Table 1. List of birds recorded from the study area with scientific name, family and order

|  |  |  |  |
| --- | --- | --- | --- |
| Common name | Scientific name | Family | Order |
| Ashy drango | *Dicrurus leucophaeus* | Dicruridae | Passeriformes |
| Asian koel | *Eudynamys scolopaceus* | Cuculidae | Cuculiformes |
| Asian palm swift | *Cypsiurus balasiensis* | Apodidae | Passeriformes |
| Asian paradise fly catcher | *Terpsiphone paradisi* | Monarchidae | Passeriformes |
| Black drango | *Dicrurus macrocerus* | Dicruridae | Passeriformes |
| Black kite | *Milvus migrans* | Accipitridae | Falconiformes |
| Black shoulder woodpecker | *Chrysocolaptes festivus* | Picidae | Piciformes |
| Blue rock pigeon | *Columba livia* | Columbidae | Columbiformes |
| Blue tailed bee-eater | *Merops orientalis* | Meropidae | Coraciiformes |
| Cattle egret | *Bubulcus ibis* | Ardeidae | Ciconiiformes |
| Common babbler | *Turdoides caudatus* | Leiothrichidae | passeriformes |
| Common myna | *Acridotheres tristis* | Sturnidae | Passeriformes |
| Crimson sun bird | *Aethopyga siparaja* | Nectariniidae | Passeriformes |
| Crimson throated barbet | *Megalaima rubricapilla* | Megalaimidae | Piciformes |
| Emerald dove | *Chalcophaps indica* | Columbidae | Columbiformes |
| Forest wagtail | *Dendronanthus indicus* | Motacillidae | Passeriformes |
| Goldenbacked woodpecker | *Dinopium javanense* | Picidae | Piciformes |
| Great black woodpecker | *Dryocopus javanense* | Picidae | Piciformes |
| Grey wagtail | *Motacilla cinerea* | Motacillidae | Passeriformes |
| House crow | *Corvuss plendens* | Corvidae | Passeriformes |
| House sparrow | *Passer domesticus* | Passeridae | Passeriformes |
| Indian peafowl | *Pavo cristatus* | Phasianidae | Galliformes |
| Indian tree pie | *Dentrocitta vagabunda* | Corvidae | Passeriformes |
| Jungle crow  | *Corvus macrohynchos* | Passeridae | Passeriformes |
| Jungle owlet  | *Glaucidium radiatu* | Strigidae | Strigiformes |
| Lesser coucal | *Centropus bengalensis* | Cuculidae | Cuculiformes |
| Little spider hunter | *Archnothera longisrotra* | Nectariniidae | Passeriformes |
| Loten’s sun bird | *Nectarinia lotenia* | Nectariniidae | Passeriformes |
| Nilgiri wood pigeon | *Columba elphinstonii* | Columbidae | Columbiformes |
| Purple rumped sun bird | *Nectarinia zeylonica* | Nectariniidae | Passeriformes |
| Red vented bulbul | *Pycnonotus cafer* | Pycnonotidae | Passeriformes |
| Red whiskered bulbul | *Pycnonotus jocosus* | Pycnonotidae | Passeriformes |
| Rose ringed parakeet | *Psittacula krameri* | Psittaculidae | Psittaciformes |
| Scarlet minivet | *Pericrocotus roseus* | Campephagidae | Passeriformes |
| Small button quail | *Turnix sylvatica* | Turnicidae | Turndiformues |
| Small sun bird | *Nectarinia minima* | Nectariniidae | Passeriformes |
| White breasted kingfisher  | *Halcyon smyrnensis* | Alcedinidae | Corasseriformes |
| Yellow throated sparrow | *Petronia xanthocollis* | Passeridae | Passeriformes |

