



सत्यमेव जयते

**Government of Tripura
Revenue Department**

MEMORANDUM

to the

Government of India

**on Damages caused by
Floods, Cyclones, Landslides and
Lightning in Tripura during 2017-18**

**Request for sanctioning Additional
Central Assistance (ACA) from
Ministry of Home Affairs (MHA),
Government of India for Relief,
Restoration and Rehabilitation of
Damaged Public Properties**

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Executive Summary:

Tripura is a small and landlocked State but highly vulnerable to natural disasters. The frequency and severity of natural hazards is increasing day by day. Due to extreme weather events during August (11th & 12th) and October (20th and 21st), 2017 caused catastrophic floods, lightning and landslides in Tripura which caused extensive damages to the lives and properties in the State. West Tripura District was most affected. This was the first time that the Howrah river overflowed in Agartala city which was unprecedented in flood hazard in Tripura. Urban flooding was severely affected in the State. Common people in urban areas particularly in Agartala & some other urban centres suffered a lot. As the event was catastrophic, it took toll on the loss to people in terms of houses, household Articles, livelihood loss as well as extensive damage to the infrastructure of the state. The State and the district administrations were fully engaged for disaster response process. Immediate flood rescue and relief operation was made by involving local trained quick response teams and NDRF.

2. Due to frequent natural disasters, the State Government used State Disaster Response Fund (SDRF) available for the purpose. But the damages incurred in last catastrophic events has crossed the SDRF allocation and till date only small part of assistance for the infrastructure losses (Roads, Power, Embankment etc) reported by the Departments could be provided because of paucity of fund. Similarly losses to crop, horticulture, fisheries etc could not be compensated fully for want of fund. Hence, there is a need of additional requirements of the fund from Government of India. However, the sector wise damage cost is as follows:

Sl. No.	Particulars	Amount (Rs. In lakh)
1	Life loss	68.00
2	Housing damage	2054.92
3	Relief expenditure	469.74
4	Roads & bridges	3245.33
5	Water Resource	2555.4

6	Agriculture & Horticulture	1438.77
7	Fisheries	4845.13
8	Roads (UD)	346.42
9	Drinking water scheme	51
10	Power	3563.19
11	Cattle	33.33
12	Education sector	27.48
Total		18698.71

3. The total requirement of fund for meeting the damages incurred is Rs.18698.71lakh. The maximum damage incurred in fisheries, power and infrastructure sectors which require immediate restoration. Other sectors such as water resources and housing also affected very badly which requires immediate supports for restoration.

4. The affected people cannot wait for long to get their compensation. The State has badly affected just starting of monsoon and there are possibilities to face more flood like situations. If immediate restoration and rehabilitation are not done, the situation will be aggravated more in coming days.

5. Considering the above facts, the Memorandum has been prepared and submitted to Ministry of Home Affairs, Government of India for releasing required fund of Rs.18698.71 lakh to Government of Tripura so that the affected people of state can come out of the sufferings of the natural disasters and damaged infrastructure of the state is restored to some extent.

I. State Profile:

1. Tripura was a princely and landlocked State till it acceded to the Union of India on 15th October, 1949. It became a Union Territory on 18th July, 1963 and acquired Statehood on 21st January, 1972. The State is sub-divided into 8 Districts with 23 Sub-divisions and 58 Development Blocks. The State is also having a Tripura Tribal Area Autonomous District Council (TTAADC) under the Sixth Schedule of Constitution covering predominantly tribal areas of the State. The administrative divisions in the State is given as below:

Table-1

DISTRICT	SUB DIVISION	BLOCK
West Tripura	Sadar	Dukli
	Mohanpur	Mohanpur
		Bamutia
		Lefunga
		Hezamara
	Jirania	Jirania
		Old Agartala
		Mandawi
		Belbari
	Sepahijala	Bishalgarh
Charilam		
Sonamura		Kathalia
		Boxanagar
		Nalchar
		Mohanbhog
Jampuijala		Jampuijala
Gomati	Udaipur	Matabari
		Kakraban
		Tepania
		Killa
	Amarpur	Ompi
		Amarpur
	Karbook	Karbook
		Silachari
South Tripura	Santir Bazar	Bagafa
		Julaibari
	Belonia	Hrishyamukh
		Rajnagar
		Bharat Chandra
	Sabroom	Satchand
		Rupaichari
		Puangbari

