



GOVERNMENT OF HIMACHAL PRADESH
REVENUE DEPARTMENT
(DISASTER MANAGEMENT CELL)

Revised MEMORANDUM
OF
DAMAGES (As on 15-09-2023)
DUE TO FLASH FLOODS, FLOODS
CLOUDBURSTS AND LANDSLIDES
DURING MONSOON SEASON – 2023

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Chapter -1

State Profile

Physical Location:

Himachal Pradesh is predominantly a mountainous State located in North – West India. It shares an international border with China. The State has highly dissected mountain ranges interspersed with deep gorges and valleys. It is also characterized with diverse climate that varies from semi tropical in lower hills, to semi arctic in the cold desert areas of Spiti and Kinnaur. Altitude ranges from 350 meters to 6975 meters above mean sea level. It is located **between Latitude 30° 22'.40" N to 33° 12'.20" N and Longitude 75° 45'.55" E to 79° 04'.20" E.**

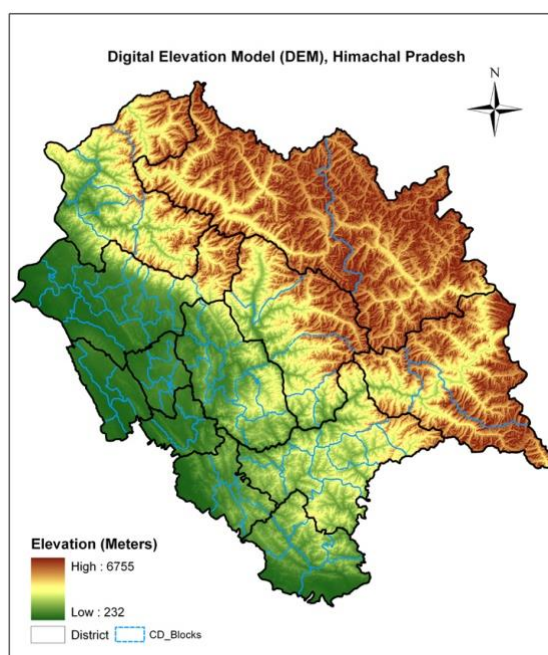


Figure 1.1 Digital Elevation Model, H.P.

Demography:

Population of Himachal Pradesh is 68.56 lakh persons as per the Census report for the year 2011. 89.01% of the total population inhabits 20,604 villages in the rural areas of the State. These villages are sparsely distributed across the State having population density as low as 1-2 persons per square kilometer in the remote and tribal area of Lahaul & Spiti. Hamirpur district has largest population density of 369 persons per square kilometer as against 123 persons per square kilometer for the whole State. Himachal Pradesh is one of the few states of the country where gender equality is an integral part of the social ethos as well as the overall development strategy. Female literacy is well above the national level and women employment is much higher than in most states of the country.

Table 1.1 Demographic Features Since 1901

Year	Population	Decennial growth rate	Female per 1000 males	Density per Sq. Km. (Persons)	Scheduled Castes (Percentage)	Scheduled Tribes (Percentage)
1901	1920294	-	884	34	-	-
1911	1896944	-1.22	889	34	-	-
1921	1928206	1.65	890	35	-	-
1931	2029113	5.23	897	36	-	-
1941	2263245	11.54	890	41	-	-
1951	2385981	5.42	912	43	22.69	0.26
1961	2812463	17.87	938	51	22.88	4.35

1971	2460434	23.04	958	61	22.24	4.09
1981	4280818	23.71	973	77	24.62	4.61
1991	5170877	20.79	976	93	25.34	4.22
2001	6077900	27.54	968	109	24.72	4.02
2011	6864602	12.95	972	123	-	

Source: Census of India.

