



ANNUAL REPORT ON NATURAL CALAMITIES 2003-2004



Special Relief, Orissa
Revenue Department
Government of Orissa

OSDMA

ORISSA STATE DISASTER
MITIGATION AUTHORITY
(A GOVERNMENT OF ORISSA AGENCY)



OK

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

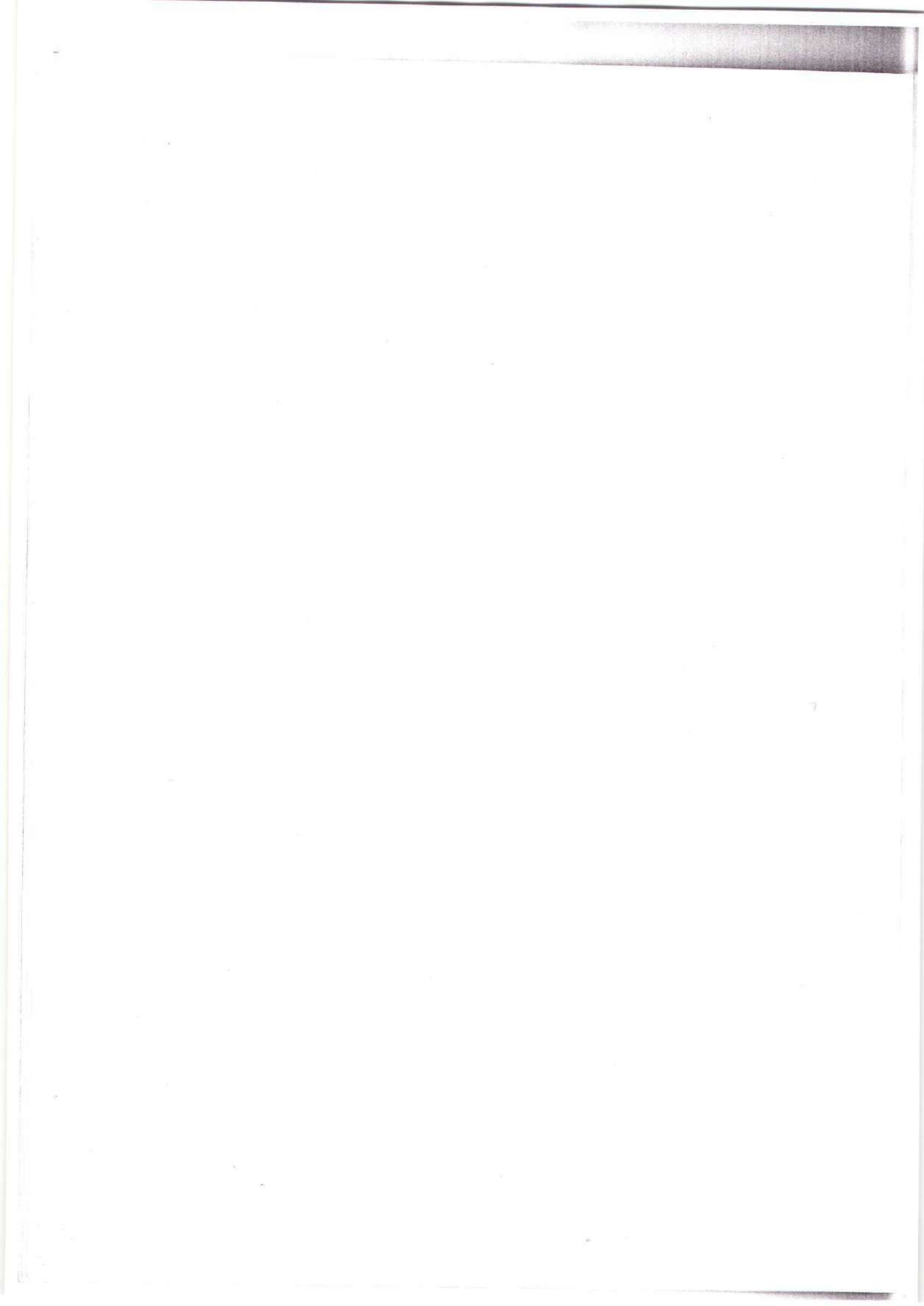
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Chapter-I

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 Jul-Aug, Aug-Sept, & Oct.
- Heat Wave 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 2nd phase of floods in August-September affecting 23 districts, marooning thousands of villages and inundating vast patches of agricultural land. In the 3rd phase the heavy downpour from 1st October to 10th 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 25th 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 26th to 31st 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 5th to 8th 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

Sl.	District	July		Aug		Sep		Oct		TOTAL		% of Deviation
		Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	
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	1274.0	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	1634.7	54.1
5	Bolangir	391.7	409.5	407.1	607.4	232.0	379.7	65.6	115.6	1096.4	1512.2	37.9
6	Boudh	390.8	429.5	373.8	620.9	260.3	285.7	127.2	159.7	1152.1	1495.7	29.8
7	Cuttack	351.8	370.8	315.8	436.1	229.2	214.3	147.4	436.7	1044.2	1457.8	39.6
8	Deogarh	469.6	307.6	430.9	374.4	224.3	398.0	61.6	200.2	1186.4	1280.1	7.9
9	Dhenkanal	382.0	324.1	333.0	415.4	220.6	249.3	93.6	333.4	1029.2	1322.1	28.5
10	Gajapati	221.6	267.9	242.4	268.2	229.6	171.4	179.8	544.2	873.4	1251.7	43.3
11	Ganjam	221.6	250.2	242.4	309.0	229.6	165.0	179.8	499.3	873.4	1223.5	40.1
12	Jagatsinghpur	351.8	307.6	315.8	346.6	229.2	325.5	147.4	485.8	1044.2	1465.5	40.3
13	Jajpur	351.8	408.4	315.8	426.2	229.2	306.5	147.4	469.1	1044.2	1610.2	54.2
14	Jharsuguda	469.6	252.9	430.9	412.0	224.3	380.4	61.6	164.6	1186.4	1209.9	2.0
15	Kalahandi	343.5	496.8	384.6	786.2	220.9	494.7	81.9	181.0	1030.9	1958.6	90.0
16	Kandhamal	390.8	434.2	373.8	543.6	260.3	415.3	127.2	331.3	1152.1	1724.4	49.7
17	Kendrapara	351.8	438.3	315.8	395.6	229.2	294.2	147.4	636.3	1044.2	1764.3	69.0
18	Keonjhar	391.8	214.7	335.3	208.1	233.0	160.7	112.7	297.2	1072.8	980.8	-8.6
19	Khordha	310.8	327.0	300.3	530.1	244.7	262.0	167.0	521.2	1022.8	1640.3	60.4
20	Koraput	351.1	411.6	380.3	444.2	262.1	190.7	116.5	186.2	1110.0	1232.7	11.1
21	Malkangiri	351.1	778.7	380.3	582.1	262.1	89.2	116.5	139.9	1110.0	1590.0	43.2
22	Mayurbhanj	426.4	279.9	375.5	214.9	232.3	147.3	113.6	311.5	1147.8	953.7	-16.9
23	Nawarangpur	351.1	447.2	380.3	564.2	262.1	233.7	116.5	168.8	1110.0	1413.8	27.4
24	Nayagarh	310.8	317.3	300.3	491.9	244.7	169.9	167.0	324.9	1022.8	1303.9	27.5
25	Nuapada	343.5	311.4	384.6	429.8	220.9	293.4	81.9	164.8	1030.9	1199.4	16.3
26	Puri	310.8	246.2	300.3	377.1	244.7	203.3	167.0	454.2	1022.8	1280.9	25.2
27	Rayagada	351.1	276.3	380.3	325.0	262.1	221.5	116.5	244.2	1110.0	1066.9	-3.9
28	Sambalpur	469.6	340.3	430.9	414.5	224.3	371.0	61.6	159.7	1186.4	1285.5	8.4
29	Sonepur	391.7	291.3	407.1	579.0	232.0	339.9	65.6	119.6	1096.4	1329.8	21.3
30	Sundargarh	480.2	254.3	458.2	302.1	223.9	265.8	75.9	204.2	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 26th-27th August, 1st-2nd and 6th-7th September. During 26th-29th 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 it exceeded 400 mm on 27th 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.

Sl. No.	District	Rainfall in mm during 1 st to 10 th October (in mm.)
1	Balasore	367.4
2	Bhadrak	480.8
3	Cuttack	285.5
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 26th to 28th 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 30th Aug. It pushed the water level in Hirakud reservoir close to the Full Reservoir Level (FRL) of 630 ft. Water of the tributaries 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.

