

# ANNUAL REPORT ON NATURAL CALAMITIES 2003-2004





Special Relief, Orissa Revenue Department Government of Orissa





# Annual Report

on Natural Calamities 2003-04

Prepared by

Special Relief Commissioner Revenue Department Government of Orissa

Orissa State Disaster Mitigation Authority (A Government of Orissa Agency)

Annual Report on National Calamities, 2003-04

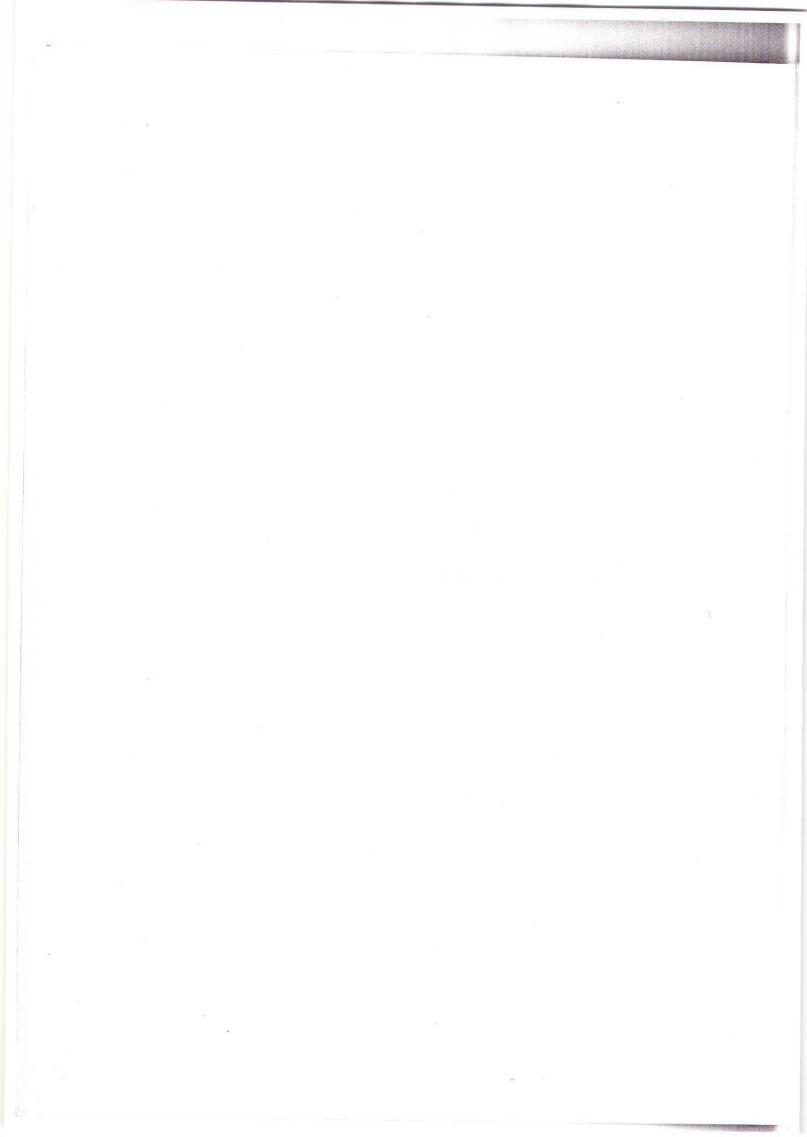
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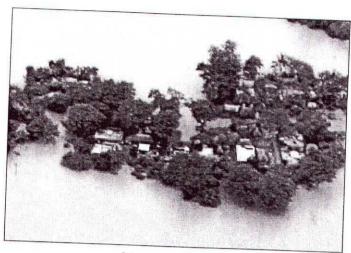
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Chapter-I

The Major Calamity





[ A marooned village ]



[ A major breach ]



### 1. INTRODUCTION

Orissa has experienced nature's fury time and again. The state had encountered a severe drought during 2002-03. The Following table shows that the state has been devastated by disasters in the last ten successive years.

Year	Calamity	Districts Affected
1994	Floods	17
1995	Floods	23
1996	Drought	28
1997	Drought	16
1998	Drought	26
1999	Super cyclone	14
2000	Drought	29
2001	Floods	24
2002	Drought	29
2003	Floods	23+4=27
	[ Table -1 ]	

The socio-economic vulnerability of the people turned these hazards into disasters. With nearly 90% of the population living in disaster prone areas and about 66% below the poverty line, the coping mechanism of the state and its people is constantly under severe strain. Although several initiatives have been taken to prepare the community to meet the challenge posed by natural disasters, there is hardly any time left to complete the process. The frequency and gravity of the disasters give little scope to reap the benefits of these initiatives. Before recovering fully from the impact of the above disasters, the state faced floods in three phases during 2003-04.

### 1.1 CALAMITIES

### (a) Types of Calamities

- Floods
- Heat Wave
- Fire / Lightening / Meteor Falling
- Boat Accident
- Localized Hailstorm / Whirlwind

### (b) Time, Date(s) of Occurrence

Floods
 Heat Wave
 Jul-Aug, Aug-Sept, & Oct.
 Mar-Jun

Fire / Lightning / Meteor Falling

Boat Accidents

Localized Hailstorm / Whirlwind

# 1.2 THE MAJOR CALAMITY: FLOODS-2003

The floods 03 had affected 27 districts in three phases. The first phase of floods in the month of July brought misery to the people of Bhadrak and Jajpur districts. It was followed by a more devastating 2<sup>nd</sup> phase of floods in August-September affecting 23 districts, marooning thousands of villages and inundating vast patches of agricultural land. In the 3<sup>rd</sup> phase the heavy downpour from 1<sup>st</sup> October to 10<sup>th</sup> October due to depression in the Bay of Bengal, caused floods which affected 13 districts.



### 1.2.1 RAINFALL

South-west monsoon had arrived in the state a week behind schedule during 2003. Monsoon rainfall in June was 179.3 mm against the normal of 213.2 mm. which showed a deficiency of 15.9%. However, things started improving in the month of July. The average normal rainfall in July was 351.6 mm against which the state received 360.6 mm rainfall, showing a surplus of 2.7%. The actual rainfall in August up to the 25<sup>th</sup> of the month did not show any dramatic change. Things suddenly took a different turn when rains lashed out different part of the state towards the month-end. Incessant and heavy rains during the last week of August triggered the crisis. Under the influence of a depression in the Bay of Bengal, there was 146.3 mm rainfall during the period of 26<sup>th</sup> to 31<sup>st</sup> August. This pushed the August rainfall to 426.5 mm. which exceeds the normal rainfall by 27.1%.

Heavy to very heavy rainfall occurred in almost all parts of the coastal Orissa from  $5^{th}$  to  $8^{th}$  October 2003 due to depression over the Bay of Bengal. Table-1.2.1 shows the position of rainfall from July to October, district-wise.

### DISTRICT-WISE RAINFALL From July to October

SI.	District	J	uly	Α	lug	S	ер	0	ct	тот	ΓAL	% of
		Normal	Actual	Normal	Actual	Normal	T		Actual		Actual	Deviation
1	Angul	382.0	404.1	333.0	472.6	220.6	348.8	93.6	221.1	1029.2	1446.6	40.6
2	Balasore	332.6	339.5	313.8	212.9	243.1	183.8	171.0	537.8	1060.5		20.1
3	Bargarh	469.6	315.7	430.9	560.5	224.3	345.2	61.6	147.8	1186.4	1369.3	15.4
4	Bhadrak	332.6	464.7	313.8	193.4	243.1	315.0	171.0	661.6	1060.5	1	54.1
5	Bolangir	391.7	409.5	407.1	607.4	232.0	379.7	65.6	115.6	1096.4		37.9
6	Boudh	390.8	429.5	373.8	620.9	260.3	285.7	127.2	159.7	1152.1	1495.7	
7	Cuttack	351.8	370.8	315.8	436.1	229.2	214.3	147.4	436.7	1044.2		29.8
8	Deogarh	469.6	307.6	430.9	374.4	224.3	398.0	61.6	200.2	1186.4	1457.8	39.6
9	Dhenkanal	382.0	324.1	333.0	415.4	220.6	249.3	93.6	333.4	-	1280.1	7.9
10	Gajapati	221.6	267.9	242.4	268.2	229.6	171.4	179.8	544.2	1029.2	1322.1	28.5
11	Ganjam	221.6	250.2	242.4	309.0	229.6	165.0	179.8	499.3	873.4	1251.7	43.3
12	Jagatsinghpur		307.6	315.8	346.6	229.2	325.5	147.4		873.4	1223.5	40.1
13	Jajpur	351.8	408.4	315.8	426.2	229.2	306.5	147.4	485.8	1044.2	1465.5	40.3
14	Jharsuguda	469.6	252.9	430.9	412.0	224.3	380.4		469.1	1044.2	1610.2	54.2
15	Kalahandi	343.5	496.8	384.6	786.2	220.9	494.7	61.6 81.9	164.6	1186.4	1209.9	2.0
16	Kandhamal	390.8	434.2	373.8	543.6	260.3	415.3	127.2	181.0	1030.9	1958.6	90.0
17	Kendrapara	351.8	438.3	315.8	395.6	229.2	294.2		331.3	1152.1	1724.4	49.7
18	Keonjhar	391.8	314.7	335.3	208.1	233.0		147.4	636.3	1044.2	1764.3	69.0
19	Khordha	310.8	327.0	300.3	530.1		160.7	112.7	297.2	1072.8	980.8	-8.6
20	Koraput	351.1	411.6	380.3	444.2	244.7	262.0	167.0	521.2	1022.8	1640.3	60.4
-	Malkangiri	351.1	778.7	380.3		262.1	190.7	116.5	186.2	1110.0	1232.7	11.1
	Mayurbhanj	426.4	279.9	375.5	582.1 214.9	262.1	89.2	116.5	139.9	1110.0	1590.0	43.2
	Nawarangpur	351.1	447.2	380.3		232.3	147.3	113.6	311.5	1147.8	953.7	-16.9
-	Nayagarh	310.8	317.3	300.3	564.2 491.9	262.1	233.7	116.5	168.8	1110.0	1413.8	27.4
-	Nuapada	343.5	311.4	384.6		244.7	169.9	167.0	324.9	1022.8	1303.9	27.5
-	Puri	310.8	246.2		429.8	220.9	293.4	81.9	164.8	1030.9	1199.4	16.3
-	Rayagada	351.1	276.3	300.3	377.1	244.7	203.3	167.0	454.2	1022.8	1280.9	25.2
-	Sambalpur	469.6		380.3 430.9	325.0	262.1	221.5		244.2	1110.0	1066.9	-3.9
menamija	Sonepur	391.7			414.5	224.3	371.0			1186.4	1285.5	8.4
	Sundargarh	480.2		407.1	579.0		339.9			1096.4	1329.8	21.3
-	STATE AVERAGE			458.2	302.1		265.8			1238.2	1026.3	-17.1
	STATE AVERAGE	351.6	360.6	335.6	428.1	236.5	274.0	131.6	314.1	1055.3	1376.8	30.5

[Table-1.2.1]



The Mahanadi basin received heavy rainfall during 26<sup>th</sup>-27<sup>th</sup> August, 1<sup>st</sup>-2<sup>nd</sup> and 6<sup>th</sup>-7<sup>th</sup> September. During 26<sup>th</sup>-29<sup>th</sup> August, the districts Kalahandi, Bolangir, Bargarh, Sambalpur, Sonepur, Boudh and Nayagarh located in the catchments of the Mahanadi system received rainfall ranging from 114 mm to 346 mm. The maximum precipitation was in Jayapatna block of Kalahandi district, where if exceeded 400 mm on 27<sup>th</sup> August. The other parts of the state received normal to heavy rainfall during this period.

Due to heavy rainfall from 6th to 8th October 2003 the water level rose in the rivers Brahmani, Baitarani, Subarnarekha, Budhabalang, Vansadhara & Rushikulya for which floods occurred in these rivers, affecting the downstream areas of the 13 districts. The following districts received excessive rainfall during this period. The detail is shown in Table-1.2.1A below.

SI. No.	District	Rainfall in mm during 1 <sup>st</sup> to 10 <sup>th</sup> October (in mm.)
1	Balasore	367.4
2	Bhadrak	480.8
3	Cuttack	285.5
2 3 4	Gajapati	338.9
5	Ganjam	263.1
6	Jagatsinghpur	325.9
7	Jajpur	302.6
8	Kendrapara	358.8
9	Keonjhar	203.7
10	Khordha	315.5
11	Mayurbhanj	215.4
12	Puri	269.3
13	Rayagada	179.8

[Table-1.2.1A]

Heavy rains in Kalahandi and Bolangir districts from 26<sup>th</sup> to 28<sup>th</sup> August caused floods in the tributaries Tel, Suktel, Ong and Lanth which marked beginning of the crisis. Moreover, rains in the upper catchments worsened the situation, resulting in an inflow of 8.7 lakh cusec flood water to the reservoir on 30<sup>th</sup> Aug. It pushed the water level in Hirakud reservoir close to the Full Reservoir Level (FRL) of 630 ft. Water of the tribunals was added to the water, which the reservoir released. As more than 13 lakh cusec flood water passed through Mundali, it posed a serious threat to the entire deltaic region. River Mahanadi and its distributaries were in spate.

### 1.2.2 RESERVOIR POSITION

July rainfall during 2003 had saturated the absorption capacity. Hence the additional inflow caused concern and beyond a point, water had to be released. As a result most of the rivers flowed above the danger levels at different gauge points. Table-1.2.2 and Table-1.2.2A indicate the inflow and outflow of water of Hirakud Reservoir and flow of water at Mundali respectively.

		HIRAKU	D		
Date	Inflow in lakh cusec	Outflow in lakh cusec	Date in lakh cusec	Inflow lakh cusec	Outflow in
29.08.03	7.51	7.26	05.09.03	4.00	4.45
30.08.03	8.70	8.78	06.09.03	2.60	1.15
31.08.03	8.34	8.85	07.09.03	5.50	4.81
01.09.03	4.52	5.41	08.09.03	6.30	6.11
02.09.03	4.60	5.65	09.09.03	5.20	5.78
03.09.03	6.06	6.06	10.09.03	5.43	3.81
04.09.03	6.40	5.45	11.09.03	3.29	3.36

[Table-1.2.2]



### MUNDALI

Date	Volume discharged in lakh cusec	Date	Volume discharged
29.08.03	13.24	05.09.03	9.87
30.08.03	13.49	06.09.03	8.43
31.08.03	12.25	07.09.03	8.65
01.09.03	12.33	08.09.03	9.25
02.09.03	10.10	09.09.03	10.96
03.09.03	09.10	10.09.03	9.72
04.09.03	10.49	11.09.03	7.48

[Table-1.2.2A]

The high floods of August-September, 2003 were marked by high peaks, high volume and long duration. Compared to Flood-01, Flood-03 has been more severs. Both the floods lasted for 19 days each. However Flood-03 had been characterized by four peaks, where as Flood-01 reached three peaks. During 2003, Mahanadi system handled a volume of 40 billion Cumec of water as against 31 billion Cusec in 2001.

# 1.2.3 Water Level in Major Rivers

The water levels in different rivers during two phases of flood during September & October are given at Table-1.2.3 below. Although floods continued for a pretty long period, the peak values of water level in respect of different rivers is only indicated.

River	Gauge	Warning	Warning Danger		Water Level				Year
		Station	Level	1.09.03	2.09.03	7.10.03	8.10.03	Reading	
Mahanadi	Naraj	25.41m	26.41m	26.87m	26.68m	23.44m	24.05m	27.61m	1982
	Jobra	-	21.94m	22.02m	21.72m	21.20m	21.20m	23.58m	1982
Brahmani	Jenapur	22.00m	23.00m	20.24m	21.32m	20.26m	20.98m	24.70m	1982
Baitarani	Anandpur	37.44m	38.36m	34.98m	35.55m	36.06m	37.95m	41.19m	1965
	Akhuapada	-	17.83m	16.84m	16.98m	17.64m	18.19m	21.95m	1960
Vanshdhara	Gunupur	83.00m	84.00m	82.19m	82.94m	84.18m	83.08m	88.75m	1980
	Kasinagar	53.60m	54.60m	53.53m	53.47m	55.78m	54.50m	57.93m	1980
Rusikulya	Purusottampur	15.83m	16.83m	14.17m	13.95m	17.76m	17.94m	18.97m	1990

[Table-1.2.3]

Chapter-II

The Impact of Floods





[ A marooned village ]



[ Communication disrupted ]



2.1. The Impact of Floods -2003

Impact of Floods on the life and property of people in affected districts during the year 2003 is shown at Table-2.1 & Table-2.2.

