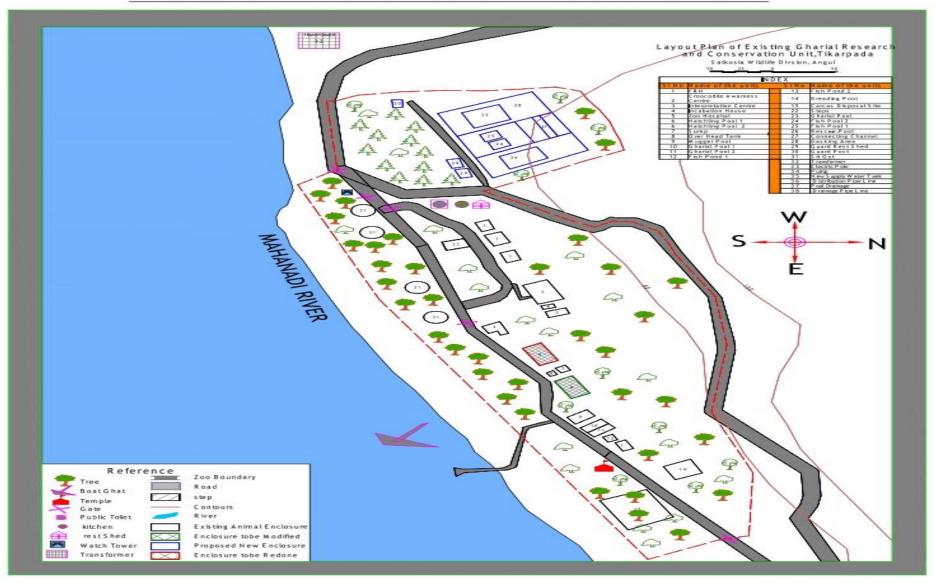
ANNUAL REPORT-2019-20

GHARIAL RESEARCH AND CONSERVATION UNIT. TIKARPADA

LAYOUT PLAN OF EXISTING GHARIAL RESEARCH AND CONSERVATION UNIT AT TIKARPADA ANGUL



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1. Report of the Officer-in-charge

Gharial Research And Conservation Unit (GRACU), Tikarpada was established in the year 1975 and successfully managed by the Satkosia Wildlife Division. The GRACU has been recognized by the Central Zoo Authority as Mini Zoo during 2006. Gharials procured from Nandankanan Biological Park are kept in the rearing pools, made them acclimatized with fresh river water and subsequently released in to Mahanadi river system. Every year during winter the Gharial & Mugger population estimation is carried in the Zoo along with the Mahanadi River System of this Division to ascertain their number and its population trend. The Mini Zoo (GRACU), Tikarpada is the main attraction for tourists and catering their needs of local villagers.

2. History of the Zoo

The Satkosia Gorge along the river Mahanadi, in Odisha has been a natural habitat for the fresh water crocodilian species especially the Gharial (*Gavialusgangeticus*) and the Mugger (*Crocodiluspalustris*). During 1974, the Food and Agricultural Organization (FAO) of the United Nations had recommended a crocodile conservation initiative in the area in view of the dwindling population of the Gharial crocodiles and their recovery in the wild habitat.

The conservation unit started during March 1975 as a joint conservation initiative by the State Government with technical support from the UNDP and FAO. Dr.H.R.Bustard from the FAO worked as the Chief Technical Adviser of the project till 1980 and Dr L A K Singh was the Senior Research Officer of the project till 1987. The GRACU was recognized by the Central Zoo Authority during the year 2006 as 'mini zoo' located in the heart of the Satkosia Tiger Reserve which declared by the Govt. of Odisha during December, 2007.

3. Vision

Conservation breeding and species recovery of endangered Gharials and other fresh water reptilian species in their natural habitat e.g. Mahanadi River System.

4. Mission

The mission of Gharial Research and Conservation Unit, Tikarpada is "Conservation and revival of Gharial population and other fresh water reptilian species in Mahanadi River Ecosystem".

5. Objective

- (i) Conservation breeding and rehabilitation of Gharial, water monitor lizard, turtles (*Trionixgangeticus* and *Chitra indica*) and other amphibians.
- (ii) Conservation, breeding of different species particularly those endangered species belonging to the region for preservation of biodiversity
- (iii) To promote education and awareness amongst visitors towards conservation of wildlife
- (iv) Research and scientific study on animal behaviour, diseases and their control, feed and nutrition and reproductive biology. The knowledge so gained can be made use in management of wildlife in the wild.
- (v) Exchange with other zoological parks and rehabilitation of suitable endangered species in the wild with strict adherence to the guidelines framed for the purpose.