North Tripura	Dharmanagar	Kadamtala
		Kalachara
		Jubaraj Nagar
	Kanchanpur	Jampuihill
		Lal juri
		Dasda
Panisagar	Panisagar	
	Damchara	
Unakoti	Kailasahar	Gournagar
		Chandipur
	Kumarghat	Kumarghat
		Pecharthal
Khowai	Teliamura	Teliamura
		Mungiakami
		Kalyanpur
	Khowai	Khowai
		Tulashikhar
		Padmabil
Dhalai	Ambassa	Ambassa
		Ganganagar
	Kamalpur	Salema
		Durga Chwomuhani
	Gandachara	Damburnagar
		Raisa Bari
	LT Valley	Manu
Chawmanu		
8	23	58

2. The State has a geographical area of 10,492 sq. kms accounting for 0.342 percent of the total area of the country. It is the second smallest State in the North-East and the third smallest State in the country after Goa and Sikkim. The State terrain is predominantly hilly. The State has six hill ranges running North to South with the plain lands located in between the ranges. About 59.98% of the total area of the State is classified as forest. The State has 6(six) major rivers though none of them is perennial in nature. The State is located in bio-geographic zone of 9B-North East hills and possesses an extreme biodiversity with rich flora and fauna with a large variety of species of mammals and fish.
3. The State Tripura is located between Latitude 23⁰45' North and Longitude 90⁰30' East. Tripura is a landlocked State. Tripura is a landlocked State. The total length of its border is 1018 km. It is bound by Bangladesh on three sides covering 856 km of

its total border. It is connected with the mainland through Assam over a small strip of border of 53 km characterized with difficult terrain.

II. Vulnerability profile of the State:

1. Tripura is vulnerable to Earthquakes, Floods, Landslides, Cyclones, extended dry spells and other natural and human induced disasters. The State is very vulnerable to earthquakes as it is situated on Seismic Zone-V and has higher probability of occurrence of big earthquakes measuring Richter scale 8 and more. The State has witnessed the great earthquakes in 1897 and 1950 measuring Richter scale above 8. During 1897 earthquake, the Ujjayanta Palace in Agartala was fully damaged. In recent past, the State also witnessed a moderate earthquake of magnitude of 5.7 on the Richter scale with epicenter in Dhalai district on 3rd January, 2017. Due to this, 7263 houses were damaged, more than 3000 buildings and houses partially affected by developing cracks in entire State. The State Govt. spent an amount of Rs.22.00 Crore for providing compensation to the affected families.
2. Floods are recurrent and have potential for disaster in the State. They occur every year during normal monsoon season and cause temporary floods in valley and plain-lands, and urban flooding in Agartala and other ULBs. However due to apparent accentuated climate change risks, the floods are occurring beyond monsoon season. In last two years, the State has witnessed six spells of floods which caused loss of lives, damage to properties. Due to these, 20 persons died, 28 got injured, 34111 houses were damaged (fully & severely-9460 and partly-24651), 463 relief camps were opened in which 36,233 families and 1,27,360 persons were sheltered in the camps. Immediately, the State and District Administrations responded to the situation by rescuing people, providing immediate relief and compensation and restoration of damaged utilities. Total estimate to the damaged properties is more than Rs.500.00 Crores.
3. So far as Cyclone vulnerability is concerned, wind speed in the State can go upto 55m/s (198km/h) which are occasionally reached when cyclonic winds reach the State after crossing Bangladesh. It also affects the State during “Kal Baishakhi” (April-May) of every year. Damage to the houses, infrastructures such as power, roads and bridges have been reported as very high besides damages to the agriculture and forest sectors. Tripura also suffers landslides during monsoon specially on the national highway- the life line of Tripura. Among all probable

hazards, Earthquake threat is more to all communities in Tripura. The hazard profile of the State is shown as below:

District	Earthquakes	Floods	Cyclones	Landslides	Fires	Drought / Dry Spells	Thunderstorm/ lightning
West Tripura	VH	H	H	M	M	L	M
Sepahijala	VH	VH	VH	M	L	L	L
Gomati	VH	H	H	M	M	L	H
South Tripura	VH	H	VH	M	L	L	H
Khowai	VH	VH	H	H	M	L	L
Dhalai	VH	H	VH	VH	M	L	L
Unakoti	VH	VH	H	H	M	L	L
North Tripura	VH	H	H	H	M	L	L

(Source: SDMP-Tripura)