Affected	First phase July-Aug.	2 <sup>nd</sup> phase Aug-Sept.	3 <sup>rd</sup> phase Oct.
No. of District Affected	2	23	13
No. of Blocks Affected	9	128	105
No. of GP Affected	76	1484	1423
No. of villages Affected	273	6846	3522
No. of ULB Affected	Nil		
Crop Area affected (in lakh hectare)	0.261	4.78 LHa.	4.13 LHa.
Population affected (in lakh)	0.19	35.76 lakh	16.25 lakh
Villages marooned	Nil	1404	507
Human live lost	Nil	60	32
Livestock lost	Nil	2474	482
No. of houses damaged		1.88 lakh	1.84 lakh

[Table-2.1]

### 2.2. Districts Affected

Floods	Districts	River System
1st Phase	Jajpur, Bhadrak	Baitarani, Brahmani System
2 <sup>nd</sup> Phase	Angul, Bargarh, Bolangir, Boudh, Cuttack, Deogarh, Ganjam, Gajapati, Jagatsinghpur, Jajpur, Jharsuguda, Kalahandi, Kandhamal, Kendrapara, Khordha, Koraput, Nawarangpur, Nayagarh, Nuapada, Puri, Rayagada, Sambalpur & Sonepur.	Mahanadi, Brahmani, Indravati, Kolab, Nagabali, & Vanshadhara System
3 <sup>rd</sup> Phase	Bhadrak, Balasore, Cuttack, Ganjam, Gajapati, Jagatsinghpur, Jajpur, Kendrapara, Keonjhar, Khordha, Puri, Rayagada, Mayurbhanj.	Rusikulya, Baitarani, Budhabalang, & Mahanadi System

[Table-2.2]

### 2.3. No. of Villages Marooned and Affected by Floods

SI.	District	Villages M	arooned	Villages Affected		
No.	e.	2 <sup>nd</sup> Phase	3 <sup>rd</sup> Phase	2 <sup>nd</sup> Phase September	3 <sup>rd</sup> Phase October	
1	Angul	3		209		
2	Bargarh			115		
3	Bolangir	5	www.wooursusty.association.association	1571		
4	Boudh	5		174		
5	Cuttack	282		859		
6	Deogarh			325		



	TOTAL	1404	507	6846	3522
27	Balasore		360		529
26	Mayurbhanj		20		41
25	Keonjhar				126
24	Bhadrak				369
23	Sonepur	10		108	
22	Sambalpur	11		20	
21	Rayagada	5		415	1384
20	Puri	616		842	
19	Nuapada			33	
18	Nayagarh	1		89	
17	Nawarangpur	16		16	
16	Koraput	12		12	
15	Khordha	56	8	612	
14	Kendrapara	170		384	
13	Kandhamal			533	
12	Kalahandi			26	
11	Jharsuguda	6		27	
10	Jajpur	93		171	
9	Jagatsinghpur	117		251	007
8	Gajapati			50	669
7	Ganjam	1	119	4	404

[Table-2.3]

### 2.4. DAMAGE

### (a) Human Population

Calamity	1st & 2nd Phases(Aug-Sep)	3 <sup>rd</sup> Phases (October)
Lives lost	61	32
Person injured	Nil	

### (b) Animals perished

Calamity	1st & 2nd Phases (Aug-Sep)	3rd Phases (October)
Live lost	2474	482
Animals injured	Nil	

### (c) Residential Houses Damaged (Floods-03)

Damage	1st & 2nd Phases(Jul-Aug-Sep)	3rd Phases (October)
Fully Damaged	1432	11759
Severely Damaged	42306	78941
Marginally Damaged	144591	94088
TOTAL	188329	184788

[ Table - 2.4 ]



### 2.5. AGRICULTURE (Floods-03)

Crop Damage	July-August	Aug-Sep	October
i) Crop Area Damaged		4.78 lakh hect.	4.13 lakh hect.
ii) Estimated Crop loss		Rs.159.00 crore	Rs.73.00 crore

[ Table - 2.5 ]

Due to flood in September, 2003, 3.96 lakh hectare crop areas were submerged out of which 3.50 lakh hectares is paddy and 0.46 lakh hectare non-paddy crop. More than 50% crop loss anticipated in 2.37 lakh hectares of paddy area and 11,165 hectare non-paddy area.

Similarly during October, the paddy crop of 2.71 lakh hectare was affected. Out of this 1.35 lakh was affected more than 50%. Non-paddy of 61.962 hectare affected out of which 45697 hectare suffered 50% damage.

After crop cutting experiment, the State Govt. has declared 3206 villages both irrigated and non-irrigated of 65 blocks & 7 ULBs under 9 districts as having sustained crop loss of 50% and above due to high flood and heavy rain during the year 2003 kharif. The district-wise detail is at **Annexure-I.** 

### 2.6. DAMAGE TO INFRASTRUCTURE

ROADS (July-August-September)

Flood-03 had damaged the road communication network in the date. Extensive damage had been caused to major bridges and CD works in Angul, Bargarh, Bolangir, Boudh, Kalahandi, Sonepur and Kandhamal districts. In most of the districts, stretches of State Roads such as ODR, MDR & SHs and National Highways were critically damaged / breached. CD works were washed away at several locations.

Under primary sector, 1378 km of National Highways had damaged. Under secondary sector, 906 km of roads with 241 CD works were damaged. Also under tertiary sector - 3623 km of roads with 420 CD works were damaged.

**Details of Roads Damaged** 

Department	No. of roads	Length in Km	Breaches occurred	CD works damaged
Works	467	4529	155	644
RD	1606	5577	1417	2147
PR		18445	×-	18446
Forest		302.9	-	-:
NH		1378	9	32
WR	0	1200	-	•
TOTAL		31431.9	1581	21269

[Table-2.6]

### 2.7. OCTOBER FLOODS

Heavy rains during 1st week of October and floods in Rushikulya, Vansadhara, Brahmani, Baitarani and other rivers had also caused extensive damage to the Rural road network (RD Department) and as well as to the Roads, Bridges, CD works of Works Department in Ganjam, Mayurbhanj, Bhadrak, Balasore, Keonjhar, Rayagada and Kendrapara districts. The detail damages are as follows.



Nature	Depar	tments
	RD	Works
No. of Roads damaged	907	107
Length in Km. Damaged	2368.56	1405.90
Breaches occurred (Nos.)	1151	
CD works damaged	1360	312

[Table-2.7]

# 2.8. GOVT. BUILDINGS (August-September)

Extensive damages had been caused to both residential and non-residential buildings. 8921 buildings had been damaged during September Flood-03. The Department-wise damaged buildings is mentioned below.

Department	Residential Building	Non-Residential Building	Total
Works	1416	607	2023
RD	801	1210	
PR (GP / PS Building)	-	1612	2011
Revenue	169	651	1612
Co-operation	-	154	820 154
Forest		24	24
Home	149	13	162
Health (Hospitals/PHCs/Sub-centres, etc.)	-	2115	2115
TOTAL	2535	6386	8921

[Table-2.8]

### 2.9. SCHOOL BUILDINGS

Due to flood in September 1970 of school buildings were damaged. Out of which 165 primary / up schools were fully damaged.

Similarly the flood / heavy rain of October'03 had caused severe damages to 196 schools of 9 districts. The district-wise details are given below.

District		No. of School damaged
Ganjam	_	11
Gajapati	_	1
Cuttack		6
Jagatsinghpur	9. <del>70</del>	40
Jajpur		21
Kendrapara		77
Khordha	-	3
Puri	- 2	21
Rayagada	2 /2	16
Total		196

[ Table - 2.9 ]



### 2.10. POWER

Flood-03 had caused extensive damage in the power sector damages were mostly under 33 KV breakers etc. In most of the affected districts the poles and conductors were damaged. The 33/11 KV transformer and 33 KV transformers were failed.

### 2.11. WATER SUPPLY

During 1st & 2nd phase flood, 130 piped water supply projects and 10,500 tube wells were damaged. Similarly Urban Water Supply system in 24 towns and Urban Water Projects in 35 towns were affected due to flood.

During 3<sup>rd</sup> phase in October-03 flood large no. of rural drinking water sources were inundated. Many Rural Water Supply Systems were disrupted. 45 piped water supply projects and 3168 tube wells were damaged. In case of urban water supply 15 water supply systems of 39 ULPs were affected.

### 2.12. IRRIGATION WORKS

Damage	Floods			
	July-Aug-Sept.	October		
River Embankments & its structures	1310 km	202.08 km.		
Canal Embankments & its structures	1470 km	328.62 km		
Drainage system	975 km	240 km		
MIPs	993 nos.	414 nos.		
LIPs		1743 nos.		

[ Table 2. 12 ]

### 2.13. LOSS ASSESSMENT

Final Flood Damage Reports as based on the Reports of Collectors are at Annexure-II to XIV.





[ Relief materials transported in a boat ]



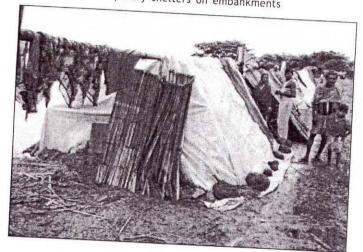
[ Relief operation in Army ]

Chapter-III

The Management of Floods



Temporary shelters on embankments





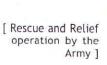


### 3.1. ADMINISTRATIVE

- Red Alert
- Alert Messages
- Weather Condition
- River level
- Reservoir Discharge
- Broadcast / Telecast of Washings
- Trigger Mechanism Activated
  - Control rooms round the clock
  - Govt. holidays cancelled
  - Men and material positioned
  - Check list and stock taking
  - Gateway districts alerted
  - Identification and mapping of inventories
- Vulnerable Districts Identified
- Senior Officers deputed to most affected districts
  - Food material
  - Transport & Boat
  - Other Materials
  - Health Care
  - Animal Care
  - Drinking Water
  - Army Co-ordination

### 3.2. RESCUE

All the affected districts were alerted in advance about the discharge of flood water. People were warned through local administration. PRIs, Civil Society were engaged in rescue operation. 1374 boats were used in evacuation, rescue and transportation of medical team and relief materials. 191611 persons were evacuated to safer places. The position of boats deployed during Floods is given at Table-3.2& Table-3.2A respectively for two phases of flood.





# District-wise Maximum Boats Deployed (3rd Phase Floods)

	District	Date					Source of Supply	hlddr		lotal	Kemarks
. No.	-	3	Army	Navy	ODRAF	SPEO	Commerce &	Commerce & Trans. Dept.	Hired from other Agency		
							Power	Country		1	The control of the co
		24 00 03		-		_	A CONTRACTOR OF THE PROPERTY O	1	16	17	The following
-	Angul	51.00.05					*		06	92	boats had been
2.	Boudh	08.09.03	-			_			20,	177	dispatched by
3.	Cuttack	11.09.03	13	7	6	11		26	106	///	Commerce to Transport
4.	Jagatsinghpur	08.09.03	8		3	12	9	9	73	108	Department and
5.	Jajpur	08.09.03				22	2	8	36	89	the same boats
6.	Jharsuguda	08.09.03				-			5	9	returned back by
7	Kendrapara	08.09.03	13	9	2	24	14	46	62	170	the Collectors
: «	Khurda	08.09.03	3			7			22	32	deployment. 5
5 0	haranaka	01 09.03				2			21	23	power boats, 6
	Nayagaiii	0000		,		15	38	4	390	459	from Bolangir, 4
10.	Puri	09.09.03		7		2		THE REAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS	, C	20	power boats from
7.	Sambalpur	08.09.03			3	-		Annual manual in the state of t	97	2 1	Rayagada, 2 power
12.	Sonepur	08.09.03					and and a state of the state of		2	٥ ،	boats from Boudh,
13.	Koraput	08.09.03				-	AND THE RESIDENCE OF THE PARTY	And the second s		-	from Kendrapara.
4.		09.09.03		And the second second		_	er en er er en		9	7	2 power boats from Puri and 2
15.	<u> </u>	10.09.03			CONTRACTOR OF THE CONTRACTOR O	-			3	4 r	power boats from Jajpur.
16.	Bhadrak	(#			1	***************************************	2		No company	0	
	Total	The state of the s	37	15	20	100	71	100	861	1204	

[Table-3.2]



District-wise Maximum Boats Deployed (3rd Phase Floods)

SI. No.	SI. No. District			Source of supply		Total	Remarks
		SPEO	ODRAF	Hired from Private Agency	te Agency		
				Power Boat	Country Boat		
<del>-</del>	Balasore	10	2	15	55	82	
2.	Bhadrak	18	2	40		09	
3.	Ganjam	3	12	4		19	
4.	Mayurbhanj	2			5	7	
5.	Jajpur	13			27	· 40	
6.	Khurda	2	MALLO TO LONGO THE STATE OF THE			2	and the second s
7.	Puri	2			The second secon	2	
∞.	Rayagada	-			_	2	
9.	Keonjhar	2			5	_	
AND THE RESIDENCE OF THE PARTY	Total	53	16	29	93	221	

[Table-3.2A]



### 3.3. ARMY & NAVY

10 columns of Army with 588 personnel, one Army medical teams with 29 boats, 21 Naval personnel including six diver groups, seven rescue teams of INS Chilka, three inflated rubber boats, 18 relief, rescue and medical teams of INS SAVITRI, Seven rescue teams of Indian Coast Guard, Paradeep and three units of Orissa Disaster Rapid Action Force (ODRAF) were engaged in rescue and relief operation. The details are as follows.

### a. Army:

- 1. Location: Dist- Jagatsinghpur
  - 1 Army Column with 130 persons including officers and JCOs deployed at Tirtol.
  - 1 Army Group with 43 persons including officers and JCOs deployed at Jagatsinghpur.

### 2. Location: Kendrapara

2 Army Group - 133 person including 1 Officer & 4 JCO and with 2 Boats at Marsaghai

### 3. Location: Cuttack

- 2 Army Groups with 110 Army Personnel including officer and JCOs with 2 boats at Athagarh.
- 1 Army Group with 65 Army Personnel at Banki
- 2 Army Groups with 85 Army Personnel at Kantapada

### 4. Location: Khordha

• 1 army group with 22 Army Personnel & with 3 Boats (Sarakana, Jayadev, Bhingarpur and Benupur area)

Place: Balipatana.

### b. Navy

### 1. Location: Cuttack district

- 1 Naval team at Athagarh.
- 1 Naval team with 7 personnel at Banki
- 1 INS Chilika of 10 personnel at Niali
- 1 Naval team with 45 personnel at Kantapada
- 1 Naval team with 17 personnel at Nischintakoili

### 2. Location: Kendrapara district

- 1 Navy team with 15 personnel at Korua
- 1 Naval team including 15 personnel and 2 doctors at Marshaghai.

### c. Indian Coast Guard:

- 1. Location: Jagatsinghpur district Place: Tirtol, Biridi, Naugaon & Raghunathpur area.
  - 7 Rescue teams

### d. ODRAF

- Cuttack Unit: One Group with 3 Boats is working in Banki & another group with 3 boats is working in Jagatsinghpur district.
- Koraput Unit: Unit with 5 boats is deployed at Mahakalpada & Derabis of Kendrapara district.
- Jharsuguda Unit: Unit is Operating in Sambalpur district.

### e. NCC

• Cuttack District: One NCC team at Niali.



### f. OTHER:

- INS SAVITRI has arrived today in Paradeep Port with some Relief Team & Materials.
- Having 3 IRB Boats
- 18 Relief, Rescue & Medical personnel.
- 4-5 Tons of Dry Food
- Special Commandos for Search & Rescue
- They are being deployed to different destinations.

### 3.4. RELIEF

Evacuated persons were kept temporarily in 757 temporary shelters. They were provided with adequate quantity of dry food as well as cooked food through free kitchens at 425 centres. 1.14 lakh beneficiaries including old, infirm, destitute and children were covered through free kitchen.

Emergent relief materials in the shape of rice (13561.87 MT), flattened rice (3949.47 MT), jaggery (304.08 MT), Dal (32.0 MT) were provided to 40.95 lakh persons in the affected areas. 76500 nos. of polythene sheets & 650 nos. of tents were supplied to affected districts for temporary shelters.

### 3.5. DRINKING WATER

Due to floods, supply of safe drinking water was seriously affected. Almost all the wells in the affected areas were infected. Efforts were made to supply portable drinking water through carriages, water tankers and poly packs. 142 mobile vans and 52 tankers were engaged to supply drinking water to the affected people. 383.00 lakh halogen / chlorine tablets were distributed among the flood affected people. 8278 tube wells and 27 pipe water supply units were restored. 12.08 lakh poly packs and 52000 jerry cans of drinking water were distributed. 85718 nos. of drinking water sources were disinfected.

### 3.6. HEALTH & SANITATION

Adequate quantity of essential drugs like halogen tablets, antibiotics, paracetamol tablets, snake venom injection, bleaching powder were supplied to all affected districts. Doctors and paramedical teams were also deployed. The details are as under.

	Rescue mobilization		
	Medical doctors	_	303
	Medical officers	_	573
	Health workers	_	185
	Medical Relief Centres Opened	2	326
	Mobile Units	2	20
•	Medicines / Disinfected Distributed		
	<ul> <li>Bleaching powder</li> </ul>	-	73350 Kg
	<ul><li>ORS</li></ul>		13.58 lakh pkts.
	<ul> <li>IV Fluids</li> </ul>	<b>2</b> 0	1.34 lakh bottle
	<ul> <li>Anti-snake venom</li> </ul>	•	7000 vials
	Patients Treated		
	<ul> <li>Diarrhea</li> </ul>	(#C	11711
	Minor Ailment	~	1.45 lakh
	Snake bite	-	45
	Timering Time		
	Disinfection of wells	180	21719



### 3.7. ANIMAL CARE

13.82 lakh livestock comprising cattle, buffalo, sheep, goats, poultry birds were affected. The affected animals were shifted to safer places and were provided cattle feed. 3932.26 MT of concentrated cattle feed and 193.66 MT of rice bran were distributed. 476 no. of Veterinary health camp opened. Vaccines had been administered and essential drugs were distributed. The details are as follows.

HSV 2.94 lakh **BQV** 1.20 lakh Anthrax 700 **FMD** 3.81 lakh PPR 3300

### 3.8. EX-GRATIA ASSISTANCE

Ex-Gratia Assistance @ Rs.50,000/- was paid to the next of kin of the deceased persons died due to flood-03 & snake bite during flood-03. 93 persons died due to flood-03. An amount of Rs.50.10 lakh was placed at the disposal of Collectors for payment of Ex-Gratia assistance.

