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Government of India
Ministry of Home Affairs
Disaster Management Division
CONTROL ROOM
<http://ndmindia.nic.in>

Flood Situation Report – 2002
(Based on the reports received from concerned Departments/State Governments)
(South West Monsoon – 2002)

Flood situation:

- Andhra Pradesh, Assam, Bihar and Manipur reeling under flood.
- Cloudburst/ Landslides in Uttaranchal.
- In Arunachal Pradesh, Gujarat, Himachal Pradesh, Kerala, Madhya Pradesh, Maharashtra, UP and West Bengal floods have receded.

India Meteorological Department:

June 1 to 28 August , 2002:

- ◆ 1 sub-division received excess rainfall out of 36 meteorological sub-divisions, 16 sub-divisions normal, 16 sub-divisions deficient and 3 scanty rainfall.

Central Water Commission

(As on 28-08- 2002):

Unprecedented flood situation: NIL

High Flood situation: NIL

Moderate Flood situation:

- In Assam, River Beki at Road Bridge was flowing above danger level with **rising** trend.
- In Bihar, River **Kosi** at Baltara and Kusela, River **Bagmati** at Benibad and River Ganga at Colgong were flowing above danger level with **falling** trend.
- In Uttar Pradesh River **Ghaghra** at Turtipar and Ayodhya were flowing above danger level with **falling** trend.
- In West Bengal, River **Ganga** at Farakka was flowing above danger level with **falling** trend.

National Remote Sensing Agency

(As on 12-08- 2002):

- ◆ The National Remote Sensing Agency(NRSA) sends regular flood maps along with data obtained through Radar satellite/ microwave satellite for assessing the intensity of flood situation in various States.
- ◆ Near Real Time Flood Mapping using Satellite remote Sensing RADARST data of 26th & 28th July 2002 was procured and analysed. Flood inundation map using and data transmitted to the **Assam** Remote Space Application Centre(ARSAC) , Guwahti and NESAC, Shillong for dissemination to user Departments. As per the NRSA, inundation impact was estimated from the satellite data of 31st July, 2002, the inundation in Dibrugarh, Dhemaji, Sibsagar, Jorhat, Lakhimpur, Golaghat, Nowgong, Marigaon, Darrang, Sonitpur,

Cachar, Karimganj and Hailakandi Districts was **1,66,493** hectares. 51298 hectares crop area submerged and 974 villages marooned in 5 Districts.

- ◆ Flood inundation map using 8th August 2002 and data transmitted to the **Bihar** Remote Sensing Application Centre(BRSAC), for dissemination to user Departments. As per the NRSA, inundation impact was estimated from the satellite data of 8th August, 2002, the inundation in Darbhanga, Madhubani, Muzaffarpur, Sitamarhi, Supaul, Samastipur, Begusarai, Madhepura, Katihar, Purnia, Khagariya, Bhagalpur and Saharsa Districts was **2,71,143** hectares.

Reports from States/UTs

ANDHRA PRADESH

(As on 27.08.2002)

There was a media report (Star News Channel) about the floods in some parts of the State of Andhra Pradesh. The office of the Commissioner for Relief, Government of Andhra Pradesh (Assistant Commissioner – Relief) was contacted for seeking factual position. It was informed that 7 persons have lost their lives due to floods in 3 districts viz. Adilabad, Khammam and Karimnagar. As per preliminary reports, 800 houses (100 fully and 700 partly) have been damaged. The State Government is taking necessary relief operations including assistance for repair of houses. Government of Andhra Pradesh will be sending a report shortly, after receiving detailed information from the district authorities.

ASSAM

(As on 19-08- 2002):

According to the report of the State Government 22 districts were affected by heavy rains and floods, these are Kamrup, Nalbari, Barpeta, Darrang, Dhemaji, Dhubri, Golpara, Jorhat, Morigaon, Sonitpur, Tinsukia, Dibrugarh, Sibsagar, Golaghat, Nagaon, Karimganj, Kokrajhar, Lakhimpur, Bongaigaon, Cachar, Hailkandi and Arbi Anglong. **Overall flood situation in all the affected districts is gradually improving.** Rail and Road communication from Dhemaji to other parts of the country still remain cut off for 48 days in succession. The affected people are still shelter in school building/namghar and in other public institutions. In Bokajam subdivision of Karbi Anglong district flood situation was remains unchanged. The State Government is taking necessary relief measures including deployment of number of country/motor boats (about 358) for rescue & relief work, distribution of essential commodities like rice, dal, salt and chira in the affected areas. Gratuitous relief of Rs. 5.30 corers sanctioned so far. Army pressed into service to assist Civil Authorities in rescue & relief operations. Health centers are functioning and 379 Relief camps opened for 88542 inmates. NH 52 beyond Lakhimpur is affected by flood. Rail and Road traffic disrupted in some stretches of the State. In Bilasipara sub-division, NH 31 has been opened for traffic. No further status report has been received from the State Government.