Table 1.2 Areas, Density and Decennial Growth Population in Different Districts

District	Area in Sq. Kms.	Total Population		Decennial growth (2001-2011)	Density per Sq. Km. (2011 Census)
		2001 Census	2011 Census		
1. Bilaspur	1167	340885	381956	12.08	327
2. Chamba	6528	460887	519080	12.58	80
3. Hamirpur	1118	412700	454768	10.08	406
4. Kangra	5739	1339030	1510075	12.56	263
5. Kinnaur	6401	78334	84121	7.61	13
6. Kullu	5503	381571	437903	14.65	79
7. L&S	13835	33224	31564	-5.10	2
8. Mandi	3950	901344	999777	10.89	253
9. Shimla	5131	722502	814010	12.58	159
10. Sirmour	2825	45893	529855	15.61	188
11. Solan	1936	500557	580320	15.21	298
12. Una	1540	448273	521173	16.24	338
Himachal Pradesh	55673	6077900	6864602	12.95%	123

Source: Census of India.

Administrative Units:

In order to make the functioning smooth, the State is divided into twelve districts which are grouped in three Revenue Divisions i.e. Shimla, Mandi and Kangra. There are 81 Sub Divisions, 113 Tehsil, 73 Sub-Tehsil, 88 Development Blocks and 3615 Panchayats. The State has very effective structure of PRI's comprising 12 ZilaParishads and 81 Panchayat Samitis. There are also 27 Municipal Councils and 29 Nagar Panchayats, besides 7 Cantonment Boards and 5 Municipal Corporations in the State.

Topography:

Topographically, the state can be divided into three zones:

- 1. The Shiwaliks or Outer Himalayas:** It covers the lower hills of Kangra, Hamirpur, Una and Bilaspur, lower parts of Mandi, Solan and Sirmour districts. Within this zone, altitude varies from 350 m to 1500 m.
- 2. Inner Himalayas or mid-mountains:** Altitude varies from 1500 m to 4500 m above mean sea level and includes areas such as the upper parts of Pachhad and Renuka in Sirmour district, Chachiot and Karsog tehsils of Mandi district and upper parts of Churah tehsil of Chamba district.

3. Alpine zone or the greater Himalayas: Has altitude above 4500 m above mean sea level and comprises areas of Kinnaur district, Pangi tehsil of Chamba district and area of Lahaul&Spiti district.

Geology & Geomorphology:

Himachal Pradesh with its complex geological structures presents a complicated topography with intricate mosaic of mountainous ranges, hills and valleys. Composed of recent Alluvium, Shiwalik hills are made up of rocks such as sandstone, shale and clay that came into existence during the Eocene, Miocene and Pliocene period.

The central part that extends from Chamba district in the north to Shimla district in the south is mainly represented by Jatog group of rocks which originated in middle Proterozoic period. In the north eastern portion unclassified Granites borders the central part in between Kullu, eastern Shimla, Lahaul-Spiti and parts of Kinnaur district. The eastern greater Himalaya presents the Triassic formation which is found in Kaza tehsil of LahaulSpiti district. The oldest rocks are Granites found at Jeori-Wangtu and Bandel near Largi in Kullu district. These granites date back to a stage of the crust at a time when India was located 8000 Km southwest of its present position.