### 3.9. HOUSE BUILDING ASSITANCE

House Building Assistance out of CRF / NCCF was provided to the affected people whose houses were damaged due to flood & heavy rain 2003. The affected people were paid at the following scale.

a) Fully damaged houses (maximum aid)

i) Pucca house

Rs.10,000/- per house

ii) Kachha house

Rs.6000/- per house

b) Severely damaged houses (maximum aid)

i) Pucca house

Rs.2000/- per house

ii) Kachha house

Rs.1200/- per house

c) Marginally damaged houses -

Rs.800/- per house

(Maximum aid)

After final assessment of house damage it was reported that 1.85 lakh houses were damaged. The district house damage statistics is at Annexure-III. An amount of Rs.2321.70 lakh was provided to all districts for distribution of HB assistances (as per scale fixed) to the beneficiaries.

Besides the HB Assistance, Tarpaulins & Tents were provided to the people for temporary shelter. The district wise distribution of Tarpaulin / Tents is given below at Table-3.9 & 3.9A.

Floods-2003 (August - September)

SI. No.	Name of the District	Total No. of Polythene sheets dispatched	Total No. of Tents dispatched
1.	Cuttack	17500	100
2.	Jagatsinghpur	10500	100
3.	Kendrapara	12740	100
4.	Puri	20300	150
5.	Bolangir	2500	
6.	Khordha	1980	50
7.	Sambalpur	2500	



	Total	76500	650
5.	Nayagarh		50
4.	Jajpur		50
3.	Angul		50
2.	Sonepur	1500	
1.	Boudh	1200	
•	Jharsuguda	0	
.	Kalahandi	3100	
	Bargarh	2680	

[Table-3.9]

### Flood-2003 (October)

SI. No. Name of the District		Total No. of Polythene Sheets dispatched		
1.	Balasore	2000		
2.	Ganjam	. 1500		
3.	Bhadrak	2000		
	Total	5500		

[Table-3.9A]

### 3.10. CIVIL SOCIETY FLOOD RESPONSE

UN Agencies, INGOs, and many small and big local NGOs have participated in flood response activities, in the field of rescue and relief including food aid, immediate habitat restoration, health and sanitation, temporary shelter, etc. Their current focus of activities is laid on emergency health response activities. OSDMA has been coordinating the activities of UN Agencies, INGOs and NGOs at the state level. As requested, NGOs have been coordinating their efforts with concerned Block and District administrations. NGOs have been requested to spread evenly over the affected area so as to rule out duplication or overlapping of efforts, and ensure optimal and equitable utilisation of resources. OSDMA has made its best efforts to facilitate their participation in emergency response activities by helping them identify vulnerable locations and coordinating efforts with concerned authorities at state and district levels.

The largest NGO alliance at work is the one formed by the Indian Red Cross, Oxfam GB, Concern Worldwide, Orissa Disaster Mitigation Mission (ODMM), Catholic Relief Services (CRS), and Action Aid-India. The alliance has adopted Bilipada GP in Banki-Dompada Block for intensive relief and rehabilitation work through a local NGO, Banki Anchalika Adivasi Harijan Kalyan Parishad. Orissa Development Action Forum (ODAF), an alliance of 11 NGOs is separately engaged in relief activities.

Among UN Agencies, UNICEF and UNDP have provided relief aid through the Government. International NGOs such as Red Cross, CRS, CARE, Oxfam GB, LWS, Concern Worldwide, and Action Aid are involved in relief work through their local partners. CASA and EFICOR are working directly at the community level. The focus of international and local NGOs has been food relief, drinking water, emergency health and sanitation, and temporary shelter. Local and community based NGOs mobilised their volunteers to assist the Government in relief activities such as running free kitchens.

# 3.11. Relief Provisions by UN Agencies/ NGOs

Relief Kits: 29,000

Flattened Rice: 3484 Qtls

Jaggery/Sugar: 521 Qtls Cereal Powder: 45.55 Qtls Rice: 5259 Qtls Dal: 2396 Qtls

High Cal. Biscuits: 20.4 Qtls

Biscuit packets: 127600

Child support kits: 4000

Halogen tabs: 1.50 Crore

ORS sachets: 7.79 Lakhs Bleaching powder: 2046 Qtls

Tarpaulin/Polythene: 75,616 sheets

Water containers: 27000

Free Kitchens: 150 Over 67 medical teams deployed

Over 48,000 patients treated

# 3.12. Emergency Health Response Activities by NGOs:

Organisation	Local Partners	Medical Teams	Check -ups	Beneficiaries	No of Villages, Blocks
CARITAS-CRS	Catholic Church, Navayoti Club, BAAHUP, Sagar	9		9643	69 villages in 11 Blocks in 6 coastal districts
		3		11518	Niali, Bhapur, Barchana Tirtol, Mahanga, Kanas, Marsaghai, Kakatpur Blocks Astaranga Block
VHAI-OVHA	JSSS, Pecuc, YARR, VARRAT, WORD, LKDK, The Medics MJJC, SGSA, ORRISSA, VYK, YCDA, MYS, JJS MARVO, GUC, Pallishree Utkalika Samiti, BAKSC SJS, NYP, PYSO, PARR SSE, Nari Surakshya Samiti, SDWO, Royal Club POPET, LNSS, NRC, BHARAT	17	99	7885	Nimapada, Balikuda, Gop, Pipli, Kakatpur, Kujang Marshaghai, Mahakalapada Khurda, Balianta, Raghunathpur Niali, Kanas Mahanga, Barchana Kantapada
AKSS		3		5439	Kanas block
Action Aid		11	-		80 villages, 25 GPs, in 10 Blocks (Balikuda, Naugaon Dharmasala, Marsaghai, Gop, Nilai, Nimapada, Puintala, Agalpur, Deogaon)
CPSW		1	Control of the Contro	300	Bhapur block of Nayagarh district
NYSASDRI		2		1152	Barchana & Dharmasala
My Heart		1	6		Kendrapara
ABLE		6			Kendrapara
ODAF		2			A Part A
OMRAH		1	12	1200	Akhua GP, Marsaghai
UBSS		4		4912	Marsaghai, Nimapara, Garadpur, Nilai, Gaisilat
MJS		1	1	488	
TOTAL		67		48690	

[Table - 3.12]



# 3.13. FLOOD RESPONSE ACTIVITIES BY NON-GOVERNMENTAL ORGANISATIONS AND OTHERS

- (a) Indian Red Cross Society-Orissa provided relief materials for distribution amongst flood-affected people through district administrations and NGOs in Kendrapara, Puri, Cuttack, Jajpur, Boudh, Khurda, Kandamal, and Jharsuguda districts. Its material provisions include: 14,915 polythene sheets, 56.8 Qtls of flattened rice, 20.15 Qtls of sugar/jaggery, 26 Qtls of common salt, 23.64 Qtls of high calorie biscuits; 14 Qtls of cereal powder; 72 Qtls of potatoes and onions; 29,49,000 water-purifying tablets; 8 water balloons; 4 rice cookers; 2600 ORS packets, 17 items of medicines; 15 Qtls of bleaching powder; 2400 dhotis, 4805 sarees; 23,900 garments; candles and matchboxes: 1300 each; and some study materials for 400 children, and 1400 Ltrs of milk, 200 breads, 2 bags of utensils. (Materials distributed include 1000 relief kits provided by German Red Cross.) It deployed 3 medical teams in Astaranga and Kanas Blocks and treated 1536 pateients. Its mental health teams undertook psychological counselling in Brahmagiri and Krushnaprashad Blocks of Puri district. (last report-20.9.2003)
- (b) CARE has carried out relief work in Marshaghai, Mahakalpada, Banki, and affected areas of Agalpur, Puintala, Muribahal and Luisinga of Bolangir district with support from DFID. CARE's relief work was done through CBOs and PRIs. Their relief provisions included: 1,00,000 packets of biscuit, 20000 candles, 48000 matchboxes and 2220 polythene sheets, 4000 ORS sachets, 20000 halogen tabs, 2000 sets of kitchen utensils. 11 Qtls of cereal powder, 1100 plastic floor mats and 1000 child support kits have been provisioned for 1100 families in Bilipada GP of Banki-Dompda Block. 4500 Qtls of rice, 50 Qtls of Dal and 25 Qtls of oil have been sanctioned for food for work in four affected Blocks. (15.9.2003)
- (c) UNICEF has provided relief items worth 2.07 Crore rupees to the State Government: (10 million halogen tablets; 2,00,000 Kgs of bleaching podwer; 7,00,000 ORS sachets; 10,000 tarpaulin sheets; 30,000 H<sub>2</sub>S Strips for checking water source contamination; 100 Qtls of calcium-hypochloride solution; 10,000 (5 ltrs) and 10,000 (10 Ltrs) jerry cans; 6000 vials of anti-snake venom; 50,000 bottles of IV fluid; 5,000 family relief kits; 1,00,000 leaflets on use of bleaching powder. It is also mobilising educational kits for flood-affected children in consultation with Education Department. (10.9.2003)
- (d) UNDP has despatched 18,000 polythene sheets to affected areas. It has mobilised 2000 family relief kits and 25,000 ORS sachets for distribution among people. (4.9.2003)
- (e) CASA worked in 103 villages; has provisioned 5000 comprehensive relief kits, each containing 1 dhoti, 1 saree, 1 blanket, utensils and food materials for distribution in Kendrapara, Khurda, and Cuttack districts. Its other relief provisions include: 500 Qtls of flattened rice, 100 Qtls of jaggery/ sugar, 2000 tarpaulin sheets, 100,000 halogen tablets, 23 ORS packets, 12.5 Qtls of bleaching powder, and other medicines. It ran 2 free kitchens in Khurusia and Kurunjipur villages in Mahakalpada and Balapatna Blocks providing 2051 meals. It also deployed 544 volunteers in relief activities. (22.9.2003)
- (f) LWS has covered 110 villages in Marsaghai, Astaranga, Kakatpur and Nimapada Blocks and 12 wards of Cuttack Municipal Corporation; distributed 2910 polythene sheets. Its other relief aid include: 500 Qtls of flattened rice and 50 Qtls of jaggery, and 4,30,000 halogen tablets. It deployed 55 LWS volunteers/ 121 community volunteers in relief work. (22.9.2003)
- (g) Oxfam GB's relief provisions include: flattened rice-600 Qtls, Jaggery-120 Qtls, roasted gram-60 Qtls, 1224 polythene sheets, 975 Ltr of zeoline, 30000 Iron tablets for mothers, 1047 Qtls of cattle feed, 6 Qtls of alum and 4500 mtrs of markin cloth which covered 6000 families. It also distributed hygiene kits to 2935 families. It deployed 300 tarpaulin sheets, 20 tents, 1006 water containers, and 400 kerosine cans; 400 tube well repairing kits, 15 life jackets, 6 life buoys, 3 fiber motor boats in emergency response activities. It also placed material worth Rs.14 lakh with ODMM for relief activities. It is procuring 800 steel water filters for distribution. (22.9.2003)
- (h) CRS has distributed 280 out of 2500 polythene sheets provisioned; it is planning to provide 40,000 family food packets containing dal and potatoes in Puri, Jajpur, Cuttack and Jagatsinghpur. Its relief provisions made so far include: 27.96 Qtls of dal, 37.24 Qtls of potato; and 9.31 Qtls of common salt. (19.9.2003)



- CARITAS has worked in 16 villages in Gania Block of Nayagarh district. Its relief provisions made so far clude: rice-51.52 Qtls; dal-12.88 Qtls; Flattened rice-17.95 Qtls, Jaggery-4.4 Qtls. (19.9.2003)
- ) Concern Worldwide gave relief kits to 14,198 families through its partners DSS, SHEDS, USS, SWAD, DLAR, OMRAH in Puri and Cuttack districts. Relief materials distributed include: flattened rice-1065 Qtls; Igar-142 Qtls; Jerry Cans-5329; halogen tablets-1397500, ORS-24127 packets; Bleaching powder-8.75 tls. (16.9.2003)
- c) Action Aid-India has supported local NGOs with medicines worth Rs. 1,68,800 for carrying out community ealth check ups in 80 flood-affected villages. Its medical teams have so far treated 4313 patients in 10 locks. Its partners are Akhyam Sangathan (Nimapada), Nature's Club (Kendrapara), AAI-BGVS (Balikuda/augaon), United Artists' Association (Ganjam), NYSASDRI (Jajpur), Harijan Kalyan Samiti (Niali) and DMM. (19.9.2003)
- l) TATA Relief Committee's relief provisions include: 20,000 polythene sheets; flattened rice-120 Qtls; aggery/sugar-10 Qtls; Rice-50 Qtls; Dal-15 Qtls; lantern-3600.
- m) EFICOR has mobilised 600 Qtls of rice, 60 Qtls of Dal, 20 Qtls of common salt, and 20 Qtls of oil for listribution among 2000 families in 15 affected villages. (10.9.2003)
- n) CPSW is active in Nayagarh and Jagatsinghpur districts. Its relief provisions include: flattened rice-101 Qtls; sugar-29 Qtls covering 9300 families in 32 villages of Nayagarh and Jagatsinghpur districts Khandapara-12, Bhapur-8, Jagatsinghpur-4, Biridi-3, and Naugaon-5 blocks) It ran 4 free kitchens for providing 5000 meals. Its medical team organised a health camp at Manpur in Bhapur Block treating 300 patients. (15.9.2003)
- (o) ODAF, an alliance of 11 NGOs has provided 30 Qtls of rice, 42.7 Qtls of flattened rice, 5.8 Qtls of jaggery, 3.5 Qtls of dal, 3 Qtls of suji, 1 Qtls of common salt, 5.6 Qtls of potato and .5 Qtls of onion among 1000 households in Gania (250) and Ali-Pingal (750). They have also deployed 2 medical teams. (6.9.2003)
- (p) ODMM, an NGO alliance, distributed relief material provided by OXFAM among 4000 households, and organised health check ups through its partners treating 11,518 patients in Cuttack, Puri, Jajpur, Khurda, Nayagarh, and Kendrapara districts. (17.9.2003)
- (q) VHAI(Aparajita)-OVHA have deployed 17 mobile medical teams and organised health check ups treating 7885 patients in 78 villages in Puri, Cuttack, Kendrapara, Jagatsinghpur, Angul, Boudh, Jajpur and Nayagarh districts. Their medical provisions include: 1.5 Lakh halogen tablets, 250 Kgs bleaching powder, 11,900 ORS packets, and different medicines. (12.9.2003)
- (r) AKSS ran 10 free kitchens in Kanas Block with government support providing 8400 meals; evacuated 315 persons; deployed 4 powerboats and 5 country boats, and 90 volunteers in emergency operations. It set up temporary shelter for 498 people; deployed 3 medical teams treating 5439 patients; and provided 600 ORS packets; 95 kg bleaching powder, 24000 halogen tablets, and 400 drinking water pouches. (15.9.2003)
- (s) CYSD is working Puri, Jajpur, Cuttack, and Jagatsinghpur districts. It deployed 4 powerboats in emergency operations in Badachana, Kantapada, Nimapara, and Alipingal. It ran free kitchens in 66 villages (Rice-50 Qtls; Dal-12.5 Qtls; Oil-220 Ltrs; Potao-19 Qtls); provided baby food (cereal powder-19.35 Qtls); and organised medical camps distributing medicines in 66 villages (halogen tablets-87500, ORS-1525; bleaching powder-268.75 Qtls, and medicines for humans and animals); Its local disaster management teams ran a free kitchen at Tarasahi Island in Balikuda Block and fed 1000 people (Rice-10.6 Qtls, dal-2 Qtls. (17.9.2003)
- (t) Anandmarg (AMURT) has deployed 66 volunteers in relief work; covered 33 villages in 15 GPs of 6 Blocks in Puri, Cuttack, Kendrapara, and Kalahandi districts. Its relief provisions made so far include: 8780 packets of biscuits; 72.25 Kgs of milk powder; 220 kgs of apples, 3520 halogen tablets, 100 candles, 1000 matchboxes. Its 9 free kitchens have provided 4400 meals to people. (12.9.2003)



- (u) My Heart has provided following relief materials: wheat flour-150 Qtls; 12000 biscuit packets; 20 polythene rolls; It conducted 6 health check-ups treating 1000 patients.
- (v) ABLE has distributed following relief materials: flattened rice- 52 Qtls; jaggery-11 Qtls; biscuits-2550 packets; bread-200 packets; halogen tablets-60,000; bleaching powder-200 kgs; ORS-600 packets; water pouches-500, lanterns-36; It deployed 6 health teams treating 840 patients.
- (w) YMCA worked in 6 GPs of Cuttack district covering 1850 families. Its relief provisions include: flattened rice-185 Qtls, jaggery-18.5 Qtls, candles/matchbox-1850 packets each.
- (x) NYSASDRI worked in 15 villages in Dharmasala Block of Jajpur district; organised community health check ups with support from Action Aid treating 1152 patients. Its relief provisions include: flattened rice-4.88 Qtls, jaggery-1.12 Qtls, cereal powder-1.2 Qtls, and husk for cattle-10 Qtls in Raghunathpur and Badachana Blocks. (10.9.2003)
- (y) Utkal Sevak Semaj has worked with support from Concern Worldwide and provided relief aid to 4060 households in 27 villages in Kantapada and Nilai Blocks. (16.9.2003)
- (z) NSS, Utkal University ran 6 free kitchens catering to 1000 persons in Nimapada and Niali Blocks; and has placed its local volunteers in 17 affected Blocks. (6.9.2003)
- (aa) Vasundhara has distributed 10 Qtls of flattened rice, 12 Qtls of wheat, 13 cartons of biscuits, 5 Qtls of potato in Tirtol and Marsaghai Blocks. (10.9.2003)
- (ab) Puri District Disaster Mitigation Forum is coordinating NGO flood response activities in Puri. Its members have set up 3 information centres and participated in rescue and evacuation activities. (9.9.2003)
- (ac) Seva Baharati provided rice-30 Qtls; dal-2 Qtls; 50 blankets; 3000 candles; ran free kitchens for 1500 people; deployed 25 rescue teams; provided temporary shelter to flood affected people in Khandamal district.