ARUNACHAL PRADESH

(As on 27.08.2002)

As per report received from the State Government out of 15 , 14 districts affected by flash flood/landslide during June and July, 2002. About 20,000 population affected and 7 houses damaged. 11 human lives lost including 7 Army personals and 20 cattle lost. Estimated value of damage to public properties is Rs. 34.66 crore.

BIHAR

(As on 30-08- 2002):

As per information received from the State Government, 24 Districts viz. Sitamarhi, Nalanda, Muzaffarpur, Darbhanga, Patna, Katihar, E. Champaran, W. Champaran, Sheohar, Gopalganj, Smastipur, Madhubani, Saharsa Supaul, Shekhpura, Siwan, Araria, Kishanganj, Purnea, Begusarai, Madhepura, Saran, Khagaria and Lakhisarai were affected by flood. The State Government has deployed 7013 country boats and distributed essential commodities like wheat, readymade food, matchboxes, candles, cash dole of Rs. 666.27 lakh, Rs. 86.54 lakh cash for chana etc., and 79583 liters Kerosene Oil among affected persons. 550 Health centers, 279 Veterinary centers and 723 Relief camps were functioning. 379049 meters polythene sheets distributed. 29397 packets have been distributed/ air dropped by Army helicopters, 154744 packets by military boats & 1918.15 qtl. other materials in Madhubani, Sheohar and Darbhanga.

KERALA

(As on 24.8.2002)

As per information received from the State Government 14 districts has been affected due to heavy rains. 23162 population affected of 775 villages and 2168 families affected. 26 human lives lost, 42 persons injured and 8 persons missing. 273 houses fully damaged and 2035 houses partially damaged. 214 families evacuated and 21 number of relief camps was opened out of these 16 camps are still continuing. .

MADHYA PRADESH

(As on 21.08.2002)

According to report received from the State Government, Dam Jamuniya located in Katangi Block of Balaghat District has washed away in the morning of 20th Aug'02, inundating 10 villages. About 8 to 10 thousand people were shifted to relief camps. The State Government made all necessary arrangements including food. About 200 animals and 4 persons are missing. Further, over 450 houses have been damaged. District authorities have deployed medical teams both for human being and animals. As per latest information received on telephone on 22nd Aug'02, the people staying in relief camps are now in the process of going back to their homes. The situation is now almost normal. No further status report has been received from the State Government.

MANIPUR

(As on 27.08.2002)

State Government of Manipur has informed that due to incessant heavy rains since 8th August, 2002 large areas in the four valley districts have been seriously affected by floods from 11th August, 2002. Due to floods approximately 42,000 ha. of Paddy crop and 6552 ha. under pisciculture have been severely affected. 30,024 houses, 1,09, 615 lakh families affected by this recent flood. 2 persons had lost their lives. The State Government is proposing to provide immediate relief to the affected families by way of distributing of Rice, Dal, Salt, Drinking Water and provision of Medical coverage. An expenditure of Rs. 331.55 lakh has been incurred on relief operation so far, by the State Government.

UTTAR PRADESH

(As 17.08.2002)

As per information received from the State Government, 87 villages of 4 districts of the State have been affected due to heavy rains, lighting etc. About 1.07 lakh population affected, 310 fully and 600 partially houses damaged. 5 human lives and 15 cattle lost. 255 country boats deployed.

UTTRANCHAL

(As on 19-08- 2002):

As per information received from the State Government, due to Cloudburst on 10th/11th August, 2002, 29 humans lives lost (including 1 person from relief team) at Tehsil Ghansyali in District Tehri. 5 human lives lost due to landslide in District Uttarkashi at Tahsil Bhatwari and Dunda. Rescue and relief operations are being taken and medical facilities provided to the wounded persons. 27 persons were reported injured, out of this 10 persons were referred to the Dehradun/ Narendra Nagar hospitals for treatment. The rest injured persons are being treated in the affected villages by the medical teams.

