Government of Orissa

Additional Memorandum on Floods -2011

Special Relief Commissioner, Orissa
Revenue & Disaster Management Department

Cause of occurrence

On 22.09.2011 a depression was formed over Northwest Bay of Bengal off North Orissa West Bengal Coast. As a result on 22nd and 23rd September 2011, heavy to very heavy rain was experienced over Brahmani, Baitarani, Budhabalanga and Subarnarekha basin due to the effect of depression over Bay of Bengal. As a result all the rivers of northern Orissa crossed the danger level and remained above danger level for four days.

Rainfall at River Basins

1. River Brahmani

(Rain fall in M.M)

Upper Basin	Place	22nd Sept.	23rd Sept.
	Barkote	52.0	40.4
	Deogarh	63.5	66.0
	Lahunipada		134.4
	Pallahara	80.0	86.0
	Panposh	31.8	136.4
	Rajgangpur	62.8	135.0
	Reamal	46.0	28.0
	Rengali	75.0	60.0
Lower Basin	Altuma	38.2	53.6
	Anugul	23.4	20.4
	Chhendipada	42.2	37.0
	Dhankanal	31.0	68.0
	Hindol	32.0	22.0
	Jenapur	45.0	71.0
	Kamakhyanagar	37.0	48.0
	Naktideul	40.0	31.0
	Sukinda	86.0	
	Talcher	32.8	42.0

2. Baitarani Basin

Place	22nd Sept.	23rd Sept.
Akhuapada	90.0	47.2
Anandpur	83.0	41.4
Champua	121.2	17.4
Chandbali	89.1	12.8
Ghatgaon		106.0
Jajpur	66.0	

Joshipur	115.0	69.0
Keonjhargarh	93.6	193.2
Rajkanika		13.0
Swamppatna	117.8	98.4
Thakurmunda	149.8	53.8

3. Budhabalanga Basin

Place	22nd Sept.	23rd Sept.
Balasore	60.6	15.8
Balimundali	134.4	50.2
Bangirposhi	109.6	16.4
Baripada	100.0	34.0
Bonth	85.0	76.0
Chandanpur	87.4	17.0
Jaipur	92.0	12.4
NH5 Govindpur	70.0	5.0
Nilagiri	80.2	26.3
Soro		32.0
Udala	158.8	11.5

4. Subarnarekha Basin

Place	22nd Sept.	23rd Sept.
Bhograi	64.0	4.0
Fekoghat	122.8	11.2
Ghatsila	23.4	56.2
Jaleswar		8.0
Jamsedpur	30.6	47.7
Jamsolaghat	82.8	17.8
Rairangpur	42.4	38.6
Rajghat	44.2	9.0
Ranchi	20.4	88.6
Tiringi	46.0	66.0

Water Levels

River	Forecast Station	Danger level	Warning level	Water Levels in Meter				
				22.09.11	23.09.11	24.09.11	25.09.11	26.09.11
Brahmani	Jenapur	23.0	22.0	22.90	23.00	23.26	23.76	23.88
Baitarani	Anandpur	38.36	37.45	41.10	40.60	39.35	37.59	36.56
	Akhuapada	17.83		20.13	20.85	19.76	18.43	17.70
Budhabalanga	NH5	8.13	7.21	8.00	8.12	7.38	6.20	4.94
Subarnarekha	Jamsolaghat	49.45		47.70	51.70	51.24	49.04	48.00

Impacts

Sl	District	Blocks Affected	GPs Affected	Villages Affected	ULBs Affected	Population Affected	Human Casualty
1	Angul	7	114	868	0	21975	**1**
2	Balasore	12	124	813	1	441497	**3**
3	Bhadrak	6	83	393	2	391634	**10**
4	Deogarh	2	8	105	0	9000	**0**
5	Dhenkanal	6	66	209	1	70060	**2**
6	Jajpur	10	159	676	1	751686	**9**
7	Keonjhar	13	218	649	4	383670	**4**
8	Kendrapada	6	76	236	1	399921	**7**
9	Mayurbhanj	4	19	74	1	37870	**2**
10	Sundargarh	5	23	37	1	25000	**4**
Total		**71**	**890**	**4060**	**12**	**2532313**	**42**

Assessment of damage and Assistance sought for

1. Ex-gratia Payment to the families of deceased persons

42 persons died due to 2nd phase floods in the State in 2011. The requirement of funds as per revised CRF Norms for payment of ex-gratia assistance to the families of deceased persons for the purpose comes to **Rs 42.00 lakh**.

