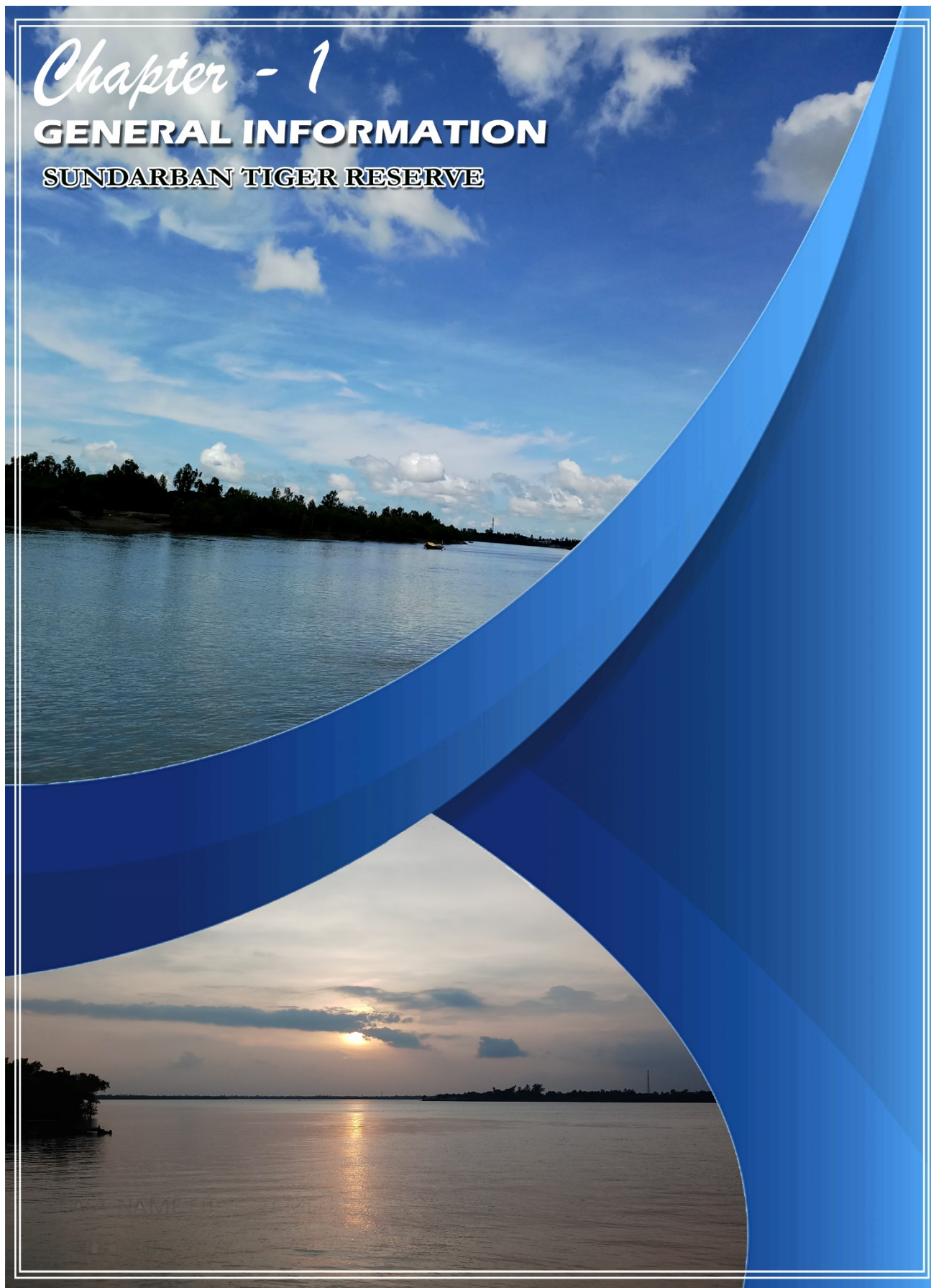


Chapter - 1

GENERAL INFORMATION

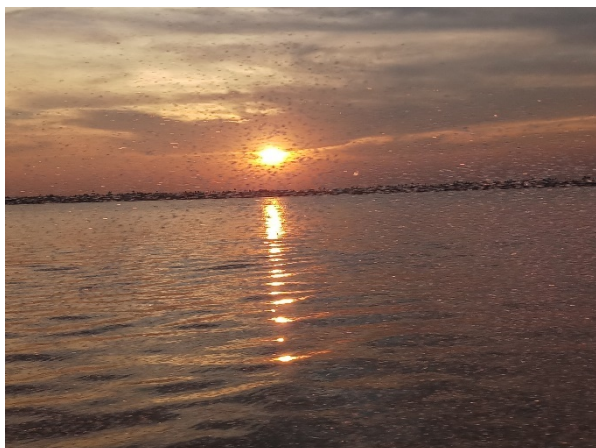
SUNDARBAN TIGER RESERVE



GENERAL INFORMATION

- Background
- Present Status
- Significance of Sundarban Mangroves
- Boundaries

BACKGROUND



India's globally renowned conservation scheme 'Project Tiger' was launched on 23rd December, 1973, in Sundarbans. It thus has the distinction of being one of the first nine Tiger Reserves to be declared in the country. The Sundarbans Tiger Reserve (STR) is situated in the coastal districts of West Bengal, i.e. South 24-Parganas and North 24-Parganas (Arbesi Block only). It lies at the southernmost extremity of the lower Gangetic delta bordering the Bay of Bengal. The Sundarbans can be described as a maze of estuaries, river channels, and creeks encompassing a number of islands (105) of various shapes and sizes. The Tiger Reserve has an area of 2584.89 sq. km. and along with the

Bangladesh's Sundarbans forms the largest contiguous tract of mangrove forest anywhere in the world. It is the only mangrove forest throughout the world (besides Bangladesh) to harbour significant tiger population. Apart from the tiger, the Sundarban Tiger Reserve also has a rich array of biodiversity values both floral and faunal.

PRESENT STATUS

The Indian Sundarban has a forest area of 4,263 sq. km. of which 2,584.89 sq.km. has been designated as Sundarban Tiger Reserve (STR), w.e.f. 23.12.1973. Within this Tiger Reserve, 1699.62 sq. km. has been designated as the Critical Tiger Habitat (CTH) vide Notification No. 6028-For, dated 18.12.2007. Within this CTH, lies the Sundarban National Park having an area of 1330.12 sq. km. area notified vide No. 2867-FOR, dated 04.05.1984. The area outside the CTH is known as Buffer Zone notified vide No. 615-For/11M-28/07, dated 17.02.2009. Within the buffer area is located the Sajnekhali Wildlife Sanctuary covering an area of 362.42 sq. km. vide Notification No. 5396-FOR, dated 24.06.1976. Rest of the area is the multiple use zone, which is used by the local population to fulfil their *bonafide* needs. The importance of this area was recognized by the UNESCO and the area was accorded the status of a World Heritage Site in the year 1987. (now renamed as World Heritage Property).

SIGNIFICANCE OF SUNDARBAN MANGROVES

The Sundarbans mangrove eco-system is considered to be unique because of its species, richness due to its diverse mangrove flora, which constitutes the mangrove-associated flora, back mangrove species and several endemic typical mangrove associated fauna of different groups. In addition to its floral richness, the Sundarbans harbours many rare and endangered animal species apart from the Royal Bengal Tiger. These include the estuarine crocodile (*Crocodilus porosus*), water monitor lizard (*Varanus salvator*), globally endangered Batagur Terrapin (*Batagur baska*), sea turtles, viz. Olive Ridley (*Lepidochelys olivacea*), Green sea turtle (*Chelonys mydus*), Hawksbill turtle (*Eretmochelys imbricata*), fishing cats (*Felis viverrina*), smooth coated otters (*Lutra perspicillata*), the Gangetic (*Platanista gangetica*) & Irrawady (*Orcaella brevirostris*)

dolphins and the rare African visitor Goliath Heron (*Ardea goliath*) are some of the mentionable species among 53 such rare and endangered animals. In addition to the above, there have been recorded 20 identified species of prawns and 44 species of crabs including two edible ones. The mangrove forest acts as the nursery for the finfish and shell fish and sustains the fisheries all along the eastern coast of India. It also shelters the metropolis of Kolkata from cyclonic storms and tidal surge.

BOUNDARIES

The Sundarbans Tiger Reserve is bound in the east by the international boundary with Bangladesh formed by the rivers Harinbhanga, Raimangal and Kalindi. On the south lies the Bay of Bengal. The western border is formed by the river Matla, which acts as a common boundary with the territorial Forest Division of South 24-Parganas. Towards the north-west, the area is bound by rivers Bidya and Gomdi. All the fringe villages lie outside the Tiger Reserve along the northern boundary.

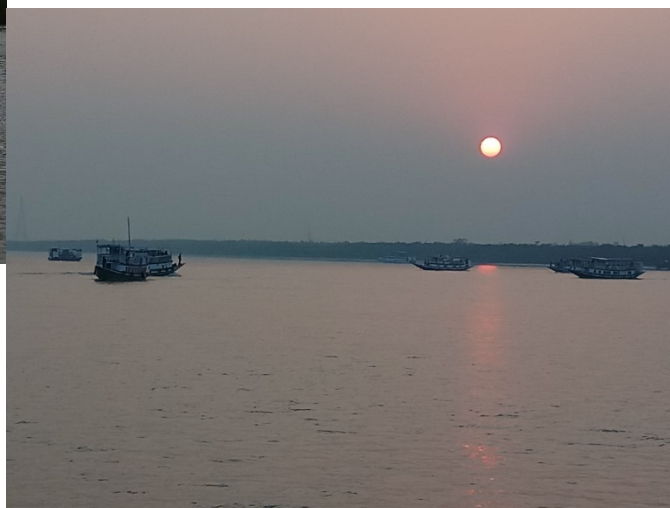
There exist two distinct ecological units of mangrove vegetation as are given below:

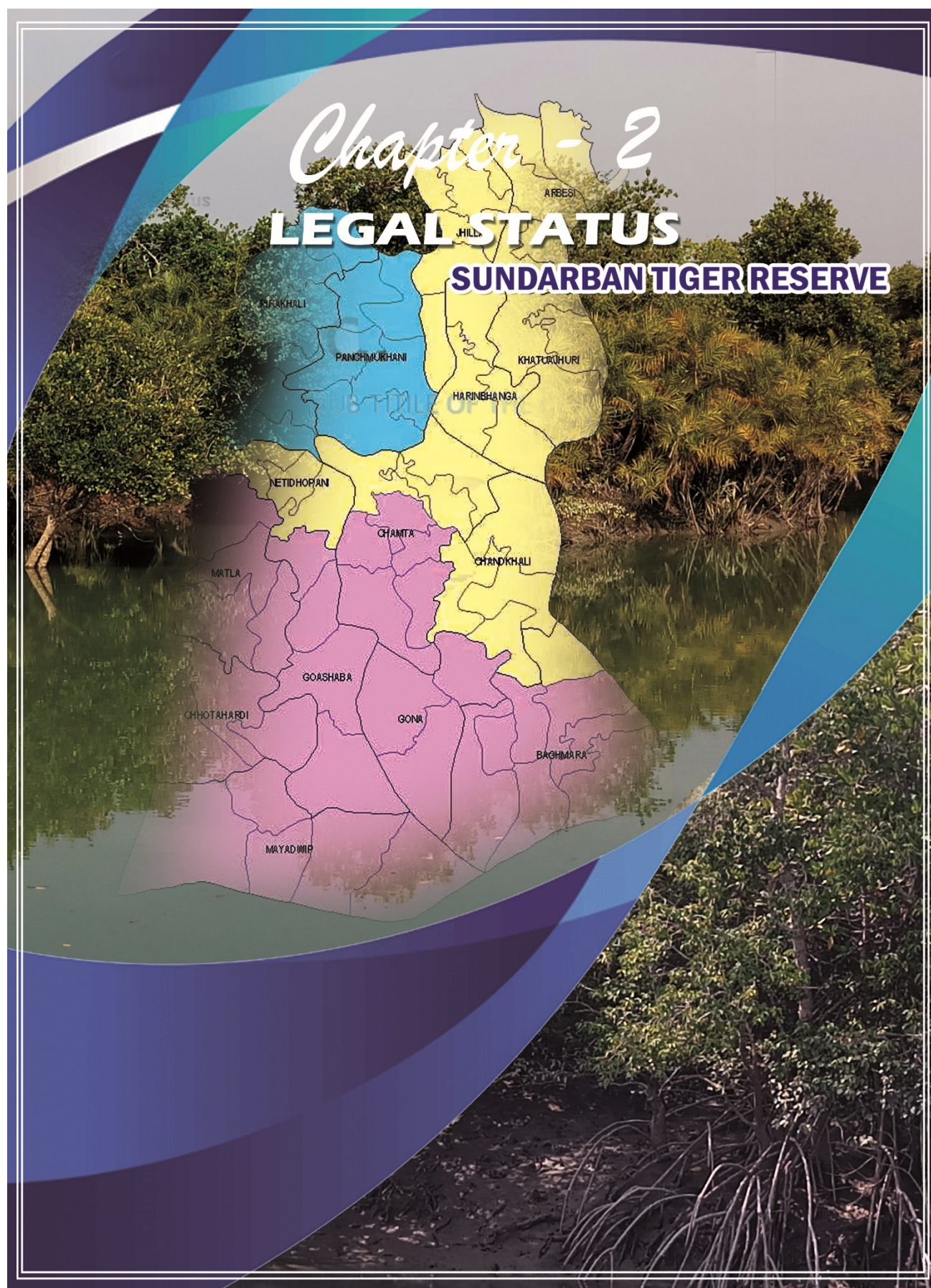
1. The western portion lying west of river Thakuran where a trickle of sweet water reaches from the river Hooghly, i.e. mostly in the South 24-Parganas Forest Division.
2. The central mangrove patch, which is practically cut off from the upstream flow and is fed by backwaters of Bay of Bengal lying between rivers Harinbhanga and Thakuran. The Sundarbans Tiger Reserve falls under this area. The salinity regime is very high here. However, on the eastern side bordering Bangladesh river Kalindi receives some sweet-water flow, as a result, the salinity levels are comparatively low.

SIGNIFICANCE OF SUNDARBAN TIGER RESERVE

- One of the first nine Tiger Reserves declared under the Project Tiger scheme in the year 1973.
- The National Park area of the Tiger Reserve is a natural World Heritage property, which was declared in the year 1985.
- The Sundarban Tiger Reserve is a part of the Sundarban Biosphere Reserve, which is one of the few globally recognised Biosphere Reserves in the country. It was declared as a Biosphere Reserve in the year 1989.
- It constitutes over 60% of the total mangrove forest area in the entire country and has 90% of the total Indian mangrove species
- There are 140 plant species under 59 families and 101 genera which have been reported from the entire Biosphere region by Naskar *et al.* These comprise of true mangroves or major elements, minor elements of mangroves or/and mangrove associates, back mangrove trees and shrubs, non-halophytic non-mangrove associates in the area, halophytic herbs, shrubs, and weeds and epiphytic and parasitic plants.
- The Sundarbans has been classified as a Tiger Conservation Landscape of global priority, as it is the only mangrove habitat (along with the Bangladesh), which support a significant tiger population.
- The Tiger Reserve is home to a large number of endangered and globally threatened species like the tiger (*Panthera tigris tigris*), fishing cat (*Felis viverrina*) and estuarine crocodile (*Crocodilus porosus*), Gangetic (*Platanista gangetica*) and Irrawady Dolphin (*Oracella brevirostris*), king cobra (*Ophiophagus hannah*), water monitor lizard (*Varanus salvator*) etc.

- It harbours significant populations of the river terrapin (*Batagur baska*), which was once believed to be extinct.
- It is the nesting ground for marine turtles like Olive Ridley (*Lepidochelys olivacea*), Green sea turtle (*Chelonia mydas*) and Hawksbill turtle (*Eretmochelys imbricata*).
- The mangroves serve as nurseries to shell fish and fin-fishes and sustain the coastal fisheries of the entire eastern coast.
- A number of heronries are formed here during monsoon, which harbour large bird populations, which come and breed here. Also, during the winters it is home for Trans-Himalayan migratory birds. Goliath heron (*Ardea goliath*) is another important bird found in the area.
- It is known as a kingfisher's paradise as out of the 12 species of kingfishers found in the country 8 species are found here.
- Two species of horse shoe crabs (which are considered as living fossils as they are thought to be more than 400 million years old), i.e. *Tachypleus gigas* and *Carcinoscorpius rotundicauda* out of the four species found in the world are found here.
- The mangrove forests trap debris and silt and stabilise the near shore environment. Certain mangrove species also act as bio-filters as they have been found to bio-accumulate heavy metals. They filter ground-water and storm-water runoff which often contains harmful pesticides. They recharge the ground water by collecting rain water and slowly releasing it to the underground reservoir.
- The mangrove forests act as a natural shelter belt and protect the hinterland from storms, cyclones, tidal surges, sea-water seepage and intrusion.





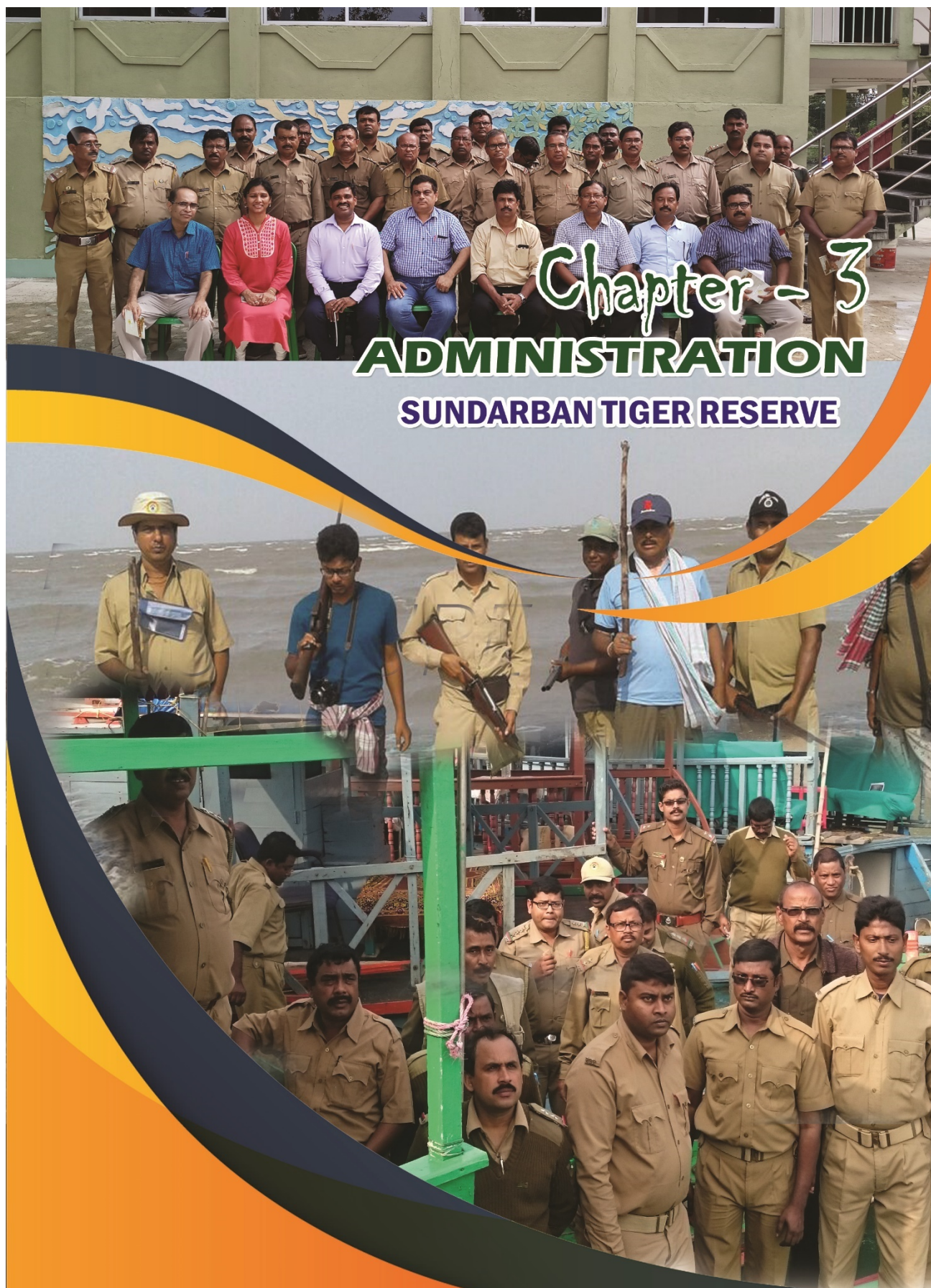
LEGAL STATUS**LEGAL STATUS OF SUNDARBAN TIGER RESERVE**

Category	Area (insq. Km.)	Notification No.	Legislation
Sajnekhali Wildlife Sanctuary	362.42	5396-FOR, dt. 24.06.1976	As per sub-section (1) of section 18 of the Wildlife (Protection) Act, 1972 (53 of 1972).
Sundarban National Park	1,330.12	2867-FOR, dt. 04.05.1984	As per clause (b) of section 21 of the Wildlife (Protection) Act, 1972.
Critical Tiger Habitat	1,699.62	6028-FOR, dt. 18.12.2007	As per sub-section (4) of Section 38 V of the Wildlife (Protection) Act, 1972.
Buffer Area	885.27	615-FOR/11M-28/07 dt.17.02.2009	The Sanctuary area along with adjacent RA is a part of Buffer.
Total Area:	2584.89		

Entire area has the status of Reserved Forest also.