### 3.14. DISTRICT REPORTS

**NGOs in Khordha:** The District Collector has informed that following have participated active in relief activities in different Blocks:

Balianta: Innerwheel School Organisation, Satyasai Organisation, Rotary Club, Sarboday Vikash Samiti (partner of OVHA),

Balipatna: CASA, Padhi Tutorials,

Khordha: Vishwa Jeevan Seva Sangha, Bhairabi Club, Khurda Nari Seva Sangha

**NGOs in Jajpur**: The District Collector has informed about the following NGOs actively involved in flood relief activities in different Blocks:

Badachana: VKSS, COPHEE, Utkal Gourab Society, LISDAP, Abhiyan, Lok Vikash, and Mrutyunjaya Rural Development Society

**Dharmasala**: Pallishree, Bapuji Palli Unnayan Samiti, Binapani Seva Pratistan, Gokarnika, Nari Abhyday Samiti, NYSASDRI, CRY-Sambhab Odisha, and CEAP.

OTHERS: (No fresh reports received from following NGOs after September 10, 2003)



Arupa Mission Research Foundation ran 11 community kitchens and fed 8950 persons in Biridi and Raghunathpur Blocks. CHESD distributed some ORS, First Aid and essential medicines in 20 villages in Khurda, Sonepur, Bolangir, Kalahandi, and Kendrapara districts. IRSDO informed it provided medicines for 50 people in Erasama Block. KASS informed it deployed 65 volunteers in relief activities in Antei, Batira, Manikpur GPs, Marsaghai Block and Tikari and Dhaniapara GPs of Mahakalpara Block. Sradhanjali, Kalyani, GITA, Ashraya, and OMDC, a team of 5 NGOs worked in 15 villages of Garadpur Block; informed that they had run free kitchens for 2 days; and run health camps treating about 500 people. Kalayani distributed 2 Qtls of flattened rice, 20 kgs of sugar, 200 packets of biscuits. Challenge informed that it had distributed 4 bags of flattened rice in Barda and Banipara villages of Sikhar GP of Naugaon Block. Life Line Orissa, Adventure, Asantu informed they have distributed some medicines in Nilali, Gop, and Mahakalpada Blocks respectively. Khetramani Club worked in Puri district. People for Animals has provided 10 Qtls animal feed in Nayagarh district. Loka Mandal: carried out sanitation activities in 6 villages in Bhapur Block and in 4 villages in Begunia Block with help of its 42 volunteers (5.9.2003). Mahavir Yuvak Sangha has provided relief (flattened rice-2 Qtls; cereal powder-2 Qtls; and biscuits-500 packets) to 488 households in Banki-Dompada Block. (12.9.2003)

(Prepared on the basis of information provided by NGOs before 20th September, 2003)

## 3.15. Highlights of Flood Management -2003

The concept of disaster management has undergone a paradigm shift as the lessons learnt from Super Cyclone-99 opened new windows of understanding. The management of Floods 2001 set a new benchmark. In the managements of Floods 2003 some concepts have been fine tuned; certain methodologies have been validated once again. Yet some new beginnings have been made.

- √ Visit of the Head of the Govt. and Administration to the State Control Rooms provided orientation and involvement appropriate to the seriousness of the crisis.
- ✓ Immediate deputation of senior officers to affected districts with enough delegation of authority ensured decentralized approach.
- ✓ Reaching out to marooned population with emergent relief had been the most important goal which was achieved without any help from outside of the state as regards to materials or machineries.
- ✓ Army, Navy and Coast Guards including Orissa Disaster Rapid Action Force were pressed into service effectively.
- ✓ Effective Management was ensured using modern means of communication set up in the recent past.
- $\checkmark$  An optimal use of resources within the state had been the hallmark of Floods 2003.
- ✓ Synergetic efforts by various departments made a difference.
- ✓ The concept of 'Gate-Way District' was further fine tuned. The District administration of Balasore, Sambalpur, Mayurbhanj and Angul played major roles in mobilizing material support for the affected districts.
- ✓ Panchayati Raj Institutions played a key role in relief delivery.
- ✓ Daily prioritizing the problem locations and focusing on the worst hit areas and population was the highlight of flood management 2003.
- ✓ On timely submission of memorandum to GOI, assistance of Rs.104.43 crore and 3.00 lakh metric ton of food grain for food for work Programme were provided by the centre & are being utilized for restoration works.
- ✓ Transparency in relief management was ensured. Daily press briefing by the administration helped proper dissemination of information. Action taken on the feedbacks received from media served the affected population better.

Chapter-IV

**Minor Calamities** 



[ People taking shelter in IAY houses ]







### 4.1. LIGHTNING

Hundreds of people die every year due to lightning. It happens more in case of farmers/agricultural field workers who usually work outside and get struck by lightning. Table-4.1. shows the details district wise victim of lightning.

SI. No.	District	Name of the Deceased	Age	Village	Block / Tahasil / Police Station	Date of Death
1	2	4	5	6	7	9
2003	<u> </u>					
1	Angul	Santosh Kumar Sahu s/o		Bhogara	Thakurgarh	20.2.03
2	do	Dama Gochhait s/o Sura		Chakradharpur	Chhendipada	26.5.03
3	do	Suresh Ch Pradhan s/o Gokul		Mahidharpur	Talcher	29.7.03
4	do	Duhita Pradhan w/o Dayanidhi		Mahidharpur	Talcher	29.7.03
5	do	Rania Behera w/o Sambhu		Rankasingha	Angul	12.09.0
6	do	Chaitanya Pradhan s/o		Badatikirasahi	Athamallick	17.03.0
7	do	Sasmita Pradhan		Badatikirasahi	Athamallick	17.03.0
8	do	Karpur Deepa w/o Laxman		Anantapalli	Athamallick	26.08.0
1	Balasore	Gura Singh s/o		Sauakaliapada	Nilgiri	16.4.03
2	do	Bhaskar Das s/o Kanak		Nimnagadia	Nilgiri	19.4.03
3	do	Sambhu Singh s/o		Chatrikhunta	Nilgiri	22.7.03
4	do	Kutia Patra s/o Biju		Gujadiha	Soro	30.6.03
5	do	Gadunath Patra s/o Malati		Gujadiha	Soro	30.6.03
6	do	Mahan Saukhua s/o		Sahigar	Simulia	4.7.03
7	do	Sk.Laljan s/o		Ghankharia	Balasore	15.6.03
8	do	Padmalochan Mahalik s/o		Inchudi	Khantapada	30.3.0
9	do	Sumitra Das w/o Baidhar		Sanmaitapur	Simulia	28.7.0
10	do	Satrughana Behera s/o Sudhuni		Siadimal	Nilgiri	21.8.0
11	do	Baidhar Mohakud s/o		Sampei	Khaira	22.7.0
12	do	Rama Majhi w/o		Sutei	Balasore	1.11.0
13	do	Lauman Jena s/o		Jamjhadi	Simulia	15.6.0
14	do	Kamrun Bibi w/o Sattar Khan		Haripur	Remuna	15.6.0
15	do	Banamali Jena s/o Lalita		Dandanabada	Basta	16.10.0
1	Bargarh	Bhagirathi Bariha s/o Ranjit		Banjhapali	Padmapur	25.5.0
2	do	Abhidhan Para s/o Jana		Arjunda	Bheden	18.6.0
3	do	Smt. Sobha Meher w/o Iswar		Pandakipali	Sohella	24.6.0
4	do	Krushna chandra Patel s/o Nirupamani		Purena	Padmapur	12.06.0
1	Bhadrak	Narahari Swain s/o Pravakar		Tillo	Bonth	20.2.0
2	do	Raghunath Khillar s/o Budhiram		Bideipur	Basudevpur	14.3.0
3	do	Adhikanda Das s/o Bansidhar		Chatarpada	Chandbali	18.6.0
4	do	Sk.Fakir Mohamad s/o Sk Suleman		Sankhajodi	Chandbali	11.7.0
5	do	Sk. Jabbar s/o Sk. Allauddin		Sankhajodi	Chandbali	11.7.0
6	do	Gadadhar Ghose s/o Purnachandra		Samia	Basudevpur	3.8.03
7	do	Sarat Chandra Sethi s/o Bholanath		Paridia	Dusuri	25.9.0
8	do	Laxmi Jena w/o Muralidhar		Dhamnagar	Dhamnagar	25.9.0
9	do	Parbati Das w/o Gourahari		Taladia	Chandbali	1.11.0
1	Bolangir	Ghasi Putel s/o Gurji		Andalpur	Katabanjhi	13.3.0
2	do	Nirakar Bag s/o Hiradhar		Andalpur	Katabanjhi	13.3.0
3	do	Bhuban Putel s/o Abhadhut		Andalpur	Katabanjhi	13.3.0
4	do	Uren Kumbhar s/o Bhika	30	Thakurpali	Bolangir	14.4.0
5	do	Biranchi Kumbhar s/o Bhika	24	Thakurpali	Bolangir	14.4.0
6	do	Radhashyam Pradhan s/o Makhanu	42	Budhipadar	Bolangir	14.4.0
7	do	Nimai Budek s/o Narayana	12	Sargad		14.4.0
8	do	Dayasagar Majhi s/o Jani	45	Rusuda	Tusra	04.04.0



						( ) ·
)	do	Sukadev Majhi		Maruan	Patnagarh	25.5.03
0	do	Jaldhar Majhi		Pandel	Patnagarh	25.5.03
1	do	Basanti Mallick w/o Basudev	25	Janipali	El la marca de la companya de la com	10.06.03
2	do	Chaitanya Chhatria s/o Ugrasen		Kantabanjhi	Kantabanji	09.07.03
3	do	Balakrishna Rana s/o Dasa	45	Chitamara	Saintala	8.8.03
4	do	Radhakanta Bag s/o Akura	11	Birmunda	Madhiapalli	26.8.03
15	do	Shakti Para Bhue s/o Bùdu		Bagdungiri	Mundapara	26.8.03
16	do	Fatu Sahu w/o Bhuban	28	Fatamunda		04.08.03
17	do	Jashoda Bag w/o Purastam		Ratakhandi	Tusra	27.08.03
18	do	Babulal Meher s/o Samaru		Sudpada		27.08.03
1	Boudh	Ahalya Sahu w/o Chhatia		Nuapada	Boudh	5.9.03
2	do	Himadri Sahu s/o Abhimanyu		Laxmanpur	Boudh	5.9.03
3	do	Talu Bagarti s/o Sunia		Burogora	Boudh	5.9.03
4	do	Gulekha Nag s/o Sitaram		Sarasara	Boudh	2.10.03
1	Cuttack	Rasananda Patra s/o Krutibas		Chahapada	Salipur	26.2.03
2	do	Ram Chandra Swain s/o Rasananda		Bastapada	Kishannagar	16.3.03
3	do	Hrudananda Choudhury s/o Ratha		Bagalpur	Niali	17.6.03
5	do	Gadadhar Mantri s/o Lingaraj		Baunsapat	Banki	18.6.03
6	do	Kishore Prusty		Ganraba	Tangi-Chowdar	21.7.03
7	do	Nrusingh Behera s/o Gajendra		Sankarpur	Tangi	21.7.03
8	do	Chakradhar Dehuri s/o Jai		Jemadeipur	Tangi	21.7.03
9	do	Govinda Ch. Hembram s/o Sriram		Machhapangi	Tangi	29.7.03
10	do	Chand @ Sukanti Chatar d/o Ratnakar		Abhayapur	Tangi	25.8.03
X2 20 1	do	Babaji Khatua s/o Maheswar		Sindhupur	Mahanga	10.9.03
11	do	Suruji Dei w/o Golekha		Tarito	Kishorenagar	24.9.03
12	do	Balaram Samal s/o Bishnu		Tarito	Kishorenagar	24.9.03
13	do	Mithun Samal s/o Panchu		Govindapur	Tangi-Chowdar	1.10.03
14	do	Kulamani Sahani s/o Baishnab		Badakisunpur	Tangi	2.10.03
15		Ratnakar Sahu s/o Bimbadhar		Taleiswar	K.Gola	4.8.03
1	Deogarh do	Renubala Pradhan w/o Pratap		Kadopada	Reamal	22.03.03
2	Dhenkanal	Radha Nayak w/o Muralidhar		Kantakula	Hindol	14.4.03
1	do	Damodar Behera s/o Sunia		Nizigarh	Dhenkanal	30.04.03
2		Seshadev Behera s/o Kumar		Gundurapasi	Gondia	1.11.03
3	do	Bilash Behera w/o Balaram		Gundurapasi	Gondia	1.11.03
4	do	Banita Behera w/o Baruna		Baisinga	Kamakhyanagar	09.07.03
5	do	Janaki Behera w/o Golekha		Baisinga	Kamakhyanagar	09.07.03
6	do	Niranjan Moharana s/o Manmohan		Durgaprasad	Dhenkanal	20.10.03
.7	do do	Nirakar Swain h/o Saudamini		Nua Thakurpal		15.06.0
8	Gajapati	Milakai Shairi ii/o Saasa				
	Ganjam	Kanhu Ch Bisoyi s/o Simanchal		Baisipala	Digapahandi	15.2.03
1	do	Banakula Narayani w/o B.Parsuram		Haldiapadar	Patrapur	23.6.03
2	do	Banakula Lingaraju s/o B.Papeya	and a second	Haldiapadar	do	23.6.03
3	do	Budupu Purusottam s/o B.Areya		Haldiapadar	do	23.6.03
4	do	Narayan Swain s/o Bhaskar	(Declaration)	Jugudibalabhadrapu	r Digapahandi	22.4.03
5	do	Sini Kami s/o S. Raju		Ramachandrapur	Chikiti	13.3.03
6	do	K. Jyochana d/o K. Kora		Mahikapur	Digapahandi	9.8.03
7	do	Subas Jena s/o Juria	pplical commenced	Sunatara	Aska	10.6.0
8	do	Apana Naik s/o Abhi		do	do	10.6.0
9	do	Nisamani Bisoyi w/o Laxman		San Borosingi	do	23.7.0
10	do	Narmada Patra w/o Krushnamurty	***	Sankholi	do	10.8.0
11	do	Khadala Sahu s/o Rajiv		Manitira	Buguda	24.5.0
12 13	do	Prafulla Gouda s/o Choudhuri	***************************************	A.Raghunathpur	Berhampur	30.5.0
13	do	Chandra Das w/o Bidya		Kukudakhandi	do	9.10.0
	uo	A CONTRACTOR OF THE PROPERTY O	- 1	Hugulapata	do	21.10.