2. Clothing and utensils for families

About **88686** families whose houses have been fully damaged or severely inundated for a period more than 7 days have been provided with clothing and utensils. The district-wise expenditure for this purpose is given below:

(Rs. in lakh)

Sl.	District	Clothing		Utensils		Total Amount spent
		No. of family	Amount spent @ Rs.1000/- per family	No. of family	Amount spent @ Rs. 1000/- per family	
1	Angul	29578	295.78	29578	295.78	591.56
2	Bhadrak	5000	50.00	5000	50.00	100.00
3	Dhenkanal	507	5.07	507	5.07	10.14
4	Jajpur	12620	126.2	12620	126.2	252.4
5	Keonjhar	35631	356.31	2064	20.64	376.95
6	Kendrapada	5350	53.5	5350	53.5	107.00
	Total	**88686**	**886.86**	**55119**	**551.19**	**1438.05**

3. Gratuitous Relief for families in dire need of immediate sustenance after a calamity

The affected persons who were in dire need of immediate sustenance after the floods were provided with Gratuitous Relief for 7 to 15 days @Rs.20/- per adult per day and @Rs.15/- per child per day. The total expenditure incurred towards providing gratuitous relief comes to **Rs 2000.00 lakh**.

4. Supplementary Nutrition

(Rs. in lakh)

Sl.	District	No. of children and P&L Mother Affected	No. of Days	Amount spent @ Rs.2.00 per child per day
1	Angul	94585	15	28.38
2	Balasore	267704	15	80.31
3	Bhadrak	167287	15	50.19
4	Deogarh	12961	15	3.89
5	Dhenkanal	84633	15	25.39
6	Jajpur	182610	15	54.78
7	Keonjhar	150402	15	45.12
8	Kendrapada	170770	15	51.23
9	Mayurbhanj	72546	15	21.76
10	Sundargarh	72968	15	21.89
Total		**1276466**		**382.94**

5. Cost of de-silting of agricultural land

747.60 hectares of agriculture land have been sand cast due to this flood. An amount of **Rs.44.86 lakh** is required for removal of sand to make the land fit for agriculture purpose.

6. Agriculture input subsidy to farmers where crop loss is 50% and above

An amount of Rs. 7245.52 lakh is required for providing input subsidy to the small and marginal farmers who have sustained crop loss of 50% and above due to the current flood. Similarly, Rs.149.30 lakh is required towards agriculture input subsidy for farmers other than small and marginal farmers. District wise details is at ***Annexure-A***.

7. Replacement of draught animals

46 large animals and **792** small animals have lost lives due to floods. The total expenditure for replacement of these animals comes to **Rs.15.25 lakh.**

8. Provisions of fodder / feed concentrate in the cattle camps

(Rs. in lakh)

Sl. No	Name of the District	No. of cattle camps	No. of large animals affected	Amount spent for providing cattle feed for 15 days @ Rs.20/- per day	No. of small animals affected	Amount spent for providing cattle feed for 15 days @ Rs.10/- per day	Total amount spent for providing cattle feed
1	Angul	16	14870	44.61	7675	17.26875	61.87875
2	Balasore	80	196112	588.336	87686	197.2935	785.6295
3	Bhadrak	52	158070	474.21	40654	91.4715	565.6815
4	Dhenkanal	7	11075	33.225	5987	13.47075	46.69575
5	Jajpur	153	258491	775.473	82999	186.7478	962.2208
6	Keonjhar	58	52137	156.411	25137	56.55825	212.9693
7	Kendrapada	105	95625	286.875	23569	53.03025	339.9053
8	Mayurbhanj	3	11106	33.318	4759	10.70775	44.02575
9	Sundargarh	13	645	1.935	250	0.5625	2.4975
	Total	**487**	**798131**	**2394.393**	**278716**	**627.111**	**3021.504**

9. Assistance to fishermen

(Rs. in lakh)

Sl.	Name of the District	Boat & Net Units fully damaged		Boat & Net Units partially damaged		Total
		No. of Units damaged	Expenditure @Rs.7500	No. of Units damaged	Expenditure @Rs.2500	
1	Deogarh	163	12.225	123	3.075	15.3
2	Dhenkanal	3	0.225	2	0.05	0.275
3	Jajpur	249	18.675	235	5.875	24.55
4	Keonjhar	1	0.075	12	0.3	0.375
5	Kendrapada	165	12.375	112	2.8	15.175
	Total	**581**	**43.575**	**484**	**12.1**	**55.675**

10. (a) Traditional Crafts

52 Artisans belonging to Bhadrak Districts have been affected due to the current floods. Extensive damages have been caused to their equipment. 136 Artisans have also lost their raw materials. An amount of **Rs.3.74 lakh** is required for providing subsidy to them as per the revised CRF Norms.