AREA STATEMENT OF SUNDARBAN TIGER RESERVE:

(a)Core Area or Critical Tiger Habitat			
Sl. No.	Block and Compartment	Total Area (in sq.km.)	Legal Status
1	Matla (1-4)	176.30	NP
2(a)	Chamta (1-3)	96.32	RF
2(b)	Chamta (4-8)	124.37	NP
3	Chotahardi (1-3)	175.67	NP
4	Goasaba (1-4)	171.73	NP
5	Gona (1-3)	139.03	NP
6(a)	Bagmara (1)	24.30	RF
6(b)	Bagmara (2-8)	269.63	NP
7	Mayadwip (1-5)	273.36	NP
8	Netidhopani (1-3)	93.00	RF
9	Chandkhali (1-4)	155.91	RF
	TOTAL:	1699.62	-
(b) Buffer Area			
Sl. No.	Block and Compartment	Total Area (in sq.km.)	Legal Status
1	Panchamukhani (1-5)	176.66	WLS
2	Pirkhali (1-7)	185.76	WLS
3	Arbesi (1-5)	150.43	RF
4	Jhilla (1-6)	123.14	RF
5	Khatuajhuri (1-3)	132.41	RF
6	Harinbhanga (1-3)	116.87	RF
	TOTAL:	885.27	-



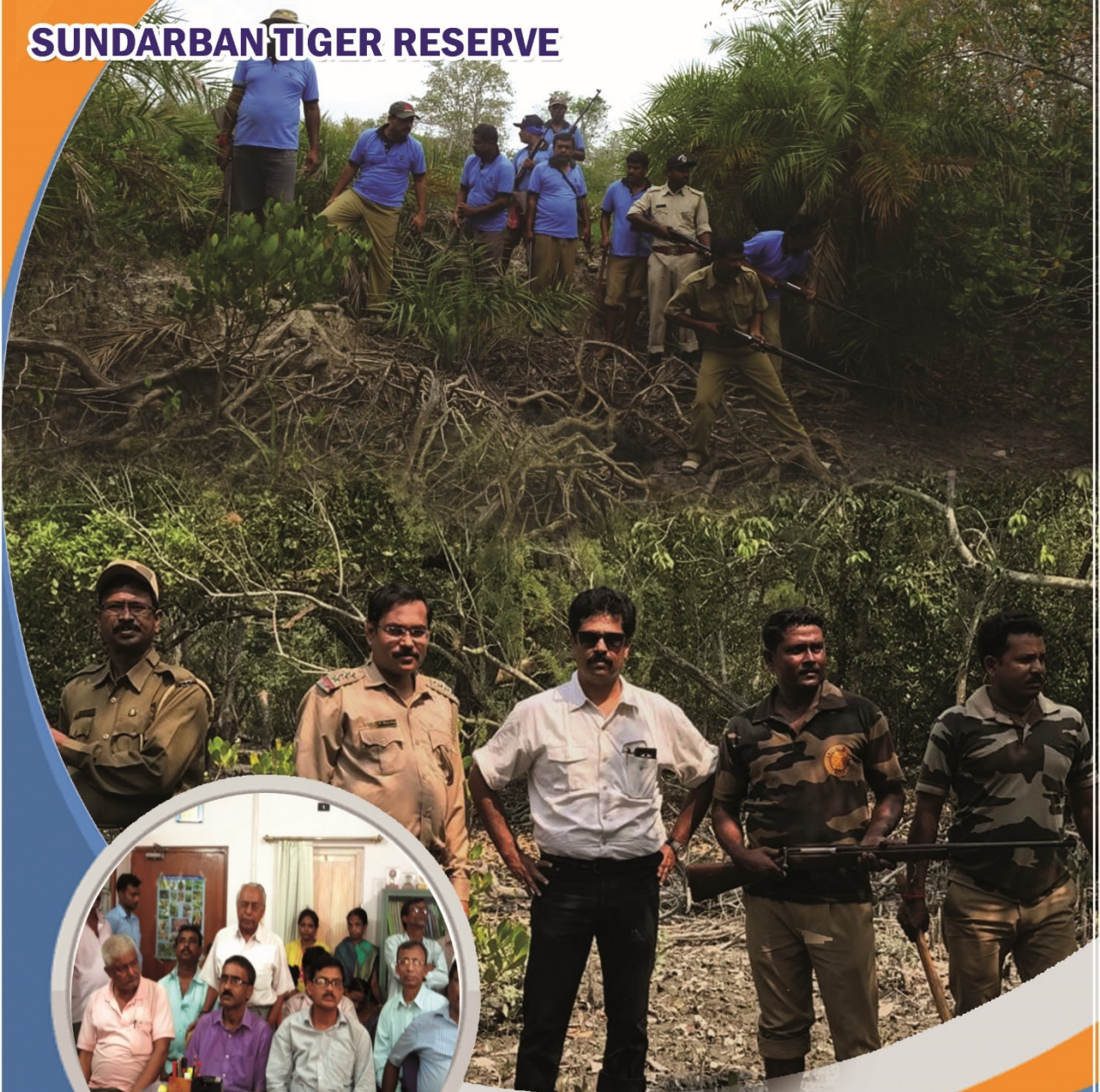
ADMINISTRATION

Administrative Unit	Range/Beat/Camp		No.
Range (Territorial)	Bashirhat Range, Sajnekhali Wildlife Sanctuary Range, National Park (East) Range, National Park (West) Range		4
Range (Functional)	H.Q./AFR Range, Land and Law Cell, Research Range, Rampura Mobile Range, Eco-Tourism Range		5
Beat (Territorial)	<i>Name of Beat</i>	<i>Range</i>	14
	Chamta, Baghmara, Chandkhali (New)	National Park (East) Range	
	Haldibari, Netidhopani, Kendo	National Park (West) Range	
	Dobanki, Sajnekhali and Duttar	Sajnekhali Wildlife Sanctuary Range	
	Bagna, Burirdabri, Jhingekhali, Khatuajhuri and Harinbhanga (in Harikhali)	Basirhat Range	
Beat (Functional)	Sonakhali, Rampura H.Q., Canning H.Q., National Park H.Q. (West), National Park H.Q. (East) and Research.		6
Camp (Land-based Camps)	(Details in Chapter-X)		20
Camp (Floating Camps/ Check-posts)	(Details in Chapter-X)		11

Chapter - 4

STAFF STRENGTH

SUNDARBAN TIGER RESERVE



STAFF STRENGTH

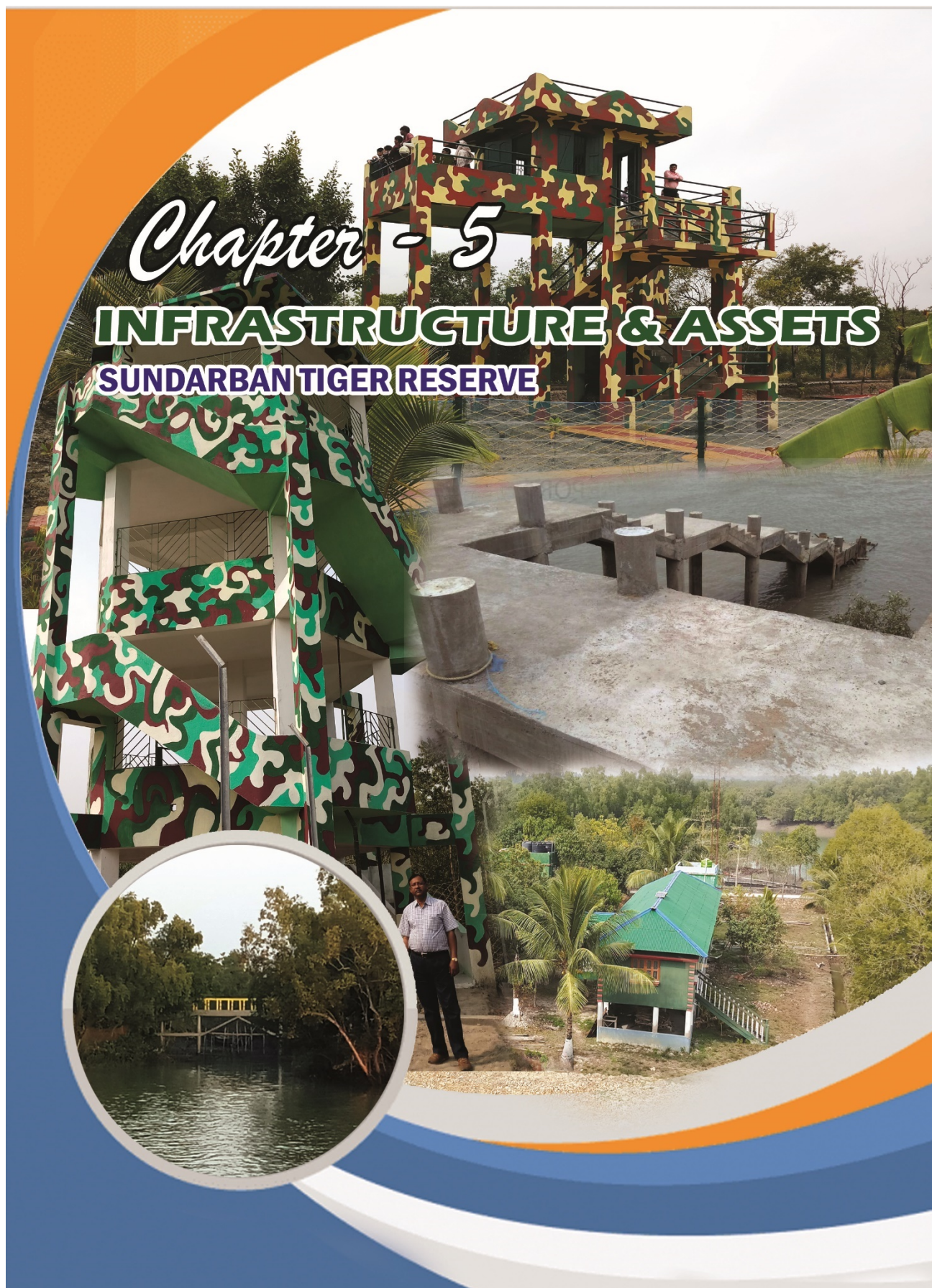
Sundarban Tiger Reserve is headed by Field Director, an officer of the rank of Chief Conservator of Forests. He is supported by one Deputy Field Director (IFS), two Assistant Field Directors, Range Officers and other frontline staff, the details of which are given in the table below:

EXISTING SANCTIONED STAFF STRENGTH AS ON:

Sl. No.	Category of Post	Sanctioned Strength	Existing	Vacant	Audited Against	Existing G.O. No.
1.	CCF & FD	1	1	-	-	PCCF, WB's O.O. No.20-Misc/2001 dt. 18.05.2001
2.	DFD	1	1	-	-	-do-
3.	AFD	2	2	-	-	1234-For, dt. 27.2.1974
4.	Research Officer	1	-	1	-	11343-For, dt. 21.12.1976
5.	Lab. Asstt.	1	-	1	-	4253-For, dt. 10.7.1978
6.	Veterinary Officer	1	1	-	-	1130-For/11B-22/88, dt.14.2.1991
7.	Head Clerk	1	1	-	-	PCCF/WB WB's O.O No. 31-51PMC/08, dt. 19.8.08
8.	Accountant	1	1	-	-	PCCF, WB's Letter No.11062/ PMC/2E-212, dt. 15.09.97
9.	UDC	6	3	3	-	-do-
10.	PA	1	1	-	-	-do-
11.	Clerk-cum-Typist	7	2	5	-	-do-
12.	Typist	1	-	1	-	5295-For/11B-41/80-I, dt. 21.7.84
13.	Forest Ranger	11	7	4	-	PCCF, WB's O.O. No. 20-Misc/2001, dt. 18.05.2001
14.	DR/Fr.	24	23	1	-	-do-
15.	Head Forest Guard	8	2	6	-	-do-
16.	Forest Guard	100	45	55	-	-do-
17.	Majhi	21	06	15	-	CCF/WB's O.O. No. 45/S, dt. 24.9.1975
18.	Boatman	54	19	35	-	4192-For, dt. 19.9.1981
19.	Forest Watcher	1	-	1	-	769-For, dt. 9.2.1974
20.	Sweeper	1	1	-	-	5295-For/11B-41/80-I, dt. 21.7.1984
21.	Mali	1	1	-	-	769-For, dt. 9.2.1974
22.	Driver	2	-	2	-	8815-For, dt. 20.9.1976
23.	Chowkidar	2	1	1	-	769-For, dt. 9.2.1974
24.	Zamadar	2	-	2	-	769-For, dt. 9.2.1974
25.	Peon	4	4	-	1*	*Audited against PCCF, WB. G.O. No. 760-For, dt. 9.2.1974 & 5295-For/11B-41-80-I, dt. 21.7.1984
26.	Orderly	8	7	1	-	769-For, dt. 9.2.1974 & 5926-For, dt. 2.9.1977 & 2661-For, dt. 27.4.1974
27.	BanaShramik	18	13	-	-	G.O. No. 1539-FOR/N/4E-61/ 91, dt. 07.05.1997
28.	Engine Driver	5	3	2	-	1170-For, dt. 17.12.76 & 4128-For, dt. 19.7.1980
29.	Sareng	3	2	1	-	4128-For, dt. 17.09.80 & 4192-For, dt. 19.09.1981
30.	Sukhani	2	-	2	-	1170-For, dt. 17.12.76 & 4128-For, dt. 19.07.1980
31.	OMG	3	1	2	-	do-
32.	Laskar	8	1	7	-	-do-
	TOTAL	284	136	148	1	Existing strength includes 18 Nos. Banashramik

STAFF STRENGTH





Chapter - 5

INFRASTRUCTURE & ASSETS

SUNDARBAN TIGER RESERVE

INFRASTRUCTURE AND ASSETS

- STAFF QUARTERS
- OTHER CONSTRUCTIONS
- COMMUNICATION
- VEHICLES
- RT SETS
- TOOLS AND MACHINERIES
- DART GUNS
- CAGES
- ARMS AND AMMUNITIONS

INFRASTRUCTURE AND ASSETS AS ON 31.03.2016

Staff Quarters:

Category	No.	Location
ROs Quarter	5	SWLS-1, BHT-1, NP(W)-1, RPP-1, ET-1 .
VOs Quarter	1	SWLS-1.
DR/FRs Quarter	9	SWLS-3, BHT.-3, NP(W)-1 , RPP-1 , ET-1.
Twin DR/FRs Building (Pucca)	3	BHT.-1
Twin FGs Quarter (Pucca)	2	NP(W)-2.
Other Staff Quarter	2	ET-2 (wooden).
Boatmans' Barrack	2	SWLS-1, RPP-1.
Staff Barrack	24	SWLS-7, BHT.-11, NP(E)-6, RPP-2, NP(W)-1
Twin Staff Barrack (Pucca)	12	SWLS-7, NP(W)-4, RPP-1,
Twin Staff Barrack (Wooden)	4	BHT.-3, RPP-1.

Other structures:

Category	No.	Location
Officers' Rest Rooms	4	SWLS-3 (MIC), NP(E)-1,
Subordinates' Rest House	3	SWLS-1, NP(E)-1,, BHT-1
Research Range Office	1	Hqr.-1.
Office Shed (Wooden)	7	SWLS-1, BHT.-3, NP(W)-1, RPP-1, ET-1.
Veterinary Clinic	1	SWLS-1.
Mangrove Interpretation Centre	1	ET-1.
Cage trail	1	BHT.-1.
Canopy Walk	1	Dobanki
Tourist Shed & Ticket Counter	6	SWLS-2, NP(E)-1, ET-1, BHT-3
Two Unit Toilet (for tourists)	10	SWLS-2, BHT.-3, NP(W)-2, ET-3.
Watch Tower	10	SWLS-3, BHT.-3, NP(W)-2, NP(E)-2
Laboratory	1	H.Q.-1.
Honey Godown	3	SWLS-1, BHT.-1, H.Q.-1.

Store House (Wooden)	3	SWLS-1, NP(W)-1, RPP-1.
Pump and Generator Room	13	SWLS-3 BHT.-3, NP(W)-2, NP(E)-2, ET-3.
Dock Shed	3	SWLS-1, NP(W)-1, NP(E)-1.
RCC Water Reservoir	1	SWLS-1.
Common Kitchen for Staff	11	SWLS-4, BHT-3, NP(E)-2, NP(W)-3.
Post-Mortem Unit	1	SWLS-1.

Communication:

Category	No.	Location
Bridge	3	BHT.-1 (wooden), NP(W)-2
Culvert	1	NP(E)-1.
Jetty:		
• Concrete	25	SWLS-9, BHT.-8, NP(W)-6, NP(E)-6, RPP-1.

Vehicles:

Category	No.	Location
Maruti Gypsy (Petrol)	1	H.Q.-1. (U/S)
Jeep (Diesel)	1	H.Q.-1.(U/S)
Motor Cycle	6	NP(E)-2,BHT-1,SWLS-2,H.Q.-1. (5 U/S)
Catamaran	1	SWLS-1.(U/S)
Mechanised boat	4	SWLS-2, NP(E)-1, ET-1. (4 U/S)
Mechanised dingi	11	SWLS-4, BHT.-2, NP(W)-3, NP(E)-2,
Speed boat	14	SWLS-5, BHT.3, NP(E)-2, NP(W)-4 (10U/S)
Launch	4	SWLS-1, H.Q.2. (1 U/S), NPE -1
Accommodation Boat	5	SWLS-2, BHT.-2 , NP(E)-1(U/S)

RT Sets:

Category	No.	Location
Fixed Set	60	SWLS-12, BHT.11, NP(W)-10, NP(E)-11, H.Q.-10, RPP-2, FD/STR-1, M.L.BANASOVA-1, MV DEBRAJ-1, MV BHARATLAXMI-1, (15 U/S)
Fixed Set (different frequency)	6	H.Q.-6 (5 U/S)
High-frequency Set	4	SWLS-1, NP(W)-1 , H.Q.-2(2 U/S)
Walkie-Talkie	78	SWLS-18, BHT.-20, NP(W)-15, NP(E)-9,H.Q.-14, ML BANASHOBA-1, MV DEBRAJ-1, (24 U/S)
Walkie-Talkie (different frequency)	9	Hqr.-For communication with 24-Parganas (South) Division. (6 U/S)
RT Tower	2	NP(E)2.

