148			
74Grey WagtailMotacilla cinerea75Large Pied WagtailMotacilla maderaspatensis76Rosy PipitAnthus roseatus77White-capped RedstartChaimarrornis leucocephalus	400		-	
75 Large Pied Wagtail Motacilla maderaspatensis 76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	72		9	
76 Rosy Pipit Anthus roseatus 77 White-capped Redstart Chaimarrornis leucocephalus	14			
77 White-capped Redstart Chaimarrornis leucocephalus	22		_	
	15			
	1			
	2 1170	xicola leucura	White-tailed Stonechat	78

|12|