THE WORLD HERITAGE VOLUNTEER PROGRAM ORGANISED BY KHANGCHENDZONGA NATIONAL PARK, FOREST & ENVIRONMENT DEPARTMENT, GOVT OF SIKKIM.

1st to 9th October, 2023 (extended till 12th October)

Report

Prepared by Dr. Vivek Sarkar

Background: World Heritage Volunteers (WHV) Initiative, led by the UNESCO World Heritage Centre, is a campaign to encourage young people to undertake concrete actions and play an active role in the protection, preservation and promotion of World Heritage. It consists of action camp projects organized by organizations or institutions, involving national and international volunteers in awareness-raising and hands on activities. These projects are implemented in cooperation with multiple stakeholders and partners, including the local communities, who work together towards the preservation of our common cultural and natural heritage.

As part of the World Heritage Volunteers (WHV) 2023 Campaign, project activity proposal submitted by Khangchendzonga National Park (KNP) Management Authority, Sikkim was selected to carry out action camp projects around the World Heritage Site. Upon invitation by the KNP authority, WII-C2C participated as resource person for the programme during its first phase in April 2023. An invitation has again been received for participation of WII-C2C during its second phase from 1st to 9th October, 2023. Dr. Vivek Sarkar have been nominated.

WII-C2C contributes by supporting site management authorities to enhance awareness of stakeholders about the World Heritage Convention and strengthening the Centre's outreach mandate.

Day 1: (01-10-2023)

The registration commenced at approximately 10:00 am, marking the beginning of the event. Upon the arrival of guests and participants, a traditional offering called Khadas was presented. The program was formally inaugurated by Mr. Tashila Lachenpa, the Chief Officer of KNP Chungthang. Mrs. Bhumika Rai, the Divisional Forest Officer, provided an insightful overview of various aspects of KNP, including its geological values, biodiversity, and challenges. Emphasizing the Outstanding Universal Values of the park, she also delved into the World Heritage Volunteers program. To visually enhance understanding, a short documentary film was screened, particularly beneficial for younger participants from schools and colleges.









The first talk was by Mr. Tseten Tashi Bhutia, from the Resource Collection Centre (RCC) of Yuksom. His talk focused on the creative solution to reach the 'zero waste' goal. He not only focused with the innovation in waste management but also spoke on hurdles he faced while doing it. He showed a way to promote his effort and built up the ownership in his own community at Yuksom. Mr. Tseten Tashi Bhutia reuses different objects at his RCC and share these ideas with local students and encourages them as well to do the same at their home. He involved the students in different waste management Activities in special days like the Earth Day. With the help of local administration, he is trying to introduce policies to encourage the students to recycle and reuse and just to have the first step, he initiated an award programme to different schools to acknowledge their effort to zero waste. In other efforts, RCC Yuksom also installed dustbins at the Yuksom market, started a small setup so that LED bulbs can be repaired and reused. Apart from all the efforts to produce zero waste, Mr. Tseten also started taking feedback from the tourists, started showing his machines used in junk recycling in media such as news channels and newspapers. I also wrote articles in newspaper where he discusses ways to deal with waste at the domestic level by doing various things such as Vermicomposting of organic waste, and reusing daily stuff that we usually throw as well as the children's park at RCC using Recycled wastes. He suggested that waste management is a significance issue for KNP and its surrounding areas and he pointed out that KNP should have well maintained 'Seasonal Garbage Record' at the range office for all the ranges.