HIRAKUD

Date	Inflow in lakh cusec	Outflow in lakh cusec	Date	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 in lakh cusec
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 severe. Both the floods lasted for 19 days each. However Flood-03 had been characterized by four peaks, whereas 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 Station	Danger Level	Water Level				Highest Reading	Year
				1.09.03	2.09.03	7.10.03	8.10.03		
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 nd phase Aug-Sept.	3 rd 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
1 st Phase	Jajpur, Bhadrak	Baitarani, Brahmani System
2 nd 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 rd 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

Sl. No.	District	Villages Marooned		Villages Affected	
		2 nd Phase	3 rd Phase	2 nd Phase September	3 rd Phase October
1	Angul	3		209	
2	Bargarh			115	
3	Bolangir			1571	
4	Boudh	5		174	
5	Cuttack	282		859	
6	Deogarh			325	



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

[Table-2.3]

2.4. DAMAGE

(a) Human Population

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

(b) Animals perished

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

(c) Residential Houses Damaged (Floods-03)

Damage	1 st & 2 nd Phases(Jul-Aug-Sep)	3 rd 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, Sonapur 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		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	Departments	
	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	2011
PR (GP / PS Building)	-	1612	1612
Revenue	169	651	820
Co-operation	-	154	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	40
Jajpur	21
Kendrapara	77
Khordha	3
Puri	21
Rayagada	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 3rd 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]



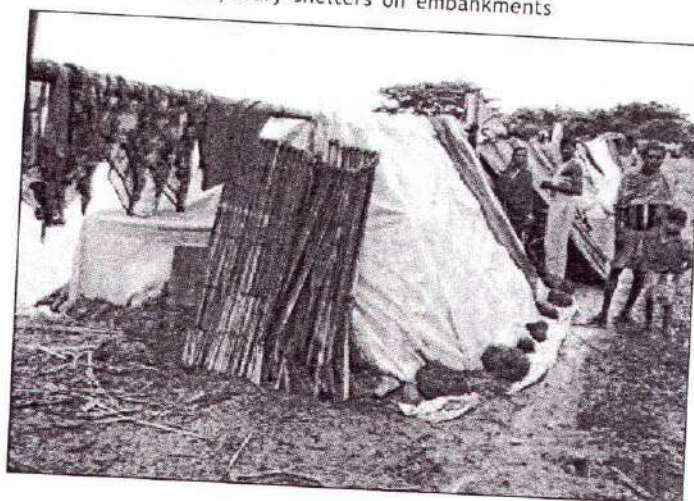
[Relief operation in Army]

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.

[Rescue and Relief operation by the Army]





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

Sl. No.	District	Date	Source of Supply						Hired from other Agency	Total	Remarks
			Army	Navy	ODRAF	SPEO	Commerce & Trans. Dept.	Country Boat			
1.	Angul	31.08.03				1			16	17	The following boats had been dispatched by Commerce & Transport Department and the same boats had been returned back by the Collectors without deployment. 5 power boats, 6 country boats from Bolangir, 4 power boats from Rayagada, 2 power boats from Boudh, 2 power boats from Kendrapara. 2 power boats from Puri and 2 power boats from Jajpur.
2.	Boudh	08.09.03				1	1		90	92	
3.	Cuttack	11.09.03	13	7	9	11	5	26	106	177	
4.	Jagatsinghpur	08.09.03	8		3	12	6	6	73	108	
5.	Jajpur	08.09.03				22	2	8	36	68	
6.	Jharsuguda	08.09.03				1			5	6	
7.	Kendrapara	08.09.03	13	6	5	24	14	46	62	170	
8.	Khurda	08.09.03	3			7			22	32	
9.	Nayagarh	01.09.03				2			21	23	
10.	Puri	09.09.03		2		15	38	14	390	459	
11.	Sambalpur	08.09.03			3	1			26	30	
12.	Sonepur	08.09.03							5	5	
13.	Koraput	08.09.03				1				1	
14.	Nawaranghpur	09.09.03				1			6	7	
15.	Rayagada	10.09.03				1			3	4	
16.	Bhadrak						5			5	
	Total		37	15	20	100	71	100	861	1204	

[Table-3.2]

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

Sl. No.	District	Source of supply				Total	Remarks
		SPEO	ODRAF	Hired from Private Agency			
				Power Boat	Country Boat		
1.	Balasore	10	2	15	55	82	
2.	Bhadrak	18	2	40		60	
3.	Ganjam	3	12	4		19	
4.	Mayurbhanj	2			5	7	
5.	Jajpur	13			27	40	
6.	Khurda	2				2	
7.	Puri	2				2	
8.	Rayagada	1			1	2	
9.	Keonjhar	2			5	7	
	Total	53	16	59	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 Place: Balipatana.

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

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 were distributed. 85718 no. 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	- 326
▪ Mobile Units	- 20
• Medicines / Disinfected Distributed	
▪ Bleaching powder	- 73350 Kg
▪ ORS	- 13.58 lakh pkts.
▪ IV Fluids	- 1.34 lakh bottle
▪ Anti-snake venom	- 7000 vials
• Patients Treated	
▪ Diarrhea	- 11711
▪ Minor Ailment	- 1.45 lakh
▪ Snake bite	- 45
• Disinfection of wells	- 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 ASSISTANCE

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)

Sl. 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	



8.	Bargarh	2680	
9.	Kalahandi	3100	
10.	Jharsuguda	0	
11.	Boudh	1200	
12.	Sonepur	1500	
13.	Angul		50
14.	Jajpur		50
15.	Nayagarh		50
	Total	76500	650

[Table-3.9]

Flood-2003 (October)

Sl. 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
ODMM (with resource support from Red Cross, Action-Aid, CRS)	USS, NSP, PSVP, CYSD, Abhiyan, BKSS Yojana, CPSW, Mahanga NGO-Cell, ARGU Sanjeevani	6		11518	Niali, Bhapur, Barchana Tirtol, Mahanga, Kanas, Marsaghai, Kakatpur Blocks
Red Cross		3			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, Baliana, Raghunathpur Niali, Kanas Mahanga, Barchana Kantapada
AKSS		3		5439	Kanas block
Action Aid		11		4313	80 villages, 25 GPs, in 10 Blocks (Balikuda, Naugaon, Dharmasala, Marsaghai, Gop, Nilai, Nimapada, Puintala, Agalpur, Deogaon)
CPSW		1		300	Bhapur block of Nayagarh district
NYSASDRI		2		1152	Barchana & Dharmasala
My Heart		1	6	1000	Kendrapara
ABLE		6		840	Kendrapara
ODAF		2			
OMRAH		1	12	1200	Akhua GP, Marsaghai
UBSS		4		4912	Marsaghai, Nimapara, Garadpur, Nilai, Gaisilat
MJS		1	1	488	
TOTAL		67		48690	
Complete data on others not available					

[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 patients. 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 powder; 7,00,000 ORS sachets; 10,000 tarpaulin sheets; 30,000 H₂S 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 Khurda 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)



i) CARITAS has worked in 16 villages in Gania Block of Nayagarh district. Its relief provisions made so far include: rice-51.52 Qtls; dal-12.88 Qtls; Flattened rice-17.95 Qtls, Jaggery-4.4 Qtls. (19.9.2003)

j) Concern Worldwide gave relief kits to 14,198 families through its partners **DSS, SHEDS, USS, SWAD, OLAR, OMRAH** in Puri and Cuttack districts. Relief materials distributed include: flattened rice-1065 Qtls; sugar-142 Qtls; Jerry Cans-5329; halogen tablets-1397500, ORS-24127 packets; Bleaching powder-8.75 Qtls. (16.9.2003)

k) Action Aid-India has supported local NGOs with medicines worth Rs. 1,68,800 for carrying out community health check ups in 80 flood-affected villages. Its medical teams have so far treated 4313 patients in 10 blocks. Its partners are Akhyam Sangathan (Nimapada), Nature's Club (Kendrapara), AAI-BGVS (Balikuda/Naugaon), United Artists' Association (Ganjam), NYSASDRI (Jajpur), Harijan Kalyan Samiti (Niali) and ODMM. (19.9.2003)

l) TATA Relief Committee's relief provisions include: 20,000 polythene sheets; flattened rice-120 Qtls; jaggery/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 distribution 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, Sonapur, 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 Nugaon 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.
- ✓ 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.