6. About us

S.No.	Particulars	Information		
Basic Info	asic Information about the Zoo			
1	Name of the Zoo	Gharial Research And Conservation Unit (GRACU)		
2	Year of Establishment	1975		
3	Address of the Zoo	At/Po- Tikarpada		
		Via-Hulurusingha		
		P.S-Purunakote		
		Dist-Angul		
4	State	Odisha		
5	Telephone Number	06764-236218		
6	Fax Number	06764-236218		
7	E-mail address	dfosatkosiawl@yahoo.co.in		
		dfosatkosiawl@gmail.com		
8	Website	www.satkosia.org		

S.No.	Particulars	Information
9	Distance from nearest	Airport:190
		Railway Station:65
		Bus Stand:60
10	Recognition Valid up to (Date)	28.09.2019
11	Category of zoo	Mini Zoo
12	Area (in Hectares)	7.00
13	Number of Visitors (Financial Year)	Adult : 15855
		Children: -
		Total Indian : 15855
		Total Foreigners : 33
		Total Visitors:15888
14	Visitors' Facilities Available in Zoo	Crocodile Conservation awareness centre, Drinking water, toilet, play equipment for children, cloak room, rest room, souvenir shop, sit out, rain shelter,

S.No.	Particulars	Information
15	Weekly Closure Day of the Zoo	Monday
Managem	nent Personnel of the zoo	
16	Name with designation of the Officer in-charge	Sri Ramasamy P., IFS
		Deputy Conservator of Forests, Divisional Forest Officer, Satkosia Wildlife Division, Angul
	Name of the Veterinary Officer	Dr. Kishor Kumar Sahu
	Name of the Curator	-
	Name of the Biologist	-
	Name of the Education Officer	-
	Name of the Compounder/ Lab Assistant	-

Owner / Operator of the Zoo			
*Name of the Operator	Sri Ramasamy P., IFS		
Address of the Operator	At/Po-Hakimpada, Dist-Angul, Pin-759143		
Contact details/Phone number of Operator	Mob:- 8280146664		
	Phone :- 06764-236218		
E-mail address of Operator			
	*Name of the Operator Address of the Operator	*Name of the Operator Sri Ramasamy P., IFS Address of the Operator At/Po-Hakimpada, Dist-Angul, Pin-759143 Contact details/Phone number of Operator Mob:- 8280146664 Phone :- 06764-236218	

7. Organizational Chart



8. Human Resources

At present the GRACU is being managed by the Range Officer, Tikarpada, Forester, Tikarpada Section and Forest Guard Tikarpada 'A' Beat. There are 4 Gharial watchers, 1 Temporary Status and 1 daily wage animal keepers to manage the daily activities at the centre.

Manpower of the Zoo

SI.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	Sr. Vet. Officer	01	01
2	Jr. Vet. Officer	01	Nil
3	Forester	Nil	Nil
4	Forest Guard	Nil	Nil
5	Gharial Watcher	06	06
6	Pool Attendant	01	01
7	Pumpman	01	01
8	Security personnel (Contractual)	Nil	Nil
9	Research Fellow (Contractual)	Nil	Nil

9. Capacity Building of zoo personnel

SI.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
		Nil		

10. Statement of income and expenditure of the Zoo

2019-20

Scheme	Name of the work	Allotment	Expenditure
		(Rs. in lakh)	(Rs. in lakh)
02-Programme Expenditure	Feeding for Crocodile, POL for Diesel Pump Set and maintenance of the GRACU.	4.00	4.00
CAMPA APO-2019-20 (Wildlife Wing)	Construction of entry gate for GRACU at Tikarpada, Connection of 3 Phase electrification to GRACU, Supply of multipurpose play station 1	30.00	30.00
	Total	34.00	34.00

During the year 2019-20 an amount of Rs. 942005 has been collected from the Entry gate Pampasar as entry fee. Also the allotment and expenditure details of the Zoo as provided by the P.C.C.F (HoFF)& P.C.C.F (WL) & C.W.L.W is as above:-

11. Daily feed Schedule of animals

SI.No.	Species	Feed item	Qua	antity	Day of fasting
			Winter	Summer	
1	Mugger (<i>Crocodyluspalustris</i>) (Adult 5 years and above)	Meat or Fish	1 Kg	1 Kg	Monday
2	Mugger (Crocodyluspalustris) (Sub-Adult 2 to 5 years)	Fish (Fingerling about 6 inch)	205 g	250 g	Monday
3	Gharial (<i>Gavialisgangeticus</i>) (Adult 5 years and above)	River Fish	1 Kg	1 Kg	Monday
4	Gharial (<i>Gavialisgangeticus</i>) (Sub-Adult 2 to 5 years)	Fish (Fingerling about 6 inch)	150 g	150 g	Monday
5	Terrapin	Green Sag	10 g	10 g	Nil
		Fingerling fish	50 g	50 g	
		Cabbage	20 g	20 g	

12. Vaccination Schedule of animals

Mostly the animals kept in the Zoo are reptiles. So it is not necessary for vaccination the animals.

