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Daulat Vishwast Sanstha's


**Yashwantrao Chavan College, Halkarni,
Tal. Chandgad, Dist. Kolhapur-416 552, Maharashtra, India
Accredited by NAAC at the B level**

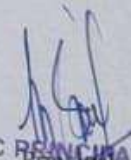
In-Charge **PRINCIPAL- Dr. P. Y. Nimbalkar** *M.A., M.Phil., Ph.D.*

Date: 21.12.2018

CERTIFICATE

This is to certify that, A student research project entitled “**Studies on Butterfly diversity in and around Kowad of Chandgad taluka in Kolhapur District**” Sanctioned Under Lead College Research Sensitization Scheme, Shivaji University Kolhapur during the academic year 2017-18 is executed by students Mr. Sagar Maruti Chikhalkar, Mr. Akash Madhukar Kamble, Miss. Vaishali Uday Lohar and Miss. Pratiksha Vilas Nirmalkar in Zoology department under the Guidance of Dr. N. C. Hiragond. The part of the project report thereof not been previously presented for any diploma or degree.


Dr. N. C. Hiragond
Project Advisor


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Seal



Final Report of the Student Research Project

Sanctioned Under Lead College Research Sensitization
Scheme, Shivaji University Kolhapur

Academic Year 2017-18

**Topic: Studies on Butterfly diversity in and around
Kowad of Chandgad taluka in Kolhapur District**

Names of the students involved:

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1. Introduction:

Chandgad taluka in Kolhapur district of Southern Maharashtra is a part of Western Ghats representing rich biodiversity. Butterflies are the wonderful creatures of nature with their various attractive colored wings. Indian subcontinent reports around 1,800 butterfly species. Studies on Butterfly diversity in Chandgad are limited to More *et al.*, (2016) documented 52 species of butterflies from Tilari forest. Therefore we made an attempt to document the butterfly diversity in south-east part of the Chandgad (15° 55' 60 N, 74° 23' 0 E) taluka in Kolhapur.

Study Area: We have made regularly field survey for butterflies in Kowad (15°59'57"N 74°22'32"E) and nearby places Kudnoor, Kitwad, Chinchane, Nittur and its adjacent area in Chandgad taluka. The study area is a part of Western Ghats

located around 800 m asl and temperature ranging from 14.75 to 36.10° C. Annual rain fall ranges 3000 to 5000 mm/year. The study area consist several small ponds, lakes, agricultural fields and traversed by Tamrapani River.

2. Methodology:

The study area was frequently visited in early morning and in the evening for the documentation of Butterfly during the period of September 2018 to November 2018. We have sighted several butterflies in the field and photographed by Nikon camera and mobiles. Insect nets are also used to collect the Butterflies. In the field we tried to identify the butterflies. The butterflies are also identified by using Field guides like Butterflies of India by Isaac Kehimkar (2018), Butterflies of India by Arun Pratap Singh.

3. Results and Discussion:

During the above said survey period we have documented 44 butterfly species belongs to 31 genus. Table 1 shows a list of Butterfly documented in present study. We have some more around 25 butterfly images, which we have not added to the checklist.

We need some more time for their identification. In a limited period survey we have documented 44 butterfly species. This proves that the study area is rich in Butterfly population. Some more observations are needed to prepare a complete Butterfly checklist of the study area. Since, the study area consist several flowering plants vegetable crops that supports the butterfly population. This short term observation on Butterfly diversity initiated interest to do survey in entire Chandgad taluka for butterflies. We can prepare a complete checklist of Butterfly diversity of Chandgad taluka and try to document life cycle of some butterfly species.

4. Acknowledgements:

We Mr. Sagar Maruti Chikhalkar, Mr. Akash Madhukar Kamble, Miss. Vaishali Uday Lohar and Miss. Pratiksha Vilas Nirmalkar wish to thank Shivaji University, Kolhapur and the Co-ordinator, Lead College, Dr. Ghali College, Gadhinglaj for sanctioning the research grant. We thank Project Advisor Dr. N. C. Hiragond, Department of Zoology for his guidance and support in implementation of this research project. We also thank the Principal, Yashwantrao Chavan College, Halkarni for providing facilities.