Sl. No.	District	Name of the Deceased	Age	Village	Block / Tahasil / Police Station	Date of Death
1	2	4	5	6	7	9
2003						
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	12.09.03
6	do	Chaitanya Pradhan s/o		Badatikirasahi	Athamallick	17.03.03
7	do	Sasmita Pradhan		Badatikirasahi	Athamallick	17.03.03
8	do	Karpur Deepa w/o Laxman		Anantapalli	Athamallick	26.08.03
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	30.3.03
9	do	Sumitra Das w/o Baidhar		Sanmaitapur	Simulia	28.7.03
10	do	Satrughana Behera s/o Sudhuni		Siadimal	Nilgiri	21.8.03
11	do	Baidhar Mohakud s/o		Sampei	Khaira	22.7.03
12	do	Rama Majhi w/o		Sutei	Balasore	1.11.03
13	do	Lauman Jena s/o		Jamjhadi	Simulia	15.6.03
14	do	Kamrun Bibi w/o Sattar Khan		Haripur	Remuna	15.6.03
15	do	Banamali Jena s/o Lalita		Dandanabada	Basta	16.10.03
1	Bargarh	Bhagirathi Bariha s/o Ranjit		Banjhapali	Padmapur	25.5.03
2	do	Abhidhan Para s/o Jana		Arjunda	Bheden	18.6.03
3	do	Smt. Sobha Meher w/o Iswar		Pandakipali	Sohella	24.6.03
4	do	Krushna chandra Patel s/o Nirupamani		Purena	Padmapur	12.06.03
1	Bhadrak	Narahari Swain s/o Pravakar		Tillo	Bonth	20.2.03
2	do	Raghunath Khillar s/o Budhram		Bideipur	Basudevpur	14.3.03
3	do	Adhikanda Das s/o Bansidhar		Chatarpada	Chandbali	18.6.03
4	do	Sk.Fakir Mohamad s/o Sk Suleman		Sankhajodi	Chandbali	11.7.03
5	do	Sk.Jabbar s/o Sk. Allauddin		Sankhajodi	Chandbali	11.7.03
6	do	Gadadhar Ghose s/o Purnachandra		Samia	Basudevpur	3.8.03
7	do	Sarat Chandra Sethi s/o Bholanath		Paridia	Dusuri	25.9.03
8	do	Laxmi Jena w/o Muralidhar		Dhamnagar	Dhamnagar	25.9.03
9	do	Parbati Das w/o Gourahari		Taladia	Chandbali	1.11.03
1	Bolangir	Ghasi Putel s/o Gurji		Andalpur	Katabanjhi	13.3.03
2	do	Nirakar Bag s/o Hiradhar		Andalpur	Katabanjhi	13.3.03
3	do	Bhuban Putel s/o Abhadhut		Andalpur	Katabanjhi	13.3.03
4	do	Uren Kumbhar s/o Bhika	30	Thakurpali	Bolangir	14.4.03
5	do	Biranchi Kumbhar s/o Bhika	24	Thakurpali	Bolangir	14.4.03
6	do	Radhashyam Pradhan s/o Makhanu	42	Budhipadar	Bolangir	14.4.03
7	do	Nimai Budek s/o Narayana	12	Sargad		14.4.03
8	do	Dayasagar Majhi s/o Jani	45	Rusuda	Tusra	04.04.03



9	do	Sukadev Majhi		Maruan	Patnagarh	25.5.03
10	do	Jaldhar Majhi		Pandel	Patnagarh	25.5.03
11	do	Basanti Mallick w/o Basudev	25	Janipali		10.06.03
12	do	Chaitanya Chhatra s/o Ugrasen		Kantabanjhi	Kantabanji	09.07.03
13	do	Balakrishna Rana s/o Dasa	45	Chitamara	Saintala	8.8.03
14	do	Radhakanta Bag s/o Akura	11	Birmunda	Madhiapalli	26.8.03
15	do	Shakti Para Bhue s/o Bidu		Bagdungiri	Mundapara	26.8.03
16	do	Fatu Sahu w/o Bhuvan	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
11	do	Babaji Khatua s/o Maheswar		Sindhupur	Mahanga	10.9.03
12	do	Suruji Dei w/o Golekha		Tarito	Kishorenagar	24.9.03
13	do	Balaram Samal s/o Bishnu		Tarito	Kishorenagar	24.9.03
14	do	Mithun Samal s/o Panchu		Govindapur	Tangi-Chowdar	1.10.03
15	do	Kulamani Sahani s/o Baishnab		Badakisunpur	Tangi	2.10.03
1	Deogarh	Ratnakar Sahu s/o Bimbadhar		Taleiswar	K.Gola	4.8.03
2	do	Renubala Pradhan w/o Pratap		Kadopada	Reamal	22.03.03
1	Dhenkanal	Radha Nayak w/o Muralidhar		Kantakula	Hindol	14.4.03
2	do	Damodar Behera s/o Sunia		Nizigarh	Dhenkanal	30.04.03
3	do	Seshadev Behera s/o Kumar		Gundurapasi	Gondia	1.11.03
4	do	Bilash Behera w/o Balaram		Gundurapasi	Gondia	1.11.03
5	do	Banita Behera w/o Baruna		Baisinga	Kamakhyanagar	09.07.03
6	do	Janaki Behera w/o Golekha		Baisinga	Kamakhyanagar	09.07.03
7	do	Niranjan Moharana s/o Manmohan		Durgaprasad	Dhenkanal	20.10.03
8	do	Nirakar Swain h/o Saudamini		Nua Thakurpal		15.06.03
	Gajapati					
1	Ganjam	Kanhu Ch Bisoyi s/o Simanchal		Baisipala	Digapahandi	15.2.03
2	do	Banakula Narayani w/o B.Parsuram		Haladiapadar	Patrapur	23.6.03
3	do	Banakula Lingaraju s/o B.Papeya		Haladiapadar	do	23.6.03
4	do	Budupu Purusottam s/o B.Areya		Haladiapadar	do	23.6.03
5	do	Narayan Swain s/o Bhaskar		Jugudibalabhadrapur	Digapahandi	22.4.03
6	do	Sini Kami s/o S. Raju		Ramachandrapur	Chikiti	13.3.03
7	do	K.Jyochana d/o K.Kora		Mahikapur	Digapahandi	9.8.03
8	do	Subas Jena s/o Juria		Sunatara	Aska	10.6.03
9	do	Apana Naik s/o Abhi		do	do	10.6.03
10	do	Nisamani Bisoyi w/o Laxman		San Borosingi	do	23.7.03
11	do	Narmada Patra w/o Krushnamurty		Sankholi	do	10.8.03
12	do	Khadala Sahu s/o Rajiv		Manitira	Buguda	24.5.03
13	do	Prafulla Gouda s/o Choudhuri		A.Raghunathpur	Berhampur	30.5.03
14	do	Chandra Das w/o Bidya		Kukudakhandi	do	9.10.03
15	do	Kuni Swain w/o Santosh		Hugulapata	do	21.10.03



