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# DIVERSITY OF AVI FAUNA IN AND AROUND NALESHWAR (MOHADI) DAM IN TA-SINDEWAHI DISTRICT CHANDRAPUR (M.S.)

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**ABSTRACT:** Naleshwar (mohadi) Dam observed huge diversity of avian fauna which is located near Naleshwar (Mohadi) village in Sindewahi tehsil of Chandrapur district (M.S.). During the study of avian fauna total 36 species of birds were identified from all the three studied site which belongs to 27 different family and 10 different order. From observed species there is no threaten species found. Monsoon visitor species as 01, winter visitor species 01, summer visitor species 01, common species as 33. Bird diversity is more observed in Naleshwar (Mohadi) Dam due to more vegetation and insect diversity found in studied lake site. Only one migratory species occurs during study period.

## INTRODUCTION :

Birds play a key role in ecosystem. Polluted water affects aquatic vegetation, composition and food resources that influences population, diversity, and distribution of Birds (Wagh et al. 2020). The water birds obtain higher net energy intake in shallow water depth than deep water. Birds act as mobile link that transfer energy both within and among ecosystem that are crucial to maintain the balance of ecosystem. (Lundberg and Moberg, 2003). There are 44 species of birds found in Satara tukum lake and 33 species were identified from Satara Bhosale Lake and its adjoining areas belonging to 15 different families. (Pimpalshende and Sitre, 2020).

## MATERIALS AND METHOD:

The observation and birds record were carried out from January 2020 to December 2021 in and around Naleshwar (Mohadi) Dam in sindewahi. It was observed with the help of binocular with 20 x zoom lens and their identification was done by Salim Ali (2002) and various standard literature. Their colored photograph was taken with the help of Canon camera with 18 x pixel.

## STUDY AREA:

Naleshwar (mohadi) Dam is located at about 32 km away from Mul tahsil and 13 km away from Sindewahi tehsil and 47 km away from head quarter of Chandrapur district. Naleshwar (mohadi) dam is surrounded by Mul taluka towards South, Saoli Taluka Towards East, Chimur Taluka towards North. It is located at a longitude 20014”00” and latitude 79034”45” and 229 above mean sea level. The length of reservoir is 442.00 hectare. Water storage capacity is 10.930 million cubic meters. It is main harbor area to supply water in and around villages for other purposes.

## REFERENCES:

Ali, S. and Ripley, S.D. (1995): A Pictorial Guide to the Birds of the Indian Subcontinent, Bombay Natural History Society, Mumbai.

Ali, S.(2002) : The Book in Indian Birds, Bombay Natural History Society Oxford, 13 edition.

Chaudhary, G and Sitre, S. (2021): Avifauna diversity of Naleshwar Lake and its periphery in Mul Tehsil of Chandrapur District (Maharashtra State). International Journal of ecology and Environmental Sciences. Vol. 3 pp. 99-101.

Chavhan, P. and Dhamani A.A (2014): Avian diversity in and around chaprala wild life sancturay, District-Gadchiroli, Maharashtra, India, IJFBS 2014:1(6);90-95.

Chilke Arun M (2012): Avian diversity in and Bamanwada lake of Rajura, District-Chandrapur(Maharashtra), Annals of Biological Research,2012,3(4),2014-2013.

Ghosal, D. N. (1995): Avifauna of conservation area, No. 7, Fauna of Kanha Tiger Reserve Zoological survey of India(ZSI), pp. 63-91.

Gupta R.C., Kaushik T.K. and Gupta P.K.(2012) : Analysis of avian-biodiversity in rural wetland environs in Panipat district in Haryana, India. Journal of applied nd natural science 4(2):252-257(2012).

Harney N.V., Dhamani A.A., and Andrew R.J. (2011): Studies on avifaunal diversity of three water bodies near Bhadrawati, Distt. Chandrapur(M.S.)India, ISRJ, Vol.1(6): 216-218.

Harney, N.V. and Bhute K.B. (2014): Diversity of avifauna in and around Chalbardi(Rai) Lake near Bhadrawati, District Chandrapur(M.S.), India.,Journal of Global Biosciences, Vol.3(2) 2014,pp. 399-405.

HV Wanjari(2016): Divertsity of auqatic birds of Ekburji reservoir, Washim, M.S., India., Int. J. of fisheries and Aq. Studeis 3016;4(5);192-195.

