

**Institutional Strengthening and Awareness Raising
Project for Sustainable Crocodile Conservation in Nepal**

(RSG Project: 29.10.08)

Final Report

Submitted by

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Project Name: Institutional Strengthening and Awareness Raising Project for Sustainable Crocodile Conservation in Nepal

Popular Name: Crocodile Conservation Awareness Program (CCAP)

Team leader: Bishnu Hari Wagle

Financial Support: The Rufford Small Grants Foundation, UK

Project Area: Buffer Zone Area of Chitwan National Park

Project Coverage: 15 schools and 6 VDCs in Buffer Zone area of Chitwan National Park

Website: www.rufford.org/rsg/projects/bishnu_hari_wagle_0

www.crocodilenepal.org

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Acronyms

| | |
|-------|---|
| BZ | Buffer Zone |
| CBO | Community Based Organization |
| CCAP | Crocodile Conservation Awareness Project |
| CCC | Crocodile Conservation Club |
| CITES | Convention on International Trade in Endangered Species of Wild Fauna & Flora |
| CNP | Chitwan National Park |
| DNPWC | Department of National Parks and Wildlife Conservation |
| FM | Frequency Modulation |
| HSS | Higher Secondary School |
| IUCN | International Union for the Conservation of Nature and Natural Resources |
| LSS | Lower Secondary School |
| Nrs. | Nepalese Rupees |
| PARC | Partnership for Rhino Conservation |
| RP | Resource Person |
| RSGF | Rufford Small Grants Foundation |
| SS | Secondary School |
| VDC | Village Development Committee |

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1. Background

Among the 23 species of crocodylian within its 4 families, only two species i.e., Marsh crocodile (*Crocodylus palustris*) and Gharial (*Gavialis gangeticus*) are found in Nepal.

Marsh crocodile are principally restricted to the Indian sub continent where they may be found in number of freshwater habitat types including rivers, lakes, and marshes. In India and Sri Lanka marsh crocodiles have adapted well to reservoirs, irrigation canal and manmade ponds and in some area may even found in coastal water lagoons (Whitaker 1987, Whitaker and Whitaker 1989). Historically marsh crocodile was relatively common through out the Terai of Nepal in marshy lakes, ponds and small rivers (Groombridge 1982) and now it is reduced to isolated population primarily in protected habitat such as Suklaphanta Wildlife Reserve, Koshitappu Wildlife Reserve, Bardia National Park and Chitwan National Park (Andrews and McEachern 1994).

Historically, the gharial was abundant in all the large river systems of the Indian sub-continent. Its range extended throughout the Gangetic plain, west to the Indus River in Pakistan, north and north-east to Nepal and Bhutan, east to Burma, and south to Orissa in India (Neill 1971, cited in Shrestha, 2001). The gharial is now restricted to scattered, isolated population in India, Nepal and Bangladesh. It has been reported to be extinct in Burma and Pakistan (Behura and Singh 1978, cited in Shrestha, 2001). Until the early 1960s, gharials were found in all the major river systems of Nepal, including the Mahakali, Karnali, Babai, and Rapti rivers in western Nepal, the Kali Gandaki and Narayani rivers in central Nepal and the Koshi River in eastern Nepal. By the late 1970s, there had been a drastic depletion in their abundance and distribution; in fact, the wild gharial had become extinct in the Mahakali and Rapti rivers in western Nepal and Koshi River in eastern Nepal.

The major threats faced Nepalese crocodile include human interferences, over fishing by locals, illegal collection of their eggs for food, flooding of nesting sites, pollution and construction of dams.

Gharials in Nepal are fully protected under the National Parks and Wildlife Conservation Act 1973. There is provision of punishment with a fine ranging from forty to seventy five thousand rupees, or face an imprisonment ranging from one year to ten years or both for any person who kills or injures this animal. The animal is listed as "Endangered species" in IUCN Red data book and in "Appendix-I" of CITES animal category. Similarly, the marsh crocodile is listed as a

vulnerable species in the IUCN Red Data Book and is protected by law in all the countries of its occurrence (Whitaker 1987).

To restore the rapidly dwindling population of crocodile in Nepal, breeding program was started with the establishment of Gharial Breeding Center in Kasara, Chitwan since 1978. Thus, Crocodile conservation efforts in Nepal began in 1978 when Gharial Breeding Center was established in Kasara inside the Chitwan National Park. Over the interim years, the gharial and marsh crocodiles have been bred in captivity and released in the different rivers.