16	do	Debaraj Barik s/o Bhaiga		Tirigochha	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
1	Jagatsinghpur	Tapas Swain s/o Kalpataru		Kalantira	Balikuda	26.06.03
2	do	Sk. Saratulla s/o Sk. Kefayat		Anjira	do	25.05.03
3	do	Bidyadhara Behera s/o Ganeswar		Naharana	do	25.05.03
4	do	Chittaranjan Mohanty s/o Dhrub		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
4	do	Prasanna Kumar Das s/o Damodar		Malikapur	Jajpur	17.06.03
5	do	Prakrushna Ku. Das		Mallikapur	Jajpur	17.6.03
6	do	Krushna Ch. Behera		Talakaipada	Bari R.Ch.Pur	24.10.03
1	Jharsuguda	Binodini Kua				25.5.03
2	do	Dillip Oram				21.7.03
1	Kalahandi	Rohit Majhi	55	Borbhata	Bhawanipatana	24.4.03
2	do	Arta Bag	46	Borbhata	Bhawanipatana	24.4.03
3	do	Teja Bag	16	Borbhata	Bhawanipatana	24.4.03
4	do	Nirmal Ch. Patel	25	Chilguda	Junagarh	20.4.03
5	do	Ramnath Suriya		Dakabahali	Kalahandi	18.4.03
6	do	Hemabati Sahoo	11	Kendumunde	Dharmagarh	13.6.03
	Kandhamal	Nil				
1	Keonjhar	Bhimasen Mohanta s/o		Maheswarpur	Champua	20.02.03
2	do	Ghanashyam Jena		Girigaon	Hatdihi	27.3.03
3	do	Padmalochan Das s/o		Jhunabadi	Hatdihi	19.04.03
4	do	Niranjan Patra s/o Jatia		Baunsagarh	Anandpur	31.5.03
5	do	Biswanth Nayak s/o Bharat		Badadhan Jaypur	Baria	05.6.03
6	do	Achhuta Patra s/o Sambhu		Baniapanka	Soso	14.6.03
7	do	Mayadhar Sahoo s/o Ananda		Nadua	Ghasipura	25.8.03
8	do	Gouri Mohanta w/o Gobinda		Barbeda	Patna	21.04.03
9	do	Kodanda Behera s/o Sankarsan		Salapada	Ghasipura	25.8.03
1	Kendrapara	Premananda Mallick s/o Purusottam		Penthapal	Pattamundai	20.02.03
2	do	Anjana Mallick d/o Purnananda		Penthapal	Pattamundai	20.02.03
3	do	Bikash Kr. Das s/o Panchanan		Talapada	Pattamundai	17.06.03
4	do	Dillip Kr. Das s/o Jadumani		Pentha	Patkura	17.06.03
5	do	Aswini Kumar Das s/o Gangadhar		Dasipur	Marsaghai	21.09.03
6	do	Santosh Kr. Nayak		Cheekoili	Aul	27.8.03
7	do	Kamalakanta Pradhan s/o Mali		Endulapur	Rajkanika	5.9.03
8	do	Dadhiram Mallick s/o Fakir		Aragal		17.10.03
1	Khordha	Sakhi Behera w/o Narayan	55	Darada	Balipatana	7.6.03
2	do	Srinivas Jena s/o Pahali	42	Prataprudrapur	Balianta	12.6.03
3	do	Dinabandhu Bhoi s/o Kumar	40	Laxmisagar	Laxmisagar	26.6.03
4	do	Rajata Ku. Behera s/o Babaji		Kantabania (Dadha)	Bhubaneswar	9.8.03
5	do	Boita Dei w/o Kanduri Sahu	65	Nathpur	Bhubaneswar	25.8.03
6	do	Tamala Sahu w/o Kabiraj	45	Manasira	Kodala (Ganjam)	26.8.03
7	do	Sayad Aslam Alli s/o Sd. Ekram	22	Jadupur	Khandgiri	26.8.03
8	do	Laxman Mallick s/o Sridhar	35	Bayanpada	Balianta	2.10.03
9	do	Ghana Bhoi s/o Jaga	52	Bhapur	Balipatna	
10	do	Sovajin Champatiray d/o Radhakanta	18	Gadagopinathprasad	Mancheswar	



11	do	Seema Pradhan d/o Charan	18	Tartua	Khordha	
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
	Malkangiri	Nil				
1	Mayurbhanj	Mohan Majhi		Khuntaposi	Thakurmunda	28.3.03
2	do	Purspabvati Das		Khandia	Kuliana	19.4.03
3	do	Neena Pramila Dehuri		Gerema	Karanjia	19.4.03
4	do	Golha Dehuri		Dugudha	Sarat	19.4.04
5	do	Hiranya Sing		Kharuntia	Morada	21.4.03
6	do	Praksash Behera		Palasa	Raruan	26.4.03
7	do	Sunanda Ray		Sanpala	Kuliana	27.4.03
8	do	Sasma Sing		Machhakandana	Kuliana	8.5.03
9	do	Lilimani Kalandi		Tangasole	Badasahi	16.6.03
10	do	Srinibash Thayal		Chauladahani	Suliapada	23.7.03
11	do	Sashikanta Singh		Sivajambani	Baripada	22.8.03
12	do	Sumitra Das		Nagasole	Chandua	21.6.03
1	Nawarangpur	Mangari Mirgan w/o Amarsingh	45	Kerandi	Dabugaon	15.3.03
2	do	Puspakashi Khura w/o Mambodh	20	Pakhanaguda	Papadahandi	14.4.03
3	do	Thabir Harijan	30	Belgam	Nawarangpur	05.08.03
4	do	Hari Jani s/o Dullava	13	Rajuchattan	Umerkote	11.6.03
5	do	Sada Muduli w/o Kumi	37	Rajuchattan	Umerkote	11.6.03
6	do	Lata Randhari s/o Angada	50	Bajargada	Kodinga	21.9.03
7	do	Nanda Muduli s/o Trinath	13	Rajuchattan	Umerkote	11.06.03
1	Nayagarh	Champa Bewa w/o Tareswar		Kulasar		6.4.03
2	do	Bhikari Mallick		Hariharpur	Sarankul	18.4.03
3	do	Sabita Naik d/o Sabar		Kusumagadia	Daspalla	18.5.03
4	do	Kalia Behera s/o Balaram		Bhatasahi	Nayagarh	24.5.03
5	do	Makunda Jena s/o Padmanava		Dwargaon	Daspalla	3.6.03
6	do	Prakash Barad s/o Birabar		Dwargaon	Daspalla	3.6.03
7	do	Geetanjali Das d/o Pramod		Poikadholamara	Khandpara	5.6.03
8	do	Jyostna Alatia d/o Bideshi		Bhagabatprasad	Odgaon	10.8.03
9	do	Budhia Patra s/o Mangulu		Goudaput	Odgaon	8.9.03
1	Nuapada	Babulal Bag		Nuagaon	Komna	24.4.03
1	Puri	Mamata Bhoi		Rench Sasan	Nimapara	
2	do	Rajkishore Patra s/o Kelu	28	Tiruna	Gop	10.8.03
3	do	Prakash Behera s/o Kumar		Badbeguniapda	Delang	26.8.03
4	do	Radhi Nayak w/o Gobinda		Torihanbandha	Balanga	16.9.03
5	do	Sanatan Behera s/o Banchhanidhi	25	Badamathasahi	Pipili	17.06.03
6	do	Haramani Behera w/o Markand	60	Erbank	Gop	17.06.03
7	do	Chakradhar Behera s/o	45	Jamuna	Pipili	30.06.03
8	do	Brahmananda Nayak s/o Nabaghan	35	Balanaga	Nimapara	10.08.03
9	do	Gouri Rout w/o Purna	45	Balanaga	Nimapara	10.08.03
10	do	Sindhu Jena s/o Baraju		Sahanikira	Brahmagiri	27.08.03
11	do	Purna Ch. Mohanty s/o Arabind	40	Tigiria	Pipili	02.10.03
12	do	Ramachandra Khatei s/o Pravakar	45	Narankantha	Pipili	02.10.03
13	do	Niranjan Pradhan s/o Bharat	27	Garhkharad	Puri	01.07.03
1	Rayagada	Padmanava Patra s/o Narasingh	32	Pandarajhuli	Gunupur	14.02.03
2	do	Jhanki Sabaruni w/o Lakia	65	Chittiserama	do	14.02.03
3	do	Pudramani Gangarang s/o Gade	35	Uapauchi	Muniguda	16.03.03
4	do	Pulendra Gangaranga s/o Gade	4	do	do	16.03.03
1	Sambalpur	Sudarshan Podh s/o Indrajit		Badsahir	Jujumara	15.6.03
2	do	Sanjay Yadav s/o Kamaljit		Talabhatapara	Sambalpur	2.10.03
3	do	Ashok Mirdha/ s/o Gokul		Junadihi	Katarbaga	03.10.03



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	Laphripada	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	Lephripada	22.07.03
9	do	Narottam Majhi	25	Aunlapali	Lephripada	22.07.03
10	do	Reena Raxa		Subdega	Talsara	25.07.03
11	do	Christina Dungdung		Dahijira	Kutra	26.08.03
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	7
14.	Sonepur	4
15.	Sundargarh	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 accidents are as follows as reported by collectors.