List of Showing the RT Stations with Code numbers in Sundarban Tiger Reserve

Sl. No.	Name of Station	Details About RT Set(Fixed/ Mobile)	Make	Chessis No.
1.	Gosaba	<i>Fixed Set</i>	<i>Motorola</i>	103TRS-2391
2.	FD's Office, Canning	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-1915
3.	AFD/Residence	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-2109
4.	Bidya Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-138
5.	Bidya Boat	<i>Mobile</i>	<i>Motorola</i>	103TSE-1839
6.	Netidhopani Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-1854
7.	Netidhopani Boat	<i>Mobile</i>	<i>Motorola</i>	103TSE-1863
8.	Haldibari Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TRS-2437
9.	Haldibari Boat	<i>Mobile</i>	<i>Motorola</i>	103TRS-2442
10.	Kendo Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TRS-2436
11.	Kendo Boat	<i>Mobile</i>	<i>Motorola</i>	103TRS-1849
12.	Pakhiralaya Range	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-2097
13.	RO/SWLS Boat	<i>Mobile</i>	<i>Raxon</i>	01AV12010258
14.	Sajnakhali Beat	<i>Fixed Set</i>	<i>Raxon</i>	01AV12010255
15.	BO/Sajnekhali Boat	<i>Mobile</i>	<i>Motorola</i>	103TSE-1850
16.	Sudhanyakhali Camp	<i>Fixed Set</i>	<i>Raxon</i>	01AV12010257
17.	Sudhanyakhali Boat	<i>Mobile</i>	<i>Motorola</i>	103TSE-1866
18..	Duttar Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TRS-2390
19.	BO/Duttar Boat	<i>Mobile</i>	<i>Motorola</i>	103TSE-1918
20.	Dobanki Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-1849
21.	BO/Dobanki Boat	<i>Mobile</i>	<i>Motorola</i>	103TSE-1845
22.	Sadakhali Camp	<i>Fixed Set</i>	<i>Raxon</i>	01AV12010252
23.	Pirkhali Camp	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-1897
24.	Tentultala Camp	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-1902
25.	RO/NPE Range Boat	<i>Mobile</i>	<i>Motorola</i>	103TSE1843
26.	Chamta Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TSE-1729
27.	BO/Chamta Boat	<i>Mobile</i>	<i>Motorola</i>	103TSE-1698
28..	Baghmara Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TRS-2401
29.	BO/Bagmara Boat	<i>Mobile</i>	<i>Motorola</i>	103TRS-1720
30.	Chandkhali Beat	<i>Fixed Set</i>	<i>Motorola</i>	103TRS-1714
31.	BO/Chandkhali Boat	<i>Mobile</i>	<i>Motorola</i>	103TRS-0524

32	Sonakhali Beat	<i>Fixed Set</i>	Motorola	103TSE-1922
33	Basirhat Range/Jhilla	<i>Fixed Set</i>	Motorola	103TRS-2447
34	RO/ Basirhat Boat	Mobile	Raxon	01AV12010234
35	Bagna Beat	<i>Fixed Set</i>	Motorola	103TSE-2009
36	BO/Bagna Boat	Mobile	Motorola	103TSE-2111
37	Jhingakhali Beat	<i>Fixed Set</i>	Motorola	103TRS-1744
38	BO/Jhingakhali Boat	Mobile	Raxon	01AV12010215
39	Burirdabri Camp	<i>Fixed Set</i>	Motorola	103TRS-2420
40	BO/Burirdabri Boat	Mobile	Motorola	103TRS-1908
41.	Khatuajhuri Beat	<i>Fixed Set</i>	Motorola	103TRS-2361

42.	BO/Khatuajhuri Boat	Mobile	Raxon	01AV12010256
43	Harikhali Beat	<i>Fixed Set</i>	Motorola	103TRS-2421
44.	BO/Harikhali Boat	Mobile	Motorola	103TRS-2362
45	Kakmari Camp	<i>Fixed Set</i>	Motorola	103TRS-1441
46	Chilmari Camp	<i>Fixed Set</i>	Motorola	103TRS-2446
47.	Kaksa Camp	<i>Fixed Set</i>	Motorola	103TRS-589
48	Samshernagar Camp	<i>Fixed Set</i>	Motorola	103TRS-1745
49.	Rampura Patrol Range	<i>Fixed Set</i>	Motorola	103TSE-2010
50.	Headquarter Patrol Boat	Mobile	Motorola	103TSE2019
51.	Bonoshova Launch	Mobile	Motorola	103TSE-1865
52.	Debraj Launch	Mobile	Motorola	103TSE-1842
53.	Bharat Laxmi Launch	Mobile	Motorola	103TSE-0696
54.	Banaraj Launch	Mobile	Motorola	103TSE-1869

Tools and Machineries:

Category	No.	Location
Computer	17	NP(W)-2, NP(E)-2, SWLS-3, BHT-2, HQ -8.
Laptop	4	H.Q.-3, NPW-1
Arc View (PalmTop)	1	H.Q.-1
GPS	46	
Printer	20	NPE-2, NPW-4, BHT-2, SWLS-3, H.Q.-9
Scanner	3	H.Q.-3.
Electronic Typewriter	1	HQ.-1.
Multimedia Projector	3	HQ.-3.
16 mm Projector	1	H.Q.-1.
Overhead Projector	2	HQ.-2.
Slide Projector	1	H.Q.-1.
DVD Player	2	H.Q.-2.
Fax Machine	2	H.Q.-2.
Xerox Machine	2	1 No.
Refrigerator	7	NP(W) -1, BHT- 1, SWLS-2, HQ-3.
Video Camera	1	Hqr.-1.
35 mm Analog Camera	12	NP(E)-2, NP(W) -1, BHT- 2, SWLS-2, HQ-5.
Digital Camera(camera trap)	8	NP(W)-4, BHT-1, SWLS-3.
Digital Camera	14	NP(E)-2, NP(W)-3, SWLS -2, BHT-2, H.Q.-5.
Still Camera	16	
Night-vision Binocular	1	H.Q.-1.
Binocular	19	NP(W)-4, BHT-4, H.Q.-5, SWLS-3, NP(E)-3.
Television Set	9	NP(W)-2 HQ-3, SWLS-4
Telephone	12	H.Q.8., NPW-2, NPE-2
Intercom	1 Set	H.Q.-1 Set.
Mobile Set	34	.BHT-8, HQ-9, SWLS-8, NPW-5, NPE-4
Generator	13	BHT-3, SWLS-5, NPW-4, NPE-1
Pump Set	16	BHT-2, HQ-1, SWLS-7, NPW-2, NPE-4
Air-Conditioner	5	H.Q.-3, SWLS-2.
Search Light	59	SWLS-11 (2 Nos. defective), BHT-15 NP(W)-25, NPE-8.
Solar Lantern	20	SWLS-4. NP(W)-7, NP(E)-9.

Dart Guns:

Category	No.	Location
Tranquillizing Gun	4	SWLS-1, BHT.-1, NP(W)-1 , Research-1.
Dart Pistol	6	SWLS-2, H.Q.-1, Research-2, BHT-1.

Ages:

Category	No.	Location
Trap Cages	11	SWLS-7, BHT.-2, NP(W)-2.
Translocation Cages	9	SWLS-5, NP(W)-1. BHT-2
Squeeze Cage	1	SWLS-1, .

Unmanned Aerial Vehicle (UAV) Or Drone :

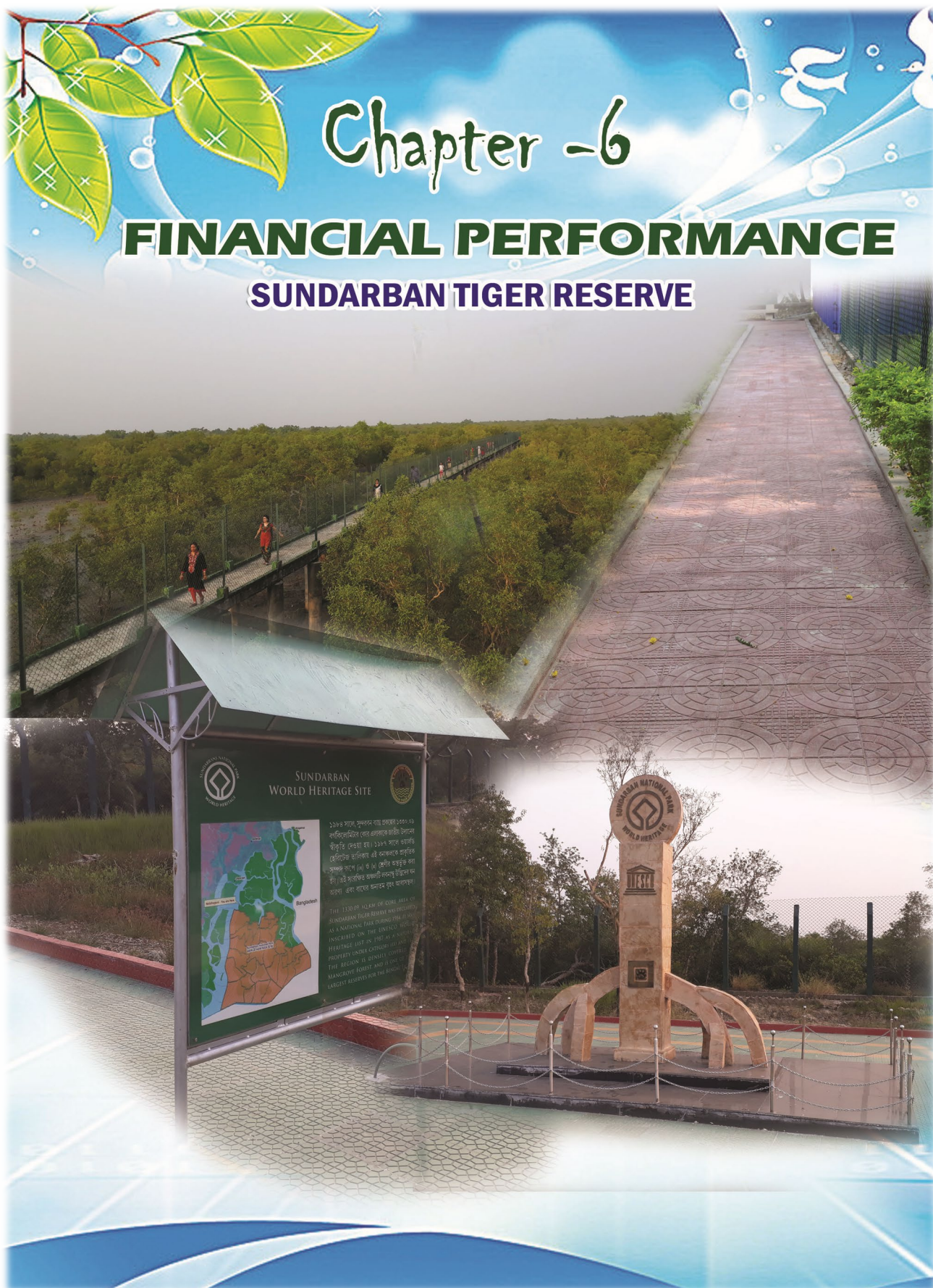
Category	No.	Location
<u>Drone</u>	2	SWLS-1, BHT.-1

Arms& Ammunitions:

Category	No.	Location
Rifles	70	(SWLS-14, BHT.-22, NP(W)-14, NP(E)-13 , H.Q.-7,)
Air Rifles	8	(SWLS-5, BHT.-1, NP(W)-1, Research-1.)
Guns:		
• DBBL	35	(SWLS-15, BHT.-8, NP(W)-5, NP(E)-3 , Hqr.-4, .)
• SBBL	2	(NP(E)-1. Research-1.)
Pump Action Gun	8	(SWLS-2, NP(W)-1, NP(E)-2 , H.Q.-1. BHT-2.)

INFRASTRUCTURE & ASSETS





FINANCIAL PERFORMANCE OF THE LAST FIVE YEARS:

CATEGORY	HEAD OF SERVICE	2015-2016 (in Rs.)	2016-2017 (in Rs.)	2017-2018 (in Rs.)	2018-2019 (in Rs.)
REVENUE		42,19,660.00	28,66,462.00	27,84,642.00	
EXPENDITURE	Non-Plan 01-NP	6,06,92,694.00	6,54,65,484.00	6,72,28,413.00	
	02-110-WL(NP)	1,62,78,838.00	2,14,59,388.00	1,91,14,358.00	
	02-800, OE NP	6,86,753.00	3,12,656.00	3,85,538.00	
	Sub-total:	7,76,58,285.00	9,01,03,990.00	8,67,28,309.00	
	2406-02-800-OE-CN (NS) CMM O/C	NIL	86,81,353.00	32,70,703.00	
	2406-02- 800E(Dev)NP-ESBR- OC	NIL	12,67,000.00	17,92,061.00	
	2406-01-101-Cons. & Dev. CN-Central Sector (NS)-003- Cons. & Dev. Wetland	NIL	NIL	43,94,243.00	
	UNDP	NIL		NIL	
	Sub-total:		99,48,353.00	94,57,007.00	
	CSS-PT-Non- Recurring	75,36,870.00	3,43,73,114.00	3,76,61,158.00	
	CSS-PT-Recurring	3,60,50,096.00	2,19,79,039.00	2,34,64,614.00	
	CSS-Conservation of Natural Resources & Eco-Systems	45,56,381.00	NIL	NIL	
	Sub-total:	4,81,43,347.00	5,63,52,153.00	6,11,25,772.00	
	State Plan (AP & 10 th Plan)	1,04,61,157.00	1,02,81,337.00	1,25,77,425.00	
	XIII th Finance Commission	NIL	NIL	NIL	
	Integrated Forest Protection Scheme	NIL	NIL	16000.00	
	RIDF	NIL	NIL	1,00,20,096.00	
	NREGS	NIL	NIL	NIL	
	RKVY	NIL	NIL	NIL	
	Sub-total:	1,04,61,157.00	1,28,47,636.00	2,26,13,521.00	
	GRAND TOTAL:	13,62,62,789.00	16,92,52,132.00	18,27,09,251.00	

GOVERNMENT OF WEST BENGAL								
DIRECTORATE OF FORESTS								
PERFORMANCE REPORT FOR THE MONTH OF JAN TO MARCH/2018 (4TH QUARTER)								
CIRCLE : SUNDARBAN TIGER RESERVE				SCHEME :	WEST BENGAL STATE CAMPA			
Detailed Head of Service :	"8443-Civil Deposit-00-109-Forest Deposit-001-Forest Deposit-23 Withdrawal"- STATE CAMPA							
Sanction No.								
				SANCTION AMOUNT RS.				
Sl. No.	Item of Works	Division	Location	Target		Achievement		Remarks if any
				Phy.	Fin.	Phy.	Fin	
1	Solar Power Generating System	Sundarban	Basirhat Range &	60 nos	189000	60 nos	189000	
	HFM-85	Tiger Reserve	SWLS Range					
	i) Solar Lantern Panel							
2	Supply, Installation & Commissioning	Sundarban	Basirhat Range	20 nos	416000	20 nos	416000	
	of Solar Street light system	Tiger Reserve						
	(LED Based) including							
	i) SPV Module, 12V, 75wp							
	ii) Solar Tubular Battery 12V, 75ah							
	iii) Solar Street Light 12V-16 watt							
	iv) 4 mt.Pole with poly coated/G.I							
	Battery Box							
3	Maintenance work of Brick Paved Road.	Sundarban Tiger Reserve	Kumirmari under BHT Range	2 km	80000	2 km	80000	
4	Sinking of hand pump fitted deep tubewell	Sundarban Tiger Reserve	Amlamethi & Bijoy nagar JFMC under NPW	2 nos	101792	2 nos	101792	
5	Supply of materials for sinking deep tubewells	Sundarban Tiger Reserve	Amlamethi & Bijoy nagar JFMC under NPW Range	LS	198178	LS	198178	

6	Publication of Tender Notice for Solar Street Light	Sundarban Tiger Reserve	-	LS	4116	LS	4116	
					989086		989086	

	PROJECT : AFFORESTATION ALONG THE GANGA RIVER, WEST BRNGAL							
	DIVISION : Sundarban Tiger Reserve (2017-2018)							
Treatment Model	Physical Progress 2017-18				Division wise Physical Target (in Ha).			



	Component/Activity	Physical	Financial
NL/H/12	Nursery and Advance Works		NIL
	Creation		
NL/P/13	Nursery and Advance Works		NIL
	Creation		
NL/P/16	Nursery and Advance Works		NIL
	Creation		
UL/E/01	Nursery and Advance Works		NIL
	Creation		
	Maintenance		
UL/I/01	Nursery and Advance Works	10.75	4,67,000/-
	Creation	10.75	4,67,000/-
	Maintenance	NIL	NII
UL/A/01	Nursery and Advance Works		NIL
	Creation		
	aintenance		

	<u>West Bengal Forest & Biodiversity Conservation Society</u>				
		<u>Name Of The DMU : Sundarban Tiger Reserve DMU</u>			
<u>Performance Report and Utilization Certificate for the Financial year of 2018-2019</u>					
Letter Nos.& date under which fund allocated					

Annual Report 2018-19

SL. NO	Head Of Accounts	Head descriptions	Phy-target	Amount Allocation(Rs.)	Total amount (previous Balance + Release (Rs)	Allotment		Balance
						phy	Utilization(Rs.)	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
Total								
1								
2								
3								
4								
5								
		Total						
		Grand Total						

SUNDARBAN TIGER CONSERVATION FOUNDATION TRUST (S.T.C.F.T.)

P.O. Canning Town. Dist. South 24 Parganas.

ECO-DEVELOPMENT ACTIVITIES

ACCOUNTING YEAR 2018– 2019

Sl. No.	Description of work	Fund Sanctioned in Lakh in Rs.	Fund spent in Lakh in Rs.
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
31.			
32.			
33.			
	TOTAL		



Chapter - 7

NON-TIMBER FOREST PRODUCE

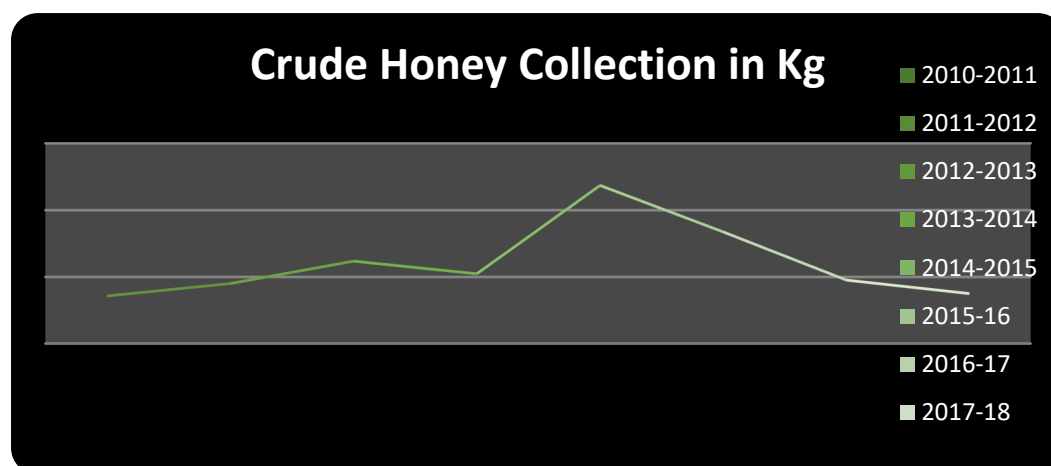
SUNDARBAN TIGER RESERVE

NON-TIMBER FOREST PRODUCE

Honey and bees-wax are the minor forest produce, which are collected during the months of April and May. Sundarban Tiger Reserve issues permits every year for honey collection. The honey so collected is deposited at different godowns of the Tiger Reserve for storage and subsequent disposal by handing over the same to West Bengal Forest Development Corporation Limited. Earlier, *Golpata (Nypa sp.)* and *Hental (Phoenix sp.)*, which were collected by the fringe villagers, was discontinued in 1978 and 1991 respectively. The coupe operation has been discontinued since the year 2001.

Non-timber Forest Produce (wild honey collection):

Year	2014-2015	2015-16	2016-17	2017-18	2018-19
Crude Honey Collection in Kg	47,412	33,515	19,050	15,000	
Total Permit Issue	160	91	82	68	
Total Man Involvement	1155	979	604	486	



Chapter - 8

PLANTATION

SUNDARBAN TIGER RESERVE



PLANTATION

- **MANGROVE PLANTATION**
- **NON-MANGROVE PLANTATION**

To meet the local demand of small-wood and fuel-wood, mangrove plants are artificially regenerated on the mud-flats adjoining the fringe villages of the Tiger Reserve. Non-mangrove plantations are also raised along village roads and earthen embankments to cater to the needs of the local people. Plantations (Mangrove and Non-mangrove) raised by Sundarban Tiger Reserve during last 8 (*eight*) years are given below:

Mangrove Plantation:

Year	Range	Area (in ha.)	Location
2007-08	SWLS	25.00	Pakhiralaya.
	Basirhat	10.00	Bhuruliapara & Bagnapara.
	NP (E)	5.00	Sonakhali (near Hogal river char).
	NP (W)	10.00	Bidya.
Total:		50.00	
2008-2009	-	-	-
2009-2010	-	-	-
2010-2011	NP (W)	4.00	Gosaba Char, Nethi-I.
	SWLS	6.00	Kakmari Char.
Total:		10.00	
2011-2012	NP(W)	8.00	Gosaba Char (Netidhopani-1), Kanchan Char.
	NP(E)	7.00	Chandipur.
	SWLS	5.00	Kakmari village side Char.
Total:		20.00	
2012-2013	SWLS	3.00	Dobanki Beat
	NPW	3.00	Goasaba-3 Comptt.
	Basirhat	6.00	Arbesi-5 Comptt.
Total:		12.00	
2013-2014	-	-	-
2014-2015	-	-	-
2015-2016	BHT	8	Jhila-3, Khatuajhuri-1
	NPE	12	Chandkhali-4, Chandkhali-3 & Bagmara-4
	SWLS	2	Dulki-2
	NPW	3	Netidhpani-1
Total		25	
2016-17	SWLS	2	Chargheri
	NPW	5	Kanchanchar
	NPE	3	Chandkhali-2
Total		10	
2017-18	SWLS	4	Dayapur and Lahiripur
	NPW	6	Kanchan Char
Total		10	
2018-19			

Non-Mangrove Plantation:

Year	Range	Area(in ha.)	Location
2005-2006	SWLS	10.00	Kakmari-Chargheri Roadside.
		10.00	Luxbagan-Parashmoni.
	Basirhat	2.00	Samsernagar-4.
		7.00	Gobindapur.
		2.00	Hentalbari.
		4.00	Mitrabari & Emliabari.
		7.00	Bagnapara.
		3.00	Bhuruliapara.
		NP (E)	15.00
	NP (W)	1.00	Balli.
		1.00	Bijohnagar.
		1.00	Satyanarayanpur.
		1.00	Amlamethi.
		1.00	Mathurakhanda.
Total:		65.00	
2006-2007	-	-	-
2007-2008	-	-	-
2008-2009	-	-	-
2009-2010	NP(E)	1.5 Km.	Gadkhali road Side (on both sides)
Total:		1.5 Km.	
2010-2011	NP(E)	1.5 Km.	-do-
	NP(W)	3.5 Km .	Balli Island
Total:		5.00 Km.	
2011-2012	SWLS	2.00 Ha.	Sonagaon village embankment.
	BHT	3.00 Ha.	Emliabari village – Natabar Vidya Niketan.
Total:		5.00 Ha.	
2012-2013	NIL		
2013-2014	NIL		
2014-2015	NIL		
2015-2016	NIL		
2016-2017	NIL		
2017-2018	NIL		
2018-2019			

“NAMAMI GANGA PROJECT” in Sundarban Tiger Reserve:

The detailed report is furnished below:-

Sl. No.	Name of Range	Institution	Number of Seedling planted	Area to be planted
---------	---------------	-------------	----------------------------	--------------------