Joshi, P (2016): Avian Diversity in and Around Durge lake and their Surrounding Forest of Kalamb, District – Yavatmal, Maharashtra, India. Vidyabharti International Interdisciplinary Research Journal (Special Proceeding Issue) : pp. 126 - 130.

Kadam Surendra S and Avadesh Shashi Dhar(2017): Status and diversity of avian fauna in and around Bordi regioan, westg coast of India; Int. Res. J of Biological sciences, vol. 6(5),15-18,

Kakde V.R. (2012): A Report on Avifaunal Diversity at and Around Buldana Town, District Buldana(M.S.), Online International Interdisciplinary Research Journal,ISSN2249-9598, Voume-III, Jan-feb 2012, 30-36.

Katore D.P.(2017): Avain Fauna of Aundha dam in Aundha Nagnath Dist-Hingoli; Int. J. of life sciences 2017 vol.5(1);114-116.

Kulkarni, A. N. and Kanwate, V.S. (2006): Avifauna of forest Jaldhara, Kinwat, District Nanded, Maharashtra, J. Aqua. Biol. Vol. 21(1); 46-51.

Kurhade, Sudhakar (2010): Status and diversity of Avifauna in Jaikwadi reservoirs, Maharashtra J. Aqua. Boil. Vol.25(1); 32-40.

Lundberg,J and Moberg, F(20003): Mobile link organisms and ecosystem functioning: Implications for ecosystem resilience and management. Ecosystems, vol. 6(1), pp. 87-98

Mistry J. (2015): Avifaunal diversity in and around Berhampore, Murshidabad district, WestBengal. India., International Journal of Fauna and Biological Studies. Vol. 2(4): 06-10.

Patil, S.R. Sawant, R.S. Patil, S.S. and Sathe, T.V. (2013): Avian fauna and Physico chemical parameters of Gajagoan pond of Arara Tahsil, Kolhapur(M.S.), Rasayan J. Chem Vol.6/no.1,176-179.

Pimpalshende, A.K. and Sitre, S.R. (2020): Birds diversity of Satara Bhosale and Satara Tukum lakes of pombhurna tehsil. Int. Res. J. of Science & Engineering, special Issue A7, pp. 475-482

Ravindra Rawal, S. Ghaherwal and Nageshwar Wart(2016): Avian diversity in and around Kunda Reservoir(District-Dhar), Int. Jou. Research vol.4 IssueI,690-695.

Sangeeta Chandel, Vijay Kumar, Bhagwati prasad Sharma, Reetu Patiyal(2014): Bird diversity of Dhauladher nature Park Gopalpur, District Kangra, Himachal Pradesh., Asian Journal of conservation biology July 2014, vol. 3 no.1 pp. 68-74.

Shirbhate, M. V. and Vyas, A. (2016): Avifaunal Diversity Near Morna Dam of Akola, Maharashtra, India. Vidyabharti International Interdisciplinary Research Journal (Special Proceeding Issue) : pp. 11-14.

Snehal Dapke, Ragini Didolkar, Swati Kaushik(2015): Studeies on diversity and abundance of avifauna in and around Laxminarayan Institute of Technology Campus, Nagpur, Central India; JEZS 2015; 3(5);141-146.

Tijare R. V. (2011): Biodiversity of Avian Fauna Visited To Wetlands Of Gadchiroli District(Maharashtra), Indian Journal of Applied Research volume:1,Issue:2,Nov-2011,pp. 103-104.

Vikas kumar (2015): Biodiversity of Avain fauna of vansda national park, Gujrat, conservation issues. Nat. env. and poll tech. vol. 14 no.3 pp. 709-714(2015).