::/						Manual Company
16	do	Debaraj Barik s/o Bhaiga			Bhanjanagar	15.6.03
17	do	Madan Jani s/o Sanyasi		Khandisara	do	15.6.03
18	do	Banabasi Jani s/o Khali		do	do	15.6.03
19	do	Golap Moharana w/o Jaya		Bahadapadar	do	19.5.03
20	do	Kama Nayak s/o Mukunda		Gayaganda	do	18.5.03
21	do	Pandi Nayak w/o Gura		Balipata	do	21.6.03
	Jagatsinghpur	Tapas Swain s/o Kalpataru		Kalantira		26.06.03
2	do	Sk. Saratulla s/o Sk. Kefayat	der state of the s	Anjira	Battita	25.05.03
3	do	Bidyadhara Behera s/o Ganeswar	1	Naharana		25.05.03
4	do	Chittaranjan Mohanty s/o Dhrub	1	Balarampur		21.06.03
5	do	Michhu Samal s/o Iswar		Biswali		25.10.03
6	do	Surendra Patra s/o Dharmananda		Kochilabedi		10.08.03
1	Jajpur	Pranakrushna Moharana		Salapada	Darpan	24.09.03
2	do	Sitaram Das	-	Goudasahi	Binjharpur	14.04.03
3	do	Amulya Jena		Saundi	Jajpur	12.08.03
3 4	do	Prasanna Kumar Das s/o Damodar		Malikapur	Jajpur	17.06.03
5	do	Prakrushna Ku. Das	111111111111111111111111111111111111111	Mallikapur	Jajpur	17.6.03
	do	Krushna Ch. Behera		Talakaipada	Bari R.Ch.Pur	24.10.03
6	Jharsuguda	Binodini Kua				25.5.03
1	do	Dillip Oram				21.7.03
2	Kalahandi	Rohit Majhi	55	Borbhata	Bhawanipatana	24.4.03
1	do	Arta Bag	46	Borbhata	Bhawanipatana	24.4.03
2	do	Teja Bag	16	Borbhata	Bhawanipatana	24.4.03
3	do	Nirmal Ch. Patel	25	Chilguda	Junagarh	20.4.03
4	do	Ramnath Suriya		Dakabahali	Kalahandi	18.4.03
5	do	Hemabati Sahoo	11	Kendumundei	Dharmagarh	13.6.03
6	Kandhamal	Nil				
-		Bhimasen Mohanta s/o		Maheswarpur	Champua	20.02.03
1	Keonjhar	Ghanashyam Jena		Girigaon	Hatdihi	27.3.03
2	do do	Padmalochan Das s/o		Jhunabadi	Hatdihi	19.04.03
3	1	Niranjan Patra s/o Jatia		Baunsagarh	Anandpur	31.5.03
4	do do	Biswanth Nayak s/o Bharat		Badadhan Jaypur	Baria	05.6.03
5		Achhuta Patra s/o Sambhu		Baniapanka	Soso	14.6.03
6	do	Mayadhar Sahoo s/o Ananda		Nadua	Ghasipura	25.8.03
7	do	Gouri Mohanta w/o Gobinda		Barbeda	Patna	21.04.03
8	do	Kodanda Behera s/o Sankarsan		Salapada	Ghasipura	25.8.03
9	do			Penthapal	Pattamundai	20.02.0
1	Kendrapara	The state of the s		Penthapal	Pattamundai	20.02.0
2	do	Anjana Mallick d/o Purnananda Bikash Kr. Das s/o Panchanan		Talapada	Pattamundai	17.06.0
3	do	Professional Control of the Control	1	Pentha	Patkura	17.06.0
4	do	Dillip Kr. Das s/o Jadumani		Dasipur	Marsaghai	21.09.0
5	do	Aswini Kumar Das s/o Gangadhar		Cheekoili	Aul	27.8.03
6	do	Santosh Kr. Nayak		Endulapur	Rajkanika	5.9.03
7	do	Kamalakanta Pradhan s/o Mali		Aragal	Najkanika	17.10.0
8	do	Dadhiram Mallick s/o Fakir		Darada	Balipatana	7.6.03
1	4	Sakhi Behera w/o Narayan	55	Prataprudrapur	Balianta	12.6.03
2		Srinivas Jena s/o Pahali	42	G 100 100 100 100 100 100 100 100 100 10	Laxmisagar	26.6.03
3	100	Dinabandhu Bhoi s/o Kumar	40	Laxmisagar Kantabania (Dadha		9.8.03
4	1	Rajata Ku. Behera s/o Babaji		IB voe to A	Bhubaneswar	25.8.0
5	4	Boita Dei w/o Kanduri Sahu	65	Nathpur	The second secon	
6		Tamala Sahu w/o Kabiraj	45	Manasira	Kodala (Ganjam)	26.8.0
7		Sayad Aslam Alli s/o Sd. Ekram	22	Jadupur	Khandgiri	
8	do	Laxman Mallick s/o Sridhar	35	Bayanpada	Balianta	2.10.0
9	do	Ghana Bhoi s/o Jaga	52	Bhapur	Balipatna	
1	0 do	Sovajin Champatiray d/o Radhakanta	18	Gadagopinathprasa	ig mancheswar	



11	do	Seema Pradhan d/o Charan	18	Tartua	Khordha	40 4 03
1	Koraput	Sahadev Harijan		Banasur	Bariguma	19.4.03
2	do	Simachal Mohuria		Banasur	Bariguma	19.4.03
3	do	Kunti Khosla		Kundor	Koraput	17.6.03
1	Malkangiri	Nil				
	Mayurbhanj	Mohan Majhi		Khuntaposi	Thakurmunda	28.3.03
2	do	Purspabvati Das		Khandia	Kuliana	19.4.03
	do	Neena Pramila Dehuri		Gerema	Karanjia	19.4.03
1	do	Golha Dehuri		Dugudha	Sarat	19.4.04
	do	Hiranya Sing		Kharuntia	Morada	21.4.03
	do	Praksash Behera		Palasa	Raruan	26.4.03
7	do	Sunanda Ray		Sanpala	Kuliana	27.4.03
3	do	Sasma Sing		Machhakandana	Kuliana	8.5.03
9	do	Lilimani Kalandi		Tangasole	Badasahi	16.6.03
0	do	Srinibash Thayal		Chauladahani	Suliapada	23.7.03
	do	Sashikanta Singh		Sivajambani	Baripada	22.8.03
11	do	Sumitra Das		Nagasole	Chandua	21.6.03
12		Mangari Mirgan w/o Amarsingh	45	Kerandi	Dabugaon	15.3.03
1	Nawarangpur do	Puspakashi Khura w/o Mambodh	20	Pakhanaguda	Papadahandi	14.4.03
2	do	Thabir Harijan	30	Belgam	Nawarangpur	05.08.03
3		Hari Jani s/o Dullava	13	Rajuchattan	Umerkote	11.6.03
4	do	Sada Muduli w/o Kumi	37	Rajuchattan	Umerkote	11.6.03
5	do	Lata Randhari s/o Angada	50	Bajargada	Kodinga	21.9.03
6	do	Nanda Muduli s/o Trinath	13	Rajuchattan	Umerkote	11.06.03
7	do		+ 13	Kulasar		6.4.03
1	Nayagarh	Champa Bewa w/o Tareswar		Hariharpur	Sarankul	18.4.03
2	do	Bhikari Mallick		Kusumagadia	Daspalla	18.5.03
3	do	Sabita Naik d/o Sabar		Bhatasahi	Nayagarh	24.5.03
4	do	Kalia Behera s/o Balaram		Dwargaon	Daspalla	3.6.03
5	do	Makunda Jena s/o Padmanava		Dwargaon	Daspalla	3.6.03
6	do	Prakash Barad s/o Birabar		Poikadholamara	Khandpara	5.6.03
7	do	Geetanjali Das d/o Pramod		Bhagabatprasad	Odgaon	10.8.03
8	do	Jyostna Alatia d/o Bideshi		Goudaput	Odgaon	8.9.03
9	do	Budhia Patra s/o Mangulu		Nuagaon	Komna	24.4.03
1	Nuapada	Babulal Bag		Rench Sasan	Nimapara	
1	Puri	Mamata Bhoi	1		Gop	10.8.03
2	do	Rajkishore Patra s/o Kelu		Tiruna	Delang	26.8.03
3	do	Prakash Behera s/o Kumar	28	Badbeguniapda		16.9.03
4	do	Radhi Nayak w/o Gobinda	191	Torihanbandha	Balanga	17.06.03
5	do	Sanatan Behera s/o Banchhanidhi	25	Badamathasahi	Pipili	17.06.03
6	do	Haramani Behera w/o Markand	60	Erbank	Gop	30.06.03
7	do	Chakradhar Behera s/o	45	Jamuna	Pipili	10.08.0
8	do	Brahmananda Nayak s/o Nabaghan	35	Balanaga	Nimapara	10.08.0
9	do	Gouri Rout w/o Purna	45	Balanaga	Nimapara	27.08.0
1	o do	Sindhu Jena s/o Baraju		Sahanikira	Brahmagiri	
1		Purna Ch. Mohanty s/o Arabind	40	Tigiria	Pipili	02.10.0
1		Ramachandra Khatei s/o Pravakar	45	Narankantha	Pipili	02.10.0
1		Niranjan Pradhan s/o Bharat	27	Garhkharad	Puri	01.07.0
-	Rayagada	Padmanava Patra s/o Narasingh	32	Pandarajhuli	Gunupur	14.02.03
2	Accessed to the second	Jhanki Sabaruni w/o Lakia	65	Chittiserama	do	14.02.0
3		Pudramani Gangarang s/o Gade	35	Uapauchi	Muniguda	16.03.0
4		Pulendra Gangaranga s/o Gade	4	do	do	16.03.0
1				Badsahir	Jujumara	15.6.0
2	4	Sanjay Yadav s/o Kamaljit	100	Talabhatapara	Sambalpur	2.10.0
	do	Ashok Mirdha/ s/o Gokul		Junadihi	Katarbaga	03.10.0



4	do	Urbashi Punji w/o Harishankar		Sunapali	Sambalpur	03.10.03
5	do	Pramod Raksa s/o Gangadhar		Kundaposi		01.11.03
1	Sonepur	Biswanath Danta s/o Jamadar		Badbahal	Sonepur	25.5.03
2	do	Krushna Ch. Barik s/o Kartik		Telipali	Birmaharajpur	26.6.03
3	do	Meghu Kheti s/o Rajan		Jatesingha	Birmaharajpur	09.7.03
4	do	Umesh Sahoo s/o Pandu		Telipali	Birmaharajpur	26.06.03
1	Sundargarh	Hrushikesh Bhitria	45	Bijadihi	Laphripara	18.6.03
2	do	Dutia Makakud	65	Arkeikela	Lahunipara	03.10.03
3	do	Sabin Jojo	17	Toda	Bonai	05.06.03
4	do	Bhagabati Kumbhar	26	Badmal	Raibaga	17.06.03
5	do	Srimati Kumbhar	13	Badmal	Raibaga	17.06.03
6	do	Lisa Pruseth	11	Kulbira	Lephripada	19.06.03
7	do	Chaita Kishan		Telia	Hemgir	01.07.03
8	do	Kalindra Banchhur	58	Belsara	Lephripara	22.07.03
9	do	Narottam Majhi	25	Aunlapali	Lephripara	22.07.03
10	do	Reena Raxa		Subdega	Talsara	25.07.0
11	do	Christina Dungdung		Dahijira	Kutra	26.08.0
12	do	Parameswar Bainsal		Dhauradha	Bhasma	30.09.03

[Table - 4.1]

### 4.2. HEAT WAVE

Heat stroke is a serious disorder caused by one's exposure to environmental heat and humidity. Heat wave conditions prevailed in 15 districts of the state from April to May. The list of human casualties due to sunstroke for the year 2003 is given below.

	District		No. of persons
1.	Angul	-	6
2.	Bargarh	•	4
3.	Bhadrak		4
4.	Cuttack	-	5
5.	Dhenkanal	-	1
6.	Ganjam	•	2
7.	Jagatsinghpur	-	7
8.	Jajpur	-	13
9.	Kalahandi	-	1
10.	Khordha	-	2
11.	Mayurbhanj	-	1
12.	Nayagarh	-	6
13.	Sambalpur	: <b>-</b> :	7
14.	Sonepur	-	4
15.	Sundargarh	(SE)	4
	Total	=	67

[Table-4.2]

15 districts namely Angul, Bargarh, Bhadrak, Cuttack, Dhenkanal, Ganjam, Jagatsinghpur, Jajpur, Kalahandi, Khordha, Mayurbhanj, Nayagarh, Sambalpur, Sonepur, Sundargarh were severely affected by heat wave.



### 4.3. METEOR FALLING

Date of Occurrence:

27.09.03

Time of Occurrence:

6.35 PM (Kendrapara District)

6.50 PM (Mayurbhanj District)

### **Effects**

### A. Kendrapara District

- A steady fluorescent flash of light followed by reverberating sound was observed for 10 seconds.
- √ No damage to life and property
- ✓ The large pieces of stone (5.7 kg. and 5.2 kg) were found from agricultural field in Suniti GP of Mahakalapada Block.

### B. Mayurbhanj District

- ✓ The meteor fell at village Sudusudia
- The house of Sri Umakanta Naik has been gutted fire and partly affected.
- ✓ Three persons namely Minati Naik, Malati Naik and Sri Harekrushna Behera were injured.
- Each injured person had been paid Rs.500/- from Red Cross.
- Fire relief of Rs.500.00 along with Dhoti & Saree had been provided to family of Sri Umakanta Naik.

### 4.4. FIRE ACCIDENTS

Fire accidents occur mostly during summer when the temperature is on the rise. The people of the State loose their houses and properties due to frequent occurrence of fire accidents. Deaths due to fire accidentsare as follows as reported by collectors.

DEATH DUE TO	FIRE A	ACCIDENTS		28 2824
1. Bhadrak	-	Dulamani Swain	***	07.03.2004
r. Dilacian		B. Rajeswari	-	21.07.2003
2. Koraput	20	Rabi Santa	#	06.06.2003
3. Rayagada	-	Smt. Dambai Himirika	-	03.11.2003
4. Sundargarh	270	Dinabandhu Dungel	-	16.05.2003
i. Juitau gai ii		Ratna Dungel	-	16.05.2003
5. Nayagarh	: <del>-</del>	Urmila Behera	~	20.04.2003
J. Hajagam		Sanjukta Naik	2	20.04.2003
		Banchanidhi Sahoo	-	24.11.2003
6. Nuapada	- 2	Sarojini Mishra	-	10.05.2003

The details of damages and property loss due to such accidents are shown at Table- 4.4



# Loss of Life & Properties due to Fire Accidents and the Amount of Relief given during the year 2003-04

	District	No. of fire accident during	No. of villages affected	No. of No. of villages families affected affected	No. of instit- ution affected		Ap	proxima	te value (Rup	Approximate value of property lost by fire (Rupees in Lakh)	rty lost h)	by fire		Total a given to (Amo	Total amount of Relief ven to affected familio (Amount in Lakhs)	Total amount of Relief given to affected families (Amount in Lakhs)	Tot amou rel give institu	amount of relief given to ginetitutions	amount of col. of relief (Amount given u/s in 140 lakhs)	of col. Amount in lakhs)
	A September 1	the year			L	Individuals	Instit:	State	Bodies	Total (7 to 10)	28	Injuried	No. of Cattle	\$	Forest	Other	榎	Forest	1	
		3	4	5	9	7	8	6	10	-	12	13	4	15	16	17	18	19	20	21
-		)				50 23				59.23				3.79		,		,		3.79
<	Angul	185	185	573		67.40				88.738	,			4.65						4.65
	Balasore	417	395	445		7 777				7.722			•	0.21			•	-		0.21
	Bargarh	727	190	414		100.766				100.766	•			2.96			-			2.96
	Bolangir	59	57	142		6.159	1		1.10	7.259		-								70 6
	Boudh	93	93	706	•	79.932				79.932				8.92	0.15	-		-		5 79
1 .	Cuttack	318	318	821		74.357	,		-	74.357				5.29						0 133
	Deogarh	45	45	45				(*)	3	-		-	•	0.133		-				4.85
	Dhenkanal	156	156	463		45.39	-	,	-	45.39			,	4.85				-		5.64
0	Gajapati	09	09	319		43.878	•			43.878	•	1								9.52
0	Ganjam	369	369	1369	,	124.785	-		0	124.785				7.32						5.19
7	Jajpur	269	269	569		103.227				103.227				0.06	0.01	-				0.07
7	Jharsuguda	7	7	13		1.415	•		-	1.413			ď	5 47	Ŀ			j.	ě	5.42
-	Jagatsinghpur	363	296	371		53.505				53.505			, ,	777.0			3	4		0.277
-	Kalahandi	48	32	54		3.211			,	3.411				2.44				·	1	2.44
	Kandhamal	237	167	280		38.552		•		30.33				3.06			ī	1	3	3.06
_	Kendrapara	273	241	329	1	55.36				55.36				1 86						1.86
-	Keonjhar	214	149	237		18.788			•	18.788			ά	5 37		Dhoti-609				5.37
1.000000	Khordha	251	251	739		371.793		•		371.793	•		0			Saree-262 Polythene -119			1	
1.3		And the second s				,,,				16 836	2			1.08		,	,	•	-	1.08
1.0	Koraput	244	159	248	-	16.836		-		7 704				0.20	•			ě	•	0.20
	Malkangiri	89	77	98	•	7.784				1./04			2	2.18			Ľ			2.18
	inchhani	325	479	917	0	99.69	,	,		99.69	•		7	7.10						



No. of   No. of   No. of   Institute   Approximate value of property villages   families   Institute	No. of No. of No. of villages families institution affected affected ution affected ution affected aff	25 8.58
No. of No. of institutinges families institution  affected affected ution affected a	District fire accident affected affected ution during the year affected affected ution affected the year the year affected affected affected ution affected the year affected affected affected affected ution affected aff	
No. of No. of villages families institutional affected affected ution affected affec	District fire accident affected affected ution during the year affected affected affected ution affected the year the year affected affected affected ution affected the year affected affected affected ution affected affected affected ution affected affected affected affected ution affected affected affected ution affected affected affected ution affected affected affected ution affected affected ution affected affected affected ution affected affected affected ution affected affected ution affected ution affected ution affected affected ution affected affected ution affected ution affected affected ution affected ution affected ution affected ution affected ution affected ution affected affected ution affected ution affected affected affected ution affected affected ution affected ution affected ution affected affected affected affected ution affected affected affected affected affected ution affected affect	
No. of No. of villages families institutional affected af	District fire vear affected affected affected affected affected affected the year the year affected af	8.25 63.83 1.70 84.79 46.60
No. of No. of villages families institutions affected affected ution affected affect	No. of   No. of   No. of   No. of   Institute   Affected   Affec	
No. of No. of villages families institutions affected affected ution affected affect	District fire accident affected affected affected the year the year affected affected affected affected affected the year affected affecte	
No. of No. of No. of villages families instituaifected affected ution affected by the second of the	District No. of No. of A. of No. of Ince accident affected affected affected ution during the year 3 4 5 6 130 - Nawarangpur 91 96 130 - Nayagarh 175 175 894 - Nayagada 70 70 246 - Rayagada 70 70 246 - Rayagada 70 70 246 - Rayagada 65 61 77 - Nawarangpur 65 61 77 - Nawarangp	
No. of No. of No. of villages families institution affected ution affected ution affected 130 - 96 130 - 175 894 - 175 894 - 19 23 - 10 246 - 10 24	District No. of No. of No. of No. of Ire accident affected affected ution during the year affected affected ution affected the year affected affected ution affected the year affected affected ution affected ution affected ution affected affected ution affected affected ution affected affected affected ution affected affected ution affected affected ution of affected ution affected affected ution affected affected ution of affected ution affected affected ution affected affected ution of affected ution affected ution affected ution affected affected ution of affected ution affect	8.25 63.83 1.70 84.79 46.60
No. of No. of villages families affected affecte	District No. of No. of Ano. of Inceeding accident affected affected during the year affected affected during the year affected af	
	District No. of fire accident during the year the year warrangpur 91  Nayagarh 175  Nuapada 19  Puri 294  Rayagada 70  Sambalpur 65	130 894 23 692 246 77
	District No. of fire accident during the year during the year was a sample of the year sample of the year sambalpur of the year of the year sambalpur of the year of the year sambalpur of the year of	96 175 175 19 336 70 61
	2 Nawarangpur Nayagarh Nuapada Puri Rayagada Sambalpur	91 175 19 294 294 70 65

[Table-4.4]



### 4.5. BOAT ACCIDENTS

Due to unprecedented rain and rising water level in major rivers, no. of Boat Accidents occurred during the year 2003-04. More than 40 human lives are lost due to such accidents. Ex-gratia to the bereaved families was paid ot of CRF (Calamity Relief Fund) and CMRF (Chief Minister's Relief Fund). The Table- 4.5 shows the details of boat tragedy.