The second presentation was given by Mr. Ugen Palzor Lepcha who runs an NGO named M.L.A.S, based in Dzongu, North Sikkim. He spoke on the ownership of KNP and its Natural Heritage of Sikkim by the local communities. He and his NGO's work is focused on making fibres out of Nettle (Urtica sp.) by the Lepcha community, a site-specific traditional ecological activity. This activity vividly evolved with the landscape and it became more evident as he explained the entire process. The nettle grows commonly in the mountain slopes so the primary ingredient is readily available. The process requires the dry Nettle fibres to be rinsed thoroughly in running water which is done on the torrential mountain streams. The Nettle fibres then mixed with a particular type of clay which is found near the village and kept for drying for one week. The dried fine clay then removed and threads are hand made by spinning the spindle. These threads are extremely strong and durable, so much so that in older days the Lepcha worrier's battle dress use to be prepared with them. Mr Ugen and his NGO is making sure that this traditional practice endures the test of time and doesn't get lost and this traditional practice can also provide livelihood to the local community as well. He and his NGO not only teaching the newer generation this practice but also helping them in the marketing of their product. In addition, the byproducts of the process also has various usage in the community such as the dried nettle leaves are used for livestock feeding, nettle wash water are used as disinfectant and handwash, and all other leftover of the product can be used as manure. Mr. Ugen showed a bag that is made of this traditionally produced fabric. A similar bag was gifted to the finance minister of the state as a proof of its durability and to experience it firs hand and he also mentioned about his strategies to bring this traditional practice in main stream. He mentioned that it is only by practicing the traditional ecological practices, like this one, the local communities can fully embrace and own the biodiversity of the Heritage Site, KNP.



After lunch and a group photo session, Dr. Vivek Sarkar presented on the Outstanding Universal Values (OUV), Criteria, and World Heritage Sites. He used a small movie to initiate a discussion on the World Heritage Convention, emphasizing the value of heritage and the principles of OUVs. Criteria iii, vi, vii, and x were explained with specific reference to the values held by KNP. The interactive session aimed to deepen participants' understanding of the OUVs and the impacts of the World Heritage Convention, concluding with a screening of a short film highlighting its impact.



The final session of the day was led by Mr. Lakpa Tenzing Sherpa, a renowned birdwatcher from Sikkim. He highlighted the crucial roles of birds in the ecosystem, discussed local bird diversity, and provided insights into birdwatching. The session concluded with an announcement that a birdwatching session would commence at 6:00 am the following day, October 2, 2023.



The vote of thanks is given by Mr. Karma Wangyal Lepcha, DFO (KNP) at the end of the programme.



Day 2: (02-10-2023)

The day started with a birdwatching session where students got to know about the bird identification skills, not only by observing them but also by the calls. 18 species of birds were observed.



The second activity was visiting Lachen Monastery and having a cleanliness drive which went on till afternoon.





There were no heavy activities kept for the second day as there was a tough 11km high altitude trek for the third day.

Day 3: (03-10-2023)

Third day the trek started from a point beyond Thangu. The trek goes to high altitude alpine plateau from the side of the Tangu-Gurudongmar road and goes to the other side called Lahsar valley. The scenic beauty of the valley is the testimony to the beauty of KNP. Interesting sightings are Marmots, Blue Ships and Himalayan Wiesel.



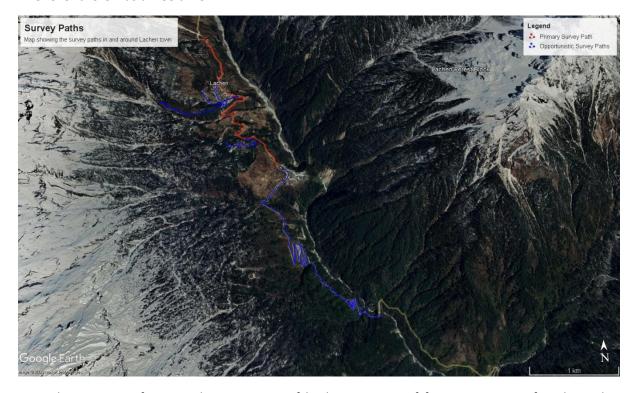




On the 3rd of October, 2023, Sikkim encountered a flash flood caused by the collapse of a glacier lake, resulting in severe disruptions to essential services, including road and mobile connectivity, as well as activities related to the ongoing World Heritage Volunteer Programme.

Opportunistic biodiversity documentation:

From the evening of 30th September to the morning of 12th October, all the fauna that are encountered were documented and an inventory was prepared in a personal capacity. A visual encounter search was conducted from September 30 to October 12, 2023. The same road *viz.* from northern most bridge of Lachen to the Chaten town was surveyed on foot everyday between 1900 hrs to 2100 hrs. Subsequently, we also noted the number of animal encountered. The systematic part of the survey was conducted within a 4.25 km stretch of road (from the northernmost bridge of Lachen to Chaten town); in addition to 10.69 km of treks and roads covered opportunistically whenever there was a free time.