(b) Handloom Weavers

455 loom equipment and accessories of **455** beneficiaries have been damaged due to this floods and need replacement. An amount of **Rs.18.20 lakh** is required for providing assistance to the beneficiaries as detailed below:

Sl.	Name of the District	No. of benefic -iaries	No. of looms &accessori es fully damaged	Amount required @Rs.2000/-	Set of raw material fully damaged	Amount required @Rs.2000/-	Total
1	Balasore	3	3	0.06	3	0.06	0.12
2	Jajpur	355	355	7.10	355	7.10	14.20
3	Keonjhar	97	97	1.94	97	1.94	3.88
Total		**455**	**455**	**9.1**	**455**	**9.1**	**18.2**

11. Assistance for repair / restoration of damaged houses

17178 houses have been fully damaged and **41397** houses have been severely damaged. **79906** Houses have been partially damaged. This apart, **36013** Huts have also been damaged. An amount of **Rs.4859.15 lakh** is required for providing assistance for repair / restoration of the damaged houses of affected people. The detail expenditure as per revised CRF/SDRF Norms is given in ***Annexure-B.***

12. Emergency supply of drinking water in rural areas and urban areas :

For immediate provision of drinking water to the flood victims 1501700 water pouches have been distributed. Tube wells are being disinfected immediately after receding the flood by the deploying 72 For immediate provision of drinking water to the flood victims 2247000 water pouches have been distributed. Tube wells are being disinfected immediately after receding the flood by the deploying 63 mobile vans. 27 Water Tankers have been engaged to provide safe drinking water to the shelter places. 159 teams are engaged for repair and restoration of drinking water supply systems. mobile vans. 29 Water Tankers have been engaged to provide safe drinking water to the shelter places. 159 teams are engaged for repair and restoration of drinking water supply systems.

Sl No.	Name of the District	Water tanker depl-oyed for 15 days	Amount spent	Water pouch procured	Amount spent	Mobile vans dep-loyed for 15 days	Amount spent	Blea-ching powder procur ed in 25 kg bags	Amount Spent	Total cost
1	Angul	0	0	12500	0.125	2	0.03	29	0.087	0.242
2	Balasore	0	0	103000	1.03	13	0.195	72	0.216	1.441
3	Bhadrak	4	0.08	315000	3.15	14	0.21	345	1.035	4.475
4	Dhenkanal	0	0	16500	0.165	6	0.09	210	0.63	0.885
5	Jajpur	10	0.2	570700	5.707	9	0.135	120	0.36	6.402
6	Keonjhar	15	0.3	67000	0.67	14	0.21	250	0.75	1.93
7	Kendrapada	0	0	417000	4.17	14	0.21	45	0.135	4.515
	Total	**29**	**0.58**	**1501700**	**15.017**	**72**	**1.08**	**1071**	**3.213**	**19.89**

13. Medical Care for cattle & poultry against epidemics:

Vaccination of Livestock in the affected districts have been made to reduce the morbidity and mortality of the livestock. Health and Deworming camps were also conducted to check different contagious and infectious diseases. An amount of **Rs 92.00 lakh** is spent for the purpose

14. Evacuation of affected people:

174874 persons were evacuated by means of hired vehicle to safer places. An amount of **Rs.95.33 lakh** has been spent towards cost of POL and hire charges of vehicle.

15. Hiring of boats for carrying immediate relief and saving life

733 nos of power boats were engaged in relief and rescue operation in the flood-affected Districts. The relief materials were also transported by boats. The affected persons were also evacuated by boats. A sum of **Rs.91.25 lakh** has been spent towards hiring charges and cost of POL etc. for boats.

16. Provision for temporary accommodation, food, clothing and medical care

667 relief camps were also opened to accommodate 266702 people who were evacuated by different means. An amount of **Rs.362.27 lakh** was spent towards cost of providing temporary accommodation, food, clothing and medical cares in the relief camps.

17. Temporary shelter materials

58575 families whose houses have been either washed away or severely damaged were provided with polythene sheets for use as temporary shelter materials. The total amount spent @Rs.1000/- per family is **Rs.585.75 lakh**.

18. Air-dropping of essential supplies: -

Five Helicopters were engaged for ail-dropping of essential commodities for relief operation**.** Approximately **Rs.240.00** lakh is required for payment of bills of helicopters of IAF & Indian Navy.