	Kalahandi	Janaki Naik	25	Dalguda	Drowning in boat accident in Indravati reservoir on 10,04.03
,	do	Brunda Naik	23	do	do
		Nira Dei	27	do	do
3		Kabindra Pallai	36	Barigam	do
5		Sundari Sounata d/o Utara	13	Naranga	Boat capsize on 08.04.03 at Muran Dam reservoir
5	do	Kinda Santa w/o Padia	60	do	do
7	do	Naran Sounta s/o Sabala	20	do	do
8	do	Abhi Goudo s/o Pita	40	do	do
9	do	Kamidi Saunta s/o Mangulu	45	do	do
10	do	Ashi Saunta w/o Kamidi	40	do	do
11	do	Saru Saunta s/o Kandra	45	do	do
-	do	Hako Saunta w/o Taila	35	do	do
12	do	Ichha Saunta w/o Haja	30	do	do
13	do	Naya Saunta s/o Gurunath	45	do	do
14	do	Satyabhan Mahanadia s/o Jayadas	30	Haladisil	do
15		Akhya Kumar Khora s/o Ashananda	30	do	do
16	do	Laxman Jani s/o Mulia	40	Chandeipadar	do
17	do	Haja Santa s/o Kandra	32	do	do
18 19	do Malkangiri	Suku Hantal	45	Banaguru	Drowing of 8 people in Balimela reservior on 07.04.03
20	J _	Tulasa Hantal	35	do	do
20	do	Baidehi Hantal	5	do	do
21	do	Madhu Sisa	35	do	do
22	do	Kalamani Sisa	30	do	do
23	do		4	do	do
24	do	Bhima Sisa	1	do	do
25	do	Surendra Sisa	16	do	do
26 27	Angul	Gurama Khilla Mukesh Pradhan	14	NA NA	Drowning of 4 people in Derjang Reservoir on 25.05.03
		-		(487 - 41 )	due to hail storm
28	do	Abhaya Sahu	30	NA	do
29		Bijay Sahu	28	NA	do
30		Pramod Sahu	45	NA	do
31		Padmalochan Sahoo	1		Boat Capsize on 14.09.03 in River Baitarani
32	Bhadrak	Mantu Mallick s/o Mangata		Adhuanadia	Boat Capsize on 14.03.03 in Bay of Bengal due to Cyclonic Storn
33	do	Sadananda Rout s/o Ashani		Sankrushnapur	do
34		nj Fagu Singh @ Ruhia		Kuchilakhunta	Boat Capsize on 26.10.03 in River Budhabalang
35	Sambalpu	Danardan Sahu s/o Salegram	and the second s	Mandoghat	Boat Capsize on 24.08.03 in River Budhabalang

[Table-4.5]





[ Road communication cut off ]

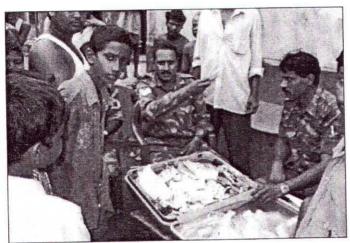


[ Army for rescue operation ]

Chapter-V

Disaster Management Initiatives





[ Healthcare ]



[ Establishing communication ]



### DISASTER MANAGEMENT INITIATIVES IN THE STATE

The following preventive, preparatory and mitigation measures have been taken up:

### 5.1. Construction of School Buildings:

- 254 High School buildings constructed out of CMRF.
- 83 High School buildings Audit out of MPLAD (Lok Sabha).
- 881 Primary & 262 High School buildings out of PMNRF constructed.
- Besides this, 802 high Schools and 487 Primary Schools constructed out of funds provided by MPLAD (Rajva Sabha), NFCR, other State Govts & NGOs.
- Besides, 3254 Primary School buildings to be constructed with DFID assistance.
- Out of this 1205 School buildings are planned for construction during 2003-04.
- These buildings are at different stages of progress.

### 5.2. Construction of Emergency Shelters:

70 multi-purpose cyclone shelters have been constructed and 27 more are under construction under the aegis of OSDMA besides some more by NGOs. Maintenance and management of these buildings is the responsibility of the community.

### 5.3. Strengthening Health Infrastructure:

201 health institutions have been improved with Chief Minister's Relief Fund.

### 5.4. Strengthening Farm-based Livelihoods

- Revival of Lift Irrigation Points:
  - 2555 LI Points have been revived with DFID support.
- Pedal Pumps:

Concrete Pedal Pumps have been installed in agricultural fields of 650 small and marginal farmers of Kujanga and Erasama Blocks of Jagatsinghpur District and Mahakalapada and Rajanagar Blocks of Kendrapara District with FAO Assistance.

### 5.5. Cyclone Reconstruction Activities

- Works Undertaken with WB Assistance:
  - 37 pkgs of road works of Works Dept, 37 pkgs of road works of RD Dept, 44 pkgs of road works of H&UD Dept, 315 pkgs of Irrigation works, 63 pkgs of Rural water Supply, 16 pkgs of Urban Water Supply and 500 Agro Service Centers have been completed.
- Works Undertaken Under CRF:
  - 4-urban roads, 4-irrigation works and 1-road works of Works Dept have been completed.

### 5.6. Strengthening Emergency Communication Network:

VHF network has been established linking District Collectors, BDOs, Tahasildars and some strategic locations under this initiative aimed at strengthening emergency communication systems. VHF base-stations have been installed at 230 locations; work is under progress at 173 more locations. 22 satellite phones have been provided to district administrations. List of VHF base stations & Satellite Phones are shown at Table-5.6



### District-wise list of VHF base stations, mobiles & Satellite Phones

District	No of VHF base stations	No of Handsets	No of vehicle mobiles Collector's car	Satellite phoneID No
Puri	14	- 02	01	762834543
Jagatsinghpur	10	02	01	762834535
Kendrapara	12	02	01	762834567
Jajpur	12	02	01	762834563
Bhadrak	08	02	01	762834559
Balasore	14	02	01	762834555
Ganjam	15	02	01	762834551
Kandhamal	04	02		
Nayagarh	11	02	01	
Boudh	04	02		
Cuttack	15	02	01	762834539
Mayurbhanj	09	02	01	762834587
Deogarh	02	02		
Sambalpur	05	02	•	762834547
Sonepur	06	02		
Jharsuguda	03	02		
Dhenkanal	03	02		
Keonjhar	06	02		
Malkangiri	13	02	01	762834575
Kalahandi	07	02		702031373
Sundargarh	03	02		762834595
Koraput	08	02		762834527
Nawrangpur	06	02		762834583
Baragarh	03	02		702034303
Angul	05	02	01	762834599
Bolangir	07	02	01	702034377
Gajapati	07	02	01	
Nuapada	04	02		762834579
Rayagada	08	02	01	762834613
Khordha	Own VHF	02	01	702034013
OSDMA	01	32	02	762834591
SRC, Cuttack	01	0		702034371
SRC, BBSR	01	03	01	
ODRAF, Cuttack	01	05		
AIR, Cuttack	01	0		
IMD, BBSR	01	0		
Revenue Control Room	01	0		742924524
RDC, CD, Cuttack		. 0	01	762834531
RDC, SD, Berhampur			01	
RDC, ND, Sambalpur	-		01	
TOTAL	231	100	20	

[Table-5.6]



### 5.7. Capacity Building:

- Disaster Risk Management Programme is being implemented under the aegis of the Union Home Ministry and supported by UNDP.
- It covers 145 blocks, 23234 villages, and 3005 GPs in 16 vulnerable districts.
- Under DRM programme, 16 District Disaster Management Committees, 142 Block Disaster Management Committees, 1873 GP Disaster Management Committees and 7222 Village Disaster Management Committees have been constituted.
- Disaster Management Plans have been prepared in 92 Blocks, 714 GPs and 7222 villages. 33290
   Panchayat functionaries have been have been provided orientation in disaster management at Panchayat level.
- 167 district level officers have been trained in Disaster Management at Gopabandhu Academy for Administration and 356 Panchayat Samiti & Zilla Parishad Members have been sensitized at SIRD.
- In addition to this, a series of training programmes at community and other levels are being carried out under SCRP.

### 5.8. Preparedness:

- Three units of Orissa Disaster Rapid Action Force (ODRAF) have been formed out of the State Armed Police at Jharsuguda, Koraput and Cuttack. Two more units are being set up at Chhatrapur and Balasore.
- After taking stock of the equipment required for road clearing, earthmoving and rescue operations available with various Govt. / Public sector / private agencies an assessment of further requirement has been made and quite a few equipment and machineries procured.
- Those equipments are kept at the disposal of the ODRAF, Fire Services and other agencies. The equipment list is shown at Table-5.8.
- A website containing database on resources available with different agencies has been developed under India Disaster Resource Network (IDRN). All the 30 districts have uploaded the information.
- Database on GIS platform is being developed to facilitate disaster management operations.
- 11 District Emergency Control Rooms have been improved. Action has already been taken for strengthening State control room and District Control Rooms of the remaining 19 districts. Construction of Emergency Operation Centers (EOCs) in 16 DRM Programme districts is being taken up with UNDP support.
- Drafts of State Disaster Management Policy, Disaster Management Plan and Disaster Management Bill of the State have been prepared and placed before the Government for approval.
- Sites have been selected at Lakhanpur (Jharsuguda District) and Kolanara (Rayagada District) by IMD to set up Earthquake Observatories. Equipments would be supplied by India Meteorological Department (IMD).

SL. NO.	EQUIPMENTS	QUANTITY
1.	Hydraulic Crane 12 Ton capacity	8
2.	TATA Truck- (Troop Carrier)-6 Ton capacity	10
3.	TATA Truck 12Ton capacity	4
4.	Generator 5 KVA	9
5.	Generator 10 KVA	6
6.	Concrete Cutting equipment	3
7.	Power saw with Portable Power Unit	6
8.	Tree Pruner-cum-Chair saw	8
9.	Water Filter Portable	20



10.	Ramp-2 Ton capacity (fabricated) M.S.	16
11	Telescopic Aluminium Ladder (40 feet long)	20
12.	Life Jacket	100
13.	Life Buoy	100
14.	Chain Power Saw (Still 026 Model)	4
15.	Tractor with trailer	4
16.	Inflatable Tower Lighting system with Generator	6
17.	Branch Cutting Saw (Motor Drive)	3
18.	Branch Cutting Saw	6
19.	Commando Search Light	10,4 Infrared.
20.	Mahindra& Mahindra FJ-460-DP/4WD Ambulance.	1
21.	Life Buoy	10
22.	Life Jacket	10
23.	TATA SFC-407/31, AMBULANCE	3
24.	G.I.Trunk-	2
25.	Wire Ropes & Slings	8sets
27.	Lifting & Pulling Machine	4
28.	Battery Chargers	4
29.	Small Tools & Jack	8 sets
30.	Nylon Rope	600 kg
31.	Hydraulic Tipper	5
32.	Small rescue items like, rope, carabineer etc.	2 sets

[Table-5.8]

### 5.9. Community Initiatives under Social Capital Restoration Programme

- Implementation of Social Capital Restoration Programme (SCRP) through 30 NGOs has been started under the World Bank assisted OWRCP (Part-H), which aims at strengthening community cohesiveness through group based initiatives. SCRP focuses on farm and non-farm based livelihoods, women and PRI empowerment, disaster preparedness, emergency health preparedness and psychological care, micro-credit, work camps for building community assets, etc.
- A broad-based Committee on SCRP has been formed to monitor the process; grievance redressal mechanism has been instituted to maintain transparency.

### 5.10. Information, Education, and Communication

- For awareness generation, OSDMA is publishing two quarterly newsletters:
  - The Response in English and Prastuti O Punarnirman in Oriya
- IEC materials like posters, pamphlets, etc, being prepared and distributed in the vulnerable areas to provide safety tips to the people.



- OSDMA has published a book titled Bipatti, Biparjaya O Suraksha for school children.
- Database on GIS platform is being developed.
- Funds released for construction of Emergency Operation Centers in 16 districts.

### 5.11. Orissa Disaster Preparedness Day and the National Day for Disaster Reduction

- Like every year Orissa Disaster Preparedness Day and National Day for Disaster Reduction was observed on 29.10.03 throughout the State.
- Awards were given for preparation of best Disaster Management Plan at District, Block, GP and Village level.
- Disaster Management Plan of Balasore District was adjudged as the best plan.
- Award for exemplary act of bravery was given in the State level function.

### 5.12. Capacity Building

OSDMA is organizing workshops and training programmes in association with UN agencies, NGOs and State level training institutions for capacity building of the officials at State / District / Block level, Panchayati Raj Institutions and NGOs involved in disaster management. Gopabandhu Academy of Administration (GAA) and the State Institute of Rural Development (SIRD) are organizing trainings on disaster management. The following training programmes and workshops were organized: -

Workshop on Technological disaster was organized by Multi Disciplinary Center on Safety, Health & Environment (MDC on SHE) & OSDMA at Hotel Mayfair on April 28-29' 2003; Training of trainer disaster risk management 29-30, April'03 1st phase, 2-3, May'03 2nd phase, 24-25, May'03 3rd phase at SIRD jointly organized by OSDMA, UNDP & SIRD; A workshop on urban earthquake vulnerability reduction was held on 4th February 2004 in Bhubaneswar.

Training Programme for district and block level trainers in 6 phases
Training on HAM Radio
Training on maintenance of cyclone shelters
Workshop in collaboration with LWS on CBDP
Workshop on Earthquake Mitigation in Orissa
Training of District/ Block/ GP disaster management committees

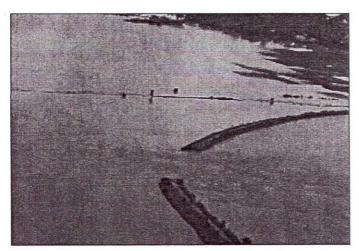


Training of Teachers
Training of NYK/ NSS Volunteers
Orientation of school children
Training of NGO volunteers
Training on operation of VHF sets
Training of Engineers on Earthquake Resistant Design of RCC, Masonry and Framed Structures at the IIT, Kharagpur
571 (199-Women) Block level trainers trained in Psychological first aid in collaboration with American Red Cross in 11 districts
267 NSS volunteers, 100 NYK volunteers, 300 Scout & Guide volunteers have been oriented in Disaster management
2270 Teachers oriented at District & Block level under Disaster Risk Management Programme
3906 volunteers (1265 Women) trained to prepare village Disaster Management Plan.
757 (164-Women) Block level trainers trained in First Aid Techniques through St. John Ambulance in 11 districts
498 (64-Women) Block level trainers trained in Search & Rescue techniques through Civi Defence Organisation in 10 districts

Chapter-VI

Calamity Relief Fund & Utilization Certificate





[ Communication disrupted ]



[ Volunteers carrying relief ]



### 6.1. CALAMITY RELIEF FUND

Relief and mitigation expenditures on account of different calamities are met out of Calamity Relief Fund at the State level. The corpus for this fund is shared by State Government and Government of India at the ratio of 25: 75. The fund is administered by a committee headed by the Chief Secretary of the State as per the norms prescribed by Govt of India.

In the event of occurrence of a Calamity of Rare Severity the Govt. of India sanctions fund out of the NCCF according to the Gravity of the Impact of the Calamity. The GOI had provided Rs. 104.43 crore & 3 lakh MT of food Grain during the year 2003-04 towards Flood relief and mitigation measures.

The Position of Fund both CRF and NCCF is shown at Table-6.1. & Table-6.1A.

### **FUNDS POSITION 2003-04**

Rs. in crore

Category Fund	Opening Balance	Receipt	Unspent & Surrendered of previous year	Total	Release	Balance as on 01.04.2004
CRF	52.35	126.72	109.54	288.61	279.10	9.51
NCCF	7.33	104.43	36.40	148.16	140.87	7.29
TOTAL	59.68	231.15	145.94	436.77	419.97	16.80

[Table-6.1]

### Release of Funds

Rs. in crore

Category	Receipt	Surrender	Total		Release		Balance
Fund		Augmented		District	Depart.	Total	
CRF	126.72	161.89	288.61	50.12	228.98	279.10	9.51
NFCR -99		20.82	20.82	0.25	20.57	20.82	0.00
NCCF-00		1.93	1.93	0.10	0.57	0.67	1.26
NCCF-01		15.54	0.00	0.00	13.57	13.57	1.97
NCCF-02		5.43	5.43	0.00	5.29	5.29	0.14
NCCF-03	104.43	0.00	104.43	33.63	66.89	100.52	3.91
TOTAL	231.15	205.62	436.77	84.09	335.88	419.97	16.80

[Table-6.1A]

### 6.2. CRF & NCCF for Floods 2003

To mitigate the impact of flood and for repair restoration of damaged infrastructures more than 255.00 crores were provided out of CRF and NCCF to different districts and line departments. The details of fund provided item wise is given at Table-6.2, 6.2.1, & 6.2.2.