In total, 6 species of Mammals, 91 species of birds, 2 species of frogs, 1 species of snake and 8 species of butterflies were recorded. In Mammals (annex-1), the red panda was directly sighted on 1st October morning, feeding on new bamboo shoot. However, images could not be taken due to poor lighting condition and dense cloud/mist. Marmot, Pika and blue sheep was observed on 3rd October at the alpine meadow of Lashar Valley. Signage such as scratch marks and fresh scats of Clouded Leopard was observed at the upper part of the Lachen, in a thick and contiguous rhododendron forest. An unknown species of Shrew was also observed at the smaller drainages of Lachen town. In birds total of 91 species (annex-2) were recorded including rare species like Great Parrotbill and Brown Parrotbill. Stonechat and Brown Bullfinch was not recorded from Lachen (according to EBird) which got recorded for the first time. Only one species of snake was recorded, *Trachischium guentheri*. A total of 25 individuals of *Trachischium guentheri* were encountered from the study site between 2549 - 2918 m asl. Out of them, 2 were alive and rests were road kills. Two species of frogs (annex-4), Annandale's Paa Frog and Sikkim Paa Frog was recorded. The finding of

Annandale's Paa Frog has confirmed and validated its occurrence in Sikkim. In cicadas, although Ringing Bell Cicada (*Dundubia hastata*) and *Pycna repanda* were observed on the way to lichen but in Lachen *Tibeta zenobia* was recorded. This species has been observed even in Thangu and Lashar Valley. This is the first ever record of cicada beyond 4500m ASL. Eight species of Butterflies (annex-6) were spotted. Notable mention was a species of Royal (*Tajuria* sp.) as this genus has not been recorded beyond 3000 m ASL.

Annexure-1

List of Mammals

SI.	Common	Scientific	IUCN Status	Location	Note
No	Name	Name			
1	Red Panda	Ailurus fulgens	Endangered	Above Lachen. At the edge of the treeline. At 3112m	Direct sighting, Could not be photographed
2	Clouded Leopard	Neofelis nebulosa	Vulnerable	Above Lachen. In the Rhododendron forest. At 2820m	Scat and scratch mark observed.
3	Himalayan Marmot	Marmota himalayana	Least Concern	Alpine meadows of Lashar Valley	Many dens were observed in the valley. 8 individuals sighted and two of them photographed. All of them had visibly high body fat which shows they were well prepared for winter.
4	Blue Ship	Pseudois nayaur	Least Concern	Alpine meadows of Lashar Valley	as many as 25 individuals were observed. Range Officer, Dzongu, Mr. Tenzing Lepcha photographed them.
5	Sikkim Pika	Ochotona sikimaria	Not Evaluated	almost everywhere	This was earlier considered as a subspecies of Moupin Pika and in 2016 described as a different species. As of now, it's endemic to Sikkim only.
6	Shrew				Could not be identified or photographed.



Shrew Sp.



Himalayan Marmot with at the opening of its burrow.



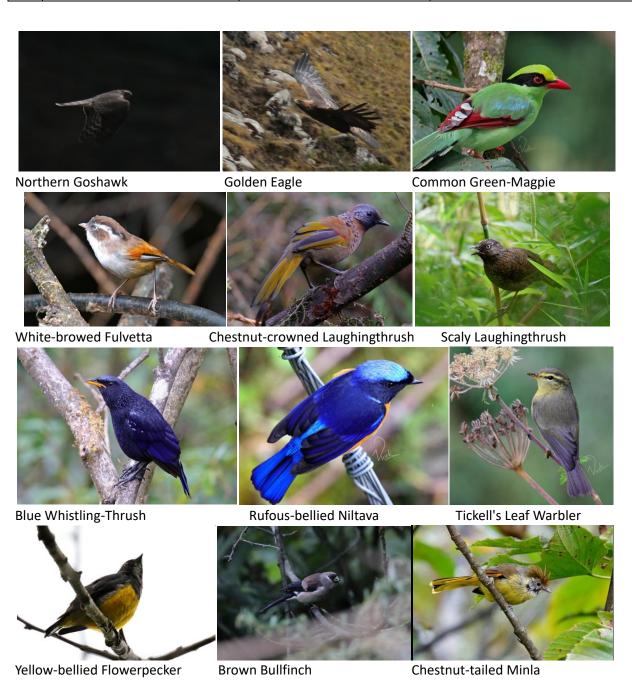
Close up of Himalayan Marmot.