III. Affects of cyclones, floods, landslides and lightning in 2017-18:

1. During the financial year 2017-18, the State has faced four spells of unprecedented floods during June, August, September and October. Out of these four spells, the floods occurred during 11-12 August' 2017 and 20-21 October, 2017 were most devastating. All eight districts were affected. West Tripura District was worst affected during four spell of floods. The Howrah river crossed its extreme danger level and due to this, the river over flew at Chandrapur, Baldakhal, Srilankabasti, Pratapgarh, Batapukur, College Tilla etc. Also, due to the heavy rains, all the low lying areas of Agartala City particularly in Chandrapur, Baldakhal, Srilankabasti, Pratapgarh, Batapukur, College Tilla were inundated. In other districts, the rivers Gomati, Khowai and Manu were also crossed the danger levels and flooded. Most of the low lying areas were submerged. More than 49000 families were affected due to flood during the period in the State.
2. Overall, cyclones, floods, landslides and lightning claimed numbers of human as well as animal lives and left people injured. Besides, causing heavy damage to public and private properties in the affected areas. Essential services like power supply, road network, telecommunications, and drinking water supply were also disrupted. Thousands of houses were damaged severely or partly which bound the people to take shelter in relief camps. Due to flood 1.97623 lakh people were affected severely in the State.
3. The immediate response from the State, District and local authorities was very prompt for the above floods. Without sparing any time, the District and Sub-division administrations rescued affected people to the identified flood shelters and relief camps. Boats were mobilized from the other districts, TSR Bns, NDRF and CTI-Gokulnagar. The trained manpower from NDRF, CTI, Civil Defence and quick response teams from the Fire Services, Police, Sub-divisions were pressed into flood rescue and relief services. NDRF team and Civil Defence volunteers were kept standby with the DM West till the flood situations were over. Immediate food, drinking water, medical, electricity and security services were provided to the affected people and in the relief camps.

4. PWD (WR) Department, Govt of Tripura continuously and closely monitored the flood situations at their gauge stations and kept on informing the updated water level to the SEOC. Based on this information the State Government and District Administrations acted upon.

5. The District Administrations had undertaken rescue and relief operations in the flood affected villages and provided food, shelter, medicines and other essential items to the affected people. In total 111 nos relief camps were opened in different places in affected districts. Detail damage survey was conducted in the areas affected by flood by the joint teams consisting of officials of various departments under the supervision of District Collectors. As per report received from District Administrations and other sectors and compiled in this department it is found that the floods and cyclones claimed 17 human lives and 193 animals. Besides, 1363 houses including 154 huts have been also fully damaged. 21030 houses have been partially damaged and 2695 houses have been severely damaged. There were huge amount of damages in other sectors also like power, roads & bridges, drinking water schemes, river banks erosion, plantations etc.

6. As per the Para-8 (Preparation of the Memorandum for seeking Central Assistance, of the Manual on Administration of SDRF and NDRF) issued by Govt. of India, Ministry of Home Affairs (DM Division), the memorandum has been prepared incorporating the requisite data which are given below:
 - i) Area: The total geographical area of the State is 10,491.69 sq Kms. District wise geographical area is shown in **Annexure- A.**

 - ii) Population & Number of House: Total population of Tripura is about 36.72 lakh District wise information on population and number of houses are shown in **Annexure- B.**

- iii) Agriculture and Roads: District wise information on agriculture, roads, irrigation, primary health centres, primary schools, panchayat bhawan are shown in **Annexure-C.**
7. District wise rainfall data including actual rainfall, average rainfall and rainfall during last 3 years are indicated in **Appendix -I.**
8. Extent of damage due to flood and heavy rains in various sectors is given in the prescribed format in **Appendix-II.**
9. Gratuitous relief for relief to affected families had been disbursed for losses of human lives and injured persons. Ex-gratia assistance for damaged houses had been made as per SDRF guidelines. As per damage assessment report of the technical assessment team, assistance to the tune of Rs. 2054.92 lakh is require for damage to house properties. The details of relief provided are given in prescribed format at **Appendix-III.**
10. i) As per report submitted by the Agriculture Department, 47147.7 hectare of agricultural land affected due to floods. All the affected farmers belong to Small & Medium category. Total loss of agricultural sector is Rs.1438.77 lakh. The details of agriculture are given in prescribed format at **Appendix-IV**
- ii) There is no losses of occurred to the farmers other than SMF (**Appendix-V**)
11. As per report received from Animal Resource Development Department (ARDD), Govt of Tripura, 193 milch & draught animals and 557 poultry birds lost life due to flood. Estimated loss of animals is Rs. 33.33 lakh. Details of damages of cattle are given at **Appendix-VI.**
12. As reported by the District Administration total 24682 houses damaged out of which 9 pucca and 1200 kutcha houses fully, 151 pucca & 2544 kutcha houses severely, 21030 houses partially and and 154 huts fully damaged. An amount of Rs. 2054.92

lakh required to provide assistance against the above losses for repair and restorations of their houses is as per **Appendix-VII**.