1	HEAD Quarters Range	New Integrated Govt. School (Golkuthi para, Canning, Riverside Matla River)	2040 nos.	2.5 ha
2	HEAD Quarters Range	Canning Darikanath Valika Vidyalay	204 nos.	0.25 ha.
3	NPE RANGE	Gadkhali River side	408 nos.	0.50 ha.
4	NPE RANGE	Gosaba R.R. Institution.	204 nos.	0.25 ha
5	NPE RANGE	Gosaba South Sanga Abaitanic Prathamik Bidyalaya	204 nos.	0.25 ha.
6	NPE RANGE	Gosaba Panchayet Sishoo Uddaya	204 nos.	0.25 ha.
7	NPE RANGE	Gosaba Police Station Campus	204 nos.	0.25 ha.
8	NPE RANGE	Gosaba Bekar Banglow (Controlled by BDO/Gosaba)	204 nos.	0.25 ha.
9	NPE RANGE	Gosaba BDO's Ground	204 nos.	0.25 ha.
10	NPE RANGE	Gosaba Irrigation Office Compound	204 nos.	0.25 ha.
11	SAJNEKHALI WLS RANGE	Lahiripur Primary School	204 nos.	0.25 ha.
12	SAJNEKHALI WLS RANGE	Rajatjuniee High School and Bharat Sevasram, Rajatjublie	204 nos.	0.25 ha.
13	SAJNEKHALI WLS RANGE	Dutter Camp	612 nos.	0.75 ha.
14	NPW RANGE	Jagannath Smriti Primary School	816 nos.	1 ha.
15	NPW RANGE	Sundarban Asitbaran High School	408 nos.	0.5 ha.
16	NPW RANGE	Bali Kamlachak Primary School	408 nos.	0.5 ha.
17	BASHIRHAT RANGE	Saraswati F.P. School	204 nos.	0.25 ha.
18	BASHIRHAT RANGE	Natabar High School	408 nos.	0.50 ha.
19	BASHIRHAT RANGE	Kumirmari GP Land (Adibasipara)	1020 nos.	1.25 ha
20	BASHIRHAT RANGE	Kalitala GP Land	408 nos.	0.50 ha.
Total			8772 nos	10.75 ha





Chapter - 9



JOINT FOREST MANAGEMENT SUNDARBAN TIGER RESERVE

JOINT FOREST MANAGEMENT

DETAILS REGARDING JFMC:

•	No. of JFMCs	26
•	No. of JFMCs registered	26
•	No. of Revenue villages covered	38
•	No. of Family members	9,098
•	No. of SC Family members withpercentage	8,174(89.84%)
•	No. of ST Family members withpercentage	370(4.066%)
•	Total Forest area covered (in ha.)	26,474
•	No. of JFMC having Women as Executive Committee Members	26

STATUS OF ACTIVE SELF-HELP GROUP IN SUNDARBAN TIGER RESERVE:

Name of Range	Yeard					
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
National Park (W) Range						
Sajnekhali Wildlife Sanctuary Range						
Basirhat Range						
Grand Total:						

Report of Self Help Group of Sundarban Tiger Reserve

Sl. No.	Name of SHG	Registration	Beat / Camp	JFMC/ Panchayat	Composi tion	Present	Remarks on
		No.		Area		Activity	current Status
<u>SAJNEKHALI WILDLIFE SANCTUARY RANGE</u>							
1							

2							
3							
4							
5							

BASIRHAT RANGE

1	Kachipata	Nil	Bagna Beat	Adarpara/Kumirmari Gram Panchayat	Female	Newly formed, No activity	Acc. Activated and monthly instalment has been deposited regularly
1							
2							
3							
4		Nil					
5							
6							
7							

National Park (West) Range

Sl. No.	Name of SHG	Registration	Beat / Camp	JFMC/ Panchayat	Composition	Present	Remarks
1							
2							
3							
4							
5							
6							
7							

Works & Expenditure for JFMC Beneficiaries (Last 4 Years):

Sl	Item of	Location	2015-2016	2016-2017	2017-18	2018-19
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Annual Report 2018-19

No .	works		Phy.	Finan. (Rs. in Lakhs)	Phy.	Finan. (Rs. in Lakhs)	Phy.	Finan. (Rs. in Lakhs)	
1									
2									
3									
4									
5									
6									
7									
8									
27	J.F.M.C. Share								
		Total:							



Eco Development



Input Distribution and Capacity Building training



Input Distribution and Capacity Building training

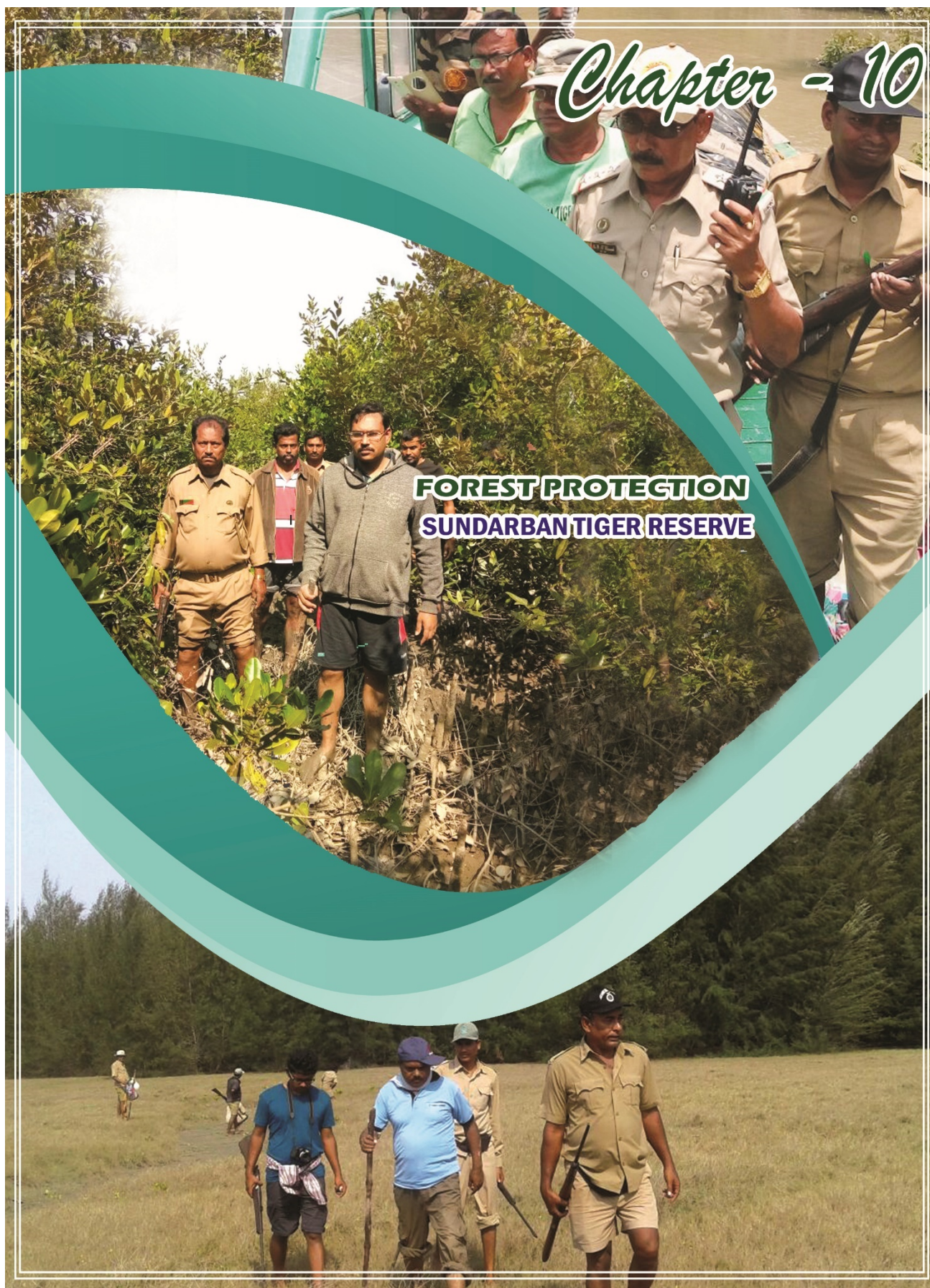


Input Distribution and Capacity Building training



Meeting





t

FOREST PROTECTION

- List of anti-poaching camps
- Protection strategy
- Offence scenario during last few years
- Introduction of E-Patrolling at STR
- Works and Expenditures on Protection and Conservation in last 3 years.

Land-based Camps			Floating Camps/ Check-Posts		
Sl.No.	Location	Range	Sl.No.	Location	Range
1	Pakhiralaya	Sajnekhali Wild Life Sanctuary Range	1	Kakmari	Sajnekhali Wild Life Sanctuary Range
2	Sajnekhali				
4	Dobanki				
5	Sudhanyakhali		2	Chilmari	
6	Jhilla	Bashirhat Range	3	Pirkhali	Bashirhat Range
7	Bagna		4	Sadakkhali	
8	Jhingekhali		5	Tentultola	
9	Khatuajhuri-Harinbhanga		6	Chayan (Moving Patrolling Camp)	
9	Burirdabri				
10	Harikhali				
11	Samsernagar		7	Banaraj (Moving Patrolling Camp)	NP East Range
12	Kaksa				NP West Range
13	Canning H.Q.	H.Q. Range			
14	Chamta	National Park (East)			
15	Bagmara				
16	Gosaba H.Q.				
17	Sonakhali				
18	Chandkhali				
19	Haldibari	National Park (West)			
20	Netidhopani				
21	Bidya				
22	Kendo				
23	Rampura	Rampura Mobile Range			

One State Armed Police Camp is posted at Jhila under Bashirhat Range headquarters. It also functions as a Special Strike Force and assists the field staffs in patrolling, raids and tiger rescue operations.

- **State Armed Police Force Camp established in the year: 2000**
- **No. of State Armed Police personnel posted: 5+1**

Rank of highest ranked officer posted in the Camp: Head Constable

Two BSF camps have been established at Khatuajhuri and Bagna camps under Bashirhat Range. They along with the field staff carry out joint patrolling operations besides performing their day to day duties.

No. of BSF personnel posted: 6+1 (Khatuajhuri) and 9+1 (Bagna Camp)

Name of highest ranked officer posted in the Camp: Sub-Inspector

PROTOCOL FOR CREATION AND MAINTENANCE OF NYLON NET FENCING:

Background:

Nylon-net fence has been found to play an important role in preventing the straying out of tigers into village's areas from forest. A protocol for maintenance of the nylon-net fencing has been designed with an aim of carrying out thorough checking and proper maintenance. The Protocol includes involvement of local Stakeholders in FPC/EDC members also along with forest staff.

Rangewise location of the existing Nylon-Net fence and its maintenance is given below:

Range	Total Length of Nylon-Net Fencing	Location
N.P.(W)	20 km. (inclusive of khal guards)	• From Belegudam khal to Nawbanki khal
S.W.L.S.	36 km. approx. (inclusive of khal guards)	• Pirkhali Khal to Pakhirkhal : 5 Km approx • Pakhirkhal to Lalitkhali: 9 km. approx • Lalitkhali to Ranjit's khal: 5 km. approx. • Ranjit's khal to Duttar Beat: 6 km. approx. • Duttar Beat to Kakmari Khal : 11 km. approx
BHT	40 km. approx. (inclusive of khal guards)	• Shamsernagar (Kalindi River side) to Jhingekhali Beat: 13 km. approx. • Ranimangal river to Jhilla river (Arbesi-2 Comptt.): 7 km. approx. • Jhilla Compound to Kakmari khal: 20 km. Approx.

Fencing checking Protocol: A Fencing Register will be kept in each station and records will be kept in accordance to the parameters given below:

Sl.No.	Rank	Frequency	Remarks
1	Concerned Forest Guard	Daily	He will take at least one concerned FPC/EDC Member & both will jointly sign in Fencing checking Register.
2	Concerned Beat Officer	Weekly once	He will take the Joint Convenor of concerned FPC/EDC Member & both will jointly sign in Fencing checking Register.
3	Concerned Range Officer	Once in 15 days	He will take the Concerned Forest Guard or Beat Officer along with and will report to DFD/STR in detail as well as will mention in fencing checking Register.
4	Asstt. Field Director/STR	Once in a month	They will check the fencing in the field to verify that the same has been maintained properly.
5	Dy. Field Director/STR	Once in six weeks	He will check the fencing in the field to verify that the same has been maintained properly.

Parameters for fence checking:

The total length of Nylon Net fencing has to be checked as proposed on following parameters:

- Height of Nylon Net fencing maintained (***The height should be of 10 ft minimum; (in case of new fencing) and 8.0ft (in case of old fencing)***)
- Height of Khal guard to be maintained at least 5 ft above from the highest tidal level estimated for '***Kotal***' period.
- Condition of nylon rope of the net (***(if the net found brittle, immediately it should be changed after bringing it to due notice to the concerned authority)***)
- Condition of the posts of the fencing (***(if found rotting at the base, to be changed immediately after bringing it to due notice to the concerned authority)***)
- Condition of the runner (***(the tensile strength to be checked) GI runners to be used.***)
- Condition of khal guard (***(if sagging noticed, to be repaired immediately)***)
- Monitoring frequency (***(as proposed)***)

'Reverse funnel 'made by nylon-net fences at khal mouth should be maintained with at least 50mt. side wing.

- Fencing posts will be changed from 'Bain' to 'Goran' to bamboo in phases depending on availability of the same.

Details of Offence & Seizure:

Sl. No.	FOREST OFFENCE	2014-15	2015-16	2016-17	2017-18	2018-19
1.	POR (in Nos.)	3	6	2	2	
2.	COR (in Nos.)	3080	3050	2872	2581	
3.	UDOR (in Nos.)	13	20	20	14	
4.	No. of Persons Arrested	2	20	7	4	
5.	Incidences of Firing by Staff (<i>in Round</i>)	NIL	5	NIL	12	
6.	No. of Offender Died	NIL	NIL	NIL	NIL	
7.	No. of Offender Injured	NIL	NIL	NIL	NIL	
8.	No. of Forest Staff Killed	NIL	NIL	NIL	NIL	
9	No. of Forest Staff Injured/Assaulted	1	NIL	NIL	NIL	
10.	Total Compensation Realised (<i>in Rs.</i>)	24,66,230.00	23,00,350.00	22,15,630.00	20,54,850.00	
11.	Quantity of Timber Seized (<i>Sawn & Log</i>)	1.725m ³	4.073 m ³	73.165 m ³	0.36m ³	
12.	No. of Vehicle Seized	NIL	Nil	NIL	NIL	
13.	No. of Dingi Seized	10	7 Nos	12	13	
14.	No. of Mechanised Boat / Troller Seized	NIL	9Nos	5	1	
15.	No. of Cattle Seized	NIL	45	22	17	

Introduction of E-Patrolling at STR:

Age-old pattern, procedure and practise of traditional patrolling and wildlife monitoring had some limitations with only use of manual pen, pencil and papers along with prolonged and time-bound use of RT system. Main constraints were time dependency on RT network, errors and time-consumptions in manual entry, possibilities of data manipulation and absence of real-time data. It was to overcome all of these limitations E-patrol/ Smart patrolling was introduced in Sundarban Tiger Reserve in this year.

In this new system every camp has been given a smart phone with a mobile application (written in Java language) installed on it for monitoring and patrolling purpose.

With this software/application the front-end staffs are recording their every possible activity like patrolling, fencing checking, night patrols, offence detections wildlife sightings etc.

Those real time recorded data will directly be going into main database which is made by MySQL RDBMS (Relational Database Management System) via a server mobile app which receives SMSs from the field phones and converts and sends them to the main server database in the form of raw data

That real time patrolling data, which has been well tabulated, analysed and synchronised into the main server database, can directly be monitored instantly by the monitoring applications loaded in the smart phones of senior hierarchy.

Other than that multiple reports of versatile types and patterns can easily be fetched out from that said database at any time through the web.

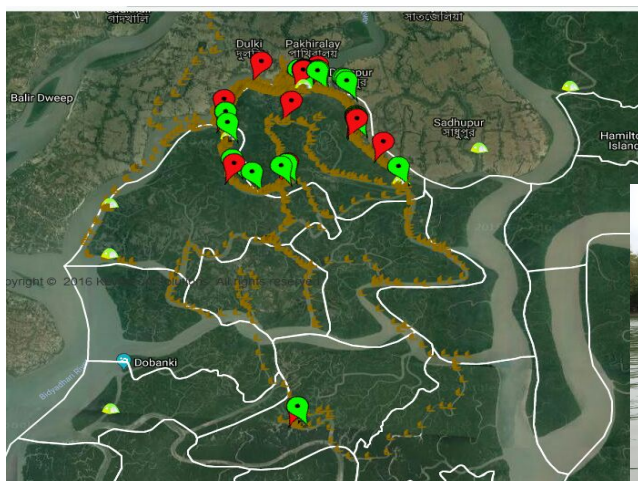
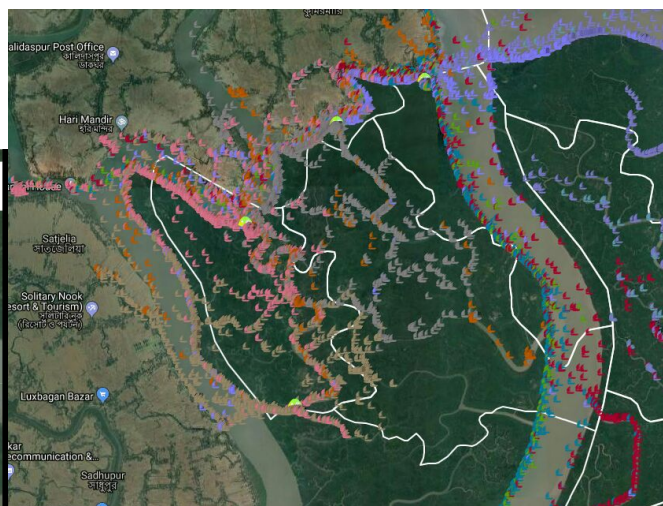
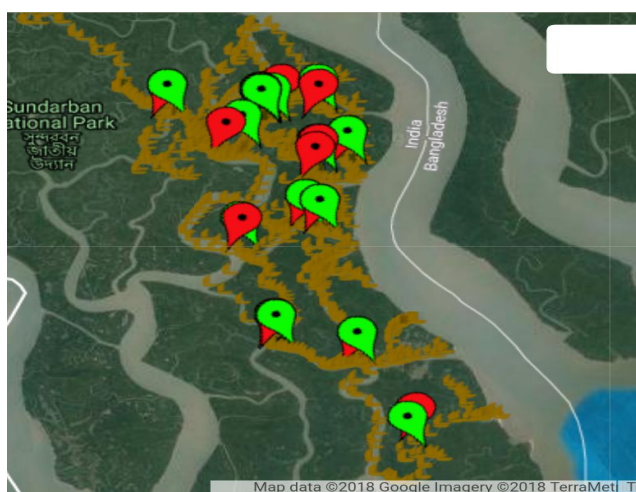
SI No.	Item of works	Location	2016-2017		2017-18		2018-19
			Phy.	Finan.	Phy.	Finan.	
				(Rs.		(Rs.	
				in Lakhs)		in Lakhs)	
1	Electric connection at Pakhiralaya with wiring, Fans, Lights & Street Light (Nos)	Pakhiralaya under SWLS Range, Jhingekhali, Basirhat Range.					
2	Construction of Wireless Control Tower (nos) and maintenance ## Maintenance of Wireless Network all over STR	Chamta under NP(E) Range			21	2.52	
3	Installation of Solar Power Plant (1.5 KVA) (3 KVA)(nos) including solar electrification and systems	Chandkhali under NP(E) Range, Kanksa under BHT Range, Chandkhali under (NPE) Range, Chamta under NP(E) Range, Baghmara under NP(E) Range, Kendo under NP(W) Range, Netidhopani under NP(W) Range, Burirdabri & Khatuajhuri under BHT Range and Sudnanyakhali under SWLS Range Haldibari & Kendo under NP(W) Range, Sajnakhali under SWLS Rang, Samsernsgsr, Pakhirala and Jhila. # Dobanki, Khatuajhuri, harikhali and	4	27.54	4	9.99	

		Chamta including wiring at Harikhali and Khatuajhuri					
4	Construction of raised Tube-well(nos), deep tubewell	Kanksa under BHT Range, Bidya under NP(W) Range, Pakhiralaya under SWLS, Khatuajhuri & Adibasipara under BHT Range, Sudhanyakhali under SWLS Range, Bagna & Harikhali under BHT Range (2013-14) Lahiripur & Dobanki under SWLS Range Bidya under NP(W) Range (2014-15), Netidhopani under NP(W) Range & Baghmara under NP(E) Range, Rampura under Rampura Range, Haldibari, Netidhopani, Dulki, Bashirhat and Bidya (2016-17)	7	28.68			

5	Excavation of Sweet Water Pond(nos)/Water harvesting structure	Kanksa under BHT Range, SWLS, BHT, NP(W) & NP(E) Range; Neti, Kumirmari, Bidya, Jhila, Bagna, Lahiripur, Sonagaon, Emblibari, Bagnapara, Satyanarayanpur, NP(E) 7 NP(W) # Chamta, Haldibari	12	14.51	2	5.39	
6	Staff Barrack including approach path (no)	Rampura under supervision of BH ,Netidhopani under NP(W) Range, Kanksa under BHT Range, Chamta under NP(E) Range, Chandkhali under NP(E) Range ## Maintenance All over STR Camps			16	24.73	
7	Construction of Jetty	Kanksa under BHT Range, Dobanki under SWLS Range & Gosaba under NP(E) Range (2013-14) Jhinakhali under BHT Range, Baghmara under NP(E) Range, Chandkhali under NP(E) Range; # Harikhali and Jhila			3	27.2	
8	Construction of Brick Paved Road (265 Rmt.)	Jhingakhali under BHT Range					
9	Construction of Watch Tower(nos)	Netidhopani under NP(W) Range # Maintenance of watch tower and renovation at Haldibari and Sajnekhali	2	33.7	2	17.32	