Box 1 General Characteristics of Crocodilian

- All crocodilians depend upon wetland habitats and they are effective aquatic predators
- Crocodiles are cold blooded and have a body temperature similar to the surrounding air, land or water
- At smaller sizes they often eat aquatic insects, small fish and crustaceans and as they grow larger they tend eat more vertebrates, including fish, turtles, birds and mammals. Crocodiles have a tendency to retain hard, indigestible objects in their stomach and most crocodiles over two meters long have been found to have stones in their stomach. It is believed that the stones are used as gastroliths (to aid in grinding up food) and that they also may function as ballast (just as in a ship's hull).
- Crocodiles attempt to maintain their body temperature within narrow limits by basking in the sun when cool and seeking shade when hot.
- They are metabolically efficient and have fast reflexes and effective locomotors ability on land, where they walk on erect legs, and in the water, where they swim rapidly driven by their powerful tails.
- Crocodilians have complex behaviours including social interactions, dominance hierarchies, and vocalization, coordinated feeding, and well developed maternal behaviour.
- Females deposit from 10 to over 60 hard-shelled eggs into a nest which is either a hole dug into the ground, or into a mound of vegetation formed by the female. Most females remain near their nest during incubation and may protect it from predators. Upon hatching, vocalizations made by the hatchlings induce the female to assist the hatchlings to emerge, and in some cases to carry the tiny babies to the water in her mouth. Hatchlings remain together near the mother for several months, deriving protection from her.
- As they grow and become more widely dispersed and independent, a large number of the offspring perish—some eaten by other crocodilians.
- The survivors reach maturity after a period of 5–15 years depending on the species.
- Females grow more slowly and reach maturity at a smaller size than males, who continue growing and usually exceed females in maximum size. Crocodilians can be long lived in the wild and there are records of particular individuals residing for decades at some locations.
- Adults of several species emit loud vocalizations during the breeding season

Despite successful captive breeding and release of crocodile in the natural river system in Nepal, there have been limited attempts to educate people on values of maintaining riverine habitat and the important link crocodiles play in healthy wetland ecosystems (Andrews, H.V. and P.

McEachern, 1994). Intensive fishing has reduced food levels and fishermen view them as competitor. They become entangled in nets and either drown or was killed. Subsequently, perception of tribal people about medicinal values of crocodile led to egg collection and slaughter of crocodiles remain continued. Habitat degradation along floodplain and river banks due to intensive agricultural practices led to further depletion of habitat required to sustain viable crocodile populations in Nepal. On that situation, awareness raising activities were implemented in the targeted communities and school students through the RSG project: Crocodile Conservation Awareness Project (CCAP). As a result of first RSG project (CCAP), students of different schools became active in conservation and were organized through formation of Crocodile Conservation Clubs. To keep their spirit live and strengthen the initiatives of CCAP second RSG project was extended and implemented in the local communities and 15 different schools which are located in 6 different VDCs of the buffer zone area of Chitwan National Park.

Box 2: Importance of Crocodile

Crocodiles are important for several aspects, such as their existence indicates the healthy aquatic ecosystem and their hide and meat has a big commercial value (Whitaker 1987). As a “keystone species” crocodile maintain structure and function in aquatic ecosystem by their activities (King 1988). These ecological roles include selective predation on fish species, recycling of nutrients and maintenance of wet refugia during drought season. Crocodiles are very important to the river ecosystem and to humans. They contribute to the health of the ecosystem and biodiversity. They are the top predator and as such are an essential part of the biodiversity of these habitats ((Rashid, 2003, cited in Deppert, 2004). They prey on the slow moving predatory fish thus removing the diseased individuals, thereby maintaining good stocks of commercially valuable fish in any water body. Few studies done in Africa, Australia and America indicate that the presence of crocs in a water system actually boosted fish stocks (Deppert, 2004). A loss of any species of crocodilian would represent a significant loss of biodiversity, economic potential and ecosystem stability (IUCN, 1998). Crocodiles are called the indicators of a clean aquatic environment for a very good reason. Without the mugger or the gharial in the wild we lose so much. These crocodiles feed on the weak and sick fish keeping the fish population strong and healthy. They also keep the water clean and uncontaminated by scavenging on dead animal matter. Without the crocodiles in the water systems, the larger predator fish will eat the smaller commercially important fish, resulting in a smaller population of fish for the fishermen. The crocodiles will eat the larger predator fish thereby allowing a greater population and commercial catch of fish in the river.