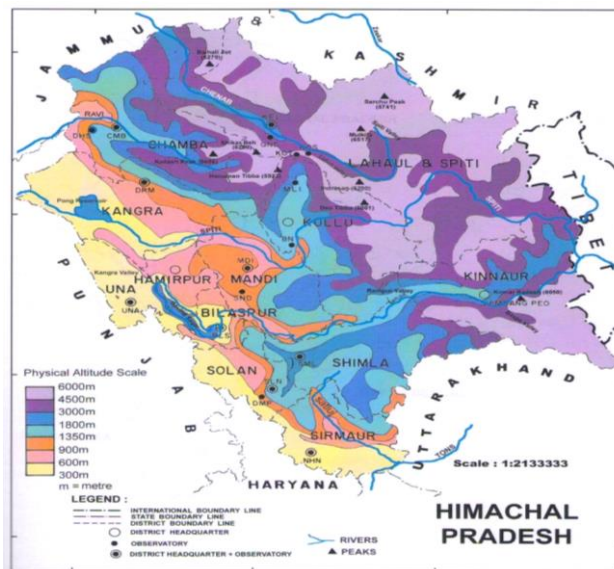


Figure 1.2 Geography of Himachal Pradesh

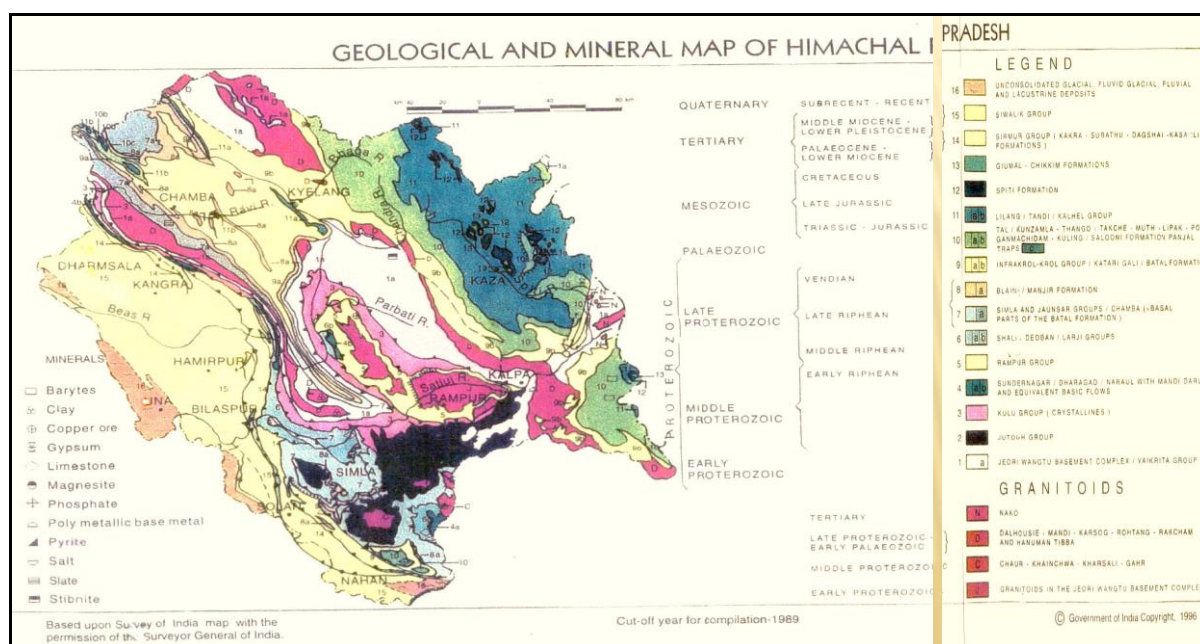


Figure 1.3 Geological and Mineral Map of Himachal Pradesh

Climate:

The climate varies across the state with the altitude. In the southern low tracks between an altitude of 400-900 it is hot sub humid type, between 900-1800m altitude warm & temperate, between 900-2400 m cool & temperate, cold alpine & glacial above 2400-4800 m altitude. Bilaspur, Kangra, Mandi, Sirmour, and Una districts experience sub tropical monsoon, mild and dry winter and hot summer. Shimla district has tropical upland type climate with mild and dry winter and short warm summer. Chamba district experiences, humid subtropical type climate having mild winter, long hot summer and moist all season. Kullu district experience mainly humid subtropical type of climate with mild winter moist all season, long hot summer and marine. During the period from January to February heavy snowfall in higher reaches create conditions for low temperature throughout the state making it unpleasant and series of western disturbances also affect the state.