DEATH DUE TO FIRE ACCIDENTS

1. Bhadrak	- Dulamani Swain	- 07.03.2004
	B. Rajeswari	- 21.07.2003
2. Koraput	- Rabi Santa	- 06.06.2003
3. Rayagada	- Smt. Dambai Himirika	- 03.11.2003
4. Sundargarh	- Dinabandhu Dungal	- 16.05.2003
	Ratna Dungal	- 16.05.2003
5. Nayagarh	- Urmila Behera	- 20.04.2003
	Sanjukta Naik	- 20.04.2003
	Banchanidhi Sahoo	- 24.11.2003
6. Nuapada	- 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

Sl. No.	District	No. of fire accident during the year	No. of villages affected	No. of families affected	No. of Institution affected	Approximate value of property lost by fire (Rupees in Lakh)										Total amount of Relief given to affected families (Amount in Lakhs)				Total amount of relief given u/s 140 institutions	Total of col. of relief (Amount in lakhs)
						Individuals	Institutions	State Govt.	Local Bodies	Total (7 to 10)	Died	Injured	No. of Cattle feed	Cash	Forest material	Other	Cash	Forest material			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
1	Angul	185	185	523	-	59.23	-	-	-	59.23	-	-	-	3.79	-	-	-	-	-	3.79	
2	Balasore	417	395	445	-	88.738	-	-	-	88.738	-	-	-	4.65	-	-	-	-	-	4.65	
3	Bargarh	41	41	68	-	7.722	-	-	-	7.722	-	-	-	0.21	-	-	-	-	-	0.21	
4	Bhadrak	237	190	414	-	100.766	-	-	-	100.766	1	-	-	2.96	-	-	-	-	-	2.96	
5	Bolangir	59	57	142	-	6.159	-	-	1.10	7.259	-	-	-	-	-	-	-	-	-	-	
6	Boudh	93	93	706	-	79.932	-	-	-	79.932	-	-	-	8.92	0.15	-	-	-	-	9.07	
7	Cuttack	318	318	821	-	74.357	-	-	-	74.357	-	-	-	5.29	-	-	-	-	-	5.29	
8	Deogarh	45	45	45	-	-	-	-	-	-	-	-	-	0.133	-	-	-	-	-	0.133	
9	Dhenkanal	156	156	463	-	45.39	-	-	-	45.39	-	-	-	4.85	-	-	-	-	-	4.85	
10	Gajapati	60	60	319	-	43.878	-	-	-	43.878	-	-	-	5.64	-	-	-	-	-	5.64	
11	Ganjam	369	369	1369	-	124.785	-	-	-	124.785	-	-	-	9.52	-	-	-	-	-	9.52	
12	Jajpur	569	569	569	-	103.227	-	-	-	103.227	-	-	-	5.19	-	-	-	-	-	5.19	
13	Jharsuguda	7	7	13	-	1.415	-	-	-	1.415	-	-	-	0.06	0.01	-	-	-	-	0.07	
14	Jagatsinghpur	363	296	371	-	53.505	-	-	-	53.505	-	-	5	5.42	-	-	-	-	-	5.42	
15	Kalahandi	48	32	54	-	3.211	-	-	-	3.211	-	-	-	0.277	-	-	-	-	-	0.277	
16	Kandhamal	237	167	280	-	38.552	-	-	-	38.552	-	-	-	2.44	-	-	-	-	-	2.44	
17	Kendrapara	273	241	329	-	55.36	-	-	-	55.36	-	-	-	3.06	-	-	-	-	-	3.06	
18	Keonjhar	214	149	237	-	18.788	-	-	-	18.788	-	-	-	1.86	-	-	-	-	-	1.86	
19	Khordha	251	251	739	-	371.793	-	-	-	371.793	-	-	8	5.37	-	Dhoti-609 Saree-262 Polythene -119	-	-	-	5.37	
20	Koraput	244	159	248	-	16.836	-	-	-	16.836	2	-	-	1.08	-	-	-	-	-	1.08	
21	Malkangiri	89	77	86	-	7.784	-	-	-	7.784	-	-	-	0.20	-	-	-	-	-	0.20	
22	Mayurbhanj	325	479	917	-	69.66	-	-	-	69.66	-	-	2	2.18	-	-	-	-	-	2.18	



Sl. No.	District	No. of fire accident during the year	No. of villages affected	No. of families affected	No. of institution affected	Approximate value of property lost by fire (Rupees in Lakh)								Total amount of Relief given to affected families (Amount in Lakhs)				Total amount of relief given u/s 140		Total of col. (Amount in lakhs)
						Individuals	Institutions	State Govt.	Local Bodies	Total (7 to 10)	Died	Injured	No. of Cattle fed	Cash	Forest material	Other	Cash	Forest material		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
23	Nawarangpur	91	96	130	-	8.25	-	-	-	8.25	-	-	-	0.40	-	Dhoti-153 Saree-278 Garment -552 Utensil-155 Polythene -140MTS Blankete -121	-	-	-	0.40
24	Nayagarh	175	175	894	-	63.83	-	-	-	63.83	3	-	25	8.58	-	-	-	-	-	8.58
25	Nuapada	19	19	23	-	1.70	-	-	-	1.70	1	-	-	0.07	-	-	-	-	-	0.07
26	Puri	294	336	692	-	84.79	-	-	-	84.79	-	-	27	5.50	-	-	-	-	-	5.50
27	Rayagada	70	70	246	-	46.60	-	-	-	46.60	1	14	-	5.25	-	-	-	-	-	5.25
28	Sambalpur	65	61	77	-	11.02	-	-	-	11.02	-	-	-	2.49	-	Saree- 3 Dhoti-3 Garments-4 pair	-	-	-	2.49
29	Sonepur	106	106	354	-	20.51	-	-	-	20.51	-	-	-	2.52	-	-	-	-	-	2.52
30	Sundargarh	5	5	5	-	4.83	-	-	-	4.83	2	-	-	-	-	-	-	-	-	-
	TOTAL	5425	5204	11579		1612.60			1.10	1613.70	10			95.67						95.83

[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 out of CRF (Calamity Relief Fund) and CMRF (Chief Minister's Relief Fund). The Table- 4.5 shows the details of boat tragedy.

1	Kalahandi	Janaki Naik	25	Dalguda	Drowning in boat accident in Indravati reservoir on 10.04.03
2	do	Brunda Naik	23	do	do
3	do	Nira Dei	27	do	do
4	Keonjhar	Kabindra Pallai	36	Barigam	do
5	Koraput	Sundari Sounata d/o Utara	13	Naranga	Boat capsized on 08.04.03 at Muran Dam reservoir
6	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
12	do	Hako Saunta w/o Taila	35	do	do
13	do	Ichha Saunta w/o Haja	30	do	do
14	do	Naya Saunta s/o Gurunath	45	do	do
15	do	Satyabhan Mahanadia s/o Jayadas	30	Haladisil	do
16	do	Akhyia Kumar Khora s/o Ashananda	30	do	do
17	do	Laxman Jani s/o Mulia	40	Chandeipadar	do
18	do	Haja Santa s/o Kandra	32	do	do
19	Malkangiri	Suku Hantal	45	Banaguru	Drowning of 8 people in Balimela reservoir on 07.04.03
20	do	Tulasa Hantal	35	do	do
21	do	Baidehi Hantal	5	do	do
22	do	Madhu Sisa	35	do	do
23	do	Kalamani Sisa	30	do	do
24	do	Bhima Sisa	4	do	do
25	do	Surendra Sisa	1	do	do
26	do	Gurama Khilla	16	do	do
27	Angul	Mukesh Pradhan	14	NA	Drowning of 4 people in Derjang Reservoir on 25.05.03 due to hail storm
28	do	Abhaya Sahu	30	NA	do
29	do	Bijay Sahu	28	NA	do
30	do	Pramod Sahu	45	NA	do
31	Jajpur	Padmalochan Sahoo			Boat Capsized on 14.09.03 in River Baitarani
32	Bhadrak	Mantu Mallick s/o Mangata		Adhuanadia	Boat Capsized on 14.03.03 in Bay of Bengal due to Cyclonic Storm
33	do	Sadananda Rout s/o Ashani		Sankrushnapur	do
34	Mayurbhanj	Fagu Singh @ Ruhia		Kuchilakhunta	Boat Capsized on 26.10.03 in River Budhabalang
35	Sambalpur	Danardan Sahu s/o Salegram		Mandoghat	Boat Capsized 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 (Rajya 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		
Sundargarh	03	02		762834595
Koraput	08	02		762834527
Nawrangpur	06	02		762834583
Baragarh	03	02		
Angul	05	02	01	762834599
Bolangir	07	02	01	
Gajapati	07	02	01	
Nuapada	04	02		762834579
Rayagada	08	02	01	762834613
Khordha	Own VHF	02		
OSDMA	01	32	02	762834591
SRC, Cuttack	01	0		
SRC, BBSR	01	03	01	
ODRAF, Cuttack	01	05		
AIR, Cuttack	01	0		
IMD, BBSR	01	0		
Revenue Control Room	01	0		762834531
RDC, CD, Cuttack			01	
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 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- (<i>Troop Carrier</i>)-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 (SCRCP) through 30 NGOs has been started under the World Bank assisted OWRCP (Part-H), which aims at strengthening community cohesiveness through group based initiatives. SCRCP 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 SCRCP 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.