Name of the Student

Signature

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P. Nirmalkar

Table. 1. Shows a list Butterflies documented in Kowad and nearby places in Chandgad
Taluka of Kolhapur District

Sl. No.	Common Name	Name of the Genus	Name of the Species
1	Dark Evening Brown	1. <i>Melanitis</i>	<i>Phedima varaha</i>
2	Common Evening Brown		<i>leda</i>
3	Blue Tiger	2. <i>Tirumala</i>	<i>limniace</i>
4	Striped Tiger	3. <i>Danaus</i>	<i>genutia</i>
5	Plain Tiger		<i>chrysippus</i>
6	Gram Blue	4. <i>Euchrysops</i>	<i>cnejus</i>
7	Indian Cupid	5. <i>Everes</i>	<i>lacturnus</i>
8	Common Jezebel	6. <i>Delias</i>	<i>eucharis</i>
9	Common Crow	7. <i>Euploea</i>	<i>core</i>
10	Double Branded Crow		<i>sylvester</i>
11	Brown King Crow		<i>klugii</i>
12	Common Bush Brown	8. <i>Mycalesis</i>	<i>perseus</i>
13	Long Brand Bushbrown		<i>visala</i>
14	Danaid Eggfly	9. <i>Hypolimnas</i>	<i>misippus</i>
15	Tawny Coster	10. <i>Acraea</i>	<i>violae</i>
16	Common Castor	11. <i>Ariadne</i>	<i>merione</i>
17	Orane-Tail Awl	12. <i>Bibasis</i>	<i>sena</i>
18	Plain Banded Awl	13. <i>Hasora</i>	<i>vitta</i>
19	Bush Hopper	14. <i>Ampittia</i>	<i>dioscorides</i>
20	Tamil Grass Dart	15. <i>Taractorocera</i>	<i>ceramas</i>
21	Southern Blue Bottle	16. <i>Graphium</i>	<i>teredon</i>

22	Common Rose	17. <i>Pachliopta</i>	<i>aristolochiae</i>
23	Crimson Rose	<i>Pachliopta</i>	<i>hector</i>
24	Common Mormon	18. <i>Papilio</i>	<i>polytes</i>
25	One Spot Grass Yellow	19. <i>Eurema</i>	<i>andersoni</i>
26	Three Spot Grass Yellow		<i>blanda</i>
27	Small Grass Yellow		<i>brigitta</i>
28	Common Grass Yellow		<i>hecabe</i>
29	Common Wanderer	20. <i>Pareronia</i>	<i>hippia</i>
30	Common Ciliate Blue	21. <i>Anthene</i>	<i>emolus</i>
31	Pointed Ciliate Blue		<i>lycaenina</i>
32	Zebra Blue	22. <i>Leptotes</i>	<i>plinius</i>
33	Small Cupid	23. <i>Chilades</i>	<i>Parrhassius</i>
34	Red Pierrot	24. <i>Talicada</i>	<i>Nyseus</i>
35	Leaf Blue	25. <i>Amblypodia</i>	<i>Anita</i>
36	Common Three Ring	26. <i>Ypthima</i>	<i>Asterope</i>
37	Common Four Ring		<i>Huebneri</i>
38	Common Sailer	27. <i>Neptis</i>	<i>Hylas</i>
39	Great Eggfly	28. <i>Hypolimnas</i>	<i>Bolina</i>
40	Danaid Eggfly		<i>Misippus</i>
41	Chocolate Pansy	29. <i>Junonia</i>	<i>iphita</i>
42	Lemon Pansy		<i>lemonias</i>
43	Common Tree Brown	30. <i>Lethe</i>	<i>rohira</i>
44	Striped Albatross	31. <i>Appias</i>	<i>libythea</i>

Following are the some images of the Butterflies photographed during our regular field work in Kowad and nearby places in Chandgad Taluka of Kolhapur District