2. Objectives

- Institutional strengthening of Crocodile Conservation Clubs (CCCs)
- Expansion of awareness raising activities in boarder areas & formation of CCCs in five additional schools
- Publication and distribution of educational and awareness raising materials
- Dissemination of efforts and issues of crocodile conservation in Nepal

3. Activities

3.1 School selection

The project activities were implemented in 15 schools of the buffer zone area of CNP. Among the selected schools, 9 were those previously selected during first RSG. Additional six schools were selected after discussion with park staff and key informants; and direct observations. Nearness of the school from habitat of crocodile and dependency of the local community on the habitat are major criteria of selection. Thus, the following schools were selected from six different VDCs inside the Buffer Zone area of Chitwan National Park:

1. Adarsha Higher Secondary School, Divyanagar
2. Bluebird English Boarding School, Jagatpur
3. Janajyoti Padam Narayan Dharmakumari Malla HSS, Sukranagar
4. Janaki Higher Secondary School, Megghauli
5. Laxmi Secondary School, Jagatpur
6. Madi Secondary School, Basantapur
7. Prabhat Higher Secondary School, Sukranagar
8. Saraswati Secondary School, Jeetpur
9. Saraswati Secondary School, Megghauli
10. Shajhapur Secondary School, Megghauli
11. Shree Motherland Boarding School
12. Shree Rastriya Lower Secondary School,
13. Siddhartha Lower Secondary School, Jagatpur
14. Someshwor Higher Secondary School, Gardi
15. Vidya Jyoti English School, Baruwa

3.2 Crocodile Conservation Club (CCC) renewal/formation

As most of the members of Crocodile Conservation Club (CCC) formed during first RSG project passed out from their respective schools, the CCCs were reformed in those schools. Similarly, the CCCs were formed in additional 6 schools. Hence, students were organized in conservation initiatives in 15 different schools of the area. The headmasters, teachers and members of previously formed CCCs facilitated the process of club formation. The club members varied from 9 to 17 in number and comprised balanced teams of boys and girls; and the students from different classes as well. Name list of the club members of each school have been presented in annex 1.

3.3 School teaching and leadership development training

School teaching program was organized in each school where students were provided knowledge about the role of crocodile as a key stone species and the issues of their conservation through the classroom activities. Lecture and group discussion methods were used to deliver the information/knowledge of conservation.

Leadership development trainings were organized in each school for the members of CCCs. The major contents of the training modules are:

- Structure and importance of school based conservation club
- Role of headmaster as an advisor
- Roles and responsibilities of guide teacher
- Potential activities of conservation clubs
- Role and responsibilities of President, Vice-president, Secretary, Joint-secretary, Treasurer and Members of conservation club
- Role and responsibilities of Wall magazine publication sub-committee
- Meeting of conservation club
- Financial management and its areas- fund generation, mobilization and record keeping
- Linkage/relationship of Conservation club with other organizations
- Proposal development
- Program management
- Report generation

3.4 Oratory (speech) competition

To increase the interest of students in project activities and strengthen their knowledge and skills on disseminating of conservation message, an Oratory competition entitled "Today's need for crocodile conservation" was organized on 9th March, 2010 . The program was held at Laxmi Secondary School where 13 students



of 12 different schools expressed their views on the topic and explored the issues among. Name list of the students participated in the event is presented in Annex 2 and the top students awarded with prize and a certificate is :

| S.N. | Name of student | School | Rank |
|------|-------------------|---------------|--------|
| 1 | Manoj Thapa | Prabhat HSS | First |
| 2 | Navaraj Bhattarai | Someshwar HSS | Second |
| 3 | Sita Neupane | Sajhapur SS | Third |
| 4 | Subhadra Sapkota | Laxmi HSS | Fourth |

3.5 Essay Competition

Inter school essay competition entitled "Crocodile Conservation in Nepal" was organized on the occasion of Vijaya Dashami (the greatest festival in Nepal). The essays were collected from different schools along with the letter from school to certify that the essay was written by the respective student. Those essays were evaluated by a team of experts. Among the 21 participants from 11 different schools, top four essays were awarded with prizes and letter of certificates.

Name list of the students participated in the competition is presented in annex 3 and followings were the top four students.

| S.N. | Name of student | School | Rank |
|------|------------------|------------------------|--------|
| 1 | Sagar Lamichhane | Someshwar HSS | First |
| 2 | Dipendra Paudel | Saraswati SS, Meghauli | Second |
| 3 | Amar Gongga | Siddhartha SS | Third |
| 4 | Tirtha Kandel | Saraswati SS, Jagatpur | Fourth |

3.6 Exposure visit

An exposure visit was organized for the students where 45 students of different schools got opportunity to see the breeding center's activities and crocodile in its natural habitats around Rapti river. The major places visited were:



- Museum at the headquarter of Chitwan National Park,
- Gharial Breeding Center at Kasara inside Chitwan National Park and
- Surrounding of Rapti River which is the main natural habitat and release site of crocodile in Nepal.

At the breeding center, a class was organized for the students to describe the breeding center's activities where Bishnu Hari Wagle, team leader of CCAP and Prem Chapagain of Gharial Breeding Center clarified the queries of the students.

The name list of the students participated in field visit is presented in annex 4.