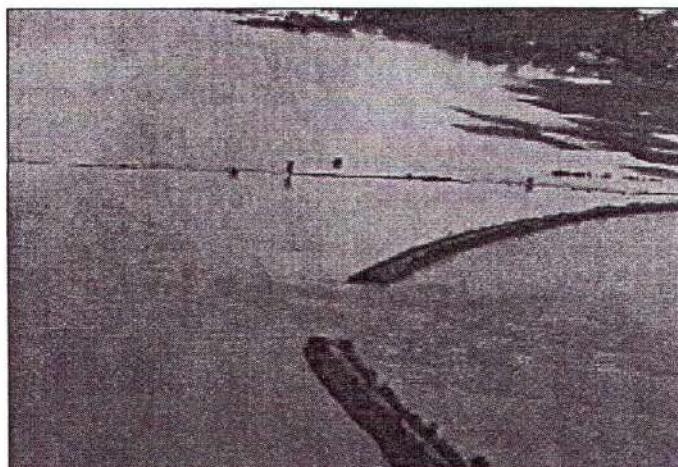
- ☐ Training Programme for district and block level trainers in 6 phases
- ☐ Training on HAM Radio
- ☐ Training on maintenance of cyclone shelters
- ☐ Workshop in collaboration with LWS on CBDP
- ☐ Workshop on Earthquake Mitigation in Orissa
- ☐ Training of District/ Block/ GP disaster management committees



- ☐ 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 Civil 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

Category Fund	Opening Balance	Receipt	Unspent & Surrendered of previous year	Total	Release	Rs. in crore
						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

Category Fund	Receipt	Surrender Augmented	Total	Release			Balance
				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

Sl. No.	District/ Department	Emergent Relief	HBA	Ex-Gratia	TC	Rescue Measures	Other Items	Total
1	Angul	7.00	14.30		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			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			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		0.50	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	0.50	25.00			255.10
29	Sundargarh	5.00						5.00
	Total	454.00	2321.70	50.10	422.25	4.00	110.55	3362.60

[Table-6.2]



Funds Released to Departments Out of NCCF
Till 31.03.04

Sl. No.	Department	Food Materials	Hiring of Boats	Medicines	Relief % Rescue	Cattle Feed	Vaccine & Medicine	Roads	Flood Embankments	Rest. of LIPs.	Drinking Water Supply	SNP	TC	Other Item	Buildings	Input Subsidy	Total
1	Agriculture													25.00		500.00	525.00
2	C & T		36.26										2.00				38.26
3	H & FW			310.00			47.08						40.00				397.08
4	Home				5.00									1.84	3.94		10.78
5	F & AR					295.00	33.00						2.00				330.00
6	Works							600.00									600.00
7	Water								1921.00	200.00							2121.00
8	RD							550.00			432.20						982.20
9	Revenue													0.40			0.40
10	F & CW	1000.00															1000.00
11	W & CD											150.00					150.00
12	School & Mass														200.00		200.00
13	H & UD										100.00			26.57			126.57
14	Industry													1.49			1.49
15	I & PR													0.35			0.35
16	Panchayati Raj							194.53									194.53
17	U/S (SR)												6.00	5.05			11.05
	TOTAL	1000.00	36.26	310.00	5.00	295.00	80.08	1344.53	1921.00	200.00	532.20	150.00	50.00	35.71	203.94	500.00	6688.72
Districts																	3362.60
G.Total																	10051.32

[Table-6.2.1]



Funds Released out of CRF Districts & Departments

Rs. in lakh

Sl. No.	District/ Department	HBA	Ex-Gratia	Boat	Rescue Measures	Roads	Water Supply	Flood Protection	ULB	MIP	LIP	Building TC for FFW	MCC &	Total
Districts														
1	Sonepur		0.10											0.10
2	Mayurbhanj	0.674												0.674
3	Jajpur				6.50									6.50
4	Cuttack		1.00											1.00
5	Puri		0.50											0.50
6	Dhenkanal		0.70											0.70
7	Ganjam			2.00										2.00
8	27 Collectors												2145.59	2145.59
	Total	0.674	2.30	2.00	6.50	0.00	0	0	0	0	0	0	2145.59	2157.064
Departments														
1	Works					1700.00						850.00	94.93	2644.93
2	RD					2500.00						600.00	294.86	3394.86
3	HUD						1382.00		1000.00					2382.00
4	WR							800.00		810.00	200.00	100.00	2027.14	3937.14
5	PR					499.00								499.00
6	F & E											50.00	184.29	234.29
7	Agriculture												184.29	184.29
8	F & ARD												92.14	92.14
	Total					4699.00	1382.00	800.00	1000.00	810.00	200.00	1600.00	2877.65	13368.65
	G. TOTAL	0.674	2.30	2.00	6.50	4699.00	1382.00	800.00	1000.00	810.00	200.00	1600.00	5023.24	15525.71

[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 & NCFR/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

Fund	Rs. in crore		
	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.

YEAR-WISE SUBMISSION OF UCs

Agency	Rs. in lakh							
	1999-00		2000-01		2001-02		2002-03	
	Allotment	UC Sent	Allotment	UC Sent	Allotment	UC Sent	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 initiatives were taken to create durable infrastructure and build a disaster-resilient community.



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

Annexure-I

Sl. No.	Name of the District	No. of Blocks / ULBs in the District		No. of Blocks / ULBs containing affected villages / wards		No. of GPs in the District	No. of GPs containing affected villages	No. of villages in the District	No. of villages sustained crop loss of 50% and above										Total	Reason of Crop loss
		Blocks	ULBs	Blocks	ULBs				Non-Irrigated				Irrigated							
									50% to 74%		75% & above		50% to 74%		75% & above					
									Village	Ward	Village	Ward	Village	Ward	Village	Ward				
									(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
1.	Bhadrak	7	2	1	-	193	16	1356	33	-	12	-	-	-	-	-	-	45	Due to High flood / Heavy Rain	
2.	Cuttack	14	4	14	1	342	166	1977	320	-	267	7	89	-	134	-	-	810/7	-do-	
3.	Ganjam	22	18	12	2	475	74	2762	17	-	14	-	151	4	21	-	-	203/4	-do-	
4.	Jajpur	10	2	5	-	280	62	1789	64	-	163	-	04	-	10	-	-	241	-do-	
5.	Jagatsinghpur	8	2	5	-	194	44	1314	64	-	95	-	06	-	27	-	-	192	-do-	
6.	Kendrapara	9	2	7	1	230	93	1582	80	-	253	5	05	-	14	-	-	352/5	-do-	
7.	Khordha	10	5	10	2	168	101	1672	685	14	16	-	8	-	18	-	-	727/14	-do-	
8.	Nayagarh	8	2	1	-	179	4	1701	15	-	27	-	1	-	-	-	-	43	-do-	
9.	Puri	11	4	10	1	230	115	1710	122	-	260	-	26	-	154	1	-	552/1	-do-	
	Total	99	41	65	7	2291	675	15863	1400	14	1107	12	290	4	378	1	-	3175/31		