**Table No. 1: Birds diversity in Naleshwar Mohadi Dam.**

| Sr. No. | Order | Family | Common Name | Scientific Name | Residential Status | Food Guild |
|---|---|---|---|---|---|---|
| 1. | Galliformes | Phasianidae | Common quail | Coturnix coturnix | R | Granivorous |
| 2. | Anseriformes | Anatidae | Spot-billed duck | Anas poecilarhyncha | R | Omnivorous |
| 3 | Anseriformes | Anatidae | Common teal | Anas crecca | R | Omnivorous |
| 4. | Bucerotiformes | Bucerotidae | Brown headed barbet | Megalaima virens | R | Frugivorous |
| 5. | Coraciiformes | Coraciidae | Indian roller | Coracias benghalensis | R | Insectivorous |
| 6. | Coraciiformes | Alcedimidae | White-breasted Kingfisher | Halcyon smyrnesnsis | R | Carnivorous |
| 7. | Coraciiformes | Meropidae | Green bee-eater | Merops orientalis | R | Insectivorous |
| 8. | Cuculifomes | Cuculidae | Asian koel | Eudynamys scolopaceus | R | Omnivorous |
| 9. | Psittaciformes | Psittaculidae | Rose-ringed Parakeet | Psittacula kraneria | R | Frugivorous |
| 10. | Columbiformes | Columbidae | Rock pigeon | Columba livia | R | Granivorous |
| 11. | Columbiformes | Columbidae | Spotted dove | Stigmatopelia chinesis | R | Granivorous |
| 12. | Gruiformes | Rallidae | White breasted water hen | Amaurornis phoenicurus | R | *Omnivorous* |
| 13. | Gruiformes | Rallidae | Common moorhen | Gallinule chloropus | R | *Omnivorous* |
| 14. | charadriiformes | Seolopacidae | Common sandpiper | Actinis hypoleucos | MV | *Omnivorous* |
| 15. | charadriiformes | Jacanidae | Pheasant tailed jacana | Hydrphasianus chinargus | R | *Omnivorous* |
| 16. | Passeriformes | Laniidae | Bay backed shrike | Lanius Vittatus | R | Insectivorous |
| 17 | Passeriformes | Corvidae | House crow | Corvus splendens | R | Omnivorous |
| 18 | Passeriformes | Dicruridae | Black drongo | Dicrurus macrocercus | R | Insectivorous |
| 19 | Passeriformes | Muscicapidae | Indian robin | Saxicoloides fulicatus | R | Insectivorous |
| 20 | Passeriformes | Sturnidae | Brahminy starling | Sturnia pagodarum | R | Omnivorous |
| 21 | Passeriformes | Sturnidae | Common myna | Acridotheres tristis | R | Omnivorous |
| 22 | Passeriformes | Hirundinidae | Red rumped swallow | Cecropis daurica | R | Insectivorous |
| 23 | Passeriformes | Pycnonotidae | Red vented bulbul | Pycnonotus cafer | R | Omnivorous |

| | | | | | | |
|---|---|---|---|---|---|---|
| 24 | Passeriformes | Cisticolidae | Ashy prinia | Prinia socialis | R | Insectivorous |
| 25 | Passeriformes | Sylviidae | Jungle babbler | Turdoides striatus | R | Insectivorous |
| 26 | Passeriformes | Sylviidae | Common babbler | Turdoides caudate | R | Insectivorous |
| 27 | Passeriformes | Alaudidae | Indian bush lark | Mirafra erythroptera | R | Granivorous |
| 28 | Passeriformes | Nectariniidae | Purple sunbird | Cinnyris asiaticus | R | Nectivorous |
| 29 | Passeriformes | Passeridae | House sparrow | Passer domesticus | R | Granivorous |
| 30 | Passeriformes | Motacillidae | White wagtail | Motacilla alba | WV | Insectivorous |
| 31 | Passeriformes | Motacillidae | Yellow wagtail | Motacilla flava | SV | Insectivorous |
| 32. | Passeriformes | Motacillidae | Paddyfield pipit | Anthus rufulus | R | Insectivorous |
| 33. | Passeriformes | Ploceidae | Baya weaver | Ploceus philippinus | R | Granivorous |
| 34 | Passeriformes | Ploceidae | Scaly breasted munia | Lonchura punctulata | R | Granivorous |
| 35. | Passeriformes | Ploceidae | Black headed munia | Lonchura Malacca | R | Granivorous |
| 36. | Passeriformes | Emberizidae | Crested bunting | Melophus lathami | R | Granivorous |