13. As reported by the Fisheries Department, Government of Tripura, losses of fishery sector was Rs. 4845.13 lakh. Out of the lost amount, Rs. 100.00 lakh only was provided to the Fishery Department for providing financial assistance to the affected fish farmers. Details of damages in fishery is given below:

14. Frequent cyclones and floods caused damages to the roads, power supply lines, irrigation tanks canals, water supply system, culverts and bridges throughout the State. The concerned departments made an assessment and calculated estimated damages. An amount of Rs. 9542.2 lakh public properties had been damaged. The State Government provided Rs. 2709.00 lakh to the key line departments for immediate restoration of essential services. The amount was not enough for restoration work as the degree of damages were intense. The line department claimed more assistance from the Revenue Department as per SDRF norms. After disbursement of fund from the SDRF to the District Administration and line departments, the SDRF balance for the 2017-18 became less than the claimed amount. Hence the State Government could not manage to provide more fund to the line departments. Due to shortage of fund the State Government could not undertake repair & restoration work of the damaged properties. Sector wise detail damages and amount claimed by the departments is given in **Appendix-VIII**.

15. Total damages & losses occurred due natural calamities during the year 2017-18 was Rs.18698.71 lakh. The details is given below:

Sl. No.	Particulars	Amount (Rs. In lakh)
1	Life loss	68.00
2	Housing damage	2054.92
3	Relief expenditure	469.74
4	Roads & bridges	3245.33
5	Water Resource	2555.4
6	Agriculture & Horticulture	1438.77

7	Fisheries	4845.13
8	Roads (UD)	346.42
9	Drinking water scheme	51
10	Power	3563.19
11	Cattle	33.33
12	Education sector	27.48
Total		18698.719

16. On 1st April, 2018 the State Disaster Response Fund (SDRF) balance was Rs. 5072.44853 lakh. During the year the State Government received SDRF Rs. 3500.00 lakh (Rs. 3060.00 lakh as central share and 340.00 lakh as State share) in total. Fund allocated to the districts for undertaking immediate relief measures Rs. 2150.00 lakh and fund released to the districts as per State Executive Committee (SEC) decisions Rs. 2709.00 lakh. The closing balance was Rs. 2662.61675. The details of SDRF are given in **Appendix-IX**.

IV. Summary of total requirements:

17. On the basis of the details indicated in preceding paras, the summary of the total requirement of additional central financial assistance is given below:

Sl.No	Items/Sectors	Amt Required (Rs. In lakh)	Total (Rs. In lakh)
1	Gratuitous Relief		
(a)	Human lives lost	68.00	68.00
2	Clearance of affected areas		
(a)	Temporary accommodation	0.15	469.74
(b)	Food	469.41	
(c)	Other	0.18	
3	Agriculture		
(a)	Input subsidy to SMF	1438.77	1438.77
4	Animal Husbandry		
(a)	Milch animal- Buffalo/cow/camel	10.45	33.33
(b)	Milch animal-Sheep goat	22.88	
5	Fishery		
(a)	Water body, fish seed etc.	4845.13	4845.13
6	Housing		
(a)	Fully damage pucca house	3.602	2054.929
(b)	Fully damage kutcha house	343.7	
(c)	Severely damage pucca house	93.207	
(d)	Severely damage kutcha house	1034.13	
(e)	Partially damage house	571.54	
(f)	Huts	8.75	
7	Infrastructure		
(a)	PWD (R&B)	3245.33	9788.82
(b)	PWD (WR)	2555.4	
(c)	PWD (DWS)	51.00	
(d)	Power	3563.19	
(e)	Roads (UDD)	346.42	
(f)	Education	27.48	
Total			18698.719

18. It is evident from the details of losses and SDRF as shown above, the State did not have sufficient funds in financial year 2017-18 to combat the calamity caused by heavy cyclone and flood. The State Government also requested to the Government of

India to allocate additional fund from National Disaster Response Fund (NDRF) to cope up from the than situations. But the State Government did not get any response from the Government of India. Furthermore, due to assembly election 2018 in Tripura, financial assistance to the beneficiaries did not reach.

19. Hence, it is requested to sanction additional fund of **Rs. 18698.719 lakh (Rupees Eighteen Thousand Six Hundred Ninety-Eight Lakh and Seventy One Thousand Nine Hundred Only)** to Government of Tripura to extend the financial assistance to the remaining victims.