### Funds Released to Districts Out of NCCF Till 31.03.04

Rs. in lakh

SI. No.	District/ Department	Emergent Relief	НВА	Ex-Gratia	TC	Rescue Measures	Other Items	Total
1	Angul	7.00	14.30	<u> </u>	2.00			23.30
2	Balasore	20.00	147.30	3.00	2.00		0.50	172.80
3	Bargarh	8.00	256.06	1.00	20.00			285.06
4	Bhadrak	100.00	30.00	1.00	5.10		0.50	136.60
5	Bolangir	15.00	188.83	5.50	20.00		0.50	229.83
6	Boudh	8.00	66.00		3.00			77.00
7	Cuttack	50.00	290.00	4.50	60.00	2.00		406.50
8	Deogarh		18.00	0.50	3.00	8 - 1		21.50
9	Gajapati	3.00	56.72	1.50	1.00			62.22
10	Ganjam	28.00	152.80	7.00	4.00		0.50	192.30
11	Jagatsinghpur	39.00	28.00	1.00	55.00			123.00
12	Jajpur	10.00	8.00	1.00	20.00			39.00
13	Jharsuguda	8.00	4.00		3.00			15.00
14	Kalahandi	8.00	113.00		25.00	1.00		147.00
15	Kandhamal		33.00	2.50	10.00			45.50
16	Kendrapara	41.00	250.00	7.00	60.00	1.00		359.00
17	Keonjhar		711	0.50				0.50
18	Khordha	15.00	48.75	1.50	25.00			90.25
19	Koraput	2.00	20.00	1.00	3.00		107.25	133.25
20	Malkangiri	3.00						3.00
21	Mayurbhanj	9.00	15.00	0.50	0.15		0.50	25.15
22	Nawarangpur	3.00	0.30	0.10	3.00			6.40
23	Nayagarh	8.00	15.00	2.00	5.00		0.30	30.30
24	Nuapada		5.60	0.50	3.00			9.10
25	Puri	45.00	228.00	6.00	55.00	0	0.50	334.50
26	Rayagada	5.00	81.44	1.50	5.00			92.94
27	Sambalpur	7.00	29.00	0.50	5.00			41.50
28	Sonepur	7.00	222.60		25.00			255.10
29		5.00			to to			5.00
23	Total	454.00	2321.70	50.10	422.25	4.00	110.55	3362.60

[Table-6.2]



Rs. in lakh

### Funds Released to Departments Out of NCCF Till 31.03.04

	3362.60	Districts G.Total							5644.5	80.08	00.262	2.00	310.00	36.26	1000.00	
6688.72	500.00	203.94	35.71	20.00	150.00	532.20	200.00	1921.00	1344.53	80.08	295.00	2.00	310.00	36.26	1000.00	
c0.11			5.05	00.9		12.000.00										É
11 05			-						194.53	1,000				The second secon		Panchayati Raj
194.53										A STATE OF THE PARTY OF THE PAR						
0.35			0.35						distribution of the second							1
1.49			1.49		W. 117											
150.37		de la companya de la	26.57			100.00	The state of the s									
176 57										Oceanies of the second		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO PE				School & Mass
200.00		200.00						4		000000000000000000000000000000000000000						
150.00					150.00					Andreas Control of the Control of th						
1000.00															1000.00	
0.40			0.40										90		An an agree	
982.20			The second second second			432.20	The second section of the section of		550.00							
2121.00						Trych office and the second	200.002	1921.00								
900.00									00.009							4
00.000				2.00		2				33.00	295.00					
0.00		3.74	1.84					200				2.00				
10.78				40.00						47.08		The second secon	310.00			200,000
307 08				7.00										36.26		
38.26				2 00									***************************************		111111111111111111111111111111111111111	
525.00	500.00		25.00									אפארמה		Dodes		
	Subsidy	Buildings	Other	υ υ υ	SNP	Drinking Water Supply	Rest. of LIPs.	Flood Re Embank of ments LIF	Roads	Vaccine & Medicine	Cattle Feed	Relief % Rescue	Hiring Medicines of Boats	Hiring of Boats	Food Materials	Department

[Table-6.2.1]



Funds Released out of CRF Districts & Departments

Ex-Gratia		HBA Ex-Grat
Measures	Measure	Measure
0.10	0.10	0.10
	7.4	0.674
6.50	6.50	6.50
1.00	1.00	1,00
0.50	0.50	0.50
0.70	0.70	0.70
2.00	2.00	2.00
		Andreas and the second
2.30 2.00 6.50	2.30 2.00	2.00
		AND
ARMARIPHANDARI PRINCIPALI PARA PARA PARA PARA PARA PARA PARA PAR		
00.0		

[Table-6.2.2]



### 6.3. UTILIZATION CERTIFICATE

An amount of Rs.1632.54 crore has been received from 1999-00 to 2003-04 under CRF & NFCR/NCCF. Out of which Utilization Certificate to the tune of Rs.1110.08 crore has already been furnished to AG Orissa till 31.03.04. The Table-6.3 below shows the details.

### SUBMISSION OF UTILIZATION CERTIFICATE

Rs. in crore

Fund	Receipt (1999-00 to 2003-04)	UC Submitted (1999-00 to 2003-04)	Percentage
CRF	528.50	253.04	48%
NCCF	1104.04	857.04	78%
TOTAL	1632.54	1110.08	68%

[Table-6.3]

The submission of UCs in respect of allotments provided to different districts and departments from 1999-00 to 2002-03 till 31.03.04 is shown at Table-6.3A below.

### YFAR-WISE SUBMISSION OF UCS

Rs. in lakh

Agency	1999-00		2000-01		2001-02		2002-03	J
	Allotment	UC Sent						
Districts	29874.77	29071.51	9275.97	7763.39	4710.23	3515.17	6824.15	3827.92
Departments	19215.70	15052.31	22943.07	22052.07	21958.23	20592.74	13911.75	9134.24
TOTAL	49090.47	44123.82	32219.04	29815.46	26668.46	24107.91	20735.9	12962.16

[Table-6.3A]

### 6.4. CONCLUSION

Orissa experienced a major natural calamity in the form of floods during the year 2003. As many as 93 human lives were lost, 2956 animals perished and about 2 lakh residential houses were fully or partially damaged. Besides, a number of people succumbed to lightings, heat wave, fire accidents and boat tragedies. Relief and rehabilitation measures were taken to address the immediate needs of the affected people. Besides, long-term mitigation and preparedness initiativies were taken to create durable infrastructure and build a disaster-resilient community.



Annexure-I

# No. of Villages having Crop loss of 50% and above during 2003-2004 (Kharif)

Reason of	Crop loss			(19)	Due to High flood / Heavy Rain	-op-	-op-	-op-	-op-	-op-	-op-	-op-	-op-	
- -	0.01			(18)	45	810/7	203/4	241	192	352/5	727/14	43	562/1	3175/31
		oove	Ward	(17)	r		1:			•	•		-	-
above	pa	75% & above	Village	(16)		134	21	10	27	14	18	•	154	378
50% and	Irrigated	74%	Ward	(15)	i i		4				31. <b>4</b> 00	1		4
No. of villages sustained crop loss of 50% and above		50% to 74%	Village	(14)		89	151	04	90	05	80	-	26	290
ained cro		pove	Ward	(13)	•	7			5(*6	2		1	•	12
ages sust	jated	75% & above	Village	(12)	12	267	4	163	95	253	16	27	260	1107
Vo. of vill	Non-Irrigated	74%	Ward	(E)	0			,			14			14
_		50% to 74%	Village	(10)	33	320	17	64	64	80	685	15	122-	1400
No. of	in the District			(6)	1356	1977	2762	1789	1314	1582	1672	1701	1710	15863
No. of GPs	2			(8)	16	166	74	62	44	63	101	4	115	675
No. of	_			(2)	193	342	475	280	194	230	168	179	230	2291
ocks/ sing	-	ULBs		(9)	(III)	-	2	•	•	(9777)	2	ı	-	7
No. of Blocks / ULBs containing affected villages / wards		Blocks		(5)	-	14	12	r <sub>2</sub>	2	7	10	+	10	65
		ULBs		(4)	2	4	18	2	2	2	22	2	4	41
No. of Blocks / ULBs in the District		Blocks		(3)	7	14	22	10	00	o	10	80	F	66
	Name of the District		8	(2)	Bhadrak	Cuttack	Ganjam	Jajpur	Jagatsinghpur	Kendrapara	Khordha	Nayagarh	Puri	Total
	S. So.			E	-	0	i ei	4.	5.	9	7.	œ.	6	

FLOOD DAMAGED STATISTICS
STATEMENT NO.-2
Area affected Due Floods & Heavy Rain

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at year or the state of the sta	ni, Singida,		Pi		e		Rana		-		nitratpalla	budha &				æ		, Rana etc.									jore etc.	(30)
Name of rivers nallahs streams etc. which caused damage	Mahanadi, Tikira, Aunil, Kumbhira, Gauduni, Luhurani, Singida, Jayagarh MIP	Subarnarekha, Budhabalanga & Jalaka	Ong river, Kumudi Nala back water & Hirakud		Tel, Suktel, Ong, Similimunda nala, N. Jore	Mahanadi, Tel, Baghsalnki, Khadang	Mahanadi, Sapua, Kathajodi, Birupa, Kantia, F		Bansadhara, Mahendratanaya, Harabhangi	Rusikulya, Ghadaka, Bagi, Bahuda etc.	Mahanadi, Devi, Alka, Paika, Gobari, Hansua & Chitratpalla	Birupa, Genguti, Kelua, Brahmani, Baitarini, Kanibudha & Kharasrota	Hirakud back water	Tel, Hati, Otec & Indravati	Due to heavy rain	Luna, Birupa, Paika, Chitrotpalla & Karandia		Salia, Kusabhadra, Daya, Kuakhai, Matuguni, Rajua, Rana etc			Jonk, Sunder etc.	Indravati			Bansadhara, Nagabali, Birsa NALA etc.	Mahanadi, Dhobi jore Harajore etc.	Mahanadi, Suktel, Ong, Jira, Choukijore, Hariharjore etc.	
Total area affected by flood in the affected Rura areas		2971			535		42 wards						775 AC					42382								18	136	
Total area affected by flood in the affected urban areas		106125			34 wards	7 wards	729			7473.18											1 ward	1348		80580	48.31	870	16	
Total area affected Rural areas		1340	23055 AC	210244	34 wards	73	42 wards			245682.4								33456			33				2536.51			
		80	3 wards & 160 AC	5920	34 wards	7 wards	913222			7473.18		47551				91660					-		29050	846	48.31		16 wards	
Total population affected by flood in Rural areas	122	609946	15261	1088645	460000		877367	327	59	1437074		429	1600					262258			33		180	842	28375	21	ю	4793615
Total population affected by flood in urban areas	1220	57050	1017	48213	26000	31678	35855		516	92989	194184	440719			14842	616632	370490	37061	8681	3900		18158	00059	700335	400	1285	64350	2830575
No. of Wards Affected	14	80	-		34	7	16		29	12	251					22		53			-			11	2		16	525
No. of Villages Affected	490	1340	Ξ	1087	535	73	849	327	1528	2786	251	429	9		630	585	436	612	22	15	33	16	180	842	750	21	136	14090
Vo. of GPs.	103	289	243	193	285	23	217	21	129	475	73	115	3	231	125	120	89	114	o	9	12	80	179	230	80	148	96	3600
40. of villages/wards	490/14	2971	1177	1356	1761/63	73/7	865/11	327	1528/29	2786/12	251	429		1143	630	585/22	436/16	612/57					1701	1710	750	1325/5	959	13404
do. of urban areas	1 2	4	· m	2	4	-	4		2	18		-		22	2	2	-	O.	4		-		2	-	2	2	ო	74
io. of blocks	V ~	12	12	7	14	8	14	3	7	22	7	10	-	63	12	တ	m	9	14	2	8	4	8	7	7	თ	9	230
enoisivib-due to .ol	N 4	0	1 2	-	8	-	8	-		2		-			2	-	-	2	2	-	-	-	-	-	2	8	2	45
fame of the District	Angul	Ralaeore	Bargarh	Bhadrak	Bolanoir	Boudh	Cuttack	Deogarh	Gajapati	Ganjam	Jagatsinghour	Jajpur	.lharsuouda	Kalahandi	Kandhamal	Kendrapara	Keonjhar	Khordha	Koraput	Mayurbhani	Nuapara	Nawarangpur	Navagarh	Puri	Rayagada	Sambalpur	Sonepur	Total
i. No.	s -	0	v 60	4	rc.	9	7	. &	6	9	=	12	5	2 4	12	16	17	8	19	20	21	22	23	24	25	26	27	

## FLOOD DAMAGED STATISTICS STATEMENT NO.-3 Private House Damage

	Value of loss (Rupees in Lakh)	70.31	4000.00	102.95	65.94	180.59	296.12	32.40	78.55	13.38	371.13	308.55	19.65	21.83	59.79	52.92	70.35	1.06	0.00	23.38	0.01	6.56	24.90	16.00	0.00	127.69	10.26	356.78	6311 10
	Total Cols. 9,10 & 11	3773	15797	6441	7446	20039	4786	3306	1532	516	3237	12420	14518	143	5728	4718	7744	107	5268	2356	4	155	223	921	29471	6723	273	27838	185483
HOUSE DAMAGE	No. of houses damaged other than those in cols 9,10 &11					15275				471	19691	0		91						1621		353		839			137	14984	53462
¥	No. of houses partly collapsed	3715	13068	3893	5916	3838	4722	2511	1456	42	2865	12339	14187	33	4204	4643	7649	106	5247	989	4	116	197	82	27564	6722	81	10783	136573
	No. of houses completely collapsed	54	2469	3201	1400	926	64	749	92	ဗ	372	81	331	19	1524	75	. 96	-	21	145		39	26		1897	-	55	1321	14945
	Number of houses washed away	4	260		130			46																	10			0	450
	səgsiliV	294	2971	1177	1087	1761	73	449	327	1235	2777	251	429	9		630	173		612	876	-	33	16	1701	842	750	1325	959	20755
	No. of Wards	5	80	39	49	63	7	42		59	112	0	16		39		2	16	2			-		26	-	2	-	38	573
	No. of GPs.	103	289	248	177	285	23	145	21	129	475	73	115	က	231	125	49	0	114	198	-	12	8	179	155	80	148	96	3482
	Urban areas	2	4	3	2	4	-	4		2	18	0	-		3			1		4		1		2	-	2	5	3	63
II	No. of blocks	7	12	12	7.	14	က	14	က	7	22	7	10	-	13	12	S		10	14	-	3	4	8	=	7	6	9	222
	anoiaivib-dua to .oM	4	5	2	•	က	•	က	-	-	က	-	-	-	2	2	-	-	2	2	-	-	-	-	•	2	3	2	46
	Usine of the District	Angul	Balasore	Bargarh	Bhadrak	Balangir	Boudh	Cuttack	Deogarh	Gajapati	Ganjam	Jagatsinghpur	Jajpur	Jharsuguda	Kalahandi	Kandhamal	Kendrapara	Keonjhar	Khordha	Koraput	Mayurbhanj	Nuapara	Nawarangpur	Nayagarh	Puri	Rayagada	Sambalpur	Sonepur	Total
	ON IS	-	2	က	4	2	9	7	80	O	10	F	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	





### FLOOD DAMAGE STATISTICS STATEMENT No.4 Crop Damage

Remarks	(17)				•				. 1						7.0			į.		
Cost for eradication of pest affact	(16)	•	3. <b>4</b> 9.	*		360000	000000	482900	930700	ě	242500	1		r	•	Ē	980280			
Damage after flood in acres	(15)		ĸ		1363	11017		971.20	71236.6	2470	10001			59473	٠	Ē	1643.38	1.		
səədnı ul	(14)	0009869		104858480	284000000	100000	0025001	21538140	481325000	347000	000000000	292922000		200065400	14003000	Ē		0007880	000	256026183
elstriup ni bleiy to esol betsmite∃	(13)	10205	*	185840	525925	100001	183834	406338	273645		070717	143 1040		438430	267423	Ē		1001	000	439740
Damage between 50% and 75% in acres	(12)	116	₹9•02	3405	26592	1 1000	9307	1154.60	22645.2	30	2 70 1	/0193		10335	0699	ž		C	080	30386
Damage over 75% of normal yield in acres	(11)	1167		19344	12402		2610	1902	37309.4	70	2	4/665		37810	15065	ž			308	25572
8.loJ fo fue begged out of Col.8	(10)	1338			28004	1	8408	1644.80	75229.6			193055	7705		٠	775	2			55958
Areas sand cast out of Col.8	(6)	370.11		16220		•	2090.9		362.4	00	3	3023.09	U.•A	3033			•	•	730	2851
Cultivated areas affected by flood in acreas Urban areas/ blocks	(8)	1338	265313	23130	100001	103817	36279	7282	75454.6			321838	7705	89507	47551	1	6//		1292	55958
Total cultivated area in acres urban areas / block	(£)	84152	640817 S	800079	01000	1/5061	345560	85500	137054 25	10000	66/99	1015000	31820	264250	145450	200	65275		139347	76149
Population affected	(9)	27462	}		10.133	1136858	1230938	8198	013000	310555	72897	639498	82396	237480			1600	1334372	125600	611632
segalliv io .oV	(2)	7.5	1 00	1/67	7.11	1087	1761	171	0000	74/000	327	2021	1235	476	000	675	9	43	630	585
No. of blocks / urban areas	(4)		2	12/4	12/3	7/2	14/4	3/1		14/4	က	22/18	7/2	7		01	-	13/3	9	6/6
anoisivibdue to .oM	(%)	2 0	7	2	2	-	က		- 0	77	-	က			- [	-	-	2	2	
Name of the district	(0)	(5)	Angul	Balasore	Bargarh	Bhadrak	Rolandir	6 40.00	Doddii	Cuttack	Deogarh	Ganjam	Gaianati	logotoiotoini	Jagarsingripui	Jajpur	Jharsuguda	Kalahandi	Kandhamal	Vondronors
ON IS	ź	Ξ,		2.	<sub>(</sub>	4.		; (			ω.	6	ç	<u>.</u>	Ė	12.	13.	14.	7	5 4