Annexure-2 List of Birds

SI. No	Common Name	Scientific Name	Note
1	Kalij Pheasant	Lophura leucomelanos	saw
2	Common Kestrel	Falco tinnunculus	saw
3	Northern Goshawk	Accipiter gentilis	Photographed
4	Golden Eagle	Aquila chrysaetos	Photographed
5	Mountain Hawk-Eagle	Nisaetus nipalensis	saw
6	Solitary Snipe	Gallinago solitaria	saw
7	Blue Rock Pigeon	Columba livia	saw
8	Oriental Turtle-Dove	Streptopelia orientalis	Photographed
9	Asian Emerald Dove	Chalcophaps indica	saw
10	Little Owl	Athene noctua	saw
11	Ward's Trogon	Harpactes wardi	saw
12	Crested Kingfisher	Megaceryle lugubris	saw
13	Darjeeling Woodpecker	Dendrocopos darjellensis	Photographed
14	Long-tailed Minivet	Pericrocotus ethologus	Photographed
15	Long-tailed Shrike	Lanius schach	Photographed
16	Hair-crested Drongo	Dicrurus hottentottus	Photographed
17	Ashy Drongo	Dicrurus leucophaeus	Photographed
18	Yellow-bellied Fantail	Chelidorhynx hypoxanthus	saw
19	Yellow-billed Blue Magpie	Urocissa flavirostris	saw
20	Common Green-Magpie	Cissa chinensis	Photographed
21	Grey Treepie	Dendrocitta formosae	saw
22	Large-billed Crow	Corvus macrorhynchos	Photographed
23	Spotted Nutcracker	Nucifraga caryocatactes	Photographed
24	Red-billed Chough	Pyrrhocorax pyrrhocorax	saw
25	Yellow-billed Chough	Pyrrhocorax graculus	saw
26	Yellow-browed Tit	Sylviparus modestus	Photographed
27	Rufous-fronted Bushtit	Aegithalos iouschistos	Photographed
28	Black-throated Bushtit	Aegithalos concinnus	saw
29	Ashy Bulbul	Hemixos flavala	saw
30	Himalayan Black Bulbul	Hypsipetes leucocephalus	saw
31	Himalayan Bulbul	Pycnonotus leucogenys	saw
32	Mountain Tailorbird	Phyllergates cucullatus	Photographed
33	Chestnut-headed Tesia	Cettia castaneocoronata	saw
34	Grey-bellied Tesia	Tesia cyaniventer	saw
35	Tickell's Leaf Warbler	Phylloscopus affinis	Photographed
36	Ashy-throated Warbler	Phylloscopus maculipennis	Photographed
37	Yellow-browed Warbler	Phylloscopus inornatus	Photographed
38	Buff-barred Warbler	Phylloscopus pulcher	Photographed
39	Lemon-rumped Warbler	Phylloscopus chloronotus	saw
40	Whistler's Warbler	Phylloscopus whistleri	Photographed