Annexure-A

Sl. No.	Name of the district	Area (in sq kms)
1.	West Tripura	942.55
2.	North Tripura	1444.50
3.	Dhalai	2400.00
4.	Unakoti	595.93
5.	Khowai	1005.67
6.	Sepajjala	1044.78
7.	Gomati	1522.80
8.	South Tripura	1535.46
Total		10491.69

Annexure-B

S. No.	Name of the district	Number of villages	Population			Distribution of population		Sex ratio	Population density	Literacy rate	Houses			
			Male	Female	Total	Urban population	Rural Population				No. of pucca houses	No. of kutcha houses	No. of huts	Total
1.	West Tripura	183	466152	452048	918200	588734	329466	970	974	91.07	191323	81995	-	273318
2.	North Tripura	177	212650	204791	417441	79455	337986	963	289	87.90	74159	31782	-	105941
3.	Dhalai	148	194544	183686	378230	40449	337731	944	158	85.72	72470	31058	-	103528
4.	Unakoti	235	140210	136296	276506	40830	235676	972	467	86.91	60676	26004	-	86680
5.	Khowai	208	167401	160163	327564	39558	288006	957	326	87.78	56930	24398	-	81328
6.	Sepajiala	264	247829	235858	483687	49346	434341	952	463	84.68	106394	45597	-	151991
7.	Gomati	110	225428	216110	441538	83972	357566	959	290	84.53	107216	45950	-	153165
8.	South Tripura	149	220162	210589	430751	39059	391692	956	281	84.68	77638	33274	-	110912
Total		1474	1874376	1799541	3673917	961403	2712464				746804	320059		1066863

Annexure-C

S. No.	Name of the district	Agriculture Sector				Road (in Km)					No. of PHC	No. of PS	No. of Panchayat Ghar	No. of Drinking water scheme	No. of irrigation scheme
		Cultivated area (in ha)	Total no. of farmers	No. of SMF	No. of landless agricultural laborers	NH	State PWD Roads	Rural Road	Urban Road	Total					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17
1.	West Tripura	29198	53217	53217	47034	79.90	1890.00	8195		10164.9	11	15	172	3210	258
2.	North Tripura	43295	45210	45210	21475	128.00	1280.00			1408	13	9	129	1850	192
3.	Dhalai	47572	68934	68934	42201	155.00	1250.00	1168	154.24	2727.24	15	13	151	4043	202
4.	Unakoti	40357	28719	28719	22502	105.00	920.00			1025	9	3	91	1945	182
5.	Khowai	22761	48119	48119	47249	126.61	1150.00			1276.61	7	5	124	3267	169
6.	Sepajiala	22259	73077	73077	62256	31.60	2146.00			2177.6	11	7	169	2652	262
7.	Gomati	32576	71130	71130	57339	118.40	1646.00			1764.4	10	9	173	2117	367
8.	South Tripura	34312	55515	55515	53562	109.30	2464.00	715.61		3288.91	17	7	169	3619	279
Total		272330	443921	443921	353618	853.81	12746.00	10078.61	154.24	23832.66	105	81	1192	22719	1928

District-wise rainfall data

Sl. No.	Name of affected districts	Rainfall during the calamity (in mm)			Rainfall during the corresponding period in the last three years					
					Last year			Year before last year		
		Actual	Normal	Departure Percentage (+/-)	Actual	Normal	Departure Percentage (+/-)	Actual	Normal	Departure Percentage (+/-)
1	West Tripura	445	280.2	0.59	144.088	280.2	-0.49	238.425	280.2	-0.15
2	North Tripura	490.9	343.8	0.43	281.875	343.8	-0.18	264.438	343.8	-0.23
3	Unakoti	425.2	314.9	0.35	270.35	314.9	-0.14	222.65	314.9	-0.29
4	Dhalai	490.1	280.1	0.75	296.817	280.1	0.06	269.533	280.1	-0.04
5	Khowai	439.9	295.5	0.49	181.45	295.5	-0.39	202.313	295.5	-0.32
6	Sepahijala	503.7	287.9	0.75	176.513	287.9	-0.39	201.838	287.9	-0.30
7	Gomati	410	254	0.61	250.338	254	-0.01	301.55	254	0.19
8	South Tripura	448.3	327.8	0.37	285.417	327.8	-0.13	343.6	327.8	0.05