Teams consisting of District Magistrate, Superintendent of Police, Chief Development Officer, Divisional Forest Officers and other Divisional officers had been deputed for assessment of damage. All the pedestrian roads has been restored in all five affected villages. Water and electricity supply has been restored but elect supply will take time to restore in Anguda village. 35 km long district panchayat 11 roads and five small bridges damage. Out of 22 damaged water resources 11 resource temporary restored. In the affected villages 30 houses fully and 124 partially damaged, 61 animals/cattles lost and 38 injured. Gratuitous relief distributed among the affected people, so far Dal 3.53 qtl., Sugar 3.53 qtl. Gur 1.53 qtl, kerosene oil 880 litter, candles 1765, tripal 234, tent 32 and blankets 248 has been distributed. District collector Uttarkashi has informed that in 33 villages 327 families, 85 houses fully and 265 partially damaged due to heavy rains and landslides.

Latest status report has not been received from the State Government.

WEST BENGAL

(As on 19.08.2002)

As per the information received from the State Government, districts of Jalpaiguri, Cooch Behar and Darjeeling were affected due to Floods and Landslides from 19th to 29th July, 2002, affecting about 26,000 ha crop area, 3.07 lakh population and 17584 houses in 617 villages besides loss of 4 persons. Erosion in the river banks in Jalpaiguri & Cooch Behar districts continues unabated. River Jaldhaka is changing its course threatening some villages in Jalpaiguri district. Latest status is awaited from the State Government.

From Central Departments:

Central efforts

- Ministry of Home Affairs is coordinating the central response as a nodal Ministry.
- Union Minister of Defence and Minister of State (Home) had made an aerial survey of flood affected areas of the Bihar on 2nd August 2002 to assess the situation.
- The Ministry of Defence had provided Army Columns to the flood affected States which carried out the rescue and relief work, details of which are given below:

(Upto 22nd August,02)

| | Assam * | Bihar | Manipur |
|------------------------------|---------|-------|---------|
| Persons evacuated | 6658 | 3954 | 472 |
| Med. Aid provided to persons | 2530 | 5898 | 1831 |
| Rations(Tons) | 13.9 | 80.4 | |
| Food packets distributed | 1000 | 43463 | |

* No fresh inputs

Ministry of Defence has intimated on 26th August, 2002 that the status report is being discontinued since relief operation was localized.

- The Ministry of Health was requested by MHA to take necessary action to prevent outbreak of epidemic. One Medical team each in Assam and Bihar has been deputed by M/o Health to advise State authorities on public health measures, preventive measures including supply of medicines to stop danger of any epidemic. These teams have visited during first fortnight of August, 2002. The report of the team which visited Bihar has been received by the Ministry of Health. The team was of the view that although State Government is alert and the situation appears to be under control, there is a potential risk of outbreak of water borne & vector borne diseases. Report of the Team which visited Assam is still awaited by the Ministry of Health. On the request of State Government of Assam, Ministry of Health had supplied 20 lakhs Halogen tablets through their Central Government Medical Stores Depot, Kolkata on credit payment basis. Ministry of Health has also supplied 5,000 vials of Anti-Snake Venom to the Government of Bihar on their request. (position as on 22nd August,2002). Latest status is awaited.
- M/o Railways has been requested to take necessary action for repair of the damage and flow of traffic in the States of Assam, Bihar and West Bengal. M/o Railway has been intimated that as on date normal traffic has been restored in all the Division affected by flood till recently.
- Ministry of Road Transport & Highways and Boarder Road Organisation have also been requested to take necessary action for repair of the damage and flow of traffic in the States of Assam, Bihar and West Bengal. The status is awaited from the Boarder Road Organisation
- Ministry of Road Transport & Highways has informed (as on 8th August, 2002) that some of the specific flood damage reported and remedial action has been taken as given below:-
 - National Highway 60 - Temporary measures to restore traffic have already been taken
 - National Highway 55 - Temporary restoration measure have already been taken. Rail cum road bridge across Panchanai traffic was suspended and the approach was repaired. Traffic has been restored.
 - National Highway 31 – Traffic was temporarily diverted and the breach has been closed. Traffic has been restored. This section has been entrusted to the NHAI for development to 4-lane highway as part of the East-West Corridor. Latest status report is awaited.