13. De-worming Schedule of animals

Mostly the animals kept in the Zoo are reptiles. So it is not necessary for de-worming the animals. However, antifungal treatment is going on regularly in the mini Zoo.

14. Disinfection Schedule

SI.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Mugger, Gharial & Turtle	Iron Mesh with concrete pole	Bleaching Powder – dusting	Premises disinfection -
			Pottasium permanganate –	weekly
			foot dip, concrete pole	Foot dip – daily
			disinfection	pool Disinfection – monthly

15. Health Check-up of employees for zoonotic diseases

Arrangements are made for collection of blood samples from Zoo attendants.

16. Development Works carried out in the zoo during the year

Following developmental works are carried out during the year 2019-20: Construction of entry gate for GRACU at Tikarpada, Connection of 3 Phase electrification to GRACU, Supply of multipurpose play station 1 No., Std sea saw, Merry Go Round (Deluxe) etc. Purchase of play equipment, Construction of New breeding pool, Maintenance/ Renovation of Meeting Hall at GRACU, Lift irrigation to GRACU, Purchase of LED Projector etc.

17. Education and Awareness programmes during the year

Training programmes for Bird census, Phase –IV monitoring of Tigers and its co predators and Crocodile Census has been conducted.

18. Important Events and happenings

Mass awareness programme by Save Elephant Foundation and World forestry day, wildlife week celebration conducted in GRACU Meeting Hall.

19. Seasonal special arrangements for upkeep of animals

During summer season shade nets and temporary sheds were used toprotect reptiles from harsh sun rays.

20. Research Work carried out and publications

No research carried out during the year.

21. Conservation Breeding Programme of the Zoo

No Conservation Breeding Programme carried out during the year.







- 22. Animal acquisition / transfer / exchange during the year : NIL
- 23. Rescue and Rehabilitation of wild animals carried out by the Zoo ;- NIL
- 24. Annual Inventory of animals

Form – II [See rule 11 (1)] PART - A

Annual Inventory Report

Inventory Report for the Year : 2019-20

S. No.	Animal Name	Scientific Name		Opening Births Acquisition Disposals Stock as on 01.04.2019				als		Dea	iths		Closing stock as on 31.03.2020													
			M	F	U	Т	M	F	U	T	M	F	U	Т	M	F	U	Т	M	F	U	T	M	F	U	Т
Reptile	Gharial	Gavialis gangeticus	1	4	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	3	-	4
Total Reptile	1		1	4	-	5			-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	3	-	4
Total Anii	mals		1	4	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	3	-	4





PART – B

Other than endangered Species

S. No.	Animal Name	Scientific Name		Opening Stock Births Acquisition Disposals Deaths as on 01.04.2019		aths			as 31.03.2020			tock on														
			M	F	U	Т	M	F	U	Т	M	F	U	Т	M	F	U	Т	M	F	U	T	M	F	U	Т
Reptiles 1.	Mugger	Crocodylus palustris	3	2	1	6	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	2	1	6
2.	Turtle	Kachuga kachuga	-	5	3	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	8
Total Reptiles			3	7	4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7	4	14
Total Animals			3	7	4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7	4	14







25. Mortality of animals

SI.No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
1	Gharial	Gavialisgangeticus	Female	22.08.2019	Due to chronic wasting disease arisen due to gastric mycosis or may be systemic magocosis.

26. Compliance with conditions stipulated by the Central Zoo Authority

After Evaluation of the Zooon 27.02.2020 no compliance report received from the Central Zoo Authority.

27. List of free living wild animals within the zoo premises

- a. Mammals NIL
- b. Birds NIL
- c. Reptilesis as follows

Animal Name		Sex									
	Male	Female	Un-identified								
1	2	3	4	5							
Gharial (Gavialisgangeticus)	1	3	0	4							
Mugger (Crocodyluspalustris)	3	1	1	5							
Terrapin	0	5	3	8							