19. Repair / restoration of immediate nature of the damaged infrastructure in eligible sectors:

i) Roads and Bridges

PWD Roads:

(Rs. in lakh)

Sl No.	Name of the District	No. of breaches	Cost for repair / restoration	Length of road damaged in Km	Cost for immediate repair	No. of culverts damaged	No of culverts washed away	Approx cost for immediate repair of culverts	Total cost
1	Angul	2	1.50	0.30	2.00	0	0	0	3.50
2	Balasore	0	0	0	0	0	0	0	0
3	Bhadrak	7	29.00	117.80	895.00	42	0	283.00	1207.00
4	Deogarh	0	0	0	0	0	0	0	0
5	Dhenkanal	0	0	18.39	98.00	0	0	0	98.00
6	Jajpur	3	70.00	280.48	800.00	19	1	564.00	1434.00
7	Keonjhar	13	105.96	174.28	961.24	46	4	105.00	1172.20
8	Kendrapada	10	150.00	82.78	437.00	13	0	39.00	626.00
9	Mayurbhanj	0	0	72.09	930.60	49	0	160.50	1091.10
10	Sundargarh	0	0	89.00	345.00	3	0	5.00	350.00
	Total	**35**	**356.46**	**835.12**	**4468.84**	**172**	**5**	**1156.5**	**5981.8**

Rural Roads

Sl No.	Name of the District	No. of Roads damaged	No of Breaches	No of CD/ Bridge damaged	Amount Required for immediate restoration
1	Angul	34	2	0	577.00
2	Balasore	156	30	48	1440.00
3	Bhadrak	72	38	18	1778.00
4	Deogarh	5	0	6	125.00
5	Dhenkanal	15	0	10	411.00
6	Jajpur	74	61	33	1426.50
7	Keonjhar	83	75	54	2279.70
8	Kendrapada	25	1	47	592.00
9	Mayurbhanj	36	10	23	467.45
10	Sundargarh	11	14	11	155.00
Total		**511**	**231**	**250**	**9251.65**

Urban Roads

Sl. No.	Name of the ULB	Length of drain damaged (in km)	Cost of imme-iate resto-ation	Length of road damaged (km)	Cost of imme-iate repair	No. of culverts damaged	Cost for imm-diate repair of culvert s	Total cost (Rs. in lakh)
1.	Rourkela	6.7	91.70	11.19	94.80	11	41.50	228
2.	Joda	4.2	40.00	5.15	45.00	8	15.00	100
3.	Anandapur	6.75	89.00	10.30	94.65	10	28.35	212
4.	Baripada			15.00	180.00	7	20.00	200
5.	Jajpur	4.30	67.00	9.65	283.00	9	27.00	377
6.	Vyasanagar	2.30	41.00	15.00	201.45	8	19.55	262
7.	Kamakhyanagar	1.20	35.00	3.00	113.00	3	3.00	151
8.	Pattamundai	2.90	45.00	9.00	84.00	7	21.00	150
9.	Rairangpur	1.61	25.00	2.86	22.00	2	3.00	50
10.	Badbil	3.20	22.00	6.30	25.00	5	3.00	50
Total		**33.16**	**455.7**	**87.45**	**1142.9**	**70**	**181.4**	**1780.00**

Panchayat Roads

4026.169 km of 7457 nos. of Panchayat roads have been damaged due to the floods. These roads are extensively used in rural areas for carrying relief materials during disaster. The total requirement of funds for immediate repair of these roads comes to **Rs.37494.73 lakh.** The details are given below:

Sl	District	Number of Projects	No. of Culverts Damaged	No. of Road Damaged	Road Damaged in Kilometre	No of breach	Length of Breach in meters	Estimated cost
1	Angul	60	6	0	0	0	0	523.95
2	Balasore	1305	29	1276	1249.22	10	17.00	3823.13
3	Bhadrak	1312	48	1282	391.21	0	0	5769.66
4	Deogarh	34	0	33	5.279	0	0	71.00
5	Dhenkanal	93	16	83	86.80	0	0	271.95
6	Jajpur	2944	348	3112	841.86	79	441.0	17758.95
7	Keonjhar	925	444	893	1015.90	0	0	3816.00
8	Kendrapada	600	296	600	369.90	425	3438.0	5136.60
9	Mayurbhanj	42	0	42	19.00	0	0	38.49
10	Sundargarh	74	0	136	47.00	0	0	285.00
Total		**7389**	**1187**	**7457**	**4026.169**	**514**	**3896.0**	**37494.73**

ii. (A). Rural Water Supply:

(Repair/restoration of drinking water sources)

8713 hand pump tube wells have been affected by the current flood in the 7 districts of the States. 1075 Platforms, 128 rural piped water supply projects have been damaged during the flood.