- A Central Team from M/o Water Resources visited the flood-affected areas of Assam on 1 to 2nd August 2002. Team has recommended a number of palliative measures to be carried out on emergent basis to scale down the further damages and suggested immediate engineering steps to supplement the relief measures, already initiated by the State Government.
- The State Governments of Assam and Bihar have submitted memoranda seeking Central assistance from National Calamity Contingency Fund (NCCF). An Inter-Ministerial Central Team visited Assam from 20th to 23rd August, 2002 to assess the damage and the requirement of funds for relief and rehabilitation operations. Another Inter-Ministerial Central Team visited Bihar from 22nd to 24th August, 2002 for the same purpose. Further action will be taken as per laid down procedure.
- Second installment of Central share of Calamity Relief Fund (CRF) for the year 2002-03, amounting to Rs. 41.96 crore (Assam) and Rs. 27.685 crore (Bihar) have been released in advance to the States of Assam and Bihar.
- Government of Manipur has requested for deputation of Central Team to assess the flood situation and requirements of funds. State Government is being advised to submit a memorandum.

□ **State-wise information on damage is at ANNEXURE.**

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Damage due to Cyclone, Heavy Rains & Flood during – South- West Monsoon, 2002

(Provisional, As on 2-09-2002)

| S.No. | States/UT's | Calamity | Total Districts (No.) | | Affected | | | | Damage | | | | | Lives lost | | Remarks |
|-------|-------------------|----------|-----------------------|----------------------|----------|--------------------------|----------------------|--------------------------|--|--------------|---|--|-------------|---------------|------|-----------|
| | | | Districts (No.) | Talukas/Blocks/Mpls. | Villages | Total Area (in lakh Ha.) | Population (in lakh) | Crops area (in lakh Ha.) | Estimated value of crops (Rs. in crores) | Houses (No.) | Estimated value of houses (Rs. in crores) | Estimated value of Public properties (Rs. in Crores) | Human (No.) | Cattles (No.) | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1 | Andhra Pradesh | HR | NR | 3 | NR | NR | NR | NR | NR | NR | 800 | NR | NR | 7 | | |
| 2 | Arunachal Pradesh | FF/L | 15 | 14 | NR | 75 | 0.20 | NR | 0.1 | 0.65 | 7 | 0.06 | 34.66 | 11 | 20 | |
| 3 | Assam | HR/L | 23 | 22 | NR | 6560 | 57.08 | 8.37 | 3.3 | NR | 19827 | NR | NR | 41 | 482 | |
| 4 | Bihar | HR | 38 | 24 | 203 | 8155 | 155.98 | 18.45 | 8.10 | 396.37 | 392511 | 449.25 | 296.00 | 357 | 1366 | |
| 5 | Gujarat | HR | 25 | 10 | 21 | 129 | 6.5 | NR | NR | NR | 389 | NR | NR | 73 | 555 | |
| 6 | Himachal Pradesh | HR/L | 12 | 1 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 3 missing |
| 7 | Kerala | HR/F/L | 14 | 14 | NR | 775 | 0.23 | NR | NR | 1.57 | 2308 | 1.09 | 0.01 | 26 | NR | 8 missing |
| 8 | Madhya Pradesh | HR | 45 | 1 | NR | 2 | NR | NR | NR | NR | NR | NR | NR | 4 | NR | 7 missing |
| 9 | | HR/F | NR | 4 | NR | NR | NR | NR | 0.49 | NR | 30024 | NR | NR | 2 | NR | |
| 10 | Maharashtra | HR/L | 35 | 1 | NR | 311 | NR | NR | NR | NR | 6466 | NR | 149.23 | 103 | 593 | |
| 11 | Uttar Pradesh | HR | 70 | 4 | NR | 87 | 1.07 | 0.23 | 0.15 | NR | 910 | NR | NR | 5 | 15 | |
| 12 | Uttaranchal | HR/L | 13 | 2 | 2 | 50 | 0.03 | Neg | Neg | NR | 541 | NR | NR | 33 | 87 | |
| 13 | West Bengal | HR/L | NR | 3 | 22 | 617 | 3.07 | NR | 0.26 | 27.62 | 17584 | 2.31 | 25.64 | 4 | NR | |
| | TOTAL :- | | | 103 | | 16761 | | | | | 471367 | | | 666 | 3118 | |

Note: F - Flood, FF- Flash Flood, L - Landslide, HR - Heavy Rains, C – Cyclone, NR - Not Reported, Neg.- Negligible