3.7 Notice board distribution

During the first RSG project, CCAP had distributed 10 notice boards in different schools where projects activities were concentrated. Those boards are found very useful to publish and paste news including conservation related messages as



they provide secured space for the purpose. During the second RSG project, 6 additional boards were prepared and distributed to those schools where conservation activities were extended during this second RSG project. CCCs have fixed those boards in an appropriate place of the respective schools.

3.8 Wall Magazine Publication at School

Altogether 45 wall magazines were published by the 15 crocodile conservation clubs in each school



where students expressed the message of conservation through their article, song, poem and other creation. Members of each CCC directly involved in publishing the wall magazines in their school (one magazine in every three months). Thus, wall magazine served as an extension material among the school students and teachers. Students got opportunity to share the information among their friends and teachers through the magazine.

3.9 Awareness raising materials production/distribution/exhibition

3.9.1 Wall calendar

The individuals or organization(s) use to hang a wall calendar with great interest at least for a year and it has been found as an effective tool for information dissemination/sharing. On the occasion of Nepalese New Year 2066 B. S., one thousand copies of wall calendars were published and distributed at free of cost to the local people, students, teachers and different relevant governmental and non-governmental organizations in Nepal. The calendar has 4 pages and each page contains three months. The 50% area in each page has been occupied by the pictures and message of conservation and remaining area is occupied by national/local festivals, holidays, national and international days. The green days (different conservation days) are highlighted. Some of the photographs of activities during the first RSG project are also printed to aware and motivate the people to participate on (crocodile) conservation initiatives. The RSGF logo along with the contact detail of team leader has also been published.



3.9.2 Brochure

1500 copies of brochure were published to disseminate the issues and importance of crocodile conservation especially among the local community. The brochure contains the introduction and importance of Gharial



and Mugger Crocodile; Challenges of their conservation, conservation initiatives of Gharial Breeding Center, CCAP etc and so on. Most of the brochures were distributed among school students, local people, CBOs etc through CCC. Similarly those were distributed to relevant GOs and I/NGOs as well.

The two pages brochure contains basic introduction and importance of Gharial and Mugger Crocodile along with their conservation status; highlights activities of Gharial breeding center, Kasara and crocodile conservation awareness program (CCAP). The support of RSGF was duly acknowledged and its logo was printed in the brochure.



3.9.3 Pamphlet

The pamphlets published during the first RSG project with message for joining hands to make the crocodile conservation effort successful were distributed and displayed in the relevant public areas. During this project period, those were also distributed to the different related organizations so that they can display and distribute to other relevant organizations and individuals.

3.9.4 Conservation Copy

The remaining stock of exercises copies with the message of conservation in front and back page produced by the CCAP and PARC during first RSG project were distributed in this period as well. Those were used as a part of stationeries and were also distributed for the students from the poor family background who are especially more dependent on the natural resources of the park and its surroundings.



3.10 Review Meeting

A review meeting was arranged to share and analyze the current initiative of crocodile conservation at schools and to identify the ways to promote the local participation in conservation initiatives. Representatives of school teachers,

CBOs and park officials actively participated in different sessions of the meeting. Major findings and recommendations of the review meetings are summarized as below:



- School should have to envisage sustainability of the club and its activities
- Teachers should be regularly instilled on conservation issues. School education program should be implemented by including it in the curriculum and also as extra-curricular activities, competitions.
- It would be more beneficial if community people are also invited in activities of the school based conservation clubs.
- As the schools that are performing conservation related activities do not have sharing mechanism to get improved, network of the schools on conservation would be helpful to build up efficacy and self-sustained capacity.
- Local community based organizations are sustainable source to conduct conservation activities in the school and in the society. Therefore role of CBOs to promote school conservation education have to be identified and explored.

3.11 Renew and update of website

The website www.crocodilenepal.org was registered 2007 from Pokharacity.com at Pokhara, Nepal. This website is being renewed annually and updated periodically.

The website contains useful information about the crocodiles found in Nepal and their conservation efforts and issues.



Many students, researchers, organizations etc have acknowledged the website as being very useful and informative to them.

4. Project in Media

The news of the project activities were broadcasted from the local FM radio in Chitwan (Synergy FM and Kalika FM) and Nawalparasi (Bijaya FM). Similarly, an interview with the team leader

(Bishnu Hari Wagle) was broadcasted from the Annapurna FM Radio of Pokhara, Nepal. The interview was of 15 minute duration where 3 RSG recipients described about their project activities and the species concerned. Besides this, news of the project activities were published in Chitwan post, a daily magazine published from Chitwan, Nepal.