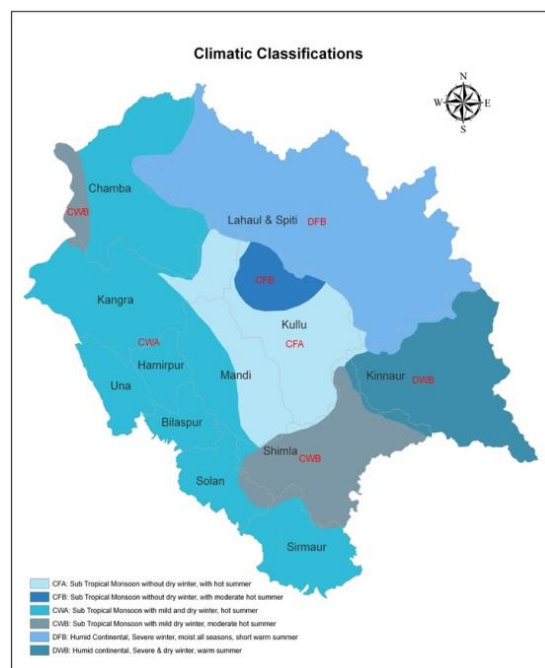


Figure 1.4 Climatic Classifications of Himachal Pradesh

Table 1.3 Climate Pattern of Himachal Pradesh

Climate Pattern	Districts
Sub-tropical Monsoon (Cwa type) Mild and dry winter, hot summer	Bilaspur, Kangra, Mandi, Sirmour, Una, Hamirpur, Solan, Chamba
Sub-tropical Monsoon (Cwb type) Mild and dry winter, moderate hot summer	Shimla, Parts of Chamba
Sub-tropical monsoon (Cfa type) Without dry winter with hot summer	Chamba, Major parts of Kullu, Mandi
Sub-tropical monsoon (Cfb type) Without dry winter with moderate hot summer	Minor parts of Kullu
Humid continental (Dwb type) Severe and dry winter, warm summer	Kinnaur
Humid continental (Dfb type) Severe winter moist all seasons, short warm summer	Lahaul & Spiti

Land use:

As per Land use statistics, Ministry of Agriculture (GoI), 2005, about 12.21 percent of the total reporting area of 4547000 ha of the state (out of 5567000 ha. of geographical area) is under cultivation. 24.06 percent is under forest. Permanent pastures and other grasslands account for about 33.63 percent, 1.25 percent land is under miscellaneous tree crops and groves, 2.73 percent is under the cultivable wasteland, fallow land other than current fallow 0.29 percent, current fallow 1.19 percent and net sown area is 12.21 percent.

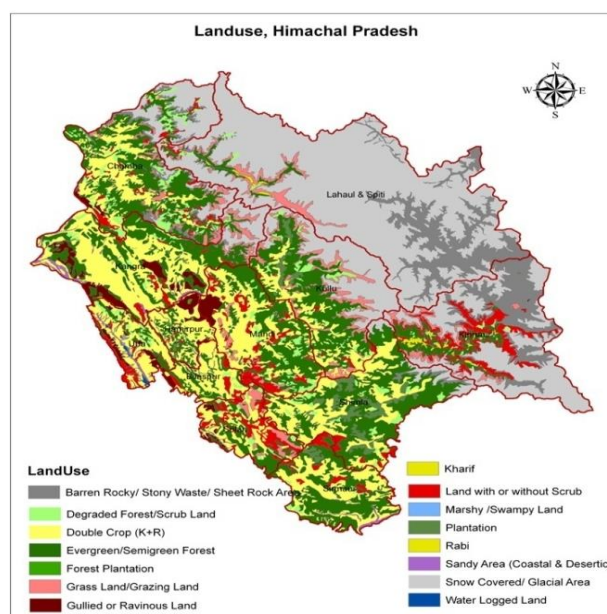


Figure 1.5 land use in Himachal Pradesh

Rivers and Catchments:

Five perennial rivers Satluj, Beas, Ravi, Chenab and Yamuna flow through the state. The utility of these rivers though restricted considerably by the rugged and undulating terrain of the State, nevertheless, these rivers possess immense potential for the generation of hydro-electricity. The following river catchment areas fall in the State.

Table 1.4 River Catchment Areas in Himachal Pradesh

Name of River System	Area of Catchment	Area in percentage
Sutlej	20,398	30.69%
Beas	13,663	24.50%
Chenab	7,850	14.20%
Yamuna	5,872	10.60%
Ravi	5,528	09.90%
Indus	1,450	02.60%
Markanda	360	00.60%
Ganga	290	00.50%
Ghaggar	262	00.50%
TOTAL	55,673	100%

Lakes/Reservoirs:

The state has both manmade and natural water bodies located in different parts of the state for specific purposes viz. irrigation, hydro-electricity, and flood control. Some of the important reservoirs of the state are Govindsagar, which spreads into the Bilaspur and Una districts, Pong Dam in Kangra, and Pandoh in

Mandi District. Chandertal, Renuka and Manimahesh are some the important natural lakes of the state.