R-Residential, WV- winter visitor, SV-summer visitor, MV- Monsoon visitor

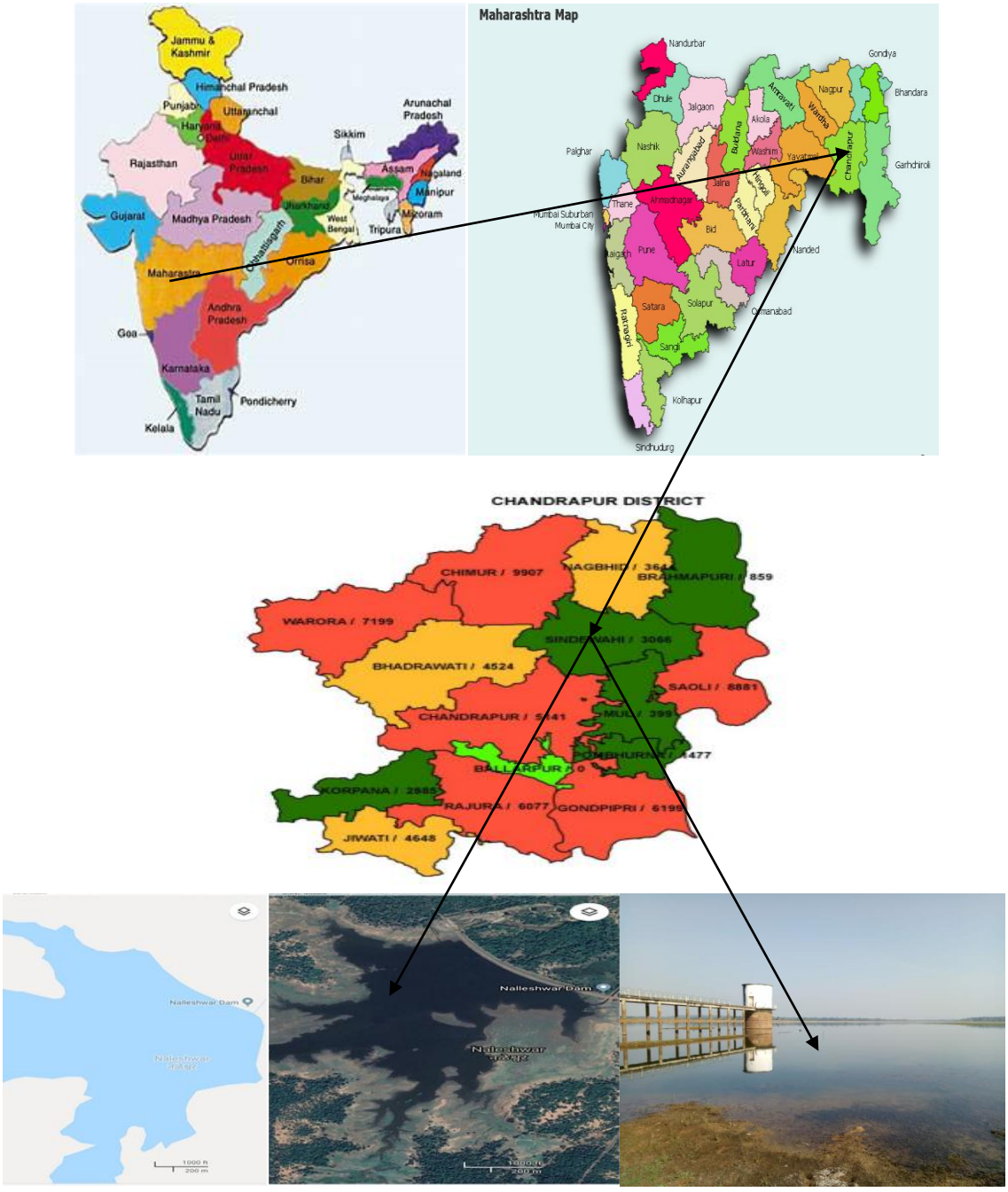
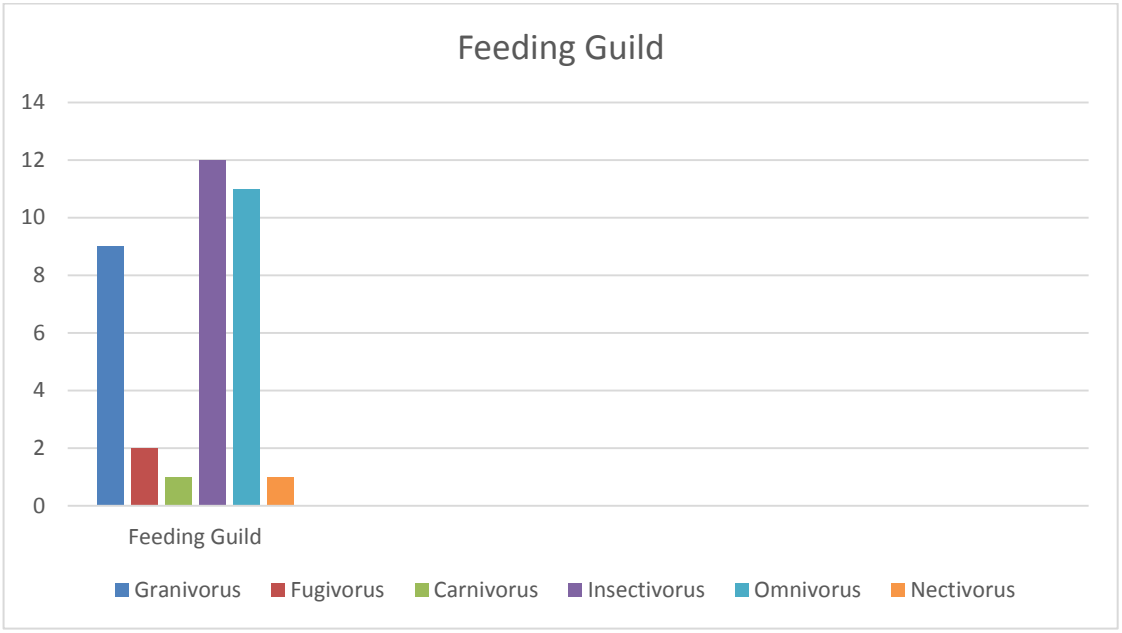