5. Outputs and Success of the Project

The outputs of the project have been summarized in the following table. Success of the project has been evaluated by the indicators of success.

| S. N. | Output | Activities | Indicator (and/or means of verification) |
|-------|---|---|---|
| 1 | Students of 15 different schools inside the BZ area of CNP are organized for crocodile conservation | CCC formation in 15 different schools inside BZ area of CNP | Name list of club and club members Minute book of the club Participation of students in project activities |
| 2. | Awareness level of students on conservation and leadership capacities of school students and teachers increased | Teaching and leadership development trainings in 15 schools 45 Wall magazine publication 1 Speech Competition 1 Essay Competition Publication and Distribution of awareness raising materials | Report Hardcopy and Photograph of the magazine Commitment of students; Conservation message expressed by students in magazine, essay, speech competition Number of participants in field visits, speech/essay competition, |
| 3 | Awareness of the local community of six different VDCs of BZ area of CNP increased for crocodile conservation | Awareness raising materials displayed and distributed to the community | Commitment of the local leader/people Hardcopy and photographs of calendar, brochure, conservation copy and pamphlet |
| 4 | Worldwide availability of information on efforts/issues of crocodile conservation in Nepal | Website development and hosting | Website: www.crocodilenepal.org Information available in the website Response from different national and international organization |

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ANNEXES

Annex 1: Name List of Club Members

| | | |
|---------------------|---|---------------|
| School Name: | Prabhat Higher Secondary School | |
| Club Name: | Prabhat Crocodile Conservation Club | Class |
| President | Roshan Nepali | 9A |
| Vice-president | Dil Kumari Sapkota | 10A |
| Secretary | Tilak Tamang | 10C |
| Joint-secretary | Kamala Rijal | 9B |
| Treasurer | Sanjita Tiwari | 8B |
| Member | Manoj Thapa | 10B |
| Member | Mitralal Pariyar | 8A |
| Member | Prakash Shrestha | 7A |
| Member | Kiran Adhikari | 7B |
| Member | Chakrapani Dawadi | Guide Teacher |
| School Name | Siddhartha Secondary School | |
| Club Name | Siddhartha Crocodile Conservation Club | Class |
| President | Amar Gongwa | 9 |
| Vice-President | Dinesh Tamang | 8 |
| Secretary | Sabina Dhungana | 9 |
| Joint-Secretary | Yuvaraj Bastola | 7 |
| Treasurer | Sarita Ghale | 8 |
| Member | Laxmi Shahi | 7 |
| Member | Rupa Sunar | 7 |
| Member | Rajendra Puri | 6 |
| Member | Kamala Thinga | 6 |
| | Narayan Prasad Dawadi | Guide Teacher |

| School Name | Laxmi Higher Secondary School | |
|--------------------|--|---------------|
| Club Name | Laxmi Crocodile Conservation Club | Class |
| President | Ramesh B. K. | 9 |
| Vice-President | Saraswati Thakur | 8 |
| Secretary | Akash Paudel | 9 |
| Joint-Secretary | Jamuna Paudel | 9 |
| Treasurer | Divya Acharya | 8 |
| Member | Anshu Adhikari | 8 |
| Member | Subhadra Sapkota | 9 |
| Member | Ashok Karki | 8 |
| Member | Alisha Ghatane | 7 |
| Member | Suman Aryal | 7 |
| Member | Amit Shrestha | 7 |
| Member | Raju B. K. | 7 |
| Member | Sangita Lama | 6 |
| Member | Akelesh Thakur | 11 |
| | Sukracharya Ghimire | Guide Teacher |

| School Name | Blue Bird English Boarding School, Jagatpur | |
|--------------------|--|--------------|
| Club Name | Blue Bird Crocodile Conservation Club | Class |
| President | Rachana Baral | 9 |
| Vice-President | Anil Chitaure | 8 |
| Secretary | Sanoj Shrestha | 9 |
| Joint-Secretary | Navin B. K. | 7 |
| Treasurer | Nishan Puri | 8 |
| Member | Madhav Chalise | 9 |
| Member | Bishal Nepali | 7 |
| Member | Sudhan Bhushal | 7 |
| Member | Raksha Adhikari | 8 |

| School Name | Shree Madarland Boarding School | |
|--------------------|--|--------------|
| Club Name | Madarland Crocodile Conservation Club | Class |
| President | Bishal Adhikari | 8 |
| Vice-President | Ledisa Mahato | 5 |
| Secretary | Nirajan Mahato | 9 |
| Joint-Secretary | Roshan Godar | 7 |
| Treasurer | Sophiya Mahato | 7 |
| Member | Suman Gurung | 9 |
| Member | Rajkumar Surkheti | 6 |
| Member | Saru Subedi | 6 |
| Member | Soni Pokharel | 8 |
| Member | Bibek Sunar | 5 |
| Member | Bishal Tamang | 5 |