Health:

The State has an extensive network of health care institutions. There are 98 hospitals, 2104 Sub- centres, 92 CHC's/RH, 588 PHC's, with available bed capacity of 14527. Similarly, there are 33 Ayurvedic hospitals, 1182 dispensaries/health centres with a bed capacity of 941 available in the state. Besides, there are 3 Ayurvedic Pharmacies and 1 Research Institute. Birth and death rate in the state is 15.3 per 1000 and 6.8 per 1000 respectively.

Roads and Bridges:

Total 18156 villages are connected with roads in the state. The total road length in the state is 40055 Km out of which the single lane road length is 32940 km, double lane road length is 1396 km and jeepable road length is 369 km.

Table 1.5 Population and distribution data

S. No	Name of the district	No. of the villages	Population			Distribution of population		Sex Ratio	Population density	Literacy rate	Number of Households
			Male	Female	Total(4+5)	Urban population	Rural population				
1.	Bilaspur	1061	1,92,764	1,89,192	3,81,956	25,129	3,56,827	981	327	84.6	80,485
2.	Chamba	1591	261320	257767	5,19,080	36,108	4,82,972	986	80	72.2	1,02,460
3.	Hamirpur	1725	2,170,702	2,37,698	4,54,768	31,430	4,23,338	1095	407	88.2	1,05,519
4.	Kangra	3869	750591	759484	15,10075	86,281	14,23,794	1,012	263	85.7	3,38,887
5.	Kinnaur	660	46,249	37,872	84,121	-	84,121	819	13	80.0	19,976
6.	Kullu	326	225452	212451	4,37,903	41,391	3,96,512	942	80	79.4	94,807
7.	L & S	521	16588	14976	31,564	-	31,564	903	2	76.8	6,674
8.	Mandi	3338	498065	501712	9,99,777	62,637	9,37,140	1,007	253	81.5	2,19,145
9.	Shimla	3231	425039	388,971	8,14,010	2,01,351	6,12,659	915	159	83.6	1,84,362
10.	Sirmaur	976	276289	2,53,566	5,29,855	57,165	4,72,690	918	188	78.8	98,208
11.	Solan	2544	308754	271,566	5,80,320	1,02,147	4,78,173	880	300	83.7	1,22,425
12.	Una	848	263692	257481	5,21,173	44,913	4,76,260	976	338	86.5	1,10,332
Total	HP	20690	3481873	3382729	6864602	688552	6176050	972	123	82.8	1483280

Source: Deptt. of Economics and Statstic.

Table 1.6 Profile of the state in respect of Agriculture, Road, Irrigation, Primary Health Centers, Primary School, Panchayat Ghar

S. No	Name of the district	Agriculture Sector				Road (in Kms)	No. of PHC	No. of PS	No. of Panchayat
		Cultivated Area (in ha)	Total No. of farmers	No. of SMF**	No. of landless agriculture labourers				
1.	Bilaspur	31459	56097	50325	2923	1701	35	1379	151
2.	Chamba	43389	70012	65232	1655	3257	42	2824	283
3.	Hamirpur	40939	72926	63708	3291	1893	26	1200	229
4.	Kangra	127204	230416	206944	39534	5951	80	4133	748
5.	Kinnaur	9687	10507	8463	1101	1060	21	453	65
6.	Kullu	40028	67753	64452	5590	1907	17	1896	204
7.	Lahaul-Spiti	3461	4152	3015	339	1256	16	383	41
8.	Mandi	96073	149654	135546	6518	5667	63	3916	469
9.	Shimla	80581	109868	92694	9814	5405	86	3400	363
10.	Sirmaur	44646	49046	33993	5767	3062	36	2353	228
11.	Solan	40894	50145	35988	6309	2961	33	1913	211
12.	Una	40395	62807	51910	11330	1929	19	1389	234
Total	Himachal Pradesh	598756	933383	812270	94,171	36049	474	25239	3226

Source: Deptt. Of Economics and Statistic

Number of Operational Holdings and Area Operated by Size Class of Holdings in H.P.