Amount required for disinfection, repair and restoration of damaged tube wells and Piped Water Supply Schemes is detailed below.

1. Amount required for installation damaged tube wells lakhs	Rs.110.60
2. Amount required for construction of raised platform lakhs	Rs.107.50
3. Amount required for restoration rural PWS projects lakhs	Rs.256.00
Total amount required	**Rs. 474.10**

B. Urban Water Supply

Rs.102.86 lakh is required for immediate repair of water supply system in the affected urban areas.

iii) IRRIGATION SECTOR

RIVER AND CANAL EMBANKMENTS

(A) River Embankments

Sl. No.	Name of the Division	Restoration to River/Saline Embankment				
		Breaches			Partial damages	
		No.	Length in Km'	Amount required	No.	Amount required
1	Salandi Canal Division	16	0.574	542.00	164	1466.00
2	Sundargarh Irrigation Division	0	0	0	5	110.00
3	Balasore irrigation Division	5	0.17	20.50	45	1388.50
4	Angul Irrigation Division	0	0	0.00	21	160.00
5	Baitarani Division	8	0.513	264.50	36	1768.55
6	Aul Embankment Division	22	0.765	288.00	45	721.90
7	Jajpur Irrigation Division	67	4.375	1675.80	743	11505.39
8	Jaraka Irrigation Division	29	1.315	980.00	42	3200.00
9	Kendrapada Irrigation Division	0	0	0.00	28	1462.00
	Total	**147**	**7.712**	**3770.80**	**1129**	**21782.34**

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Sl. No.	Name of the Division	Restoration to Canals					Total Amount in lakhs
		Breaches			Partial damages		
		No.	Length in Km'	Amount required	No.	Amount required	
1	Salandi Canal Division	355	3.83	307.00	164	1748.00	4063.00
2	Sundargarh Irrigation Division	0	0	0	0	0	110.00
3	Balasore irrigation Division	0	0	0	0	0	1409.00

4	Angul Irrigation Division	0	0	0	0	0	160.00
5	Baitarani Division	191	6.76	686.10	0	0	2719.15
6	Aul Embankment Division	0	0	0	0	0	1009.90
7	Jajpur Irrigation Division	3	0.03	9.80	229	1489.50	14680.49
8	Jaraka Irrigation Division	1	0.04	23.00	7	90.00	4293.00
9	Kendrapada Irrigation Division	0	0	0	27	638.00	2100.00
Total		**550**	**10.66**	**1025.9**	**427**	**3965.5**	**30544.54**

(B) Minor Irrigation (Flow)

Rs.317.45 lakh is required for immediate repair of damaged Minor Irrigation Projects as detailed below.

(Rs. in Lakh)

Sl No.	Name of the District	No. of projects affected	Amount required for pre-flood condition	Amount required for temporary restoration
1	Balasore	11	150.00	84.15
2	Dhenkanal	11	108.00	24.00
3	Keonjhar	95	706.40	209.30
	Total	**117**	**964.40**	**317.45**

(C) Minor Irrigation (Lift)

Sl	District	No. of L.I. projects damaged	Designated Ayacut (in Hectare)	Amount required for restoration (Rs. in lakh)
1	Angul	193	2895	217.00
2	Balasore	131	2352	185.20
3	Bhadrak	185	2220	471.80
4	Deogarh	0	0	0
5	Dhenkanal	210	3150	267.70
6	Jajpur	458	9112	906.00
7	Keonjhar	174	3130	91.80
8	Kendrapada	277	5996	570.25
9	Mayurbhanj	43	956	34.65
10	Sundargarh	52	1020	55.85
	Total	**1723**	**30831**	**2800.25**

(D) Drainage Systems

Rs.600.00 lakh is required for immediate removal of debris & vegetative materials etc. from 165 drainage systems.

(E) CADA Canals

3 CADA canals in Baitarani command of Jajpur district have been damaged by 2nd Phase flood. An amount of **Rs.150.00 lakh** is required for restoration of the CADA canals.

(iv) COMMUNITY ASSETS

(A) Panchayat Ghars

332 Panchayat ghars have been damaged due to this flood. Besides above 130 nos. of other PRI buildings have been damaged. An amount of **Rs.800.80 lakh** is required for repair of the above buildings. The district wise details are as follows.