| School Name | Sarwaswati Secondary School | |
|--------------------|---|---------------|
| Club Name | Sarwaswati Crocodile Conservation Club | Class |
| President | Baburam Rokka | 9 |
| Vice-president | Nasib Sapkota | 8 |
| Secretary | Nirajan Rijal | 9 |
| Joint-secretary | Pratima Kunwar | 9 |
| Treasurer | Kamala Gole | 8 |
| Member | Manjila Lama | 9 |
| Member | Samjhana B. K. | 8 |
| Member | Alok Babu Pariyar | 8 |
| Member | Punam B. K. | 7 |
| Member | Akash Thapa | 7 |
| Member | Bikash Nepali | 7 |
| | Baburam Dhamala | Guide Teacher |

| | | |
|--------------------|--|--------------|
| School Name | Shree Rastriya Lower Secondary School | |
| Club Name | Rastriya Crocodile Conservation Club | Class |
| President | Anita Khanal | 8 |
| Vice-president | Bikash Pandey | 8 |
| Secretary | Alisha Mahato | 8 |
| Joint-secretary | Arjun Majhi | 7 |
| Treasurer | Saraswati Kshetri | 7 |
| Member | Kiran Mahato | 8 |
| Member | Pratima Chaudhari | 8 |
| Member | Pratima Paudel | 6 |
| Member | Bhisma Kumal | 6 |
| Member | Shruti Adhikari | 6 |
| Member | Nisha Mahato | 5 |
| | Shiva Prasad Paudel | GuideTeacher |

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|--------------------|---|--------------|
| School Name | Janajyoti Padam Narayan Dharmakumari Malla HSS | |
| Club Name | Janajyoti Padam Narayan Dharmakumari CCC | Class |
| President | Shiksha Subedi | 9 |
| Vice-president | Suraj Dhungana | 9 |
| Secretary | Dilu Moktan | 8B |
| Member | Pratap Thapa | 8A |
| Member | Yamuna Maske | 8A |
| Member | Bijaya Mahato | 8B |
| Member | Gita Thapa | 7 |
| Member | Keshav Pariyar | 7 |
| Member | Suresh Bastola | 6 |
| Member | Sujata Paudel | 6 |

| | | |
|--------------------|--|---------------|
| School Name | Saraswati Secondary School, Jeetpur | |
| Club Name | Saraswati Crocodile Conservation Club | Class |
| President | Dina Sunar | 9A |
| Vice-president | Raju Kumal | 8B |
| Secretary | Basu Parajuli | 9B |
| Joint-secretary | Mintu Subedi | 8B |
| Treasurer | Minu Kumal | 8A |
| Member | Majoj Kumal | 7A |
| Member | Sima Subedi | 7B |
| Member | Pabitra Kumal | 6B |
| | Rajendrashali Ghimire | Guide Teacher |

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|--------------------|---|--------------|
| School Name | Sajhapur Secondary School | |
| Club Name | Sajhapur Crocodile Conservation Club | Class |
| President | Rajesh B. K. | 10B |
| Vice-president | Laxmi Thapa Magar | 8B |
| Secretary | Sita Neupane | 9A |
| Joint-secretary | Bishnu Sapkota | 6 |
| Treasurer | Muna Pageni | 10A |
| Member | Umesh Paudel | 10A |
| Member | Radha Mahato | 10B |
| Member | Alisha Malla | 9B |
| Member | Krishna Adhikari | 9B |
| Member | Rajesh Mahato | 9B |
| Member | Sunil Mahato | 8A |
| Member | Shanti Gautam | 8B |
| Member | Madhusudan Dhakal | 7 |
| Member | Santosh Neupane | 7 |
| | Ishori Bhandari | GuideTeacher |

| School Name | Janaki Higher Secondary School | |
|--------------------|---|--------------|
| Club Name | Janaki Crocodile Conservation Club | Class |
| President | Madan Aryal | 9A |
| Vice-president | Jivan Bote | 9B |
| Secretary | Dilu Chaudhari | 9A |
| Treasurer | Basanti Thapa | 8B |
| Member | Bijaya Dhungana | 9A |
| Member | Pratima Adhikari | 9B |
| Member | Alisha Shrestha | 9C |
| Member | Ashwin Gurung | 9C |
| Member | Dipendra Mahato | 8A |
| Member | Apsara Pathak | 8A |
| Member | Abinash K.C. | 8B |
| Member | Dilmaya Khatri | 7A |
| Member | Sudhan Paudel | 7A |
| Member | Milan Dhakal | 7B |
| Member | Sumina Neupane | 7B |
| Member | Om Prakash Mahato | 6A |
| Member | Kalpana Lamichhane | 6A |

| School Name | Shree Adarsha HSS | |
|--------------------|--|--------------|
| Club Name | Adarsha Crocodile Conservation Club | Class |
| President | Prakash Paudel | 9A |
| Vice-president | Bibash Gurung | 8A |
| Secretary | Sarmila Adhikari | 9B |
| Joint-secretary | Manish Paudel | 8A |
| Treasurer | Bibek Adhikari | 9B |
| Member | Bikash B. K. | 9B |
| Member | Pratima Bhandari | 9A |
| Member | Sarmila Mahato | 9B |
| Member | Junu Subedi | 8A |
| Member | Bishnu Gaudel | 9A |
| Member | Yamkala Tamang | 9A |