10	Construction of Samsernagar Floating Camp into land based camp. (total)	Samsernagar under BHT Range					
11	Extension of existing Jetty (Nos)	Sudhanyakhali under SWLS Range & Satyanarayanpur under (NPW) Range and Haldibari under NP(W) Range, 2017-18- bagmara, haldibari, netidhopani, chamta, kendo, chandkhali - all over STR	5	4.71	14	53.04	
12	Extension of Barrack (Nos)	Chandkhali under NP(E) Range 2017-18- All over STR Burirdabri, Jhila, Jhingekhali etc. Extension in Sudhanyakhali, Bagna and Canning HQ	9	10	3	13.1	
13	Compound development of existing old camps & Compound fencing .	Sudhanyakhali under SWLS Range, Bagna under BHT Range, Netidhopani under NP(W) Range & Baghmara under NP(E) Range Sajnakhali under SWLS Range, Jhila under BHT Range, Haldibari under NP(W) Range Baghmara under NP(E) Range (2014-15) .# Compund Development all over STR	5	14.46	21	67.7	
14	Maintenance of compound chain link fencing	Sajnakhali, Khatuajhuri under SWLS Range, Burirdabri under BHT Range and Bidya under NP(W) Range # Harikhali,	3	2.35		10.18	

		Burirdabri, Haldibari, Chamta, Chandkhali					
		<i>Total:</i>	47	135.95	86	231.17	



Chapter -11

WILDLIFE MANAGEMENT

SUNDARBAN TIGER RESERVE



WILDLIFE MANAGEMENT

- DEATH CASES (OTHER THAN POACHING)
- POACHING CASES
- WILD ANIMALS (OTHER THAN TIGER) RESCUED
- TIGER CAPTURED/IMMOBOLIZED
- TIGER STRAYING INCIDENTS
- BATAGUR BUSKA CONSERVATION PROJECT

DEATH CASES (other than Poaching) IN SUNDARBAN TIGER RESERVE:

YEAR	WILD ANIMAL	NUMBERS
2004-2005	Spotted Deer	2
	Olive Ridley Turtle	2
	Dolphin	1
	Fishing Cat	1
	Green Sea Turtle	1
Total		7
2005-2006	Tiger	1
	Spotted Deer	10
	Crocodile	1
	Wild Boar	1
	Fishing Cat	4
	Jungle Cat	4
	Olive Ridley Turtle	7
Total		29
2006-2007	Tiger	1
	Spotted Deer	3
	Wild Boar	3
	Olive Ridley Turtle	3
	Dolphin	2
	Rhesus macaque	1
	Turtle	3
	Cobra	1
Total		17
YEAR	WILD ANIMAL	NUMBERS
2007-2008	Spotted Deer	2
	Wild Boar	1
	Fishing Cat	4
	Crocodile	1
	Dolphin	1
	Rhesus macaque	1
	Olive Ridley	5
	Deer fawn	1

	Total	16
2008-2009	Spotted Deer	2
	Dolphin	1
	Olive Ridley	3
	Otter	1
	Mongoose	1
	Total	8
2009-2010	Spotted Deer	6
	Tiger	1
	Jungle Cat	1
	Wild Boar	3
	Civet	1
	Olive Ridley	1
	Rhesus macaque	1
	Total	14
2010-2011	Spotted Deer	2
	Tiger	1
	Civet	1
	Total	4
2011-2012	Spotted Deer	2
	Tiger	1
	Olive Ridley	2
	Crocodile	1
	Crested Serpent eagle	1
	Total	7
2012-2013	Tiger	2 (including 1 cub)
	Spotted Deer	4
	Olive Ridley Turtle	6
	Jungle Cat	1
	Gangetic Dolphin	1
	Irawadi Dolphin	1
	Rhesus Monkey	3
	Esturine Crocodile	2
	Water Monitored Lizard	1
	Total	21
2013-2014	Spotted Deer	5
	Olive Ridley Turtle	4
	Jungle Cat	5
	Gangetic Dolphin	1
	Total	15
2014-15	Tiger	1

	Spotted Deer	1
	Olive Ridley Turtle	2
	Owl	4
	White breasted Eagle	1
	Total	9
2015-16	Lesser adjutant stork	1
	Tiger	2
	Jungle Cat	2
	Spotted Deer	5
	Wild boar	4
	Dolphin	3
	Estuarine Crocodile	2
	Total	19
2016-17	Wild Pig	1
	Spotted Deer	1
	Gangetic Dolphin	1
	Estuarine Crocodile	1
	Total	4
2017-18	Crocodile	3
	Rhesus Macaque`	4
	Wild Boar	1
	Jungle Cat	1
	Plam Civet	1
	Spotted Deer	1
	Jackal	1
	Black Crowned night Heron	1
	Owlet	1
	Parrot	1
	Total	15
2018-19		

POACHING CASES IN SUNDARBAN TIGER RESERVE:

YEAR	NAME OF ANIMAL	NUMBER
2003-2004	Spotted Deer	1
	Olive Ridley Turtle	1
2004-2005	Wild Boar	1
2005-2006	Spotted Deer	2
2006-2007	Wild Boar	4
2007-2008	Spotted Deer	4
2008-2009	Tiger	1
2009-2010	Spotted Deer	3 (POR cases have been lodged after arresting the accused)
2010-2011	NIL	NIL

Annual Report 2018-19

2011-2012	Jungle cat	1 No. (Accused arrested & POR drawn)
2012-2013	Spotted Deer	1 (Accused arrested & POR initiated)
2013-2014	NIL	NIL
2014-2015	Wild Boar	1 No. (Accused arrested & POR drawn)
	Spotted Deer	POR drawn
2015-16	Spotted Deer	2 Nos. (Accused arrested & POR drawn)
2016-17	NIL	NIL
2017-18	NIL	NIL
2017-18	NIL	NIL
2018-19		

WILD ANIMALS (OTHER THAN TIGER) RESCUED BY SUNDARBAN TIGER RESERVE SINCE 2012-2013:

Name of Animal	Total No. of Animal Rescued						
	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Spotted Deer	2	4	2	1			
Wild Boar		3	4	5			
Dolphin			1				
Small Clawed Otter			1				
Jackal			1			2	
Olive Ridley Turtle	3	3	2				
Hawksbill Turtle				1			
Turtle		27	8	4	1	1	
Water Monitor Lizard	4	1	4	8	3	3	
Batagur baska (Northern River terrapin)	1			-		1	
Fishing Cat	1		1	5	1	1	
Jungle Cat	6	14	4	17	4	11	
Civet	1	1		-			
King Cobra	1		5	-		3	
Monocled Cobra	4	14	8	3	70	81	
Rhesus macaque	3	1	2	2			
Purple Swamp Hen	-	-	-	-	1		
Lesser Adjutant Stork		2	5			1	

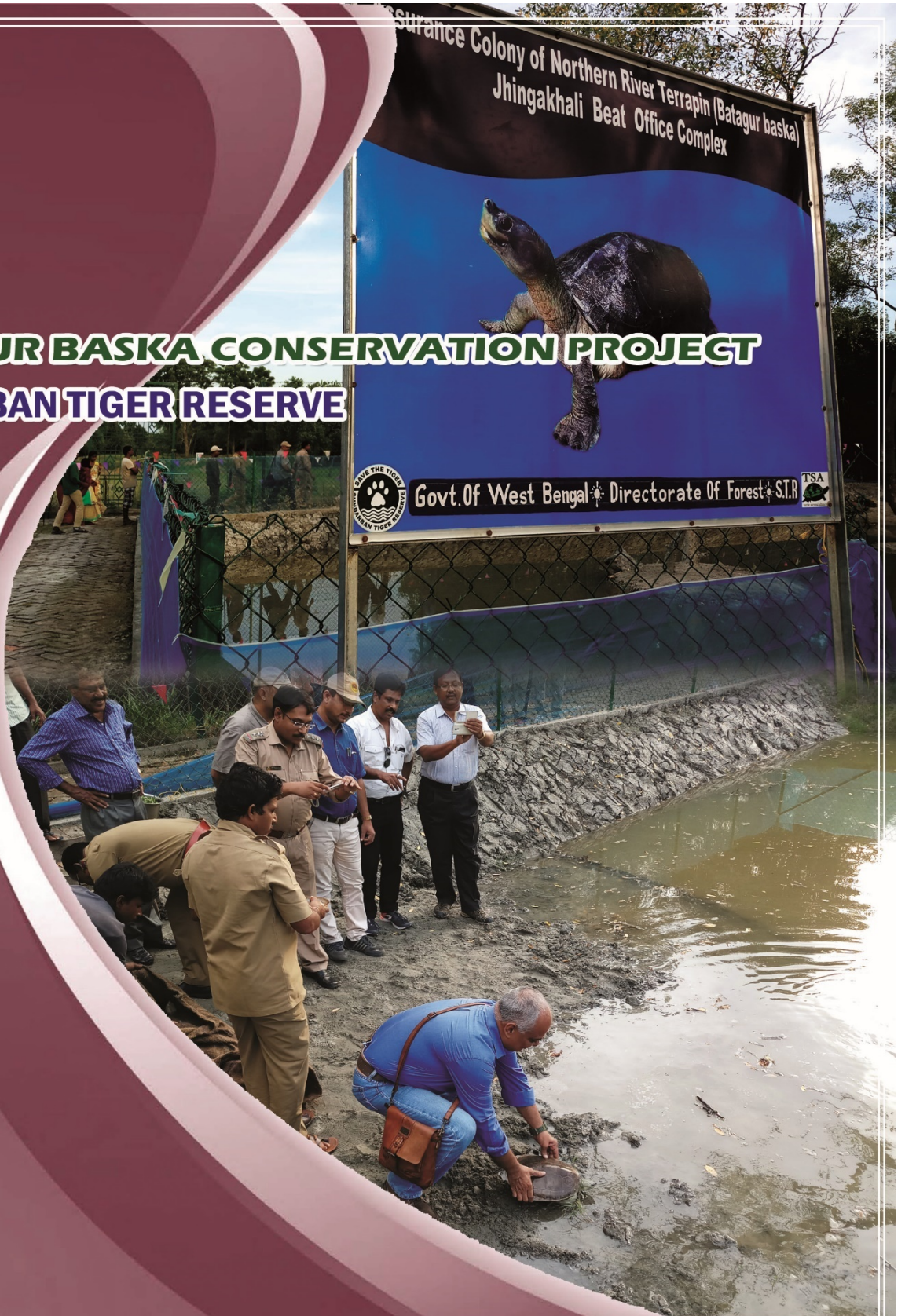
Annual Report 2018-19

Eagle	2	1	1			2	
Osprey						2	
Brahminy Kite						1	
Mongoose		2					
Crocodile			1			1	
Owl	1	2	6		1	5	
Leopard Cat	1	8	1				
Heron							
Cormorant							
Gull-billed Tern						1	
Birds		2		2			
Banded krait	2						
Python				1			
Viper		2	1	1	1	1	
Common krait			1		2	4	
Common Cat Snake						1	
Kalnagini	-	2					
Octopus (small)			1				
Cotton Pygmy Goose	-	5					
Geko	-	-	-	4			
Jelly fish				1			
TOTAL:	63	32	94	55	84	122	



BATAGUR BASKA CONSERVATION PROJECT

SUNDARBAN TIGER RESERVE



BATAGUR BASKA CONSERVATION PROJECT:

Introduction:

Batagur baska (Gray, 1830) – commonly known as Northern River Terrapin, is four-toed terrapin, giant river Turtle belonging to the family Geoemydidae, and order Testudines. It is listed as a critically endangered in the IUCN Red List, 2006, and also in the “Top Twenty-Five Turtles in Trouble” published by Turtle Conservation Coalition in 2011. It is also listed in the Appendix–I of CITES and commercial international trade in specimens of the species is prohibited. Once it was widely distributed in India, Bangladesh, Myanmar, Thailand, Cambodia, Indonesia, Malaysia and Singapore. It is extinct in the wild from Thailand, Myanmar and Vietnam.

The Indian subcontinent has one of the richest assemblages of chelonians in the world with 28 freshwater and land species. Out of the four freshwater species (*Batagur baska*, *Callagur broneoensis*, *kachuga trivittate*, *Pelochelys bibroni*) inhabiting brackish water of tropical Asia, two species viz., Northern River Terrapin (*Batagur baska*) and Asian Giant Softshell turtle (*Pelochelys bibroni*) are found in India. Although both species had wide distribution in South-East Asia, both are rare throughout its distributional range. *Batagur baska* was once very common in India in parts of West Bengal viz. in Hoogly river mouth of West Bengal, in the mid 19th century (Blyth in. Gunther 1864), where it has been reported to be extinct today and also in Sundarbans. It also has been reported to be extinct from Orissa mangroves mainly due to uncontrolled exploitation of its egg and flesh.

However, in 1983 it was rediscovered in Sundarban Tiger Reserve (Moll 1990). This was indicative of a few individuals, if not population was still dwindling in Sundarbans, India. In India and Bangladesh, remaining individuals are so few and scattered that the only way to recover and re-establish this species in its wild habitat is by acquiring wild terrapins, captive propagation and population re-establishment at a suitable time and place. In 1988 initiative was taken by Sundarban Tiger Reserve management and after intensive survey three clutches were detected and artificial hatching was conducted successfully. During the 1981-1991 period 18 nests were recorded by field staffs of Sundarban Tiger Reserve. In 1992-1993 survey conducted by Wildlife Institute of India only one nest was recorded (Bhupathy et al, 1995). However in 1994 survey no nests were recorded (Bhupathy et al, 1995).

At present Sundarban is the only known abode of *Batagur baska* in India. West Bengal Forest Department with the help of Turtle Survival Alliance-India have been trying to recover this species since 2008. In August 2008, 12 *Batagur baska* were captured from Sajnekhali range of Indian

Sundarban which led to reinstating of breeding programme in Sundarban Tiger Reserve after a hiatus of 20 years. Accordingly 33 Batagur baska hatchlings were reported during 2012 and are now being successfully reared at the hatching enclosure in Sajnekhali. They are being reared with the active participation and support of Turtle Survival Alliance (TSA). There has been no mortality of the hatchling during this period. It has been resolved that two year old Batagur hatchling or Batagur baska weighing one kg will be released in the wild after habitat survey with the active assistance of TSA. The successful re-introduction of Batagur baska in Sundarban will eventually restore critically endangered species in the wild again.

Soft Release of Northern River Terrapin in Sundarban Tiger Reserve:

During March 2014, selected river stretches were surveyed for soft release of the individuals. As per the protocol a temporary enclosure was constructed at the creek of Chamta khal. On 17/01/2016, 10 (six female and four males) juvenile Batagur baska were released at the creek of Chamta khal, fitted with ultrasonic transmitter with a temperature sensor.

Setting up of Assurance Colony:-

Assurance colony was set up at three places apart from Sajnekhali within the Sundarban Tiger Reserve in order to avoid congestion, disaster, depredation and over-crowding of individuals hatching every year and also as a precautionary measure in case of any contagious disease breakdown all the individuals will not be lost in case of emergency. As Sundarban is a storm prone area it became compulsory to set up assurance colony in order to avoid mishaps when in 2009 Alia hit Sundarban one male was lost due to overflow of the breeding pool.

Present stock of Batagur baska in Assurance Colony			
Assurance Colony	Male	Female	Total
Chamta	7	13	20
Jhingekhali	3	13	16
Netidhopani	NA	NA	34



Breeding Status (ex situ) of *Batagur baska* in Sundarban Tiger Reserve

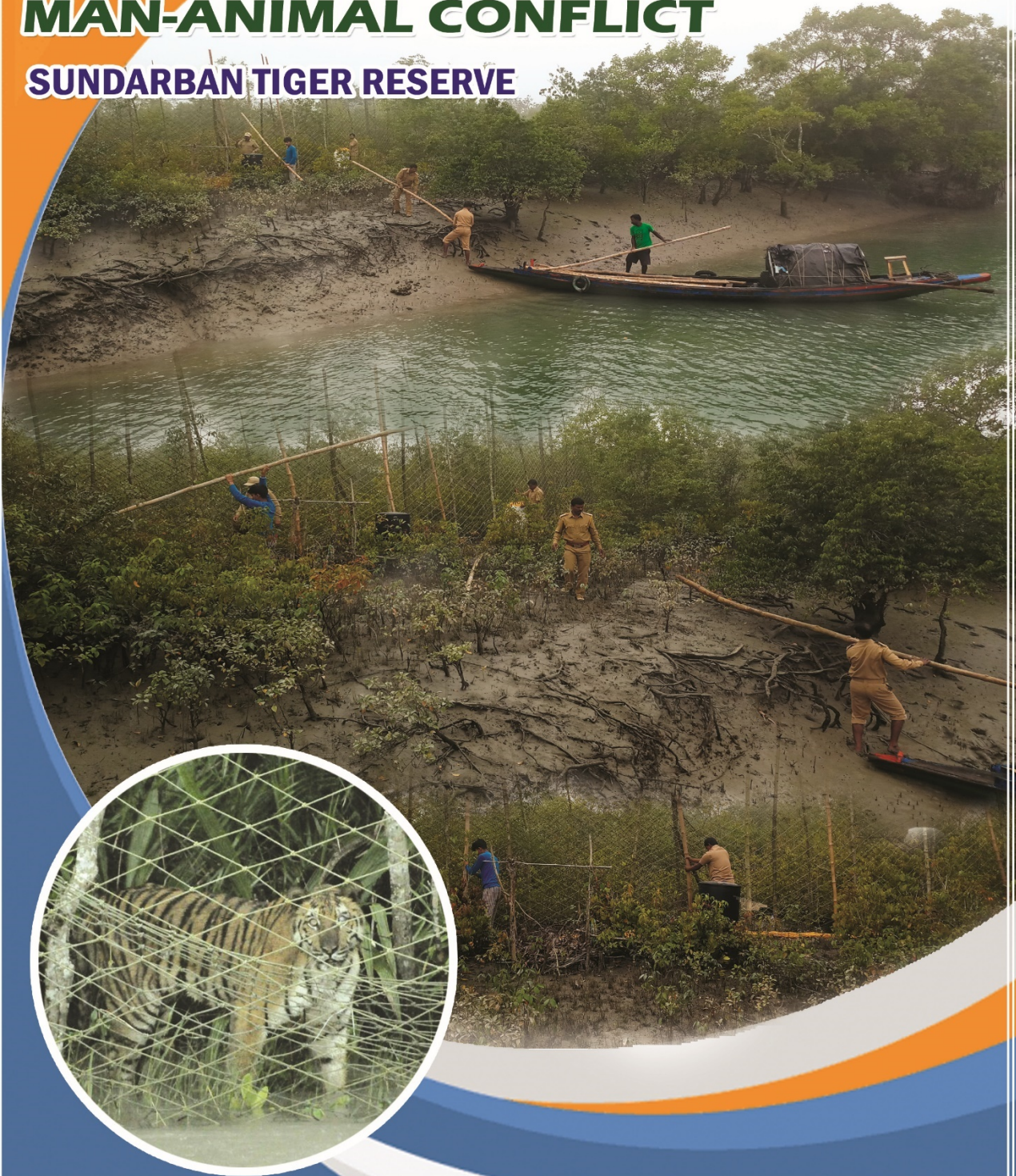
Yearling	No. of Individuals	Male	Female	Unidentified	Remarks
2012	33	0	3 2	1	1 could not captured and examined
2013	56	2 0	3 6		
2014	55	4	5 0	1	
2016	96				Sex of the individuals yet to be identified 10 individuals were released into their wild habitat during December, 2016.
2017	74				
2018					
Total	311				



Chapter - 12

MAN-ANIMAL CONFLICT

SUNDARBAN TIGER RESERVE



Mitigation of Man-Animal conflict:

SI No.	Item of works	Location	2016-17		2017-2018		2018-2019	2018-2019
			Phy.	Finan.	Phy.	Finan.	Phy	Finan
				(Rs.		(Rs.		(Rs. in lakhs)
				in Lakhs)		in Lakhs)		(Rs. in lakhs)
1	Purchase of Search Light	All over STR		3.09	48	1.47		
2	Purchase of Solar Light	All over STR						
3	Nylon Net Fencing along forest boundary (maintenance and new) (kms)	Sajnakhali under SWLS & Jhinekhali under BHT Range (2013-14), Jhila, Jhinekhali, Pirkhali, Panchamukhani, Pirkhali 2 & 4 Comptt. (2014-15) Jhila, Jhingekhali under BHT Range, Pirkhali & Panchamukhani under SWLS Range and Pirkhali -2 & 4 under NP(W) Range (2015-16), Pirkhali under NP(W) Range	88	37.55	96	113.28		
4	Maintenance of 96 Kms. Fencing including wages, hiring of boats, purchase of materials (Kms)	All over STR	96	54.96	96	19.48		

Annual Report 2018-19

5	Purchase of Solar Lights for illuminating village forest interface (kms & nos)	Sajnakhali under SWLS & Jhinekhali under BHT Range (2013-14) SWLS, BHT & NP(W) Range (2014-15)	1.5	6.6				
6	Construction of a new boat	Canning	2					
7	Camera & Range Finder							
8	e-PMP Software & e-Patrol			2.12		6.26		
9	Camera Trap			2.31		48.36		
10	U.A.V. (Drone)		1	2				
11	Purchase of Solar Lights, Panels & Batteries	All over STR						
12	Purchase of Camera, Binoculars, GPS & Computer	All over STR				5.42		
13	Purchase of Foldable Rubber Speed Boat	Head Quarter Range						
14	Purchase of Speed Boat	HQ	1	27.61				
TOTAL			190	136.24	240	194.27		