PRI Buildings

Sl	District	Number of PRIs Buildings	Amount Required *(Rs. in Lakh)*
1	Angul	3	24.20
2	Balasore	1	1.00
3	Bhadrak	8	56.00
4	Deogarh	1	1.00
5	Dhenkanal	0	0
6	Jajpur	111	210.10
7	Kendrapada	27	46.00
8	Keonjhar	179	459.50
9	Mayurbhanj	0	0
10	Sundergarh	2	3.00
Total		**332**	**800.80**

(B) Other PRI Buildings

Sl	District	Number of Projects	Amount Required (Rs. in Lakh)
1	Deogarh	3	6.00
2	Dhenkanal	2	5.00
3	Jajpur	61	43.85
4	Kendrapada	24	26.32
5	Keonjhar	40	109.50
Total		**130**	**190.67**

(C) Community Tanks

333 Community Tanks have been damaged due to the floods. Hence an amount of **Rs.903.90 lakh** is required for immediate repair of the Community Tanks damaged as detailed below.

Sl	District	Number of Projects	Amount Required (Rs. in Lakh)
1	Dhenkanal	1	10.00
2	Jajpur	102	355.50
3	Keonjhar	122	322.40
4	Kendrapada	108	216.00
Total		**333**	**903.90**

(D) Other community assets

An amount of **Rs.211.00 lakh** is required for repair/restoration of other community assets of Panchayati Raj Department damaged due to current floods 2011.

(E) PHC / CHC Buildings

129 PHC/CHC have been damaged due to the current floods**. Rs.372.50 lakh** is required for immediate repair and restoration of the PHC/CHC buildings.

(Rs. in Lakh)

Sl No.	Name of the District	Amount Required for repair / restoration
1	Bhadrak	163.00
2	Jajpur	136.00
3	Keonjhar	40.00
4	Kendrapada	33.50
Total		**372.50**

(F) Primary School Buildings

Rs.313.35 lakh is required for immediate repair of 160 Primary School buildings damaged due to flood as detailed below

(Rs. in lakh)

Sl. No.	Name of District	No. of the Damaged school	Approx. cost (Rs. in lakhs)
1	Angul	12	32.35
2	Balasore	3	6.00
3	Bhadrak	36	62.50
4	Deogarh	14	27.00
5	Dhenkanal	2	3.00
6	Jajpur	18	32.50
7	Keonjhar	52	103.00
8	Kendrapada	23	47.00
Total		**160**	**313.35**

(V) Repair and restoration of power supply

District-wise equipment damage - needs replacement to restore power supply

Sl.	District	No. of primary sub-stations damaged				Dist. Trf. damaged	33 KV VCB	11 KV VCB	Station transfer damaged	8/9 mtr. Poles damaged
		8MVA	5MVA	3.15 MVA	1.6 MVA					
1.	Balasore	0	1	0	0	14	1	4	1	0
2.	Bhadrak	0	1	1	2	42	3	5	2	0
3.	Jajpur	0	2	2	1	57	4	7	2	0
4.	Keonjhar	1	1	0	0	27	1	2	1	0
5.	Kendrapara	0	0	0	0	0	0	0	0	603
	Total	**1**	**5**	**3**	**3**	**146**	**9**	**18**	**6**	**603**

Contd.....

Sl.	District	11 KV line damaged in Km.	LT. line damaged	DT damaged	AB switch damaged	Amount required for restoration
1.	Balasore	**0**	**0**	**0**	**0**	**86.00**
2.	Bhadrak	**0**	**0**	**0**	**0**	**202.00**
3.	Jajpur	**0**	**0**	**0**	**0**	**288.50**
4.	Keonjhar	**0**	**0**	**0**	**0**	**147.50**
5.	Kendrapara	**18.3**	**37.4**	**87**	**49**	**209.95**
	Total	**18.3**	**37.4**	**87**	**49**	**933.50**

Replacement of damage medical equipment and lost medicines: -

Medical equipments and medicines amounting to **Rs.85.50 lakh** of Govt. Hospitals in Keonjhar & Jajpur district have been damaged and lost due to this flood. Hence Rs.85.50 lakh is required for replacement of these damaged medical equipment and lost medicines.

Draining of flood water in affected areas:

Due to submergence of vast area under 12 ULBs in flood water for a longer period, it was necessary to prioritise the work of dewatering, sludge removal and sanitation measures towards Hygienic condition. **Rs.352.57 lakh** has been spent for the above purpose.