42 Chestnut-crowned Warbler Phylloscopus castaniceps Photographed 43 Black-faced Warbler Abroscopus schisticeps saw 44 White-throated Laughingthrush Pterorhinus albogularis Photographed 45 Scaly Laughingthrush Trochalopteron subunicolor Photographed 46 Blue-winged Laughingthrush Trochalopteron squamatum Photographed 47 Chestnut-crowned Trochalopteron Photographed 48 Red-billed Leiothrix Leiothrix lutea Photographed 49 Chestnut-tailed Minla Actinodura strigula Photographed 50 Blue-winged Minla Actinodura strigula Photographed 51 Red-tailed Minla Actinodura cyanouroptera Photographed 52 Rufous-winged Fulvetta Schoeniparus castaneceps Photographed 53 White-browed Fulvetta Fulvetta vinipectus Photographed 54 Rufous-winged Fulvetta Fulvetta vinipectus Photographed 55 Stripe-throated Yuhina Yuhina gularis saw	41	Grey-hooded Warbler	Phylloscopus xanthoschistos	saw
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67 Scaly Thrush 68 Blue Whistling-Thrush 69 Grey-winged Blackbird 70 Himalayan Shortwing 71 Himalayan Bluetail 72 White-capped Redstart 73 Blue-fronted Redstart 74 Plumbeous Redstart 75 Black Redstart 76 Grandala 77 Stonechat/ Bushchat sp. 78 Rufous-gorgeted Flycatcher 79 Slaty-blue Flycatcher 78 Rufous-gorgeted Flycatcher 78 Rufous-gorgeted Flycatcher 78 Rufous-gorgeted Flycatcher 78 Funda Saw 78 Photographed 79 Slaty-blue Flycatcher 78 Fundala Fronted Redstart 78 Photographed 79 Slaty-blue Flycatcher 78 Fundala Fricedula tricolor 78 Photographed 78 Photographed 79 Photographed	65	Wallcreeper	Tichodroma muraria	saw
68 Blue Whistling-Thrush 69 Grey-winged Blackbird 70 Himalayan Shortwing 71 Himalayan Bluetail 72 White-capped Redstart 73 Blue-fronted Redstart 74 Plumbeous Redstart 75 Black Redstart 76 Grandala 77 Stonechat/ Bushchat sp. 78 Rufous-gorgeted Flycatcher 79 Slaty-blue Flycatcher 79 Slaty-blue Flycatcher 78 Rufous-gorgeted Flycatcher 78 Rufous-gorgeted Flycatcher 78 Flored Redstart 78 Flored Redstart 79 Flotographed 79 Slaty-blue Flycatcher 78 Flored Redstart 79 Flotographed	66	Rusty-flanked Treecreeper	Certhia nipalensis	saw
69 Grey-winged Blackbird Turdus boulboul saw 70 Himalayan Shortwing Brachypteryx cruralis Recorded 71 Himalayan Bluetail Tarsiger rufilatus saw 72 White-capped Redstart Phoenicurus leucocephalus saw 73 Blue-fronted Redstart Phoenicurus frontalis saw 74 Plumbeous Redstart Phoenicurus fuliginosus Photographed 75 Black Redstart Phoenicurus ochruros Photographed 76 Grandala Grandala coelicolor saw 77 Stonechat/ Bushchat sp. 78 Rufous-gorgeted Flycatcher Ficedula strophiata Photographed 79 Slaty-blue Flycatcher Ficedula tricolor Photographed	67	Scaly Thrush	Zoothera dauma	saw
69 Grey-winged Blackbird 70 Himalayan Shortwing 8 Brachypteryx cruralis 71 Himalayan Bluetail 72 White-capped Redstart 73 Blue-fronted Redstart 74 Plumbeous Redstart 75 Black Redstart 76 Grandala 77 Stonechat/ Bushchat sp. 78 Rufous-gorgeted Flycatcher 79 Slaty-blue Flycatcher 79 Slaty-blue Flycatcher 70 Himalayan Bluetail 70 Tarsiger rufilatus 71 Recorded 72 Saw 73 Recorded 74 Phoenicurus leucocephalus 75 saw 76 Photographed 77 Photographed 78 Rufous-gorgeted Flycatcher 78 Ficedula strophiata 79 Photographed	68	Blue Whistling-Thrush	Myophonus caeruleus	Photographed
71 Himalayan Bluetail Tarsiger rufilatus saw 72 White-capped Redstart Phoenicurus leucocephalus saw 73 Blue-fronted Redstart Phoenicurus frontalis saw 74 Plumbeous Redstart Phoenicurus fuliginosus Photographed 75 Black Redstart Phoenicurus ochruros Photographed 76 Grandala Grandala coelicolor saw 77 Stonechat/ Bushchat sp. Photographed, First record function Lachen 78 Rufous-gorgeted Flycatcher Ficedula strophiata Photographed 79 Slaty-blue Flycatcher Ficedula tricolor Photographed	69	Grey-winged Blackbird	Turdus boulboul	
71 Himalayan Bluetail Tarsiger rufilatus saw 72 White-capped Redstart Phoenicurus leucocephalus saw 73 Blue-fronted Redstart Phoenicurus frontalis saw 74 Plumbeous Redstart Phoenicurus fuliginosus Photographed 75 Black Redstart Phoenicurus ochruros Photographed 76 Grandala Grandala coelicolor saw 77 Stonechat/ Bushchat sp. Photographed, First record function Lachen 78 Rufous-gorgeted Flycatcher Ficedula strophiata Photographed 79 Slaty-blue Flycatcher Ficedula tricolor Photographed	70	Himalayan Shortwing	Brachypteryx cruralis	Recorded
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76 Grandala Grandala coelicolor saw 77 Stonechat/ Bushchat sp. Photographed, First record f Lachen 78 Rufous-gorgeted Flycatcher Ficedula strophiata Photographed 79 Slaty-blue Flycatcher Ficedula tricolor Photographed	75	Black Redstart	• •	<u> </u>
77 Stonechat/ Bushchat sp. Photographed, First record f Lachen 78 Rufous-gorgeted Flycatcher Ficedula strophiata Photographed 79 Slaty-blue Flycatcher Ficedula tricolor Photographed	76		Grandala coelicolor	.
78 Rufous-gorgeted Flycatcher Ficedula strophiata Photographed 79 Slaty-blue Flycatcher Ficedula tricolor Photographed				Photographed, First record for Lachen
79 Slaty-blue Flycatcher Ficedula tricolor Photographed	78	Rufous-gorgeted Flycatcher	Ficedula strophiata	
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	-	· · · · · · · · · · · · · · · · · · ·		
81 Grey-headed Canary- Culicicapa ceylonensis saw Flycatcher	-	Grey-headed Canary-		