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|--------------------|--|---------------|
| School Name | Shree Adarsha HSS | |
| Club Name | Adarsha Crocodile Conservation Club | Class |
| Member | Srijana Gauchan | 8A |
| Member | Kabita Subedi | 8B |
| Member | Sobit Adhikari | 8B |
| Member | Shree Krishna Pudasaini | 8B |
| Member | Sandip Ranabhat | 8B |
| Member | Phulmaya Pariyar | 7 |
| Member | Ramchandra Adhikari | Guide Teacher |

| | | |
|--------------------|--|---------------|
| School Name | Someshwor Higher Secondary School | |
| Club Name | Someshwor Crocodile Conservation Club | Class |
| President | Yogesh B. K. | 9 |
| Vice-president | Santaya Bote | 8 |
| Secretary | Sangita Dhakal | 9 |
| Joint-secretary | Govinda Bote | 9 |
| Treasurer | Balram Chapagain | 8 |
| Member | Renuka Bhattarai | 9 |
| Member | Prava Kafle | 8 |
| Member | Binod Bote | 7 |
| Member | Pabitra Dawadi | 7 |
| Member | Uma Mahato | 7 |
| Member | Roshan Nepali | 7 |
| Member | Surya Bhushal | Guide Teacher |

| | | |
|--------------------|--|--------------|
| School Name | Madi Secondary School, Basantapur | |
| Club Name | Madi Crocodile Conservation Club | Class |
| President | Alina Mahato | 9A |
| Vice-president | Shanti Pande | 9B |
| Secretary | Kiran Paudel | 8A |
| Joint-secretary | Dipendra Sunar | 8B |
| Treasurer | Parvati Mahato | 9C |
| Member | Govinda Mahato | 9D |

| | | |
|--------------------|--|---------------|
| School Name | Madi Secondary School, Basantapur | |
| Club Name | Madi Crocodile Conservation Club | Class |
| Member | Susmita Kshetri | 7A |
| Member | Buddi Sagar Pokhrel | 7B |
| Member | Likharaj Mahato | 7C |
| Member | Taranath Chapagain | Guide Teacher |

| | | |
|--------------------|---|---------------|
| School Name | Vidhya Jyoti English School, Baruwa Madi | |
| Club Name | Vidya Jyoti Crocodile Conservation Club | Class |
| President | Shiva Paudel | 8 |
| Vice-president | Sushma Mahato | 9 |
| Secretary | Hari Kumar Mahato | 9 |
| Joint-secretary | Ajaya Mahato | 8 |
| Treasurer | Sirjana Paudel | 8 |
| Member | Rohit Paudel | 9 |
| Member | Sunil Ghale | 7 |
| Member | Barsha Mahato | 7 |
| Member | Anjali K. C. | 7 |
| Member | Tulasi Ram Pande | Guide Teacher |

Annex 2: Name list of students participated in Speech competition

| S. N. | Name | School |
|--------------|-------------------|--|
| 1 | Baburam Rokka | Saraswati SS, Meghauli |
| 2 | Dina Sunar | Saraswati SS, Meghauli |
| 3 | Jamuna Paudel | Laxmi HSS |
| 4 | Jeevan Bote | Janaki HSS |
| 5 | Madan Aryal | Janaki HSS |
| 6 | Manoj Thapa | Prabhat HSS |
| 7 | Navaraj Bhattarai | Someshwar HSS |
| 8 | Parvati Mahato | Madi SS |
| 9 | Sabina Dhungana | Siddhartha SS |
| 10 | Sita Neupane | Sajhapur SS |
| 11 | Subhadra Sapkota | Laxmi HSS |
| 12 | Suraj Dhungana | Janajyoti Padam Narayan Dharmakumari Malla HSS |
| 13 | Tilak Tamang | Prabhat HSS |