FLOOD DAMAGED STATISTICS

STATEMENT NO.-2

Area affected Due Floods & Heavy Rain

Annexure-II

Sl. No.	Name of the District	No. of sub-divisions	No. of blocks	No. of urban areas	No. of villages/wards	No. of GPs.	No. of Villages Affected	No. of Wards Affected	Total population affected by flood in urban areas	Total population affected by flood in Rural areas	Total area affected by flood in the affected Rural areas	Total area affected by flood in the affected urban areas	Name of rivers/nallahs streams etc. which caused damage
1	Angul	4	7	2	430/14	103	490	14	1220	11225			Mahanadi, Tikra, Auni, Kumbhira, Gaudini, Luhurani, Singida, Jayagadh MIP
2	Balasore	2	12	4	2971	289	1340	80	57050	609946	80	106125	Subarnarekha, Budhabalanga & Jalaka
3	Bargarh	2	12	3	1177	243	111	1	1017	15261	23055 AC		ONG river, Kumudi Nala back water & Hirakud
4	Bhadrak	1	7	2	1356	193	1087	*	48213	1088645	210244		
5	Bolangir	3	14	4	1761/63	285	535	34	26000	460000	34 wards	34 wards	Tel, Suktel, Ong, Simlimunda nala, N. Jore
6	Boudh	1	3	1	737	23	73	7	31678		7 wards	7 wards	Mahanadi, Tel, Baghsalini, Khadang
7	Cuttack	3	14	4	865/11	217	849	16	36855	873367	913222	42 wards	Mahanadi, Sapua, Kathajodi, Birupa, Kantia, Rana
8	Deogarh	1	3		327	21	327			327			
9	Galapali	1	7	2	1528/29	129	1528	29	516	29			Bansadhara, Mahendranaya, Harabhang
10	Ganjam	2	22	18	2786/12	475	2786	12	92989	1437074	7473.18	7473.18	Rusikulya, Ghadaka, Bagi, Bahuda etc.
11	Jagatsinghpur	1	7		251	73	251	251	194184				Mahanadi, Devi, Aka, Paika, Gobani, Hansua & Chitrapalla
12	Jajpur	1	10	1	429	115	429		440719	429	47551		Birupa, Genguli, Kelua, Brahmani, Baitani, Kantibudha & Kharasota
13	Jharsuguda	1	1			3	6			1600			Hirakud back water
14	Kalahandi	2	13	5	1143	231							Tel, Hali, Oler & Indravati
15	Kandhamal	2	12	2	630	125	630		14942				Due to heavy rain
16	Kendrapara	1	9	2	585/22	120	585	22	616632		91660		Luna, Brupa, Paika, Chitrapalla & Karanda
17	Keonjhar	1	3	1	436/16	68	436		370480				
18	Khordha	2	10	5	612/57	114	612	29	37061	262258	33455		Salia, Kusabhadra, Daya, Kuakhai, Matugum, Rajua, Rana etc.
19	Koraput	2	14	4		9	22		8881				
20	Mayurbhanj	1	2			6	15		3900				
21	Nuapara	1	3	1		12	33	1		33	1	1 ward	Joni, Sunder etc
22	Nabarangpur	1	4			8	16		18158		33	1348	Indravati
23	Nayagarh	1	8	2	1701	179	180		85000	180	29050		
24	Puri	1	11	1	1710	230	842	11	700335	842	846	80580	
25	Rayagada	2	7	2	750	80	750	2	400	28375	48.31	48.31	Bansadhara, Nagabali, Bira NALA etc.
26	Sambalpur	3	9	5	1325/5	148	21		1285	21		870	Mahanadi, Dhobijore Harajore etc.
27	Sonepur	2	6	3	959	96	136	16	64350	3	16 wards	16	Mahanadi, Suktel, Ong, Jira, Choujore, Harhajore etc.
	Total	45	230	74	13404	3600	14090	525	2830575	4793615			



FLOOD DAMAGED STATISTICS

STATEMENT NO.-3

Private House Damage

Annexure-III

Sl. No.	Name of the District	No. of sub-divisions	No. of blocks	Urban areas	No. of GPs.	No. of Wards	Villages	HOUSE DAMAGE					Total Cols. 9,10 & 11	Value of loss (Rupees in Lakh)
								Number of houses washed away	No. of houses completely collapsed	No. of houses partly collapsed	No. of houses damaged other than those in cols 9,10 & 11			
1	Angul	4	7	2	103	5	294	4	54	3715		3773	70.31	
2	Balasore	2	12	4	289	80	2971	260	2469	13068		15797	4000.00	
3	Bargarh	2	12	3	248	39	1177		3201	3893		6441	102.95	
4	Bhadrak	1	7	2	177	49	1087	130	1400	5916		7446	65.94	
5	Balangir	3	14	4	285	63	1761		926	3838	15275	20039	180.59	
6	Boudh	1	3	1	23	7	73		64	4722		4786	296.12	
7	Cuttack	3	14	4	145	42	449	46	749	2511		3306	32.40	
8	Deogarh	1	3		21		327		76	1456		1532	78.55	
9	Gaiapati	1	7	2	129	29	1235		3	42	471	516	13.38	
10	Ganjam	3	22	18	475	112	2777		372	2865	19591	3237	371.13	
11	Jagatsinghpur	1	7	0	73	0	251		81	12339	0	12420	308.55	
12	Jaipur	1	10	1	115	16	429		331	14187		14518	19.65	
13	Jharsuguda	1	1		3		6		19	33	91	143	21.83	
14	Kalanandi	2	13	3	231	39			1524	4204		5728	59.79	
15	Kandhamal	2	12		125		630		75	4643		4718	52.92	
16	Kendrapara	1	5		49	2	173		95	7649		7744	70.35	
17	Keonjhar	1	1	1	0	16			1	106		107	1.06	
18	Khordha	2	10		114	5	612		21	5247		5268	0.00	
19	Koraput	2	14	4	198		876		145	590	1621	2356	23.38	
20	Mayurbhanj	1	1		1		1			4		4	0.01	
21	Nuapara	1	3	1	12	1	33		39	116	353	155	6.56	
22	Nawarangpur	1	4		8		16		26	197		223	24.90	
23	Nayagarh	1	8	2	179	26	1701			82	839	921	16.00	
24	Puri	1	11	1	155	1	842	10	1897	27564		29471	0.00	
25	Rayagada	2	7	2	80	2	750		1	6722		6723	127.69	
26	Sambalpur	3	9	5	148	1	1325		55	81	137	273	10.26	
27	Sonepur	2	6	3	96	38	959	0	1321	10783	14984	27838	356.78	
	Total	46	222	63	3482	573	20755	450	14945	136573	53462	185483	6311.10	



FLOOD DAMAGE STATISTICS STATEMENT No.4 Crop Damage

Annexure-IV
(Area in Hect.)

S. No.	Name of the district	No. of subdivisions	No. of blocks / urban areas	No. of villages	Population affected	Total cultivated area in acres urban areas / block	Cultivated areas affected by flood in acres Urban areas/ blocks	Areas sand cast out of Col.8	Areas water logged out of Col.8	Damage over 75% of normal yield in acres	Damage between 50% and 75% in acres	Estimated loss of yield in quintals	In rupees	Damage after flood in acres	Cost for eradication of pest attack	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	Angul	2	3	72	27462	84152	1338	370.11	1338	1167	116	10205	6986000	-	-	-
2.	Balasore	2	12/4	2971	-	640817.5	265313	-	-	-	-	-	-	-	-	-
3.	Bargarh	2	12/3	1177	15199	872028	23139	16220	-	19344	3405	185840	104856480	-	-	-
4.	Bhadrak	1	7/2	1087	1136858	175061	103817	-	38984	12402	26592	525925	284000000	-	-	-
5.	Bolangir	3	14/4	1761	1230838	345580	36279	2090.9	8408	2610	9307	183834	1065200	11917	3600000	-
6.	Boudh	1	3/1	171	8198	85500	7282	-	1644.80	1802	1154.60	406338	21538140	971.20	485600	-
7.	Cuttack	3	14/4	865/42	913222	137054.25	75454.6	362.4	75229.6	37309.4	22645.2	273845	481325000	71236.6	930700	-
8.	Deogarh	1	3	327	72897	66795	-	100	-	70	30	-	347000	2470	-	-
9.	Ganjam	3	22/18	2021	639498	1015000	321838	3023.09	193055	47665	70193	1451648	592952000	199981	242500	-
10.	Gejapati	1	7/2	1235	82396	31820	7705	-	7705	-	-	-	-	-	-	-
11.	Jagatsinghpur	1	7	476	237480	264250	89507	3033	-	37810	10335	438430	200065400	59473	-	-
12.	Jeipur	1	10	429	-	145450	47551	-	-	15065	6690	267423	14003000	-	-	-
13.	Jharsuguda	1	1	6	1600	65275	775	-	775	Nil	Nil	Nil	Nil	Nil	Nil	-
14.	Kalahandi	2	13/3	43	1334372	-	-	-	-	-	-	-	-	1643.38	980280	-
15.	Kandhamal	2	6	630	125800	139347	1292	730	-	902	390	5661	2887200	-	-	-
16.	Kendrapara	1	9/2	585	611632	76149	55958	2851	55958	25572	30366	439740	256026183	-	-	-

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FLOOD DAMAGE STATISTICS STATEMENT No.5 Casualties

Annexure-V (Area in Hect.)