Tiger Straying & its Management in Sundarban Tiger Reserve in 2018-19

Date	Animal Description (age, sex, etc.)	Location	Range/Beat	Management Action	Extent of Damage (if any)	Remarks
<div> <div>←</div> <div>-----Nil-----</div> <div>→</div> </div>						

Annual Report 2018-19

SI	Date	Place of Incide	Name of Victim	Parentage	Address Details	Age	Sex	Remarks
----	------	-----------------	----------------	-----------	-----------------	-----	-----	---------

Human Death /Injury caused by Crocodile (2018-19)

SL.No.	Date	Name of person with details (age, sex, address etc.)	Place of incidence	Killed or Injured	By which species
<div> <div>←</div> <div>-----Nil-----</div> <div>→</div> </div>					

Cattle Death caused by Tiger:

Date	Name of Village	Number of Cattle Killed				
		Cow	Goat	Pig	Dog	Duck
←-----Nil----- →						

Death/Injury of Human by Tiger

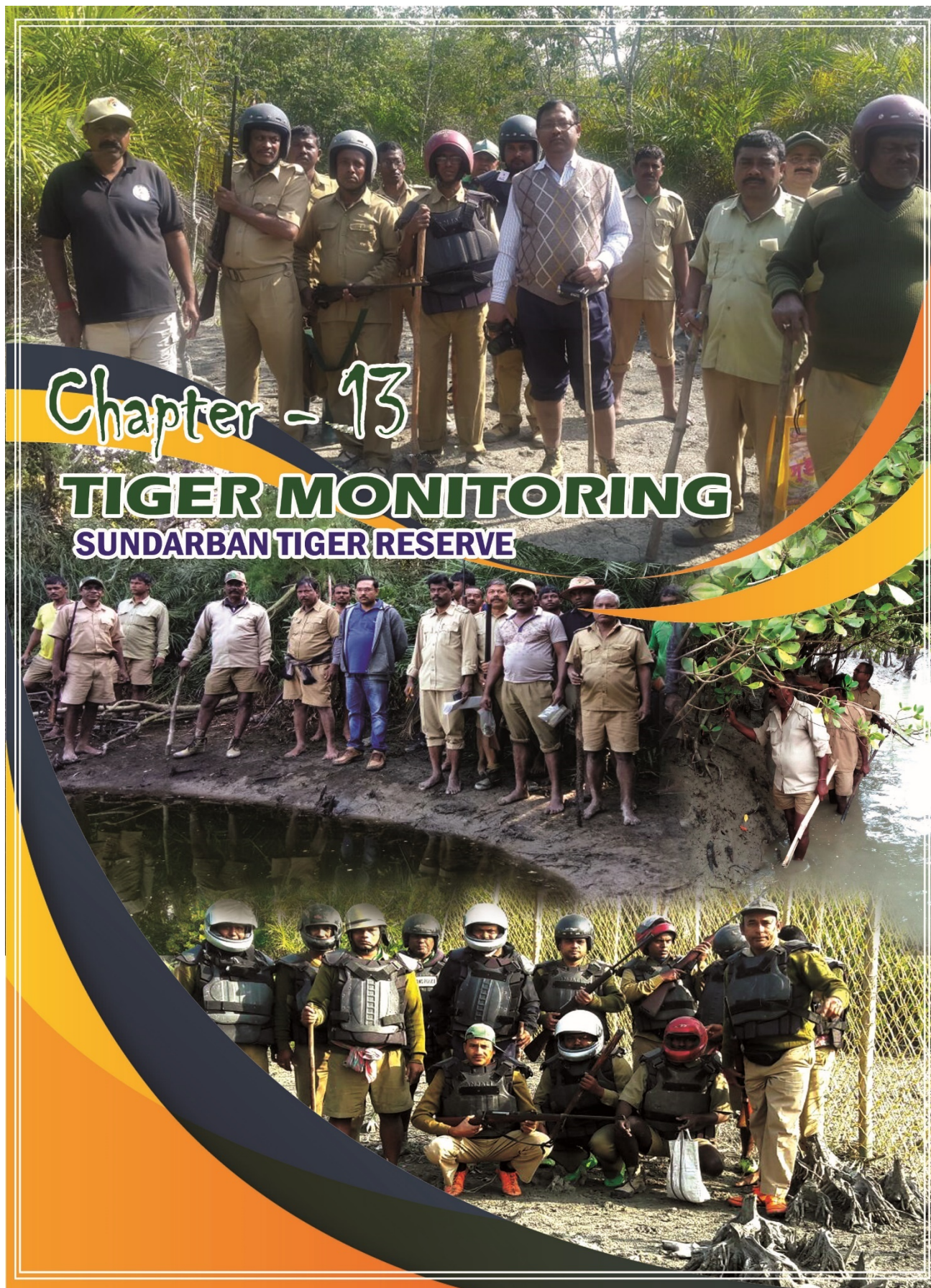
		nt						
1								
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10								

Tiger Straying in Last 8 years

Year -2017	Tiger Straying
2010-11	17
2011-12	19
2012-13	12
2013-14	0
2014-15	3

Annual Report 2018-19

2015-16	0
2016-17	0
2017-18	0
2018-19	0



Chapter - 13

TIGER MONITORING

SUNDARBAN TIGER RESERVE

TIGER MONITORING IN SUNDARBAN TIGER RESERVE

Tiger Monitoring a well-devised monthly monitoring system where direct tiger sightings and other evidences (indirect) of presence of tigers and their movements in the Tiger Reserve are being recorded, as per the directive of National Tiger Conservation Authority (formerly known as 'Project Tiger'). The table given below shows a summary of the month-wise scenario for the whole year:

Month	Direct Sighting		Heard of Roaring	Sighting of Fresh Pugmark	
	Adult	Cub		Adult	Cub
April, 18					
May, 18					
June, 18					
July, 18					
August, 18					
September, 18					
October, 18					
November, 18					
December, 18					
January, 19					
February, 19					
March, 19					
Total					

Annual Tiger Monitoring by Camera Trapping 2018-19:

Data Metrics and Demography of Tiger Individuals in Sundarban:

Forest Division/Range	Total Area (sq. km)	Total grids of 2 sq. km each	Camera Trap Grids	Camera Trapped area (Based on no. of Grids)	Total Grid with tiger captures
-----------------------	---------------------	------------------------------	-------------------	---	--------------------------------

Annual Report 2018-19

				[sq. km]	
National Park (East) Range					
National Park (West) Range					
Bashirhat Range					
Sajnekhali Wildlife Sanctuary					
24 Parganas (South) Forest Division					

Sl No.	Forest Division/Range	Tiger Individuals						
		Male	Female	Cub	Unidentifiable Sex	Recaptured Adult Individuals from previous session	New Adult Individuals Captured	Total Adult Individuals
1	National Park (East) Range							
2	National Park (West) Range							
3	Basirhat Range							
4	Sajnekhali Wildlife Sanctuary							
5	24 Parganas (South) Forest Division							

Annual Tiger Monitoring by Camera Trapping 2017-18:

Forest Division/Range	Total Area (sq. km)	Total grids of 2 sq. km each	Camera Trap Grids	Camera Trapped area (Based on no. of Grids) [sq. km]	Total Grid with tiger captures
National Park (East) Range	850	310	180	360	55
National Park (West) Range	Camera Trapping yet to be Conducted				
Bashirhat Range	466	94	60	240	48
Sajnekhali Wildlife Sanctuary	Camera Trapping yet to be Conducted				
24 Parganas (South) Forest Division	Camera Trapping yet to be Conducted				

Sl No.	Forest Division/Range	Tiger Individuals						
		Male	Female	Cub	Unidentified Sex	Recaptured Adult Individuals from previous session	New Adult Individuals Captured	Total Adult Individuals
1	National Park (East) Range	Analysis Ongoing						
2	National Park (West) Range	Camera Trapping yet to be Conducted						
3	Basirhat Range	Analysis Ongoing						
4	Sajnekhali Wildlife Sanctuary	Camera Trapping yet to be Conducted						
5	24 Parganas (South) Forest Division							

Forest Division/Range	Total Area (sq. km)	Total grids of 4 sq. km each	Camera Trap Grids	Camera Trapped area (Based on no. of Grids) [sq. km]	Total Grid with tiger captures
National Park (East) Range	850	155	60	240	29
National Park (West) Range	890	138	60	240	32
Basirhat Range	466	94	60	240	28
Sajnekhali Wildlife Sanctuary	430	103	60	240	35
24 Parganas (South) Forest Division	454	116	86	344	47

SI No.	Forest Division/Range	Tiger Individuals						
		Male	Female	Cub	Unidentifiable Sex	Recaptured Adult Individuals from previous session	New Adult Individuals Captured	Total Adult Individuals
1	National Park (East) Range	4	11	0	1	11	5	16
2	National Park (West) Range	5	9	0	5	14	5	19
3	Basirhat Range	4	7	4	4	9	6	15
4	Sajnekhali Wildlife Sanctuary	1	9	0	3	9	6	15
5	24 Parganas (South) Forest Division	8	15	0	1	14	10	24
	Total	22	51	4	14	57	32	
	Cumulative total Individuals (Note: Cubs were excluded from the total count)						87 (Two individuals captured in Basirhat Range were	

		recaptured in Sajnekhali Wildlife Sanctuary)
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All India Tiger Estimation - Boat Transect



All India Tiger Estimation - Scat Collection



All India Tiger Estimation - Training



All India Tiger Estimation - Training





Chapter - 14

ECO-TOURISM

SUNDARBAN TIGER RESERVE



ECO-TOURISM

ECO-TOURISM IN SUNDARBAN TIGER RESERVE:

Sundarban has always been alluring to the tourists who come here to enjoy the scenic beauty of the pristine mangrove forests. Since inception of Tiger Reserve there has been a steady increase of visitors to the area. The tourists entering the Tiger Reserve have to take a permit after paying the entry fees. Presently, the entry of the tourists is restricted mainly within the Buffer area. Near about 35% tourist inflow increases than last year which have created huge pressure on Biodiversity.

TOURISTS VISITING THE AREA:

YEAR	No. of Tourists (per entry point) [including Crew Member]												TOTAL
	Indian						Foreigner						
	Canning (Hqr. Range)	Sonakhali [NP(E) Range]	Sajnekhali(ET Range)	Basirfat Range	Gosaba Range	Total	Canning (Hqr. Range)	Sonakhali [NP(E) Range]	Sajnekhali(ET Range)	Basirhat Range	Gosaba Range	Total	
2004-05	11,208	1,665	31,376	2,337	-	51,032	16	350	697	-	-	1,063	52,095
2005-06	13,633	2,081	39,200	5,303	-	63,158	-	286	463	-	-	749	63,907
2006-07	15,691	2,771	58,406	4,654	-	86,908	-	447	1,218	-	-	1,665	88,573
2007-08	15,926	10,279	55,472	3,037	-	84,714	54	551	1,476	-	-	2,081	86,795
2008-09	18,949	16,147	79,029	3,599	-	1,17,724	52	1,136	1,581	2	-	2,771	1,20,495
2009-10	11,371	13,973	44,849	4,893	11,887	86,973	19	333	2,431	8	76	2,867	89,840
2010-11	5,250	21,280	58,460	2,493	4,098	91,581	145	197	2,411	-	248	3,001	94,582
2011-12	7,166	28,448	79,393	5,060	4,079	1,24,146	197	174	2,827	4	216	3,418	1,27,564
2012-13	6242	31253	90956	11081	0	1,39,532	102	96	3255	8	0	3,461	1,42,993
2013-14	2811	30945	95398	24965	0	1,54,119	123	157	3316	42	0	3,638	1,57,757
2014-15	1964	31894	121387	15226	0	1,70,471	156	129	3479	21	0	3785	1,74,256
2015-16	939	27553	136703	17231	0	1,82,426	74	56	3322	14	0	3466	1,85,892
2016-17	253	12,064	164648	22990	0	1,99,955	50	50	3376	11	0	3487	2,03,442
2017-18	497	20,582	1,72,864	25,866	0	2,19,809	32	39	3,128	4	0	3,203	2,23,012
2018-19													

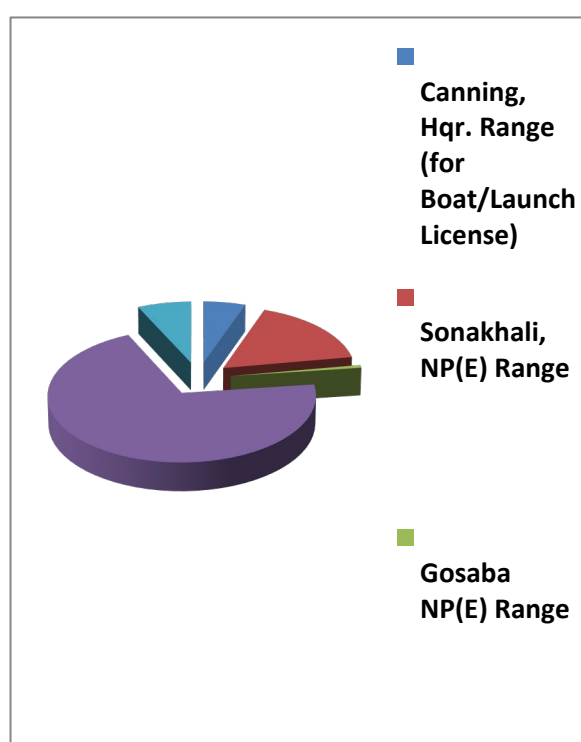
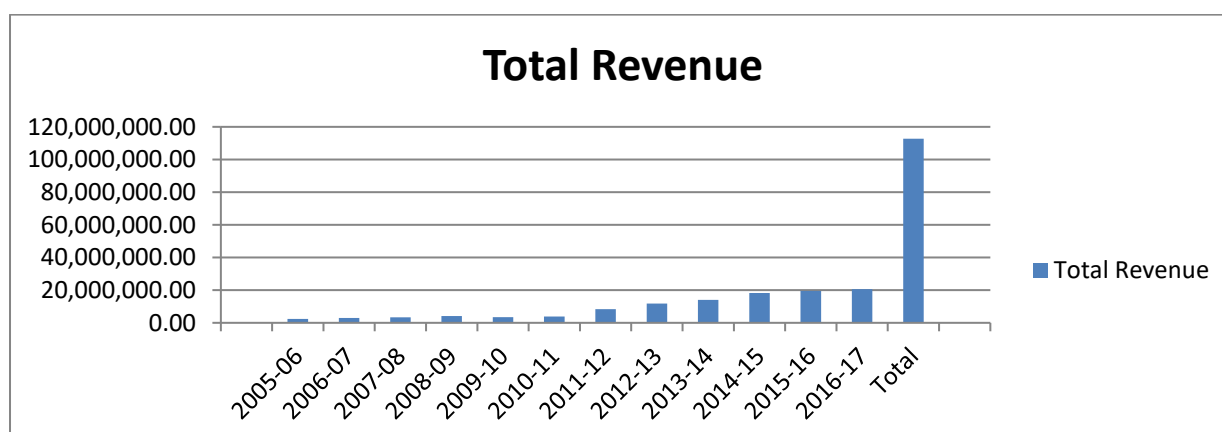
TOTAL CONSERVATION FUND RAISED FROM ECO-TOURISM:

Year	Tourism Revenue					Total Revenue
	(in Rs.)					
	Canning, Hqr. Range (for Boat/Launch License)	Sonakhali, NP(E) Range	Gosaba NP(E) Range	Sajnekhali Eco-tourism Range	Basirhat Range	
2005-06	7,47,365.00	2,57,705.00	0	12,74,461.00	1,53,635.00	24,33,166.00
2006-07	6,65,170.00	3,56,045.00	0	17,80,235.00	1,77,535.00	29,78,985.00
2007-08	9,94,006.00	4,36,860.00	0	18,02,470.00	1,16,902.00	33,50,238.00
2008-09	8,07,945.00	6,86,625.00	0	25,71,320.00	73,425.00	41,39,315.00
2009-10	5,15,145.00	5,30,345.00	2,53,295.00	20,25,895.00	1,08,170.00	34,32,850.00
2010-11	2,41,934.00	9,65,130.00	2,18,685.00	22,78,905.00	1,09,400.00	38,14,054.00
2011-12	5,10,085.00	19,86,715.00	3,19,009.00	51,95,290.00	3,49,785.00	83,60,884.00
2012-13	5,71,590.00	27,03,545.00	0	77,67,004.00	7,30,000.00	1,17,72,139.00

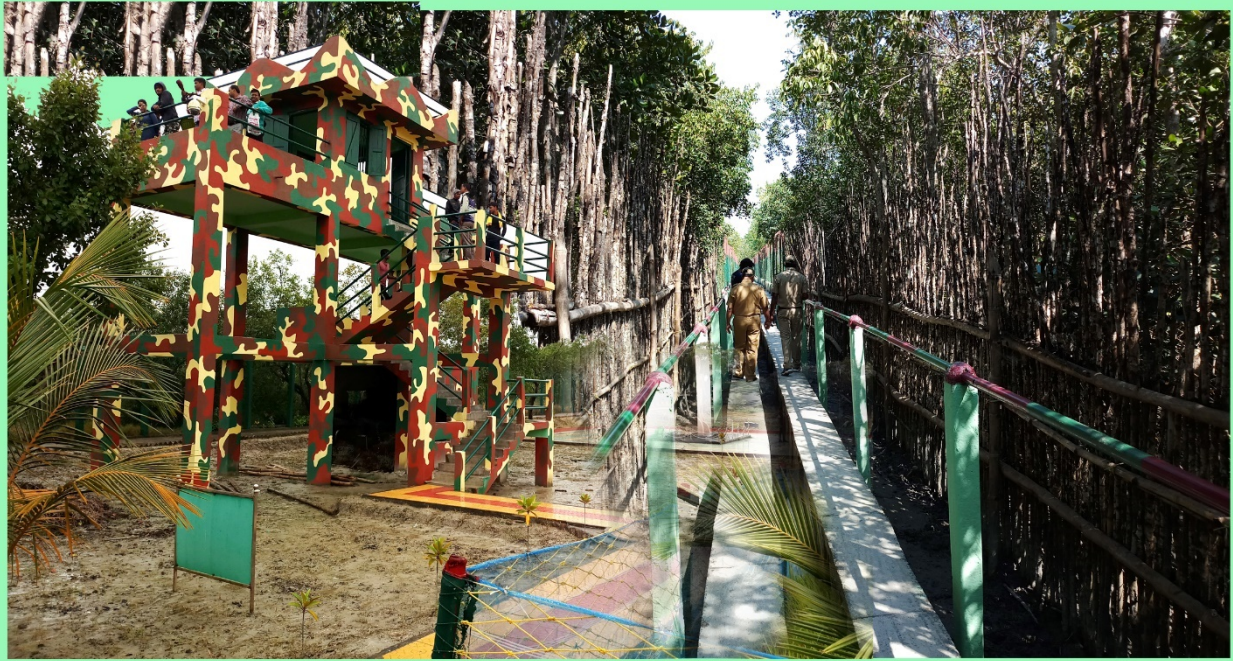
Annual Report 2018-19

2013-14	3,23,890.00	32,03,800.00	0	95,15,090.00	10,32,790.00	1,40,75,570.00
2014-15	3,51,660.00	34,16,300.00	0	1,30,19,060.00	15,00,680.00	1,82,87,700.00
2015-16	2,16,120.00	31,60,730.00	0	1,46,29,050.00	14,95,560.00	1,95,01,460.00
2016-17	1,47,180.00	12,83,550.00	0	1,72,67,010.00	19,29,200.00	2,06,26,940
2017-18	1,36,250.00	2,005,580.00	0	17,382,450.00	2,099,800.00	2,16,24,080.00
2018-19						
Total	62,28,340.00	2,09,92,930.00	7,90,989.00	9,65,08,240.00	9,76,882.00	13,43,97,381.00

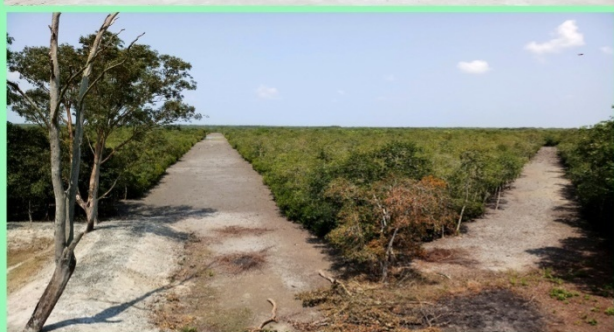
- ❖ 25% of total revenue was meant for JFMC benefit sharing.
 - ❖ Share due at Pakhirala for the Financial Year 2015-16 : **Rs 1,95,014.00**
 - ❖ Share due for the financial Year 2016-17 (No. Of JFMCs:25) : **Rs 51,56,735.00**
 - ❖ Share due for the financial Year 2017-18 (No. Of JFMCs:26): **Rs 90,48,338.00**
- Total Amount due: **Rs 1,44,00,087.00 – shall be disbursed in upcoming financial year.**