*				e e					e e		
	12050000						2228550			•	20517630
*	12086				ñ.		68164		2220	4	430162.18
*	33315000			5915563	84996000	562980	447500000			4	2538343146
	٠			11161.44	27661	938.30	1003274		*	1407.5	5233131
5965	2374				1040	0	15113		¥	7851	207621.8
	554				5161	0	53051		2	8392	268976.4
1540	4000			1348	11769	0	80580		1653	35000	518997.4
•	554				343	183.47			200	800	31160.97
1540	40307			1348	291050	703.98	80580	922.61	1653	35000	1490353
11280	125582				136841	276075	128282	1429.26	1653	128328	4953729
370490	175815			18158	45000	6715	700335	42286	32989	64350	7893490
75	612			16	1701	33	842	1009	1325/73	959	19469/115
3/1	10/5			4	8/2	3/1	17	=	9/2	6/3	208/61
-	2			-	-	-	-	2	က	2	41
Keonjhar	Khordha	Koraput	Mayurbhanj	Nawarangpur	Nayagarh	Nuapada	Puri	Rayagada	Sambalpur	Sonepur	TOTAL
7.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	



### FLOOD DAMAGE STATISTICS STATEMENT No.5 Casualties

Annexure-V (Area in Hect.)		Remarks	(17)		E.	15.	190	280							ĸ					,
Annexure-V (Area in Hect.	stock lost	əvil to əulav latoT zəəqun ni	(16)	51000		842000	63800	201000	34000	246000			408000	•	3000	8000	Ē	•	٠	1
		lstoT	(15)	13	٠	1146	44	109	22	95			401	56	9	2	٠			
	lost	lwo∃	(14)		٠	725		0		0	•			0	0			٠	•	,
	No. of livestock lost	sgiq	(13)		•	113		61	٠	0			-	0	0					
	Ž	Cows, Bullocks, Calves etc.	(12)	13		87	13	10	Ξ	49	•	•	200	25	0	2	쿨			
		Goats & Sheep	(11)			221	31	40	=	46			200	31	9		Ē			
	g	lstoT	(10)	٠	9	2	-	o		o	-	14	3	2	2		Ē	S	14	•
Casualties	ın beings die	Children	(6)		1			-		-	•	•		-	•		₹	-		
రొ	Number of human beings died	Momen	(8)			•	٠	က	•		-	-		0	0		₹	. 2	2	
	n <u>N</u>	Men	(7)		9	2		2	r.	7	•	13	ဇ	-	2		≅	2	12	39
	Sə	No. of villag	(9)	2	2971	1177	1077	1792	73	865	774	=	1235	251	2	9	₹	4	5	
	snoite	No. of police sta	(5)	4	19	14	12	13	9	19	4	က	တ	7	-	-	₹	က	٠	1
	S	No. of block	(4)	က	12	12	7	14	3	14	3	7	7	7	-	-	Z	က	6	
	suoi	eivibdue to .oM	(3)	8	2	2	-	က		ო	-	က		-		-	Ē	-	-	
	tointa	Name of the d	(2)	Angul	Balasore	Bargarh	Bhadrak	Bolangir	Boudh	Cuttack	Deogarh	Ganjam	Gajapati	Jagatsinghpur	Jajpur	Jharsuguda	Kalahandi	Kandhamal	Kendrapara	
		.oN.IS	(1)	<b>-</b> :	2.	s,	4.	5.	6.	7.	8.	6	10.	÷.	12.	13.	14.	15.	16.	-



Koraput         2         3         5         3         -         1         -         -         17         13000           Mayurbhanj         1         -																
ur     1     8     9     1701     1     0     0     1     0     0     0     0     0       1     3     4     33     11     10     2     .     12     3     6     .     9       1     11     1     1     1     1     0     0     0     0     0     0       1     11     3     11     10     2     .     12     3     6     .     .     9       1     1     1     1     .     3     3     .     67     .     .     9       2     6     7     959     1     0     .     1     .     4     .     .     4       39     161     163     12     7     959     1     0     .	hordha	2	က	က	2	က	· ·	ě	က	16			,	17	13000	
ur     1     8     9     1701     1     2     .	Koraput	2	14		2										2000	
1     8     9     1701     1     2     .	Mayurbhanj					-			,							
1         8         9         1701         1         0	Nawarangpur															
1     3     4     33     1     0     0     1     0 </td <td>Jayagarh</td> <td>*</td> <td>80</td> <td>6</td> <td>1701</td> <td>+</td> <td></td> <td>-</td> <td>2</td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Jayagarh	*	80	6	1701	+		-	2	,						
1     11     3     11     10     2     .     12     3     6     .     .     9       1     1     1     1     .     .     3     .     67     .     .     67       3     9     16     1325     .     .     1     1     .     3     .     .     67       2     6     7     959     1     0     .     1     .     4     .     .     4       39     161     163     14734     72     12     9     93     605     491     175     725     1994	Juapada	-	က	4	33	-	0	0	-	0	0	0	0	o		
1     1     1     1     1     1     1     1     67 <td>Puri</td> <td><del>, -</del></td> <td>Ξ</td> <td>ဇ</td> <td>=</td> <td>10</td> <td>2</td> <td></td> <td>12</td> <td>က</td> <td>9</td> <td></td> <td></td> <td>o</td> <td>15750</td> <td></td>	Puri	<del>, -</del>	Ξ	ဇ	=	10	2		12	က	9			o	15750	
3     9     16     1325     -     -     1     1     -     3     -     -     3       2     6     7     959     1     0     -     1     -     4     -     -     4       39     161     163     14734     72     12     9     93     605     491     175     725     1994	layagada	-		-	-			က	က		29			67	150000	
2 6 7 959 1 0 . 1 . 4 4 39 161 163 14734 72 12 9 93 605 491 175 725 1994	ambalpur	က	6	16	1325	,		-	Ve	8	က	î		; m	3000	
39 161 163 14734 72 12 9 93 605 491 175 725 1994	onepur	2	9	7	959	-	0	1347	-		4	×		2 4		ŀ
	OTAL	39	161	163	14734	72	12	6	93	909	491	175	725	1994	2038550	

Annexure-VI



FLOOD DAMAGE STATISTICS STATEMENT No.6 List of Urban Areas, Grama Panchayats affected by flood

(4) (4) 103 44 103 44 113 113 114 114 114 115 115 115 115 115 115 115			No of Blocke affected	No. of GPs affected	No. of Village Affected	
Angul (2) (3) (47 44  Balasare (228 112  Bargarh (2 228 117  Bhadrak (2 23 23 23  Bouth (14 217 65  Bouth (14 217 65  Curtack (2 2 475  Capiarati (2 2 475  Capiarati (2 2 475  Capiarati (2 2 2 475  Capiarati (2 2 68  Kendrapara (2 2 68  Kendrapara (3 68  Kendrapara (3 68  Kendrapara (4 8)  Nawarangour (4 37)  Nawarangour (4 37)  Nayagarh (3 11 115  Puri (1 11 115  Sambalour (6 47)  Capiarati (1 11 115  Capiarati (1		ame of the district	NO. OI DIOCKS ALLCOCK	(4)	(5)	(9)
Angul         7         103           Balasare         12         228         13           Balasare         5         45         11           Balagath         7         177         10           Bouth         3         23         23           Bouth         14         217         8           Cutlack         3         21         8           Canjam         7         475         2           Ganjam         7         73         6           Jajpur         7         73         7           Jajpur         1         3         68           Kendrahami         9         120         68           Kondharr         1         114         8           Konghar         2         9         68           Konghar         4         8         8           Navarangpur         4         37         7           Navarangpur         4         37         7           Navarangpur         4         9         9           Sonneur         6         47         77           Sonneur         6         47         77		(2)	(3)	(t)	306	5
12 228 15 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			7	103	000	
F	2000		. 12	228	1340	<b>4</b>
T 177 110  T 147 55  T 147 65  T 147 67  T 147	Dalasol	D	5	45	111	
9 147 5 5 9 147 5 5 9 147 5 5 9 147 5 147	Bargarr		2	177	1087	2
3 23 83 83 8475 22 475	Bhadra			147	535	2
and and an another and another and another another and another and another ano	Bolang		D C	23	73	-
14   12   126   17   126	Boudh		2 7	217	865	42
hpur 7 7 73 126 11 13	Cuttack	**************************************	<b>t</b> . ~	21	327	9
Aghour 7 7 7 7 7 3 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Deoga	÷	2 6	475	2786	33
htpur 7 7 73  htpur 10 115  lida 11 3  lida 12 126  ara 9 68  r 10 114  lid 114  ht 4 8  ht 37  ht 3 15  da 7 7 79  pur 6 4 47	Ganjar	n	£ 77	126	1237	2
115 115 116 117 118 119 119 119 119 119 119 119 119 119	Gajaps	ıtı		7.3	251	0
1 3 1 1 3 1 126 1 120 1 1 14 1 1 14 1 1 15 1 1 1 15 1 1 1 15 1 1 1 15 1 1 1 1 15	Jagats	inghpur	7	2 7	429	16
11 126  3 68  3 68  10 114  10 114  11 18  11 155  11 155	Jajpur		10	2 .	œ	Ē
12 126 3 3 68 3 144 10 114 11 114 11 115 11 115 11 155 11 1 155	Jharsu	nguda		\$	•	
126 3 68 3 68 10 114 11 4 8 9 8 9 8 9 7 7 79 1 4 9	Kalah	andi	*	E	630	
a 9 120  3 68  10 114  inj  inj  4 8  8  ppur  4 37  12  11  11  155  ur  6 4 77	Kandh	amal	12	126		00
3 68  mij 2 9  spur 4 8  ny 37  1 3 12  a 7 79  ur 6 6	Kendr	apara	6	120	585	77
nj 7 7 77	Keoni	har	3	89	441	- u
ani 4 8 gpur 4 8 n n 3 12 t 11 155 la 7 79 our 6 6 47	Khord		10	114	612	9
anj 4 8 gpur 4 37 n 3 12 a 11 155 la 7 7 9 our 6 6 47	Korap	out	, 2	6	22	4
11 155 79 79 779 779 779 779 779 779 779 779	Mayu	rbhanj			V.	4
4 37 3 12 11 155 7 7 79 6 4 47	Nawa	ırangpur	4	ω	80 %	
12 12 155 117 155 79 79 9 77 79 9	Neve	garh	4	37	081	
11 156 7 7 79 11 4 9	Naya	gain.	3	12	33	
gada 7 79 Dalpur 6 4 9	Nuar	ana	•	155	842	-
r 4 9 9 6 47	Puri		7	79	750	2
6 47	Raya	ıgada		σ	21	2
0	Sam	_	4 (	47	136	8
100 2537	Sone	əpur	100	2537	13813	146



# FLOOD-2003 Statement-7 Damage to Public Utilities

Annexure-VII

Amount of		8	3378.	4712.47		4538.37	4499.02	1575.67	21867.71	1408.37	8562.13		13333.185	5934.22	2924.93	75.47	1127.94	12090.00		8861.62	2661.14	
10 A	Damaged	(16)	1307	2936		9929	4668	1405	29334	1028	7404		2753	2418	4193	844	2170	789		24247	1116	
	W &	(18)	٠			*	٠			125												
	SC/ ST	(17)	17						٠	28			က									
	Fisherie s	(16)	ě			٠	14	v	393	11			×									
	Co- opera- tion	(15)	10			ij.		•	٠	2			23						,			
	F & ARD	(14)	ŭ			43	936	က	10	*			18									
	Energy	(13)				*	8	8	24278	3			9									
, , , , , , , , , , , , , , , , , , ,	8	(12)	891	166		1347	2349	751	2243	617	8	257.10	2231	744	434	844	266	100		9.6	999	
	H & FW	(11)	×	-65		V:		¥	16		Ξ		40				e			200	-	
	Forest	(10)				ï					52			ě			٠			37		
	Revenue	(6)			,	٠	*5			(2)					2			78		į.	197	
)	Agri	(8)	-	34		×	99	1 16		27			20	16			104			8		
	School & M.E.	(2)				,	193	61	20	114	a		124	268			٠	358				
	H & UD	(9)	2	388		309	က	212	227			14.00	9	569	3619			200		1444	14	
	WR	(2)	149	547		839	378	363	1589	38	3643	154.44	984	652	23		130	41		4626		
	8	(4)	203		•	3609	184	151	1929	25	1797		1086	105	118		27	160		218		
	Works	(3)	19	976		162	439	55	989	88	1901	1092.15	91	38	7	0	912	62		3938	258	
Name of the	district	(2)	Angul	Balasore	Bargarh	Bhadrak	Bolangir	Boudh	Cuttack	Deogarh	Ganjam	Gajapati	Jagatsinghpur	Jajpur	Jharsuguda	Kalahandi	Kandhamal	Kendrapara	Keonjhar	Khordha	Koraput	
5	2	Ξ		2.	6	4.	'n	9	7.	80	9.	10.	Ξ	12.	13.	14.	15.	16.	17.	18.	19.	



311.72	516.25	23.70			2000	٠	3900	ř	
	26.5	1.76	٠	•	•	٠	5879	0.29	
	1.00	0.13	1.0	•	W.		4219.	*	
	1.00	0.10	•	•			120	0.02	
	18051.09	654.90		ï			647595		
	0.15		•	•		•	387	0.002	
	107.00	40.40				·	5019		Dal-47.00
	84.7	16.90		#11 (***********************************	•	٠	72147	249.75	Dal-135.18, Kerosene Oil & Vegetable
	39494.77	3040.89					4095284	3256 682	5



### FLOOD-2003 Statement-8 Distribution of Emergent Relief

Annexure-VIII

SI.	Name of the district	Rice in Quintals	Chuda in Quintals	Gur in Quintals	Dhoti	Saree	Garment	Polythene	No. of beneficiaries	Expenditure (Rs. in lakh)	Other Materials
Ξ	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)
	Angul	422.80	8.15	1.30				5 nos.	34285	٠	
2	Balasore	3805.11	2160.17	292.07		٠		•	425122	2652	
	Bargarh	32.5	70.5	25	•		٠	*	16278	1.86	
	Bhadrak	10886.58	150.00	4.50		٠			1115918	ě	
	Bolangir	34979.25	7392.75	756.55					26484		
	Boudh	629.0	112.0	12.9					16240	ě	
	Cuttack	16472.0	3764.0	209.8	٠			•	583397	181.21	
	Deogarh	•							Nes.	٠	
ص ص	Ganjam	2824.7	321.6	142.5	(F)			(10)	11487		
10.	Gajapati			r					). <b>4</b>		
÷	Jagatsinghpur	6298.72	2057.06	149.17	ŧ	200	•)	•	175438	THE PERSON NAMED IN	
5.	Jajpur	8574.9	905.48	82.78	•	2.07	2		440719		
<u>6</u>	Jharsuguda	50.20	3.35	1.67	٠	<b>■</b> ();	ö		3700	0.99	Dal-8.58 Q. Vegitable-40,000
4.	Kalahandi	306.46	160.0	10.26		•	<b>.</b>	11 20	8456		remain and the second
5.	Kandhamal	271.14			٠	•	(4)	S*	0606	170	
16.	Kendrapara	14862.7	2959.08	540.25	•				395720	*	
17.	Keonjhar		•	•					4	٠	
18	Khordha	4362.0	622.57	72.32	٠			•	93151	Ŷ	Dal-63.5 , Potato-1.50
19.	Koraput	19.57	20.37	1.93	•	•7	•		533	0.56	



Puri       783       2 193       47       37       89       2         Rayagada       - <th>Nayag</th> <th>awarangpur ayagarh uapada</th> <th>(4c)</th> <th></th> <th> 10</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>23</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Nayag	awarangpur ayagarh uapada	(4c)		10							23							
ur 656 7201 95 8	Puri		783		2193	47	٠	. 37	2.00	1.0	88		2586	2586 221		221	221	221	221 2054
ur 656 7201 95 8	Rayag	gada					i				٠		*	·	•	•	•	£	
37 33 131 55 - 16 25 6	Samb	alpur	929	7201	95	œ	i				242		. (10)	. (*)	. (0)	. (6)			
	Sone	our.	37	33	131	55		16	25	စ	19		778	778	778	778	778	778	778