Extent of damages due to natural calamities

State: Tripura

Nature and period of natural calamity

Sl. No.	Item	Details
1	Total number of districts in the State	8 (eight)
2	Number and names of districts affected	i) West Tripura ii) Khowai iii) Sepahijala iv) North Tripura v) Gomati vi) South Tripura vii) Unakoti viii) Dhalai
3	Number of village affected	1122
4	Population affected (in lakh)	1.97618
5	Total land area affected (in lakh ha)	0.0363171
6	Cropped area affected (in lakh ha)	
	i) Total cropped area affected	0.471477
	ii) Estimated loss to crops (Rs. In lakh)	1438.7
	iii) Area where cropped damage was more than 33%	0.471477
7	Percentage of area held by SMF	
	i) In the State as a whole	96%
	ii) In the affected districts	100%
8	Houses damaged	
	a) No. of house damages	24682
	i) Fully damaged pucca houses	9
	ii) Fully damaged kutcha houses	1200
	iii) Severely damaged pucca houses	151
	iv) Severely damaged kutcha houses	2544
	v) Partly damaged houses (pucca +kutcha)	21030
	vi) No. of huts damaged	154
	b) Estimated value of damage to houses (Rs. In lakh)	2054.92
9	No. of human lies lost	17
10	No. of persons with grievous injury	6
11	No. of persons with minor injuries	6
12	Animal lost	
	a) No. of big animals lost	3
	b) No. of small animals lost	190
	c) No. of poultry (birds) lost	557
13	Damage to public properties	

	a) Road & bridges (PWD)	14765.26 km roads
	b) Water Resource	LI Scheme, HP LI Scheme, Diversion scheme, Riverbank erosion
	c) Power	11 kv & 33 kv Conductors, Poles & Transformer
	d) UD roads	roads damaged
	e) Education	school building damaged
	f) Drinking water scheme	24 scheme damaged
	b) Estimated value of the damage to public properties	9788.82
14	Estimated total damage to houses, crops and public properties	13282.44

Assistance for provision of temporary accommodation, food, clothing, medical care etc. of people affected /evacuated (operation of relief camps)

Sl. No.	Name of affected district	Average No. (in a day) of relief camps	Average duration of operation of relief camps	Average no. of people accommodated per day in the relief camps	Expenditure incurred on (Rs. in lakh)				Total
					Temporary accommodation	Food	Clothing Medical care	Other essential items (to be specified)	
1	2	3	4	5	6	7	8	9	10 (6+7+8+9)
1	West Tripura	33	5	12094	0.00	440.64	0.00	0.00	440.64
2	North Tripura	2	2	2	0.00	3.00	0.00	0.00	3.00
3	Unakoti	40	7	60	0.00	4.95	0.00	0.00	4.95
4	Dhalai	5	8	280	0.00	3.25	0.00	0.08	3.33
5	Khowai	45	13	4757	0.15	17.07	0.00	0.10	17.32
6	Sepahijala	2	1	30	0.00	0.25	0.00	0.00	0.25
7	Gomati	0	0	0	0.00	0.00	0.00	0.00	0.00
8	South Tripura	6	1	60	0.00	0.25	0.00	0.00	0.25
Total		133	37	17283	0.15	469.41	0.00	0.18	469.74

Appendix-IV

Calculation of assistance for agricultural input subsidy-SMF

Sl. no.	Name of affected district	Total agricultural area affected (in ha.)	Total agricultural area where crop loss is >33%	Out of (4) area belonging to SMF			Assistance sought for different categories of crops			Total assistance sought (Rs. In lakh)
				Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	
1	2	3	4	5A	5B	5C	6A	6B	6C	7 (6A+6B+6C)
1	West Tripura	7977	3356.3	3356.3	0	0	228.22	0.00	0.00	228.22
2	North Tripura	3032	577	577	0	0	39.24	0.00	0.00	39.24
3	Unakoti	585	409	409	0	0	27.81	0.00	0.00	27.81
4	Dhalai	240	70	70	0	0	4.76	0.00	0.00	4.76
5	Khowai	3768	1868	1868	0	0	127.02	0.00	0.00	127.02
6	Sepahijala	19112.7	7552	7552	0	0	513.54	0.00	0.00	513.54
7	Gomati	7820	3009.6	3009.6	0	46.09	204.65	0.00	8.30	212.95
8	South Tripura	4613	3979	3979	0	81.43	270.57	0.00	14.66	285.23
Total		47147.7	20820.9	20820.9	0	127.52	1415.81	0.00	22.96	1438.77

Agricultural input subsidy-farmers other than SMF

Sl. no.	Name of affected district	Total agricultural area where the crop loss is >33 %	Out of (3) area belonging to farmers other than SMF			No. of farmers other than SMF affected by the instant calamity (only)			No. of farmers other than SMF affected by successive calamities			Assistance sought for different categories of crops						Total assistance sought (Rs. In lakh)
			Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Affected first time			Affected by successive calamities			
												Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	
1	2	3	4A	4B	4C	5A	5B	5C	6A	6B	6C	7A	7B	7C	8A	8B	8C	9 7(A+B+C)+ 8(A+B+C)
1	West Tripura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
2	North Tripura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
3	Unakoti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
4	Dhalai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
5	Khowai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
6	Sepahijala	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
7	Gomati	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	South Tripura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix-VI