District wise	Marginal (less than 1.00 hect.)		Small (1.00 to 2.00 hect.)		Semi-Medium (2.00 to 4.00 hect.)		Medium (4.00 to 10.00 hect.)		Large (10.00 hect. & above)		Total All Sizes	
	No. of holding	Area	No. of holding	Area	No. of holding	Area	No. of holding	Area	No. of holding	Area	No. of holding	Area
1. Bilaspur	40028	17730	12018	16608	4576	11978	778	4007	22	338	57422	50662
2. Chamba	51978	23061	13876	18552	4378	11238	390	1961	8	101	70630	54908
3. Hamirpur	52619	21932	14452	20436	7057	18970	1866	10293	146	1872	76140	73502
4. Kangra	180170	63810	32691	45441	16184	44334	6046	34587	813	13680	235904	201855
5. Kinnaur	6256	2619	2466	3524	1522	4200	468	2551	45	1332	10757	14227
6. Kullu	63520	21897	8106	11085	2423	6486	385	2048	10	129	74444	41643
7. L&S	1838	1004	1275	1849	929	2571	221	1140	11	177	4274	6743
8. Mandi	111710	48611	30301	41751	10735	28322	1519	7831	37	535	54302	127051
9. Shimla	71813	30971	22808	32114	11535	31283	3576	19704	273	3868	10005	117937
10. Sirmaur	24983	11349	10666	15279	8583	24023	5419	32473	1070	16096	50721	99221
11. Solan	24900	12672	14528	20954	9995	27656	3741	20855	292	4485	53456	86619
12. Una	40610	17609	11409	16349	6951	19417	3197	19012	543	7897	62710	80285
Total	670425	273265	174596	243942	84868	230478	27606	156462	3270	50510	760765	954653

Source: Director of Land Records, H.P. (Agricultural Census Data Base)

Chapter -2

Rainfall Status and Current Disaster Situation

Pre-monsoon Period

The pre-monsoon period varies each year, and its impact on rainfall can differ based on several factors, including climate patterns and regional variations.

S.No	Month	Mar-23			Apr-23			May-23			Jun-23		
		Act (mm)	Nor (mm)	Dep (%)	Act (mm)	Nor (mm)	Dep (%)	Act (mm)	Nor (mm)	Dep (%)	Act (mm)	Nor (mm)	Dep (%)
1	Bilaspur	82.5	51.8	59	82.4	26.7	208	93.7	39.4	138	156.8	102.1	54
2	Chamba	118	177.4	-33	127	92.9	37	166.1	98.5	69	139.2	121.8	14
3	Hamirpur	59.6	55.5	7	66.2	32	107	75.6	42.8	77	167.2	114.1	47
4	Kangra	93.3	87.8	6	87.7	46.1	90	133	55.1	141	207.2	181.4	14
5	Kinnaur	31.1	115.5	-73	102.1	76.3	34	55.9	57.6	-3	40	41.8	-4
6	Kullu	70.9	134.1	-47	169.6	80	112	158.5	69.5	128	104	86.9	20
7	Lahaul & Spiti	21.2	145.2	-85	76.1	74.5	2	76.1	59.3	28	16.1	47.8	-66
8	Mandi	82.5	72.2	14	122	51	139	139.1	69.2	101	289.4	171.5	69
9	Shimla	97	81.7	19	139.4	53.7	160	136	69.8	95	161.1	110.4	46
10	Sirmaur	106.3	52	104	68.1	31.6	116	168	42.5	295	229.8	165.8	39
11	Solan	83	61.9	34	94.5	33.1	185	175.7	49.3	256	252.6	137.3	84
12	Una	48.8	45	9	31.4	25.3	24	74.3	32.4	129	96.3	103.8	-7
13	Sub-Division HP	66.7	113.4	-41	103.5	64	62	116.8	63.3	84	121.7	101.1	20

Source: India Metrological Department, Shimla

From the above table it is submitted the state received excess rainfall during the pre-monsoon period. The soil was already saturated when the monsoon hit the State.