Table 2. Frequency, abundance and IVI value of the 38 bird species recorded, along with dominant/rare category (VR- very rare, R-rare, D-dominant, PD-predominant)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species | Category | Frequency  | Abundance | IVI |
|  |  | (n=144) | Total | Mean | ±SD |  |
| Ashy drango | VR | 13 | 29 | 1.93 | 1.62 | 0.82 |
| Asian koel | R | 94 | 426 | 4.53 | 2.07 | 7.24 |
| Asian palm swift | R | 34 | 170 | 5.00 | 2.37 | 2.71 |
| Asian paradise fly catcher | VR | 10 | 18 | 1.80 | 1.23 | 0.61 |
| Black drango | R | 91 | 353 | 3.88 | 2.09 | 6.65 |
| Black kite | VR | 15 | 17 | 1.13 | 0.35 | 0.85 |
| Black shoulder wood pecker | VR | 21 | 28 | 1.33 | 0.66 | 1.21 |
| Blue rock pigeon | D | 77 | 641 | 8.32 | 4.19 | 7.68 |
| Blue tailed bee eater | R | 66 | 186 | 2.82 | 1.33 | 4.40 |
| Cattle egret | D | 79 | 851 | 10.77 | 10.40 | 9.03 |
| Common babbler | PD | 92 | 1947 | 21.16 | 7.47 | 16.24 |
| Common myna | PD | 96 | 2191 | 22.82 | 7.15 | 17.90 |
| Crimson sun bird | R | 93 | 387 | 4.16 | 2.08 | 6.95 |
| Crimson throated barbet | R | 76 | 235 | 3.09 | 2.12 | 5.20 |
| Emerald dove | VR | 10 | 11 | 1.10 | 0.32 | 0.56 |
| Forest wagtail | VR | 22 | 24 | 1.09 | 0.29 | 1.24 |
| Goldenbacked woodpecker | VR | 13 | 14 | 1.08 | 0.28 | 0.73 |
| Great black woodpecker | VR | 12 | 14 | 1.17 | 0.39 | 0.68 |
| Grey wagtail | VR | 30 | 32 | 1.07 | 0.25 | 1.69 |
| House crow | PD | 93 | 3237 | 34.81 | 8.84 | 24.02 |
| House sparrow | VR | 10 | 61 | 6.10 | 9.49 | 0.86 |
| Indian peafowl | PD | 97 | 2512 | 25.90 | 7.50 | 19.87 |
| Indian tree pie | R | 95 | 398 | 4.19 | 3.24 | 7.12 |
| Jungle crow  | D | 93 | 684 | 7.35 | 4.51 | 8.73 |
| Jungle owlet  | R | 60 | 165 | 2.75 | 1.82 | 3.98 |
| Lesser coucal  | R | 90 | 219 | 2.43 | 1.57 | 5.80 |
| Little spider hunter | R | 50 | 133 | 2.66 | 1.10 | 3.29 |
| Loten’s sun bird | R | 63 | 238 | 3.78 | 1.44 | 4.57 |
| Nilgiri wood pigeon | VR | 25 | 26 | 1.04 | 0.20 | 1.40 |
| Purple rumped sun bird | R | 63 | 243 | 3.86 | 3.05 | 4.60 |
| Red vented bulbul | VR | 24 | 36 | 1.50 | 2.04 | 1.41 |
| Red whiskered bulbul | VR | 18 | 19 | 1.06 | 0.24 | 1.01 |
| Rose ringed parakeet | VR | 12 | 26 | 2.17 | 0.94 | 0.75 |
| Scarlet minivet | VR | 26 | 51 | 1.96 | 0.82 | 1.60 |
| Small button quail | D | 79 | 635 | 8.04 | 4.40 | 7.74 |
| Small sun bird | R | 83 | 328 | 3.95 | 3.58 | 6.10 |
| White breasted kingfisher  | VR | 64 | 86 | 1.34 | 1.42 | 3.71 |
| Yellow throated sparrow | VR | 17 | 32 | 1.88 | 1.32 | 1.04 |