Animal Husbandry

Sl. No.	Name of affected district	No. of cattle lost				No. of animals qualifying for relief grant (i.e. subject to ceiling of 3 large milch animal or 30 small milch animals or 3 large draught animal or 6 small draught animal per household				Assistance sought (Milch animals @ 30,000.00 Buffalo/cow/camel/yak etc. and Rs.3,000.00 Sheep/goat & draught animals @ Rs. 25,000.00 Camel/horse/bullock etc. & Rs. 16,000.00 Calf/donkey/pony/mule				Total Assistance sought (11+12+13+14)
		Milch animal		Draught animal		Milch animal		Draught animal		Milch animal		Draught animal		
		Buffalo/cow/camel	Sheep goat	Camel/Horse/Bullock	Calf/donkey & pony	Buffalo/cow/camel	Sheep goat	Camel/Horse/Bullock	Calf/donkey & pony	Buffalo/cow/camel	Sheep goat	Camel/Horse/Bullock	Calf/donkey/pony	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	16
1	West Tripura	0	10	0	143	0	10	0	143	0.00	0.30	0.00	22.88	23.18
2	North Tripura	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00
3	Unakoti	3	37	0	0	0	0	0	0	0.90	9.25	0.00	0.00	10.15
4	Dhalai	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00
5	Khowai	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00
6	Sepahijala	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00
7	Gomati	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00
8	South Tripura	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Total		3	47	0	143	0	10	0	143	0.90	9.55	0.00	22.88	33.33

Assistance sought for repair/restoration of damaged houses

SL. No.	Name of the affected district	No. of houses damaged												Total
		Fully damaged pucca houses @Rs. 95100/-		Fully damaged kutcha houses @Rs. 95100/-		Severely damaged pucca houses@Rs.95100/-		Severely damaged kutcha houses @Rs. 95100/-		Partially damaged pucca @Rs. 5200/- & kutcha houses @Rs.3200/-		Huts damaged/destroyed (both pucca /kutcha) @ Rs.4100/-		
		No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	West Tripura	0	0.00	40	38.04	0	0.00	632	601.03	7423	237.54	0	0.00	876.61
2	North Tripura	0	0.00	15	1.50	0	0.00	0	0.00	525	9.98	0	0.00	11.48
3	Unakoti	2	1.90	167	158.82	95	90.35	369	350.92	3201	102.43	113	4.63	709.05
4	Dhalai	0	0.00	742	27.77	6	0.54	187	14.91	2766	65.77	0	0.00	108.99
5	Khowai	0	0.00	16	4.35	0	0.00	341	13.63	4983	89.71	0	0.00	107.69
6	Sepahijala	0	0.00	84	32.00	0	0.00	384	15.01	1374	36.21	0	0.00	83.21
7	Gomati	0	0.00	78.00	74.18	0.00	0.00	23.00	21.87	305	9.76	0	0.00	105.81
8	South Tripura	7	1.70	58	7.04	50	2.32	608	16.76	453	20.14	154	4.12	52.08
Total		9	3.602	1200	343.70	151	93.207	2544	1,034.13	21030	571.54	267	8.75	2,054.92

Appendix-VIII

Format for working out the requirements under the head of repair of damaged infrastructure of immediate nature

(Rs. in lakh)

Sector	Damage in physical terms		Requirement of funds for repair of immediate nature	Out of (3), amount available from annual maintenance budget	Out of (3), amount available from related schemes/program mes/other sources	Out of (3), amount proposed to be met from SDRF/NDRF in accordance with list of works indicated in the Appendix to the revised items and norms
	1	2				
Roads & Bridges	PWD (R&B)	Roads & bridges damaged	2998.71	Nil	Nil	3245.33
	UD	Roads damages	346.42	Nil	Nil	346.42
Drinking water supply works	Urban	24 scheme damaged	51.00	Nil	Nil	51.00
	Rural					
Irrigation		LI Scheme, HP LI Scheme, Diversion scheme, Riverbank erosion	2555.40	Nil	Nil	2555.40
Power		11 kv & 33 kv Conductors, Poles & Transformer	3563.19	Nil	Nil	3563.19
Primary education		school building damaged	27.48	Nil	Nil	27.48
Total			9542.2	0.00	0.00	9542.2

Appendix-IX**Status of expenditure from State Disaster Response Fund (SDRF) Account****Year: 2017-18****State: Tripura**