Cost of Search and Rescue measures:

Ten ODRAF units were engaged for search and rescue operation in the flood affected areas. An amount of **Rs.22.00 lakh** has been spent for the purpose.

Status of expenditure from SDRF /NDRF Account

Year- 2011
State:- Orissa

SDRF Account -2011 – Orissa *[As on 29.09.2011]*

[Rs. in crore]

1	Opening balance in CRF account (both CRF and NCCF) as on 01.04.2011	22.49
2	CRF releases during the year 2011-2012 (Central & State share)	
	# 1st Installment of current year [State + Central]	205.580
	# 2nd Installment of current year, if any[State + Central]	Nil
	# Advance Contribution for 2012-13 (Centre+State)	Nil
3	Interest accrued on investment made out of SDRF	Nil
4	NDRF releases during the year 2011-12 if any	Nil
5	Total funds available in SDRF Account (1+2+3)	**228.07**
6	Expenditure incurred on calamities other than floods during 2011-12	
	# Avalanches	0.00
	# Cyclone	0.38
	# Cloud Burst	0.00
	# Drought	88.62
	# Earthquake / Tsunami	0.00
	# Fire	1.78
	# Hailstorm	0.38
	# Landslides	0.00
	# Pest Attacks	0.00
	Sub-total	**91.16**
7	Expenditure incurred on training during 2011-2012	0.00
8	Expenditure incurred upto 10% on procurement of search and rescue equipments etc. during 2011-2012	35.37
9	Expenditure incurred on instant heavy rains/ floods of September -2011.	282.06
10	Total expenditure incurred on all calamities (6+7+8 +9)	**408.59**
11	Balance available in SDRF account (5-10)	**Nil**

ABSTRACT OF ASSISTANCE SOUGHT FOR

Sl	Item	Amount required/spent *[Rs. in crore]*		
		1st phase	2nd phase	Total
1	Ex-gratia for loss of life	0.45	0.42	0.87
2	Clothing & Utensils	4.31	14.38	18.69
3	GR kind for dire need of sustenance	35.00	20.00	55.00
4	Supplementary Nutrition	5.04	3.83	8.87
5	Sand cast subsidy	0.48	0.45	0.93
6	Agriculture input subsidy-SMF	30.76	72.46	103.22
7	Agriculture input subsidy-other than SMF	1.59	1.49	3.08
8	Input subsidy-Sericulture farmers	0.04	0	0.04
9	Replacement of draught animals	0.25	0.15	0.4
10	Provision of fodder	32.67	30.21	62.88
11	Assistance to fisherman	1.22	0.56	1.78
12	Input subsidy-Fish farm	0.46	0	0.46
13	Assistance for Artisan-Traditional crafts	1.28	0.04	1.32
14	Assistance for Handloom weavers	0.61	0.18	0.79
15	HB assistance	26.72	48.59	75.31
16	Emergence supply of drinking water	1.20	0.20	1.40
17	Human Health care	7.78	0	7.78
18	Cattle Health Care	1.25	0.92	2.17
19	Cost of evacuation	1.47	0.95	2.42
20	Hiring of boat	1.6	0.91	2.51
21	Temporary accommodation	3.14	3.62	6.76
22	Temporary shelter	12.13	5.86	17.99
23	Air dropping	1.80	2.40	4.20
24	Repair of PWD Roads	226.07	59.82	285.89
25	Repair of Rural Roads	363.66	92.52	456.18
26	Repair of Urban Roads	43.00	17.80	60.80

27	Repair of Panchayat Roads	425	374.95	799.95
29	Repair of Rural Water Supply System	7.79	4.74	12.53
30	Repair of Urban Water Supply System	9.5	1.03	10.53
31	Repair of River/canal embankments	617.17	305.45	922.62
32	Repair of CADA Canals	30.54	1.50	32.04
33	Repair of Minor Irrigation (Flow)	7.02	3.17	10.19
34	Repair of Minor Irrigation (Lift)	39.55	28.00	67.55
35	Clearance of Drainage channels	34.30	6.00	40.30
36	Repair of Panchayat Ghars	11.21	9.91	21.12
37	Repair of PHC/CHC	3.16	3.73	6.89
38	Repair of Primary School Buildings	86.01	3.13	89.14
39	Repair of community tanks/other community assets	6.05	11.15	17.20
40	Repair of community assets of ULBs	12.00	0	12.00
41	Restoration of Power supply	15.56	9.34	24.9
42	Replacement of damaged Medical equipments	0.07	0.85	0.92
43	Operational cost of Ambulance service	1.01	0	1.01
44	Draining of Flood water	10.5	3.53	14.03
45	Cost of search & Rescue measure	0.50	0.22	0.72
Grand Total		**2120.92**	**1144.46**	**3265.38**