82	Dark-sided Flycatcher	Muscicapa sibirica	Photographed
83	Rufous-bellied Niltava	Niltava sundara	Photographed
84	Yellow-bellied Flowerpecker	Dicaeum melanozanthum	Photographed
85	Mrs. Gould's Sunbird	Aethopyga gouldiae	saw
86	Eurasian Tree Sparrow	Passer montanus	saw
87	Russet Sparrow	Passer cinnamomeus	saw
88	White Wagtail	Motacilla alba	Photographed
89	Rosy Pipit	Anthus roseatus	Photographed
90	Olive-backed Pipit	Anthus hodgsoni	Photographed
91	Brown Bullfinch	Pyrrhula nipalensis	Photographed, first record for
			Lachen



Annexure-3

<u>List of Reptile</u>

SI.	Common	Scientific	IUCN	Location	Note
No	Name	Name	Status		
1	Günther's	Trachischium	Vulnerable	Between	A total of 25 individuals of <i>Trachischium guentheri</i>
	oriental	guentheri		Lachen	were encountered from the study site between
	slender			to	2549 - 2918 m asl. Out of them, 2 were alive and
	snake			Chaten	rests were road kills.



Annexure-4 List of Amphibians

SI. No	Common Name	Scientific Name	Location	Note		
1	Annandale's Paa	Nanorana	Lachen	Photographed and observed to note		
	Frog	annandalii		natural history		
2	Sikkim Paa Frog	Nanorana liebigii	Lachen	Photographed.		



Annandale's Paa Frog

Sikkim Paa Frog

Annexure-5 List of cicada

SI. No	Common	Scientific Name	Location			
	Name					
1	N.A.	Tibeta zenobia	Present from Chaten to			
			Thangu. First record of cicada			
			beyond 4500m			



Tibeta zenobia

Annexure-6 List of Butterflies

SI. No	Common Name	Scientific Name	Location	Note
1	Great Satyr	Aulocera padma	Lachen	
2	Treebrown Sp	Lethe sp.	Lachen	
3	Himalayan Queen Fritillary	Issoria issaea	Upper Lachen	
4	Powdery Green Sapphire	Heliophorus tamu	Everywhere	
5	Indian Tortoiseshell	Aglais caschmirensis	Everywhere	
6	Painted Lady	Vanessa cardui	Lachen	
7	Royal Sp.	Tajuria sp.	Higher elevations of Lachen	First record of this genus beyond 3000m ASL
8	Dark Clouded Yellow	Colias fieldii	Upper Lachen	