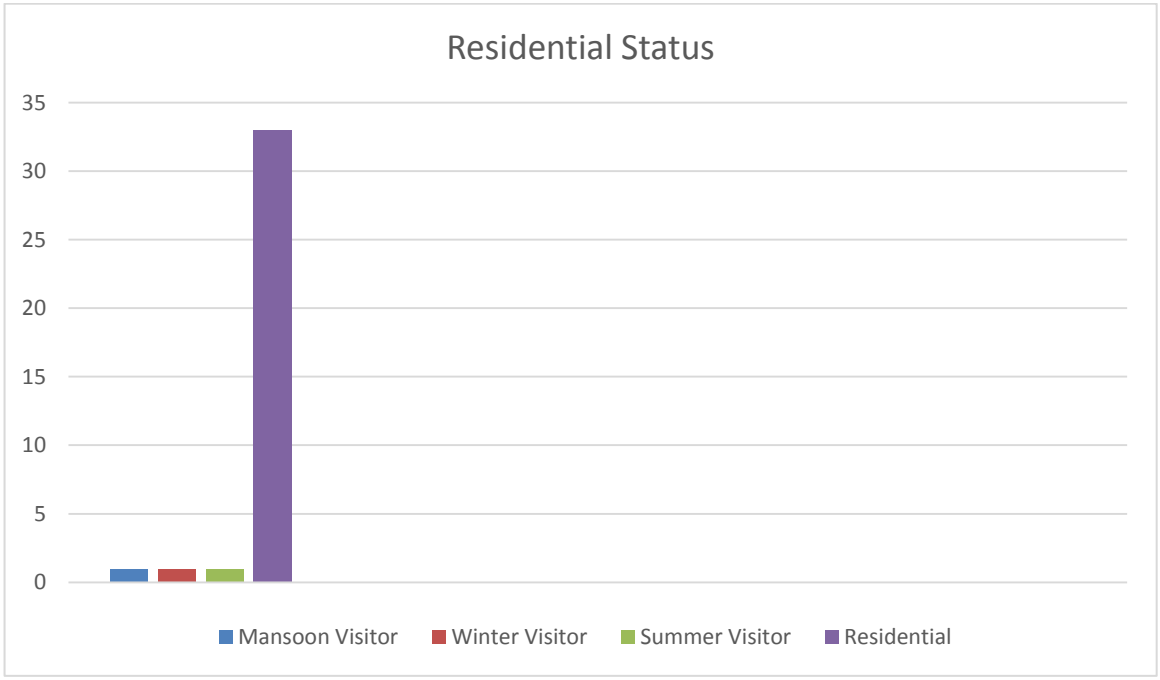



Fig.1. Satellite view of Naleshwar Dam

Fig.2. Real image of Naleshwar Dam




Graph :1 Feeding Guild of Birds




Graph: 2 Residential Status of Birds