*Thus by this Memorandum the State Government seeks an Central assistance of **Rs.3265.38 crore** out NDRF to complete the process of relief and restoration measures caused due to both phases of severe floods 2011.*

Annexure-A

Calculation of assistance for agricultural input subsidy-SMF

(Rs. in lakh)

Sl.	Districts	Total Agricultural area Affected [in Hect.]	Total agricultural area where croploss is > 50%	Crop loss 50% & above			Assistance sought for			Total
				Irrigated [in hect.]	Rainfed [in hect.]	Perennial	Irrigated @Rs.4000/- per hectare	Rainfed @Rs.2000/- per hectare	Perennial @ Rs.6000/ per Hect.	
1	Angul	12950	11032	6015	5017	0	240.6	100.34	0	340.94
2	Balasore	46316	44002	21120	22881	0	844.8	457.62	0	1302.42
3	Bhadrak	60163	53920	19888	34032	0	795.52	680.64	0	1476.16
4	Deogarh	225	84	0	84	0	0	1.68	0	1.68
5	Dhenkanal	7713	5795	600	3195	120	24	63.9	7.2	95.1
6	Jajpur	66855	64134	20089	40951	100	803.56	819.02	6.00	1628.58
7	Keonjhar	38250	35842	22921	2530	8351	916.84	50.6	501.06	1468.5
8	Kendrapara	18972	18972	18972	0	0	758.88	0	0	758.88
9	Sundargarh	9045	8663	0	8663	0	0	173.26	0	173.26
	Total	**260489**	**242444**	**109605**	**117353**	**8571**	**4384.2**	**2347.06**	**514.26**	**7245.52**

Calculation of assistance for agricultural input subsidy- Other than SMF

(Rs. in lakh)

Sl.	Districts	Total Agricultural area Affected [in Hect.]	Total agricultural area where croploss is > 50%	Crop loss 50% & above			Assistance sought for			Total
				Irrigated [in hect.]	Rainfed [in hect.]	Perennial	Irrigated @Rs.4000/- per hectare	Rainfed @Rs.2000/- per hectare	Perennial @ Rs.6000/ per Hect.	
1	Dhenkanal	7713	5795	35	20	0	1.4	0.4	0	1.8
2	Jajpur	66855	64134	2111	883	0	84.44	17.66	0	102.10
3	Keonjhar	28250	25842	230	1810	0	9.2	36.2	0	45.4
	Total	**102818**	**95771**	**2376**	**2713**	**0**	**95.04**	**54.26**	**0**	**149.3**

Annexure-B

Assistance sought for repair /restoration of damaged houses

(Rs. in Lakh)

Sl.	District	Fully Damaged				Severely Damaged				Partially		Huts		TOTAL
		Pucca Nos	Amount @ Rs.35000/-	Kutcha Nos.	Amount @ Rs.10000/-	Pucca Nos.	Amount @ Rs.5000/-	Kutcha Nos.	Amount @ Rs.2500/-	Nos.	Amount @ Rs.1500/-	Nos.	Amount @ Rs.2000/-	
1	Angul	0	0	1755	175.5	2	0.1	1978	49.45	3998	59.97	0	0	285.02
2	Balasore	0	0	204	20.4	0	0	348	8.7	1078	16.17	234	4.68	49.95
3	Bhadrak	0	0	5000	500	200	10	15100	377.5	18000	270	2500	50	1207.5
4	Deogarh	0	0	26	2.6	0	0	0	0	65	0.975	0	0	3.575
5	Dhenkanal	0	0	8	0.8	0	0	23	0.575	507	7.605	436	8.72	17.7
6	Jajpur	120	42	4000	400	500	25	8000	200	20000	300	25000	500	1467
7	Keonjhar	65	22.75	3522	352.2	406	20.3	10672	266.8	22214	333.21	793	15.86	1011.12
8	Kendrapara	385	134.75	1820	182	695	34.75	3150	78.75	11900	178.5	7050	141	749.75
9	Sundargarh	0	0	273	27.3		0	323	8.075	2144	32.16	0	0	67.535
	TOTAL	**570**	**199.5**	**16608**	**1660.8**	**1803**	**90.15**	**39594**	**989.85**	**79906**	**1198.59**	**36013**	**720.26**	**4859.15**