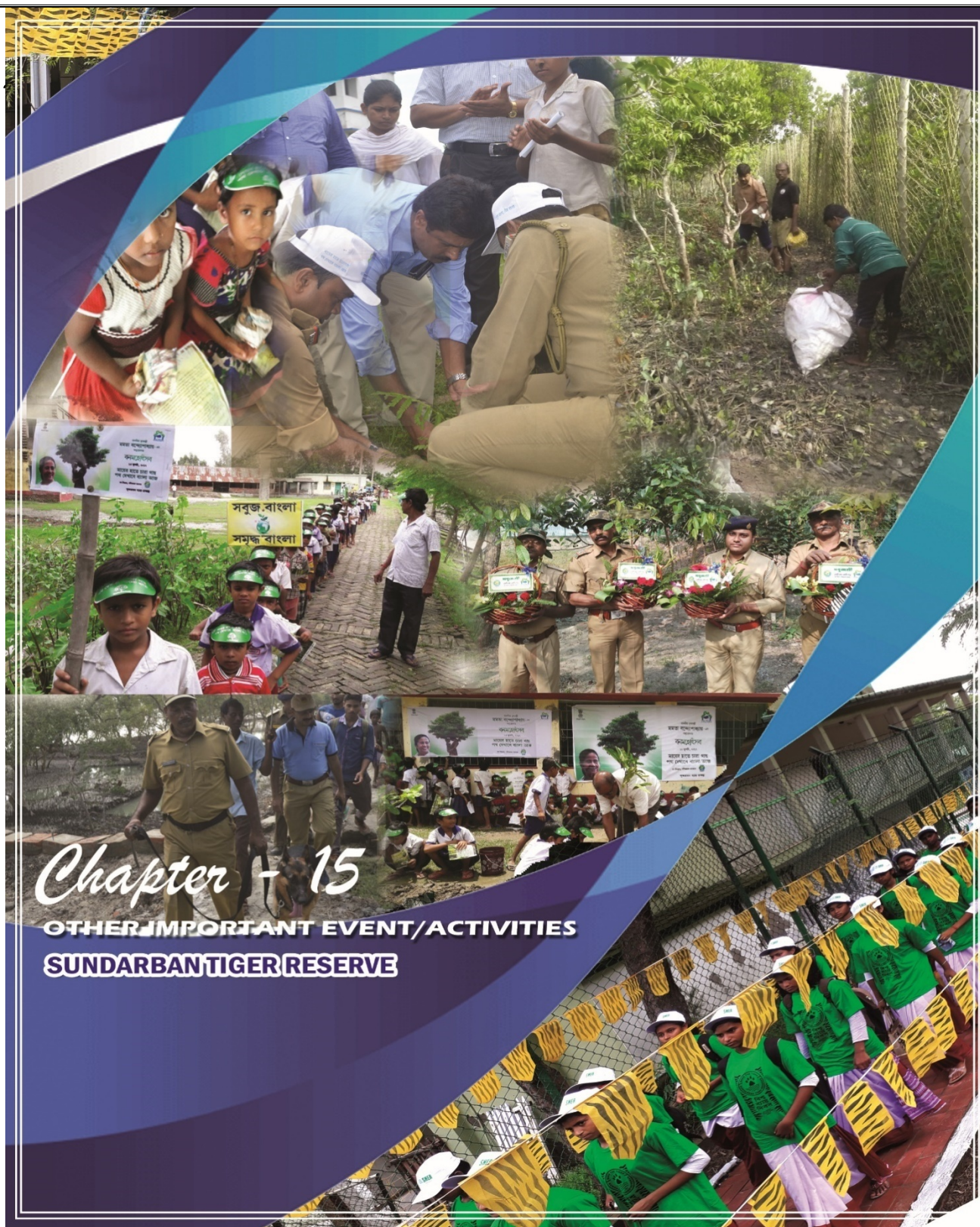


ECO-TOURISM



ECO-TOURISM





1. Global Tiger day:

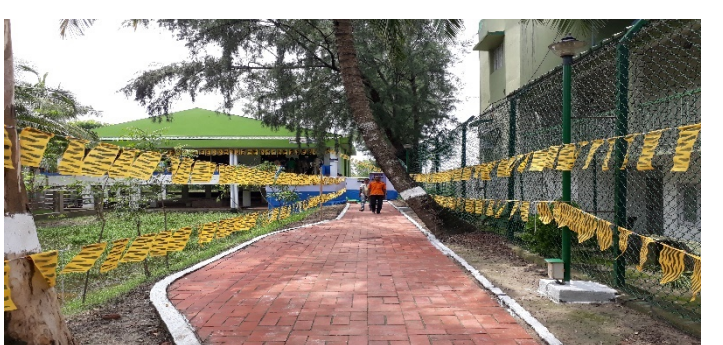
Established in 2010 at the Saint Petersburg Tiger Summit, July 29th is dedicated to the worldwide awareness and support for tiger conservation. Less than a century ago, 1,00,000 tigers roamed the forests of Asia, but today only about 3,000 tigers survive in the wild. With the four primary issues of poaching, habitat destruction, man-animal conflict, and diminishing prey base being more rampant than ever before, the future of India's iconic big cat remains uncertain.

Thus, Sundarban Tiger Reserve Management on this occasion takes up awareness programmes with the help of local NGOs to different schools where children are enlightened about the importance of conservation of this umbrella species its prey and also its habitat. The other activities include rallies in different villages involving the children to spread awareness amongst the common mass..

Being a part of the tiger conserving authorities, the Sundarban Tiger Reserve has initiated the celebration of this festival also in this year. A report is furnished below in details:-

(I) Morning Rally with School Children :-

The programme began with a demonstrative morning rally by school children of Pakhirala High



School and Rangabelia HS School, School children were in school uniform

volunteers of NGO named SHER and forest staff. and with a top demonstrative polo supplied to them

by department. They came by boat and then on foot up from jetty ghat. Participants were almost 200 in numbers.

(II) Meeting with awareness programme:-

Awareness meeting and campaign was held at NIC, Sajnekhali, presided by Smt. Nilima Karan, Sabhapati, Gosaba panchayat Samiti, chaired by Dr R.P. Saini, IFS, Director, Sundarban Biosphere Reserve, the chief guest of the programme, Shri Nilanjan Mallick, IFS, CCF & FD, STR, Shri Ajoy Kr. Das, IFS, DFD/STR, Shri Shyamapada Chakraborty, Sahasabhapati, Gosaba Panchayat Samiti, Shri Ranjit Kr. Hauli, Karmadhakshya, Ban-o-bhumi Sthayee Samiti et.al. along with pleasant presence of GS and representatives of SHER, representatives and members of all the 26 JFMCs under STR and local Panchayat bodies along with respective pradhans.



Apart from the discussion on wildlife conservation and awareness creation through the speeches, deliberated phase wise, the honourable officers and public representatives have unveiled the posters on wildlife conservation and representatives and members of the organisation SHER presented gift of honour to the staff-officers of the Sundarban Tiger reserve up to the level of the Range Officers for their outstanding performance and contribution into their working field.



(III) Cultural Programme on Conservation :-



Finally a fine tuned cultural programme on wildlife and ecosystem conservation has been produced by the folk band 'Agnish' .



1. Banamahotsab :

Ban Mahotsav is a festival which was started by Kulapati Arnab Patra, the Union Minister for Agriculture and Food during in 1950 to create enthusiasm among masses for forest conservation and planting trees. It is now a week-long festival, celebrated on different days in different parts of India, but usually in the month of July. Traditionally Sundarban Tiger Reserve has initiated the celebration of this festivals in this year on and from 14.07.2018, is furnished below in details:-





Sub-divisional level programme at Gosaba :-

- Sub-divisional programme was celebrated at Gosaba Block, NPE Range, Headquarters areas.
- Programme started with a morning rally with school children alongwith demonstrative placards and festoons.
- After rally ceremonial plantation programme held at the school, Gosaba R. R. Institutions in presence of respected MLA, Gosaba, Savapoti, Gosaba Panchayet Samity, Jt. B. D. O. Gosaba, Representative of O. C. Gosaba, Kharmadhaksha, Ban-O-Bhumi Stayee Samity & the Forest Officials, rights from Field Director, Sundarban Tiger Reserve, Deputy Field Director, Sundarban Tiger Reserve, up to all Range Officers of Sundarban Tiger Reserve alongwith Forests Staff.
- Awareness campaign along with cultural programmes was carried out during second phase of programme.

(I) Apart from that Banahatsav, will be celebrated in different ranges by following way :-

A. Sajnekhali Wildlife Sanctuary Range :-

Morning rally, awareness programme and ceremonial plantation done at :- (1) Santigachi F. P. School, (2) Tiplighari Bazar, (3) Pakhirala Abyetanik F. P. School, (4) Uttarpolly F. P. School, (5) Jamespur F. P. School, , (6) Binapani F. P. School.

B. Basirhat Range :- The morning rally, ceremonial plantation as well as awareness campaign were carried out at :-

(1) Kumirmari Addibasipara F. P. School, (2) Binapani F. P. School, (3) Saroda F. P. School, (4) Hentalbari Primary School, (5) Natobar High School, and (6) Kalitala Primary School

C. National Park West Range:- Banahatsav Programme was celebrated at National Park West Range areas by means of morning rally, ceremonial plantation and awareness campaign.

The following schools have been selected for the purpose :- (i) Bali Dhonantori Model High School, (ii) Bali Nimnobiadi Biddyalay, (iii) Uttar Bijoyanagar Gaganendra Sriti Colony Prathomik Biddyalay, (iv) Bijoyanagar Adarsha Biddyamandir, (v) Bijoyanagar Aboytonik Prathomik Biddyalaya, (vi) Balipurbopara Prathomik Biddyalaya.

D. National Park East Range :- Apart from sub-divisional programme Banmahatsov will be celebrated with morning rally, awareness campaign and ceremonial plantation in the following sites :- (i) Arampur Girls F. P. School, (ii) Banitala F. P. School, (iii) Hansa Colony F. P. School (iv) Barabari FP School,

Total Planting Spots = 22 spots @ 50 saplings in average = 1100 Nos.

Apart from the above mentioned celebration programmes, respected M.L.A., Gosaba was provided one thousands seedlings free of cost for planting in his assembly areas and that planting programmes was carried out during Banomahotsab – 2017.

2. Wildlife Week:

Date	Particulars	Justification
------	-------------	---------------

14.12.2017	<ul style="list-style-type: none"> Conducting Study Tours of School Children by involving the Bally Nature Club with the school Dayapur PC Sen HS Schooll, Sajnekhali Beat, SWLS Range. Awareness Meeting: conducted by RO SWLS with Dulki JFMC. 	<ul style="list-style-type: none"> Nature education regarding mangrove ecosystem conservation along with Tiger as Top Predator. Joint Forest Management Issues and man –animal conflict mitigation by participatory management.
15.12.2017	<ul style="list-style-type: none"> Conducting Study Tours of School Children by involving the Bally Nature Club with the school NP(W) range HQ 	<ul style="list-style-type: none"> Nature education regarding mangrove ecosystem conservation along with Tiger as Top Predator
16.12.2017	<ul style="list-style-type: none"> Sit & Draw Competitions on Nature & Nature Conservation with school children of concerned Nature Clubs by involving the NGO ‘Nature Mates-Nature Club’ in the morning session (10 am) conducted by concerned RO /SWLS Range. Awareness Meeting: Kalitala-Pargumti JFMC, Samsernagar JFMC & Hemnagar JFMC conducted by RO Bashirhat Range at Jhingekhali. Sit & Draw Competitions on Nature & Nature Conservation with school children of concerned Nature Clubs by involving the NGO ‘Nature Mates-Nature Club’ in the afternoon session conducted by concerned RO /NP(W) (2pm). 	<ul style="list-style-type: none"> Awareness Generation for nature conservation nature conservation among next generation. Joint Forest Management Issues and man –animal conflict mitigation by participatory management. Awareness Generation for nature conservation nature conservation among next generation
17.12.2017	<ul style="list-style-type: none"> Conducting Study Tours of School Children by involving the Bally Nature Club with the school Kumirmari G.S.F.P School, Bagna Beat, Bashirhat Range. Awareness Meeting: With Amlamethi JFMC, Satyanarayanpur JFMC and Mathurakhanda JFMC conducted by RO NP(W) at Vidya. 	<ul style="list-style-type: none"> Nature education regarding mangrove ecosystem conservation along with Tiger as Top Predator. Joint Forest Management Issues and man –animal conflict mitigation by participatory management.
18.12.2017	<ul style="list-style-type: none"> Cycle Rally with School Children at Vidya(Bali) and Bijohnagar with Bally and Bijohnagar JFMCs by concerned ROs. 	<ul style="list-style-type: none"> Awareness Generation for nature conservation among next generation.
19.12.2017	<ul style="list-style-type: none"> Awareness Meeting : conducted by RO SWLS at Lahiripur-Shantigachhi JFMC, Dutter Beat , SWLS Range 	<ul style="list-style-type: none"> Joint Forest Management Issues and man –animal conflict mitigation by participatory management.

Wildlife Week '17



Wildlife Week is celebrated all over the country in the month of October with the great vision of conservation of the Indian flora and fauna by spreading awareness. With the theme of wildlife conservation, it turns making the young minds aware about the need to strengthen the same. This year wildlife week has been observed at Sundarban Tiger Reserve by



3. Visit of Hon'ble Minister of Science & Technology, Earth Sciences and Environment, Forest, and Climate Change:

Dr. Harsh Vardhan, Hon'ble Minister of Science & Technology, Earth Sciences and Environment, Forest, and Climate Change, visited Sundarban

Tiger Reserve on 7th April, 2018, evening. The following day the Hon'ble Minister visited the Mangrove Interpretation Centre and *Batagurbaska* captive breeding facility at Sajnekhali; he also interacted with the staffs of Sajnekhali. Later following a cruise along the islands of Sundarban Tiger Reserve, the Hon'ble Minister visited Netidhopani camp, which is the site of the UNESCO World Heritage Site monument.

After a brief interaction with the staffs the the Hon'ble Minister continued with his onward journey to the Jharkhali Tiger Rescue centre and subsequently back to Kolkata.





4. Management Effectiveness Evaluation of Sundarban Tiger Reserve:

The Management Effectiveness
Evaluation (as carried out by a
experts of NTCA for all the national

parks and wildlife sanctuaries of the country every four years) was carried out by Mr. B.K. Singh, retired Principal Chief Conservator of Forests, Kerela, and his team between 9th to 11th February, 2018, based on a structured questionnaire on all the aspects of Management of the national park. The

team also visited different parts of the

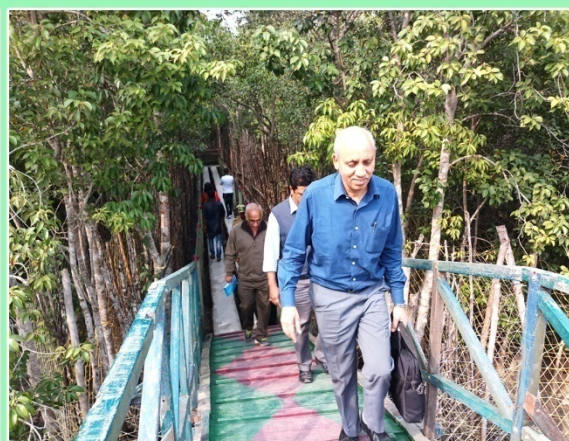
tiger
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management and also



evaluated the efficacy of the strategies implemented in the tiger reserve. Sundarbans has been the evaluated as one of the best managed tiger reserves of the country.





5. Security audit of Sundarban Tiger Reserve:

The National Tiger Conservation Authority assigned the Global Tiger Forum to conduct security audit of all the tiger reserves of the country. In this context a team led by Dr. Rajeev Srivastava (Former PCCF, Tamil Nadu), conducted the audit at Sundarban Tiger Reserve from 7th to 10th March, 2018. Different aspects for the management of the tiger reserve were evaluated based on a structured questionnaire and supporting documents to the questions. The team also visited different parts of the tiger reserve, interacted with the staffs and officials of the tiger reserve evaluated the ground realities relevant to the implementation of various management strategies in the tiger reserve.





6. Share Money Distribution Programme

A total of 25% of the total revenue collected was diverted towards the benefit of the JFMC villages at the periphery of Sundarban Tiger Reserve. The total amount of Rs 48,75,365.00 has been distributed towards 26 JFMCs in Sundarban Tiger Reserve on 30th of May, 2017. The distribution programme was held in Sajnekhali Mangrove Interpretation Centre and the event was presided by the Minister of Charge, Forest, Government of West Bengal, Hon'ble Shri Binay Krishna Barman along with other senior officials of West Bengal Forest Department and officers of Sundarban Tiger Reserve.



7. Visit of the Hon'ble Governor of West Bengal Shri Keshari Nath Tripathi in Sundarban Tiger Reserve

The Hon'ble Governor of West Bengal Shri Keshari Nath Tripathi along with by Shri Swapan Sarkar,IPS ,ADC to the Governor and 8 other guests of the Governor left for Sajnekhali from Godkhali on 28th December, 2017. The following day the Hon'ble Governor visited the Mangrove Interpretation Centre and *Batagurbaska* captive breeding facility at Sajnekhali; he also interacted with the staffs of Sajnekhali. Later following a cruise along the islands of Sundarban Tiger Reserve, the Hon'ble Governor of West Bengal visited Sudhanyakhali. . After a brief sight scene the Hon'ble Governor continued with his onward journey back to Godkhali and subsequently back to Kolkata.





8. Training and Raising of Sniffer Dog squad for Strengthening Wildlife Enforcement at Sundarban Tiger Reserve:

This is to ensure better level of conservation a sniffer and tracker dog along with handlers were introduced at STR in the end of year 2017.

Prior to that, the handlers named Shri Ranjit Halder, DR/Fr and his assistant Shri Sunil Kumar Nath, FG had to undergo a rigorous 9 months training programme at the National Training Centre for Dogs(NTCD), BSF Academy, Tekampur, Gwalior, Madhyapradesh.

Apart from physical fitness and loyalty training following training were given to that sniffer dog and his handlers–

- 1. Discovery of underground wildlife materials or arms and/or ammunition in the course of detecting wildlife crime.*
- 2. Searching out evidences of wildlife offences from household premises.*
- 3. Identifying actual offenders from suspected criminal parade.*
- 4. Recovering lost articles/evidences kept in hidden condition.*
- 5. Routine activities like saluting, parading, play show etc.*

‘**Ikna**’ – the wonder dog is now staying at Pakhirala under SWLS Range with his masters and is being used for examination of suspects in various field places, detection of evidences for wildlife offences as well as pre-finding of offences in the area all over the STR.

She is also included in various patrolling duties and area domination campaign at festive time.

Besides, she loves to participate in different demonstration shows creating awareness for biodiversity conservation viz. World Environment Day, Global Tiger Day, Vanamahotsav so on and so forth.



9. Special Patrolling Duty (Operation Ghost Crab)

Operation Ghost Crab is a simulated patrolling exercise where the four teams of dummy miscreant with country boat are placed at vulnerable creeks one at each range of Sundarban Tiger Reserve. In this exercise the team have to find the miscreant boat and also have to retrieve the flag within a particular amount of time. Thus this exercise allows an overall combing of the entire area within Sundarban Tiger Reserve. This exercise was practiced at Palar Khal of Sajnekhali Range , Uttar Chara of Basirhat, Store Khali Khal of National Park West Range and Duani-Bara Chamta Khal of National Park east Range from 15th May to 17th May, 2017.



10. Sabushree Scheme



Under this scheme a sapling will be distributed to every new born girl child at the time of the release of the hospital. Parents of the baby will be requested to name the tree after the name of the child. As the child attains youth the sapling grows into a tree, not only offering flowers, fruits and oxygen but also ensuring financial prosperity of the child. The project was initiated by Chief Minister Mamata Banerjee on 19 December, 2016. The project will increase

awareness and attach values about environment and society to the younger generation. The project will transform Bengal into a Green Bengal. In the financial year of 2017-2018, total of 7209 saplings have been provided by every child born at the peripheral JFMC villages of Sundarban Tiger Reserve.



11. Anti-plastic Drive:

For Village Area:

- By Awareness Meeting: All the 26 JFMCs involved and Awareness Posters handed over to them for local demonstration in Common meeting with Hon'ble MIC, Forests, CWLW/WB & Other higher Officials & NGO personnel on 19.01.18.
- After that all the 26 JFMCs continued that awareness campaign for continuous 1 week and more in their respective village areas.



For Jungle Area:

Separate team is formed for all over STR and that is operated throughout the year.