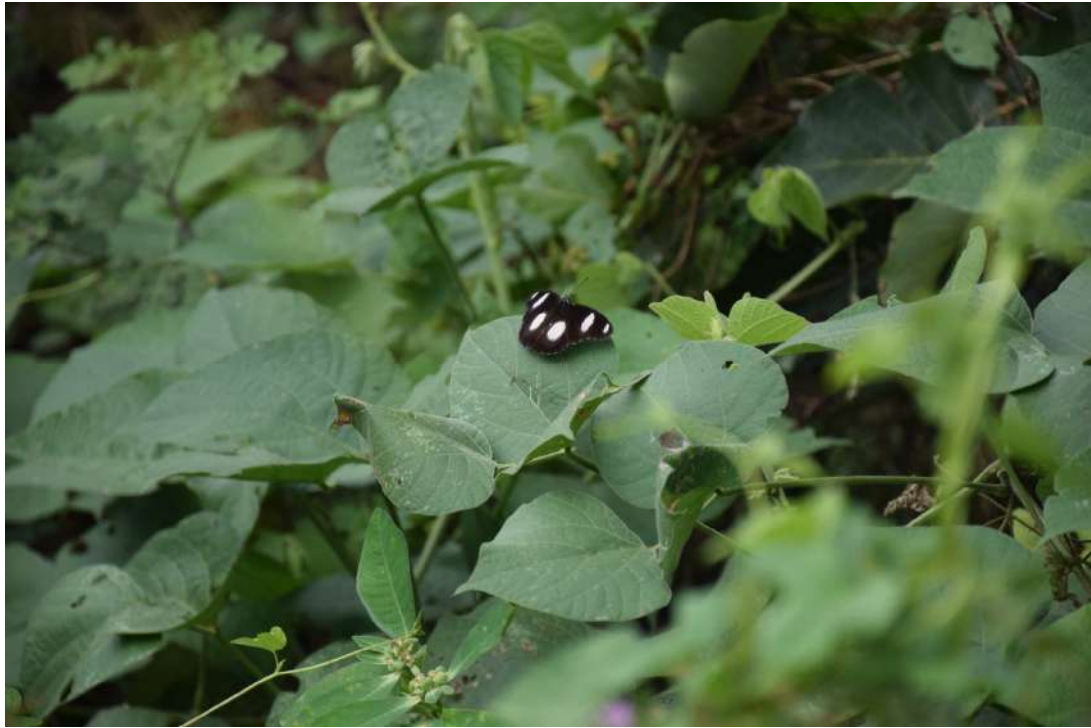
1. 1A. DANAID EGGFLY FEMALE



1B. DANAID EGGFLY FEMALE DIFFERENT FORM WITHOUT BLACK AND WHITE APEX



1C. DANAID EGGFLY MALE



2. COMMON EVENING BROWN



3. STRIPED TIGER



4. GRAM BLUE



5. DARK EVENING BROWN



6. INDIAN CUPID



7. COMMON JEZEBEL



8. COMMON CROW



9. COMMON BUSH BROWN



10. LONG BRAND BUSH BROWN



11. RED PIERROT



12. THREE SPOT GRASS YELLOW



13. SMALL CUPID



15.COMMON TREE BROWN



16. BLUE TIGER



17. STRIPED ALBATROSS



18. PLAIN TIGER



18. BUSH HOPPER



19. CRIMSON ROSE



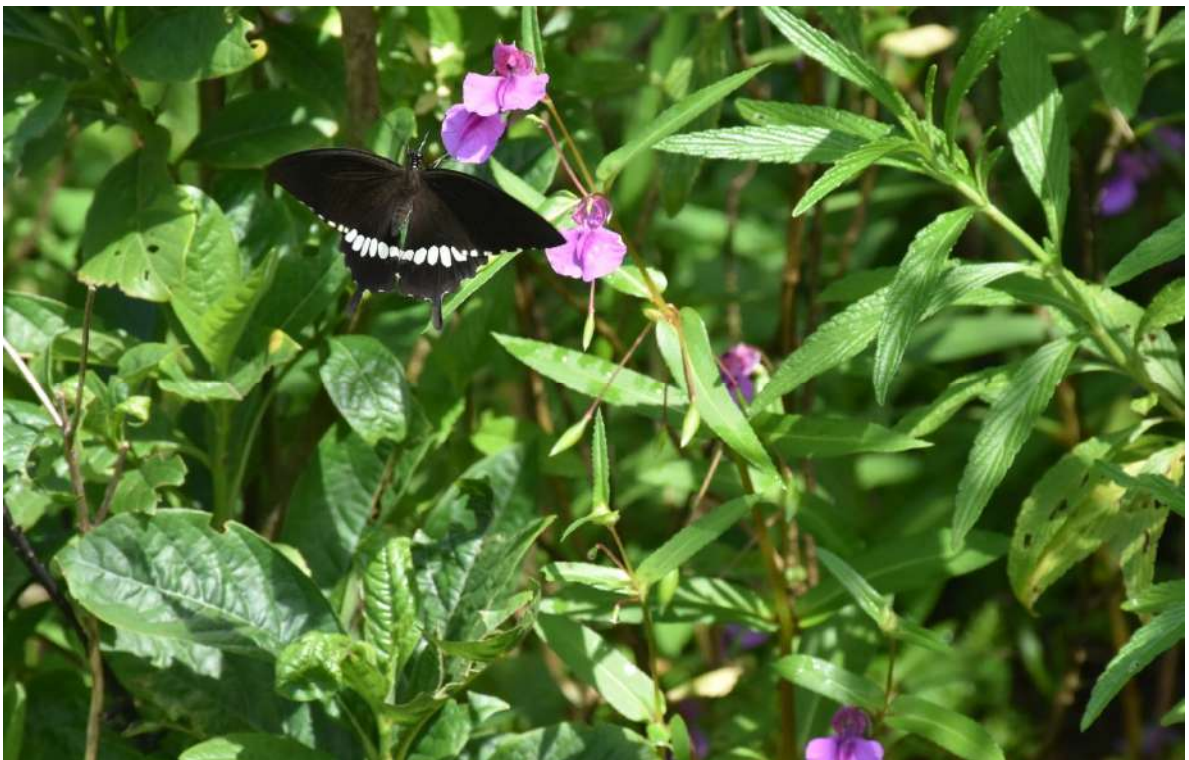
20. CHOCOLATE PANSY



21. COMMON SAILOR



22. COMMON MORMON



23. LEMON PANSY



STUDENTS INVOLVEMENT IN THE FIELD WORK.