Sl. No.	Item	Amount (in lakh)
(I) Receipts		
1	Opening balance in SDRF account as on 1.4.2018 (of financial year):	
	a) SDRF	5072.44853
	b) NDRF	0.00
	c) Total	5072.44853
2	SDRF release made during instant financial year (Central and State share)	
	a) First installment	
	Central Share	1530.00
	State Share	170.00
	b) Second installment	
	Central Share	1530.00
	State Share	170.00
	c) Total	1700.00
3	NDRF releases during the instant financial year, if any	Nil
4	Interest received on investments made as per the CRF Scheme	Nil
5	Total funds available in the SDRF account (1+2+3+4)	Nil
(II) Expenditure		
6	Expenditure incurred as per norms on approved natural calamities as per the Scheme of SDRF/NDRF (indicate calamity-wise expenditure)	4859.00
7	Expenditure incurred on training to specialized teams of the State personnel	174.39
8	Expenditure incurred on procurement of search and rescue equipment etc. (as per extent approved items)	101.44028
9	Total expenditure incurred (6+7+8)	5134.83178
10	Balance available in the SDRF account of the instant financial year	
	a) SDRF	2662.61675
	b) NDRF	0.00
	c) Total	2662.61675

Extent of damage due to natural calamities**Type of natural Calamity: Cyclone & Flood**

Sl. No.	Item	Details
1	Period of occurrence	15/06/2017, 11-12/06/2017, 03/09/2017 18-21/10/2017
2	Total number of districts in the State	8 (eight)
3	Number and names of districts affected	i) West Tripura ii) Khowai iii) Sepahijala iv) North Tripura v) Gomati vi) South Tripura vii) Unakoti viii) Dhalai
4	Number of village affected	1122
5	Population affected (in lakh)	1.97623
6	Total land area affected (in lakh ha)	0
7.1	Cropped area affected (in lakh ha)	
7.1.1	Total cropped area affected	0.471477
7.1.2	Estimated loss to crops (Rs. In lakh)	1438.70
7.1.3	Area where cropped damage was more than 33%	0.471477
7.2	Percentage of cropped area held by SMF	
7.2.1	In the State as a whole	100%
7.2.2	In the affected districts	100%
8	Houses damaged	
8.1	No. of house damages	24682
8.1.1	Fully damaged pucca houses	9
8.1.2	Fully damaged kutcha houses	1200
8.1.3	Severely damaged pucca houses	151
8.1.4	Severely damaged kutcha houses	2544
8.1.5	Partly damaged houses (pucca +kutcha)	21030
8.1.6	No. of huts damaged	154
8.2	Estimated value of damage to houses (Rs. In lakh)	2054.92
9	No. of human lies lost	17
10	No. of persons with grievous injury	6
11	No. of persons with minor injuries	6
12	Animal & poultry lost	
12.1	No. of milch animal lost	50

12.1.1	Buffalo/cow/camel/Yak			3
12.1.2	Sheep/Goat			47
12.1.3	Others (indicate name)			0
12.2	No. of draught animals lost			143
12.2.1	Camel/Horse/Bullock			0
12.2.2	Calf/Donkey/Pony/Mule			143
12.2.3	Others (indicate name)			0
12.3	No. of Poultry birds lost			557
13	Damage to public properties			Estimated Loss (Rs. In lacs)
13.1	Roads (all)	Length	14865.61	3345.13
13.1.1	State Roads	Length	108.5	108.50
13.1.2	District Roads	Length	10165.15	197.83
13.1.3	Village Roads	Length	4491.61	2692.38
13.1.4	Municipal Road	Length	100.351	346.42
13.2	Bridges & culverts			
13.2.1	Bridges	No	12	134.82
13.2.2	Culverts	No	17	111.80
13.3	Drinking water supply	No of scheme	24	51.00
13.4	Irrigation Sector	LI Scheme	758	2555.40
		High power LI Scheme	2	
		Diversion	9	
		River Bank erosion	1042	
13.5	Power Sector	ACSR (km)	3938.46	3563.19
		Pole (no)	10674	
		DT (no)	1167	
13.6	Education Sector			
13.6.1	Primary Schools (damaged/destroyed)	No	3	6.00
13.6.2	Middle Schools (damaged/destroyed)	No	7	13.78
13.6.3	High / Higher Secondary Schools (damaged/destroyed)	No	4	7.70
13.6.4	Other Educational Institutes	No	0	0.00
13.7	Health Sector			
13.7.1	PHCs	No	0	0.00
13.7.2	CHCs	No	0	0.00
13.7.3	Other Buildings	No	0	0.00
14	Total Estimated damage to houses, crops and public properties			13282.44