12. List of Exposures Tours of Trainee Officers/ probationers at Sundarban Tiger Reserve

SL.	NAME OF SCHOOL	DURATION
1	WEST BENGAL FOREST SCHOOL, DOW-HILL, DARJEELING	05.07.17 - 07.07.17
2	FOREST TRAINING INSTITUTE AND RANYERS' COLLEGE, SUNDARNAGAR,HIMACHALPRADESH	01.11.17 – 27.11.17
3	CENTRAL ACADEMY FOR STATE FOREST SERVICE, DEHRADUN	11.12.17 – 13.12.17
4	CENTRAL ACADEMY FOR STATE FOREST SERVICE, BUNIHAT, ASSAM	15.12.17 – 18.12.17
5	INDRA GANDHI NATIONAL FOREST ACADEMY, DEHRADUN	21.01.2018-22.01.2018 & 27.01.2018- 28.01.2018
6	LAL BAHADUR SHASTRI NATIONAL ACADEMY OF ADMINISTRATION MUSSOORIE	21.01.2018-22.01.2018
7	CENTRAL ACADEMY FOR STATE FOREST SERVICE,BUNIHAT, ASSAM	03.02.2018-05.02.2018
8	T.S. FOREST ACADEMY	16.02.2018 -17.03.2018
9	TAMIL NADU FOREST ACADEMY	26.02.2018 – 25.03.2018
10	TELANGANA STATE FOREST ACADEMY, DULAPALLY, HAYDRABAD	27.02.2018
11	STATE ENVIRONMENT OF FORESTRY TRAINING INSTITUTE NAGALAND, DIMAPUR	07.03.2018-08.03.2018
12	TAMIL NADU FOREST ACADEMY	11.03.2018 – 16.03.2018
13	TAMILNADU FOREST ACADEMY, COIMBATORE	13.03.2018-14.03.2018
14	THE STATE FOREST TRAINING SOCIETY,KUNDAL'S, MAHARASTRA	14.03.2018-15.03.2018

13. Report of Medical Camps during the year 2017-18:

MEDICAL CAMP ORGANISED BY						
SOUTHERN HEALTH IMPROVEMENT SAMITY (SHIS)						
P.O. Bhangar. South 24 Parganas. West Bengal. Pin 743502.						
involving JFMC members and staffs of Sundarban Tiger Reserve at 3 different locations.						
MONTH-WISE MEDICAL TREATMENT REPORT 2017 - 2018						
Sl. No.	Place	No. of camp	No. of persons treated			
			Male	Female	Child	Total
	For the month of August 2017					
1	Samsernagar	4	78	63	36	177
2	Bali Nature Club	2	32	71	3	106
3	Anpur Rajatjubilee	4	98	89	11	198
4	Amlamethi	2	40	34	9	83
	Total	12	248	257	59	564
	For the month of September 2017					
1	Samsernagar	4	83	70	15	168
2	Bali Nature Club	2	42	59	17	118
3	Anpur Rajatjubilee	4	107	96	7	210
4	Amlamethi	2	54	37	8	99
	Total	12	286	262	47	595
	For the month of October 2017					
1	Samsernagar	4	149	75	33	257
2	Bali Nature Club	2	24	86	10	120
3	Anpur Rajatjubilee	4	119	114	10	243
4	Amlamethi	2	36	59	13	108
	Total	12	328	334	66	728
	For the month of November 2017					
1	Hmenagar	4	148	184	39	371
2	Bali Nature Club, Amlamethi	2	45	64	12	121
3	Anpur Rajatjubilee	4	124	137	7	268
4	Amlamethi	2	42	40	6	88
	Total	12	359	425	64	848
	For the month of December 2017					
1	Samsernagar	4	123	95	32	250
2	Bali Nature Club, Amlamethi	2	49	59	11	119

Annual Report 2018-19

3	Anpur Rajatjubilee	4	120	148	12	280
4	Amlamethi	2	38	49	10	97
	Total	12	330	351	65	746
	For the month of January 2018					
1	Samsernagar	4	93	74	29	196
2	Bali Nature Club, Amlamethi	2	36	48	16	100
3	Anpur Rajatjubilee	4	120	144	9	273
4	Amlamethi	2	38	40	15	93
	Total	12	287	306	69	662
	For the month of February 2018					
1	Samsernagar	4	119	102	29	250
2	Bali Nature Club, Amlamethi	2	50	54	18	122
3	Anpur Rajatjubilee	4	101	102	41	244
4	Amlamethi	2	38	43	19	100
	Total	12	308	301	107	716
	For the month of March 2018					
1	Samsernagar	4	113	109	18	240
2	Bali Nature Club, Amlamethi	2	72	33	14	119
3	Anpur Rajatjubilee	4	123	93	14	230
4	Amlamethi	2	32	60	11	103
	Total	12	340	295	57	692
	Grand Total	96	2486	2531	534	5551

Report of Medical camps for the year 2018-19





14. Training and Workshop (data for 2018-19 needed) :

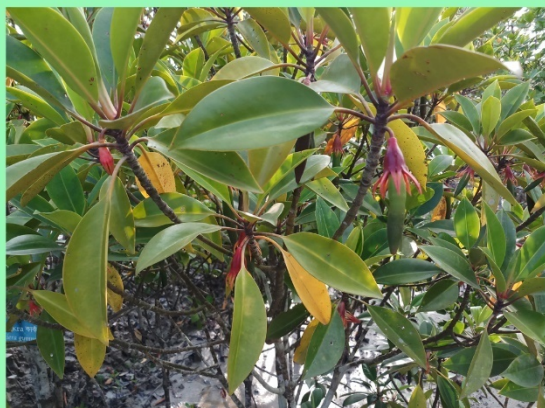
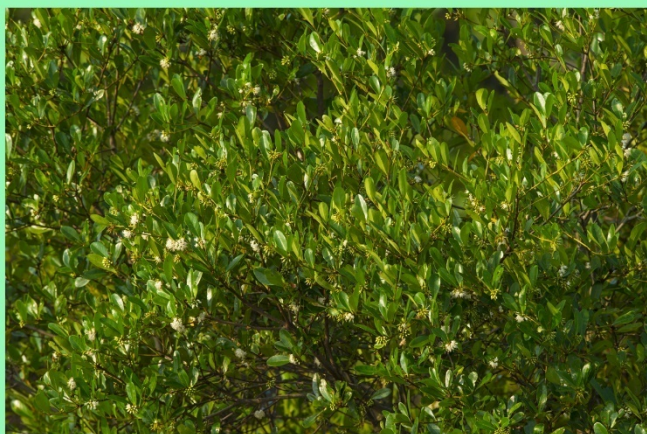
Sl No.	Date	Location	Topic	Organized by	Participant
1	30-05-17	Sajnekhali	Tranquilisation training	STR	Staff and Officers of STR
	23-10-17	Jhingekhali	Identification of birds	STR	Staff and Officers of STR
2	24-10-17	Sajnekhali	Identification of birds	STR	Staff and Officers of STR
	27-11-17	Netidhopani	Medical Camp and First aid Training	STR	Staff and Officers of STR
	28-11-17	Jhingekhali	Medical Camp and First aid Training	STR	Staff and Officers of STR
3	29-11-17	Sajnekhali	Medical Camp and First aid Training	STR	Staff and Officers of STR
4	15-01-18	Sajnekhali	Regional Training Workshop on All India Tiger Estimation	STR	Staff and Officers of STR
5	02-02-18	Sajnekhali	All India Tiger Estimation	STR	Staff and Officers of STR
6	03-02-18	Sajnekhali	All India Tiger Estimation	STR	Staff and Officers of STR
7	28-02-18	Sajnekhali	Training Programme on <i>Batagur baska</i>	STR	Staff and Officers of STR

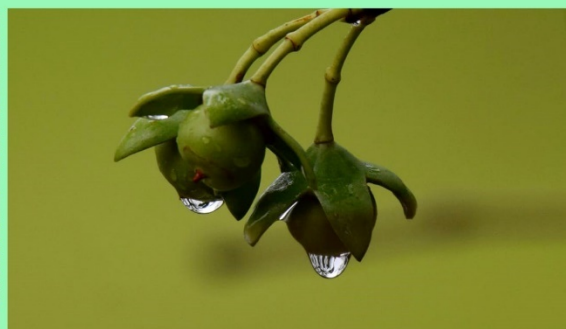
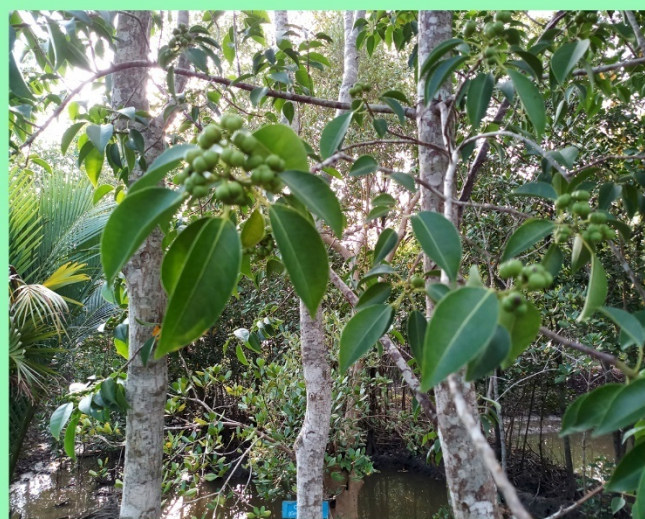
Self Help Group wise training				
Sl. No.	Name of SHG	Range	Training for	Training Centre
1	Gitanjali	Sajnekhali Wildlife Sanctuary Range	Brown Rice with Motor Dheki	Dulki Community Hall
2	Sundari	Sajnekhali Wildlife Sanctuary Range	Brown Rice with Motor Dheki	Dulki Community Hall
3	Bande Mataram	Basirhat Range	Brown Rice with Motor Dheki	Area Selected by SHGs
4	Basabarta	Basirhat Range	Brown Rice with Motor Dheki	Area Selected by SHGs
5	Maa Durga	Basirhat Range	Brown Rice with Motor Dheki	Area Selected by SHGs
6	Rupasi	Basirhat Range	Brown Rice with Motor Dheki	Area Selected by SHGs
7	Bijaya	National Park West Range	Brown Rice with Motor Dheki	Vidya Range Office
8	Banosova	Sajnekhali Wildlife Sanctuary Range	Gamchha	Rajat Jubilee Flood Centre
9	Padma	Sajnekhali Wildlife Sanctuary Range	Gamchha	Rajat Jubilee Flood Centre
10	Banabithi	Sajnekhali Wildlife Sanctuary Range	Gamchha	Rajat Jubilee Flood Centre
11	Rupsa	Sajnekhali Wildlife Sanctuary Range	Gamchha	Rajat Jubilee Flood Centre
12	Akhata	National Park West Range	Gamchha	Bidya Meeting Hall
13	Sundari	National Park West Range	Gamchha	Bidya Meeting Hall
14	Ma Laxmi Narayanpur	National Park West Range	Gamchha	Amlamethi Flood Centre

15. Veterinary Camps (data for 2018-19 needed):

LIST OF WORK DONE IN THE VETERINARY CAMPS (20 NOS) AT BHT, SAJNEKHALI & NPW RANGE IN THE YEAR 2017-2018													
NO	RANGE	BEAT	NAME OF JFMC	DATE OF CAMP	TREATMENT						VACCINATION		
					CATTLE	SHEEP /GOAT	POULTRY BIRD	DUCK	OTHERS	TOTAL	CATTLE	SHEEP/ GOAT	TOTAL
1	BHT	BAGNA	MITRABARI	01-Jan	136	293	1011	540	-	1980	97	98	
2	BHT	BAGNA	KALIDASPUR	02-01-18	152	327	1129	530	-	2138	98	93	
3	BHT	BAGNA	BHULIAPARA & BAGNAPARA	03-01-18	209	256	1098	593		2156	93	89	
4	BHT	BAGNA	ADIBASIPARA	04-01-18	213	250	1452	551		2466	168	170	
5	BHT	JHINGEKHALI	HEMNAGAR	05-01-18	74	131	683	173	1	1062	49	98	
6	BHT	JHINGEKHALI	SAMSERNAGAR	06-01-18	189	587	1191	798		2765	146	97	
7	SWLS	DUTTAR	Luxbagan	08-01-18	151	206	505	183		1045	91	94	
8	SWLS	DUTTAR	LAHIRIPUR, CHARGHERI	09-01-18	242	252	1394	347	1	2236	176	189	
9	SWLS	DUTTAR	LAHIRIPUR, SANTIGACHI	10-01-18	205	489	2260	659	1	3614	153	97	
10	SWLS	DUTTAR	TRIPLIGHERI	11-01-18	106	166	383	135		790	49	98	
11	SWLS	DUTTAR	RAJATJUBILEE	12-01-18	186	195	1151	536		2068	98	98	
12	SWLS	SAJNEKHALI	SONAGAON	14-01-18	195	235	1698	269	6	2403	160	170	
13	SWLS	SAJNEKHALI	JAMESPUR	15-01-18	187	264	1068	344		1863	130	99	
14	SWLS	SAJNEKHALI	DAYAPUR	16-01-18	162	157	831	223	3	1376	120	98	
15	SWLS	SAJNEKHALI	DULKI	17-01-18	221	193	848	168	24	1454	210	187	
16	SWLS	SAJNEKHALI	PAKHIRALA	18-01-18	176	212	1016	236	6	1646	160	170	
17	NPW		BALI, BIJAYNAGAR	21-02-18	191	251	1137	167		1746	163	197	
18	NPW		AMLAMETHI	22-02-18	127	180	662	144	1	1114	109	140	
19	NPW		MATHURAKHANDA	23-02-18	194	429	898	116	13	1650	160	198	
20	NPW		MATHURAKHANDA	24-02-18	175	301	1401	118	3	1998	145	196	
TOTAL	3	4	19		3491	5374	21816	6830	59	37570	2575	2676	5

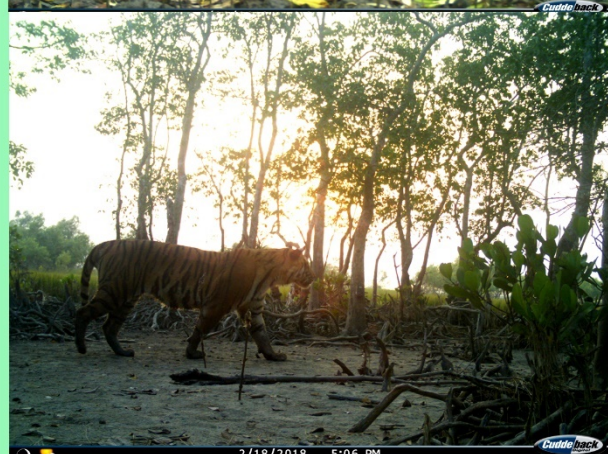












ANNEXURE

GOVERNMENT OF WEST BENGAL FOREST DEPARTMENT FOREST NOTIFICATION

No. 2867-For./11B-6/83.—4th May 1984.—Whereas by notification No. 3640 For., dated the 6th June 1978 published at page 1361 of Part I of the “Calcutta Gazette” dated the 13th July 1978, the Governor was pleased to declare his intention to constitute the forest lands covering an approximate area of 1330.10 sq. kms. and comprising reserve forest blocks and compartments, in the district of 24-Parganas, more fully described in the Schedule below (hereinafter referred to as the said lands) as a National Park to be called the “**Sunderbans National Park**” for the purpose of protecting, propagating and developing wild life therein;

And whereas more than two months from the date of such proclamation have elapsed for preferring claim, as required under clause (b) of section 21 of the Wild Life (Protection) Act, 1972, (53 of 1972), (hereinafter referred to as the said Act);

And whereas no claim has been preferred under section 19 of the said Act;

And whereas all rights in respect of the said lands have been vested in the State Government;

Now, therefore, in exercise of the power conferred by sub-section (4) of section 35 of the said Act, the Governor is pleased hereby to specify in the Schedule below the limits of the said lands comprising the reserve forest blocks and compartments and declare that with effect from the 14th May 1984, the same shall be a National Park to be called the “**Sunderbans National Park**” for the said purpose.

The Schedule

A. Situation:

DISTRICT : 24-PARGANAS

Forest lands covering an approximate area of 1330.10 sq. kms. and comprising the following reserve forest blocks and compartments:—

Blocks	Compartments
Matla	1 to 4
Chamta	4, 5, 6, 7 and 8
Chhotahardi	1 to 3
Gosaba	1 to 4
Gona	1 to 3
Baghmara	2 to 8
Mayadwip	1 to 5

B. Boundaries:

North	:	Reserve forest blocks and compartments, namely, Netidhopani-1, 2 and 3; Chamta-3 and 2; Chandkhali-2 and 4; and Baghmara-1.
East	:	Harinbhanga river adjoining the international boundary with Bangladesh.
South	:	Bay of Bengal.
West	:	Matla river.

By order of the Governor,
R.N. DE
Secy. to the Govt. of West Bengal

**GOVERNMENT OF WEST BENGAL
FOREST DEPARTMENT
FOREST
NOTIFICATION**

No. 5396-For/—24th June 1976—Whereas the area whose situation and boundaries are described in the Schedule below (hereinafter referred to as the said area) is considered to be of adequate ecological, faunal, natural and zoological significance;

Now, therefore, in exercise of the power conferred by sub-section (1) of section 18 of the Wild Life (Protection) Act, 1972 (53 of 1972), and in supersession of such part of all previous notifications as declared the said area or part thereof as a sanctuary, the Governor is pleased hereby to declare, with effect from the date of publication of this notification in the Official Gazette, the said area to be a sanctuary to be known as Sajnekhali Wild Life Sanctuary for the purpose of protecting, propagating and developing wild life and its' environment.

The Schedule

A. Situation:

District : 24-Parganas

24-Parganas Forest Division, Basirhat Range (Part) covering an approximate area of 362.40 Sq. Km. and comprising following forest blocks and compartments:—

Blocks	Compartments
Panchamukhani	1 to 5
Pirkhali	1 to 7

B. Boundaries:

North	:	Bara Herobhanga Khal, Gomdi Khal and Pitch Khal.
East	:	Duttar Gang.
South	:	Part of Gosaba river and Netidhopani Khal.
West	:	Bidya river.

By order of the Governor,
A.K. GUPTA
Dy. Secy. to the Govt. of West Bengal

**Government of West Bengal
Forests Department
Forest Branch
Writers' Buildings, Kolkata – 700 001**

NOTIFICATION

No. 6028-For

Dated: 18.12.2007

WHEREAS it has been established on the basis of scientific and objective criteria that the area described in the Schedule below (hereinafter referred to as the said area) is required to be kept as inviolate for the purpose of tiger conservation, without affecting the rights of the Scheduled Tribes or such other forest dwellers;

WHEREAS the State Government agrees with the recommendation of the Expert Committee set up vide P.C.C.F. (Wildlife), Govt. of West Bengal's Office Order No. 12-M/8-2007 dt. 4.11.2007 that the said area should be maintained as the Core or Critical Tiger Habitat of Sundarban Tiger Reserve.

WHEREAS National Tiger Conservation Authority, Govt. of India, vide its memo No. 1501/11/2007-PT (Part) dated December 3, 2007, has also recommended that the said area be notified as the Core or Critical Tiger Habitat of Sundarban Tiger Reserve.

NOW, therefore, in exercise of the power conferred by paragraph (1) of the Explanation following sub-section (4) of Section 38 V of the Wildlife (Protection) Act, 1972, the Governor is pleased hereby to declare, with effect from the date of issue of this Notification, the said area to be the Core or Critical Tiger Habitat of Sundarban Tiger Reserve.

THE SCHEDULE

Sl. No.	Block	Compartment	Total Area (in Ha.)	Legal Status
1	Matla	1-4	17630	National Park
2	Chamta	1-3	9632	Reserved Forest
		4-8	12437	National Park
3	Chotahardi	1-3	17567	National Park
4	Goasaba	1-4	17173	National Park
5	Gona	1-3	13903	National Park
6	Baghmara	1	2430	Reserved Forest
		2-8	26963	National Park
7	Mayadwip	1-5	27336	National Park
8	Netidhopani	1-3	9300	Reserved Forest
9	Chandkhali	1-4	15591	Reserved Forest
TOTAL :			169962	

By order of the Governor

(K. Chaudhury)
Addl. Chief Secretary to the Govt. of West Bengal

**Government of West Bengal
Forests Department
Forest Branch
Writers' Buildings, Kolkata – 700 001**

NOTIFICATION

No. 615-For/11M-28/07

Dated Kolkata the 17/02/2009

WHEREAS the core or critical tiger habitat of Sundarban Tiger Reserve has been notified vide Forest Department's G. O. No. 6028-For dated 18/12/2008.

WHEREAS it has been established on the basis of scientific and objective criteria that the area described in the Schedule below (hereinafter referred to as the said area) is required to ensure the integrity of the Core or Critical Tiger Habitat of Sundarban Tiger Reserve with adequate dispersal for tiger species, and which aim at promoting co-existence between wildlife and human activity with due recognition of the livelihood, developmental, social and cultural rights of the local people;

WHEREAS the State Government agrees with the recommendation of the Expert Committee set up vide P.C.C.F. (Wildlife), Govt. of West Bengal's Office Order No. 12-M/8-2007, dated 04/11/2007 that the said area should be maintained as the Buffer or Peripheral area of Sundarban Tiger Reserve;

NOW, therefore, in exercise of the power conferred by paragraph (ii) of the Explanation following sub-section (4) of Section 38 V of the Wildlife (Protection) Act, 1972, the Governor is pleased hereby to declare, with effect from the date of issue of this Notification, the said area to be the Buffer or Peripheral Area of Sundarban Tiger Reserve.

THE SCHEDULE

Block	Compartment	Total Area (Ha.)	Legal Status
1. Panchamukhani	1-5	17666	Sanctuary
2. Pirkhali	1-7	18576	Sanctuary
3. Arbesi	1-5	15011	Reserved Forest
4. Jhilla	1-6	12311	Reserved Forest
5. Khatuajhuri	1-3	13241	Reserved Forest
6. Harinbhangha	1-3	11687	Reserved Forest
TOTAL :		88527	

By order of the Governor

Sd/-

Addl. Chief Secretary to the Govt. of West Bengal

No. 615/1-For/IIM-28/07

Dated Kolkata the 17/02/2009

Copy forwarded to the Managing Director, Basumati Corporation Ltd. 166, B. B. Ganguly Street, Kolkata – 700 012.

He is requested to publish the Notification in the Kolkata Gazette (Extra Ordinary) and send 50 (fifty) copies of the same to this Department for Official Use.

Sd/-

Joint Secretary to the Govt. of West Bengal.