Sl. No.	Name of the district	No. of subdivisions	No. of blocks	No. of police stations	No. of villages	Number of human beings died				No. of livestock lost					Total value of livestock lost in rupees	Remarks
						Men	Women	Children	Total	Goats & Sheep	Cows, Bullocks, Calves etc.	Pigs	Fowl	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	Angul	3	3	4	2	-	-	-	-	-	13	-	-	13	51000	-
2.	Balasore	2	12	19	2971	6	-	-	6	-	-	-	-	-	-	-
3.	Bargarh	2	12	14	1177	2	-	-	2	221	87	113	725	1146	842000	-
4.	Bhadrak	1	7	12	1077	1	-	-	1	31	13	-	-	44	63800	-
5.	Bolangir	3	14	13	1792	5	3	1	9	40	10	61	0	109	201000	-
6.	Boudh	1	3	6	73	-	-	-	-	11	11	-	-	22	34000	-
7.	Cuttack	3	14	19	865	7	1	1	9	46	49	0	0	95	246000	-
8.	Deogarh	1	3	4	774	-	1	-	1	-	-	-	-	-	-	-
9.	Ganjam	3	7	3	11	13	1	-	14	-	-	-	-	-	-	-
10.	Galapati	1	7	9	1235	3	-	-	3	200	200	1	-	401	408000	-
11.	Jagatsinghpur	1	7	7	251	1	0	1	2	31	25	0	0	56	-	-
12.	Jaipur	1	1	1	2	2	0	-	2	6	0	0	0	6	3000	-
13.	Jharsuguda	1	1	1	6	-	-	-	-	-	2	-	-	2	8000	-
14.	Kalahandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	-	-	-	Nil	-
15.	Kandhamal	1	3	3	4	2	2	1	5	-	-	-	-	-	-	-
16.	Kendrapara	1	9	-	5	12	2	-	14	-	-	-	-	-	-	-
17.	Keonjhar	1	3	5	452	1	-	-	1	-	-	-	-	-	-	-



18.	Khordha	2	3	3	5	3	-	-	3	16	1	-	-	17	13000	-
19.	Koraput	2	14	-	2	-	-	-	-	-	-	-	-	-	-	-
20.	Mayurbhanj	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
21.	Navarangpur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.	Nayagarh	1	8	9	1701	1	-	1	2	-	-	-	-	-	-	-
23.	Nuapada	1	3	4	33	1	0	0	1	0	0	0	0	0	-	-
24.	Puri	1	11	3	11	10	2	-	12	3	6	-	-	9	15750	-
25.	Rayagada	1	1	1	1	-	-	3	3	-	67	-	-	67	150000	-
26.	Sambalpur	3	9	16	1325	-	-	1	1	-	3	-	-	3	3000	-
27.	Sonepur	2	6	7	959	1	0	-	1	-	4	-	-	4	-	-
	TOTAL	39	161	163	14734	72	12	9	93	605	491	175	725	1994	2038550	-



Annexure-VI

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

Sl. No. (1)	Name of the district (2)	No. of Blocks affected (3)	No. of GPs affected (4)	No. of Village Affected (5)	No. of ULB affected (6)
1.	Angul	7	103	496	2
2.	Balasore	12	228	1340	4
3.	Bargarh	5	45	111	1
4.	Bhadrak	7	177	1087	2
5.	Bolangir	9	147	535	2
6.	Boudh	3	23	73	1
7.	Cuttack	14	217	865	42
8.	Deogarh	3	21	327	-
9.	Garjam	22	475	2786	33
10.	Gajapati	7	126	1237	2
11.	Jagatsinghpur	7	73	251	0
12.	Jaipur	10	115	429	16
13.	Jharsuguda	1	3	6	Nil
14.	Kalahandi	-	-	-	-
15.	Kandhamal	12	126	630	-
16.	Kendrapara	9	120	585	22
17.	Keonjhar	3	68	441	1
18.	Khordha	10	114	612	5
19.	Koraput	2	9	22	4
20.	Mayurbhanj	-	-	-	-
21.	Navarangpur	4	8	18	-
22.	Nayagarh	4	37	180	-
23.	Nuapada	3	12	33	1
24.	Puri	11	155	842	1
25.	Rayagada	7	79	750	2
26.	Sambalpur	4	9	21	2
27.	Sonepur	6	47	136	3
	TOTAL	182	2537	13813	146



FLOOD-2003 Statement-7 Damage to Public Utilities

Annexure-VII

Departments (No. of Public Utilities Damaged)

Sl. No	Name of the district	Works	RD	WR	H & UD	School & M.E.	Agri	Revenue	Forest	H & FW	PR	Energy	F & ARD	Co-operation	Fisheries	SC/ST	W & CD	Total Units Damaged	Amount of loss (Rs. in lakh)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.	Angul	61	203	149	2	-	1	-	-	-	891	-	-	10	-	17	-	1307	3372.1
2.	Balasore	975	-	547	388	-	34	-	-	-	991	-	-	-	-	-	-	2936	4712.41
3.	Bargarh	162	3609	839	309	-	-	-	-	-	1347	-	43	-	-	-	-	6266	4538.37
4.	Bhadrak	439	184	378	3	193	56	-	-	-	2349	30	936	-	-	-	-	4668	4499.02
5.	Bolangir	55	151	363	212	61	-	-	-	-	751	84	3	-	-	-	-	1405	1575.67
6.	Boudh	680	1929	1589	227	50	-	-	-	16	2243	24278	10	-	-	-	-	29334	21867.71
7.	Cuttack	38	25	38	114	-	27	-	-	-	617	-	-	5	11	28	125	1028	1408.37
8.	Deogarh	1901	1797	3643	-	-	-	-	52	11	-	-	-	-	-	-	-	7404	8562.13
9.	Ganjam	1092.15	-	154.44	14.00	-	-	-	-	-	257.10	-	-	-	-	-	-	-	-
10.	Galapati	91	1086	984	6	124	20	-	-	40	2231	6	18	23	-	3	-	2753	13333.185
11.	Jagatsinghpur	38	105	652	569	268	16	-	-	-	744	-	-	-	-	-	-	2418	5934.22
12.	Jajpur	7	118	23	3619	-	-	2	-	-	434	-	-	-	-	-	-	4193	2924.93
13.	Jharsuguda	0	-	-	-	-	-	-	-	-	844	-	-	-	-	-	-	844	75.47
14.	Kalahandi	912	27	130	-	-	104	-	-	-	997	-	-	-	-	-	-	2170	1127.94
15.	Kandhamal	79	160	14	-	358	-	78	-	-	100	-	-	-	-	-	-	789	12090.00
16.	Kendrapara	3938	218	4626	1444	-	-	-	37	-	-	-	-	-	-	-	-	24247	8861.62
17.	Keonjhar	258	188	42	-	-	-	197	-	1	666	-	-	-	-	-	-	1116	2661.14
18.	Khordha	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19.	Koraput	13	188	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20.	Mayurbhanj	13	188	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



20.	Mayurbhanj	311.72	516.25	23.70	-	-	-	3900	-
21.	Nawarangpur	0	26.5	1.76	-	-	-	5879	0.29
22.	Nayagarh	1158.17	1.00	0.13	-	-	-	4219	-
23.	Nuapada	1.6	1.00	0.10	-	-	-	120	0.02
24.	Puri	28076.12	18051.09	654.90	-	-	-	647595	-
25.	Rayagada	-	0.15	-	-	-	-	387	0.002
26.	Sambalpur	145.50	107.00	40.40	-	-	-	5019	-
27.	Sonepur	1127.93	84.7	18.90	-	-	-	72147	249.75
	TOTAL	135618.67	39494.77	3040.89	-	-	-	4095284	3256.682

Dal-47.00
Dal-135.18,
Kerosene Oil &
Vegetable



FLOOD-2003

Statement-8

Distribution of Emergent Relief

Annexure-VIII

Sl. No	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1.	Angul	422.80	8.15	1.30	-	-	-	5 nos.	34285	-	-
2.	Balasore	3805.11	2160.17	292.07	-	-	-	-	425122	2652	-
3.	Bargarh	32.5	70.5	25	-	-	-	-	16278	1.86	-
4.	Bhadrak	10886.58	150.00	4.50	-	-	-	-	1115918	-	-
5.	Bolangir	34979.25	7392.75	756.55	-	-	-	-	26484	-	-
6.	Boudh	629.0	112.0	12.9	-	-	-	-	16240	-	-
7.	Cuttack	16472.0	3764.0	209.8	-	-	-	-	583397	181.21	-
8.	Deogarh	-	-	-	-	-	-	-	-	-	-
9.	Ganjam	2824.7	321.6	142.5	-	-	-	-	11487	-	-
10.	Gajapati	-	-	-	-	-	-	-	-	-	-
11.	Jagatsinghpur	6298.72	2057.06	149.17	-	-	-	-	175438	-	-
12.	Jajpur	8574.9	905.48	82.78	-	-	-	-	440719	-	-
13.	Jharsuguda	50.20	3.35	1.67	-	-	-	-	3700	0.99	Dal-8.58 Q. Vegetable-40,000
14.	Kalahandi	306.46	160.0	10.25	-	-	-	-	8456	-	-
15.	Kandhamal	271.14	-	-	-	-	-	-	9090	170	-
16.	Kendrapara	14862.7	2959.08	540.25	-	-	-	-	395720	-	-
17.	Keonjhar	-	-	-	-	-	-	-	-	-	-
18.	Khordha	4362.0	622.57	72.32	-	-	-	-	93151	-	Dal-63.5, Potato-1.50
19.	Koraput	19.57	20.37	1.93	-	-	-	-	533	0.56	-

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