Annex 3: Name list of students participated in essay competition

| S. N. | Name | School | Class |
|--------------|---------------------|--|--------------|
| 1 | Binita Paudel | Janajyoti Padam Narayan Dharmakumari Malla HSS | 8A |
| 2 | Amar Gongga | Siddhartha SS | 9 |
| 3 | Bikas Pandey | Rastriya LSS | 8 |
| 4 | Bikash Bhusal | Madi SS | 10 C |
| 5 | Bikash Ghalan | Siddhartha SS | 9 |
| 6 | Bishnu Bastola | Siddhartha SS | 9 |
| 7 | Deepak Lamsal | Saraswati SS, Jagatpur | 10 |
| 8 | Deepak Raj Adhikari | Janajyoti Padam Narayan Dharmakumari Malla HSS | 10 |
| 9 | Dipendra Paudel | Saraswati SS, Meghauli | |
| 10 | Harka Raj Khatri | Saraswati SS, Jagatpur | 9 |
| 11 | Kamal Kafle | Janaki HSS | 10A |
| 12 | Madan Aryal | Janaki HSS | 9 |
| 13 | Muna Pageni | Sajhapur SS | 10A |
| 14 | Nabina Neupane | Prabhat HSS | 9A |
| 15 | Navaraj Bhattarai | Someshwar HSS | 10A |
| 16 | Rajesh B. K. | Sajhapur SS | 10B |
| 17 | Ramesh B. K. | Laxmi HSS | 9 |
| 18 | Sagar Lamichhane | Someshwar HSS | 9A |
| 19 | Saroj Khanal | Saraswati SS, Jagatpur | 10 |
| 20 | Subas Subedi | Prabhat HSS | 10A |
| 21 | Tirtha Kandel | Saraswati SS, Jagatpur | 9A |

Annex 4: Name list of students participated in field visit

| | | |
|----|------------------|-----------------------------------|
| 1 | Akelesh Thakur | Laxmi HSS |
| 2 | Alina Mahato | Madi SS |
| 3 | Alisha Shrestha | Janaki HSS |
| 4 | Amar Gongwa | Siddhartha SS |
| 5 | Anjali K. C. | Vidhya Jyoti English School |
| 6 | Barsha Mahato | Vidhya Jyoti English School |
| 7 | Basanti Thapa | Janaki HSS |
| 8 | Basu Parajuli | Saraswati SS, Jeetpur |
| 9 | Bijaya Timilsina | Janaki HSS |
| 10 | Bikash Pandey | Shree Rastriya Lower SS |
| 11 | Dina Sunar | Saraswati SS, Jeetpur |
| 12 | Dinesh Tamang | Siddhartha SS |
| 13 | Govinda Bote | Someshor HSS, Baruwa Madi |
| 14 | Junu Subedi | Shree Adarsha HSS |
| 15 | Kamala Thinga | Siddhartha SS |
| 16 | Kiran Adhikari | Prabhat HSS |
| 17 | Ledisa Mahato | Shree Madarland Boarding School |
| 18 | Likharaj Mahato | Madi SS |
| 19 | Madhav Chalise | Blue Bird English Boarding School |
| 20 | Manish Paudel | Shree Adarsha HSS |
| 21 | Manjila Lama | Sarwaswati SS |
| 22 | Manoj Thapa | Prabhat HSS |
| 23 | Nirajan Mahato | Shree Madarland Boarding School |
| 24 | Nisha Mahato | Shree Rastriya Lower SS |
| 25 | Pabitra Kumal | Saraswati SS, Jeetpur |
| 26 | Pratima Adhikari | Janaki HSS |
| 27 | Punam B. K. | Sarwaswati SS |
| 28 | Rachana Baral | Blue Bird English Boarding School |
| 29 | Rajesh B. K. | Sajhapur SS |
| 30 | Ramesh B. K. | Laxmi HSS |
| 31 | Roshan Nepali | Prabhat HSS |
| 32 | Sabina Dhungana | Siddhartha SS |

| | | |
|----|-----------------|--|
| 33 | Sangita Lama | Laxmi HSS |
| 34 | Sanoj Shrestha | Blue Bird English Boarding School |
| 35 | Santaya Bote | Someshor HSS, Baruwa Madi |
| 36 | Santosh Neupane | Sajhapur SS |
| 37 | Sarmila Mahato | Shree Adarsha HSS |
| 38 | Shanti Gautam | Sajhapur SS |
| 39 | Shiksha Subedi | Janajyoti Padam Narayan Dharmakumari Malla HSS |
| 40 | Shruti Adhikari | Shree Rastriya Lower SS |
| 41 | Sima Subedi | Saraswati SS, Jeetpur |
| 42 | Sujata Paudel | Janajyoti Padam Narayan Dharmakumari Malla HSS |
| 43 | Sumitra Aryal | Janaki HSS |
| 44 | Tilak Tamang | Prabhat HSS |
| 45 | Usha Paudel | Janaki HSS |