Table 3. Comparison of diversity of bird species of BU campus with other regions

|  |  |  |  |
| --- | --- | --- | --- |
| Location | SR | MD | Reference |
| Bharathiar University Campus, India | 38 | PC | Present study |
| Continuous forest region, Hawaii Island. | 10  | PC | Flaspohler et al. 2010 |
| Natural, semi-natural and crop Vegetation area, central Spain. | 19  | PC | Rey-Benayas et al. 2010. |
| Steppe and semiarid environments, Fuerteventura Island, Spain. | 20  | TT | Carrascal et al. 2012.  |
| Urban Road Strip Corridors, Pachuca, Mexico | 26  | LT | Carbo-Ramirez & Zuria 2011 |
| Sal forest, Corbett National Park, India | 27 | PC | Kidwai et al. 2013 |
| Mesic Highveld Grassland Bio Region, South Africa. | 27  | LT  | Little et al. 2013 |
| Urban Gardens, Pachuca, Mexico | 28  | PC | Carbo-Ramirez & Zuria 2011 |
| Natural grass land and grazed pastures, western Italian Alps | 29  | PC | Caprio et al. 2011 |
| Andean forest, Columbia. | 29 | PC | Aubad et al. 2010 |
| Urban Parks, Pachuca, Mexico | 32  | PC | Carbo-Ramirez & Zuria 2011 |
| Agricultural landscape, Czech Republic | 38 | PC | Horak et al. 2013 |
| Mar de Plata City, Argentina | 39 | T | Leveau & Leveau 2012 |
| Farmland, Sweden | 40  | PC | Wretenberg et al. 2010  |
| Anekere wetland, Karnataka, India | 44 | PC, DC | Bhat et al. 2009 |
| Mixed species forest, Corbett National Park, India | 47 | PC | Kidwai et al. 2013 |
| Agricultural landscape, Lower Silesia, Poland | 50  | TM | Wuczynski et al. 2011 |
| Farmland, Sweden. | 52  | PC | Hiron et al. 2013. |
| Dekinda Forest Reserve, Balana, Sri Lanka | 56 | PT | Wijesundara & Wijesundara 2014 |
| Hemiboreal forests, Estonia | 62 | BC | Rosenvald et al. 2011 |
| Scrub forest, Sariska Tiger Reserve, India | 63 | T | Shahabuddin & Kumar 2007 |
| Buxa Tiger Reserve, North Bengal, India | 68 | PC | Roy et al. 2012 |
| Mangroves, Kundapura, India | 70 | LT | Kumar & Kumara 2014 |
| Assam University Campus, Silchar, India | 73 | TW | Chakdar et al. 2016 |
| Rasik Beel Wetland, North Bengal, India | 75 | PC | Roy et al. 2012 |
| Gorumara National Park, North Bengal, India | 87 | PC | Roy et al. 2012 |
| Parks, Iberian Peninsula | 91 | FR | Paton et al. 2012 |
| Thane Creek, Maharashtra, India | 95 | PC | Chaudhari-Pachpande & Pejaver 2016 |
| Agricultural Wetlands, Uttar Pradesh, India | 99 | BC | Sundar & Kittur 2013 |
| Silent Valley, Kerala, India | 137 | LT | Jayson & Mathew 2000 |
| Wet Tropics bioregion, north-East Australia. | 141  | LT | Catterall et al. 2012 |
| Chandoli National Park, Western Ghats, India | 151 | PC | Ramchandra, 2013 |
| Farmland, forest, suburban and Cities, France | 160  | PC | Jiguet et al. 2012 |
| Palni hills, Western Ghats, India | 196 | RT, RS, TW, MN | Ramesh et al. 2012 |
| Human-modified landscapes, Sri Lanka & India | 206 | T | Goodale et al. 2014 |
| Forest regions of the state of Parana and Santa Catarina, Brazil | 273  | PC | Anjos et al. 2011 |
| Buxa Tiger Reserve, West Bengal, India | 284 | LT | Sivakumar et al. 2006 |
| Urban parks, USA | 360  | GBT  | Oliver et al. 2011 |
| Rainforest, French Guiana, Amazonia | 441 | ES | Thiollay 1994 |

SR-species richness, MD-method, PC-point count, LT-line transect, MN-mist netting, T-transect, DC-direct count, TM-territory mapping, PT-point transect, BC-bird count, FR-fixed routes, RT-road transect, RS-road survey, TW-trial walk, GBT-group bird trip, IBS-individual bird sighting, ES-extensive survey