Monsoon Period

Extreme Weather Events of Floods, Landslide and Cloudbursts

Monsoon season in India spans over four months from June to September. However, its arrival and withdrawal occurs on different dates in different parts of the country. Normal date of arrival of monsoons in Himachal Pradesh is during the last week of June. This year, monsoon was on time and arrived in Himachal Pradesh on 24

June, 2023. However, the state received very high spells of rainfall during the second week of July especially on 9th and 10th July.

The average cumulative rainfall from 24th June to 14th July is excess to the extent of 147% as per details given below:-

24 th June to 14 th July			
District	Actual (mm)	Normal (mm)	Departure (%)
BILASPUR	452.6	155	192
CHAMBA	336.9	155.5	117
HAMIRPUR	378.2	176.2	115
KANGRA	460	308.1	49
KINNAUR	152.2	35	335
KULLU	347.6	95.8	263
LAHAUL & SPITI	132.8	63.3	110
MANDI	472.5	216.3	118
SHIMLA	430.8	121.6	254
SIRMAUR	814.9	246.6	230
SOLAN	687.8	183.3	275
UNA	350.7	174.7	101
SUBDIVISION RAINFALL	337.1	136.3	147

Source: India Metrological Department, Shimla (H.P)

Unprecedented Rainfall in Himachal Pradesh for the period 07.07.2023-11.07.2023:

Rainfall in Himachal Pradesh for the period 07.07.2023 - 11.07.2023:

Active to vigorous monsoon conditions prevailed in Himachal Pradesh during 7th to 10th July 2023 with widespread rainfall of very heavy to extremely heavy rainfall in most parts of State during this period. State received **734.4 mm** of rainfall aslong period average during monsoon season (June-September) period 1971-2020 .Out of total average rainfall of 734.4 mm state received 223 mm of rainfall against its normal rainfall of 41.6 monthly in 4 days viz 7th to 11th July 2023 with deviation of 436 % which is unprecedented as per records. All district of state have received excess rainfall with highest rainfall in district Kinnaur, Kullu, Solan. District Kinnaur and Lahaul Spiti have received 43 % and 33 % of total average rainfall during these four days which is all time high. District wise cumulative rainfall during 7th to 11th July are given in table below.

Unprecedented rainfall occurred during these days resulted in widespread damage to public and private properties resulting in overflowing of major rivers, blockage of roads, landslides, flashfloods, damage to bridges, complete disruptions of electrical and communication system, including loss of human lives.

Cumulative districtwise rainfall during 7th to 11th July 2023

DISTRICT	ACTUAL (in mm)	NORMAL (in mm)	DEPARTURE (in%)
BILASPUR	335.9	44.5	655

CHAMBA	207.9	49.6	319
HAMIRPUR	258.7	49.2	426
KANGRA	225.3	93.7	140
KINNAUR	107.6	11.2	861
KULLU	280.1	30.7	812
LAHAUL & SPITI	124.8	21	494
MANDI	245.5	68.2	260
SHIMLA	268.9	35.4	660
SIRMAUR	514	67.9	657
SOLAN	472.6	52	809
UNA	265.3	49	441
HIMACHAL PRADESH	223	41.6	436

Source: India Metrological Department, Shimla (H.P)

District received records rainfall:

Stations in eight districts have received all time record rainfall in the month of July and August 2023 as given in the table below:-

Rainfall Records till 11th July for Himachal Pradesh					
Stations	District	New All Time Record		Previous record	
		Rainfall (inmm)	Date	Rainfall (inmm)	Date
Manali	Kullu	131.3	9 July, 2023	105.1	09 July,1971
Solan	Solan	107	9 July, 2023	105	17 July,2015
Rohru	Shimla	185	9 July, 2023	170	25 July,1966
Una AWS	Una	228.5	9 July, 2023	NA	
Ghamroor	Kangra	166	9 July, 2023	164.8	19 July,2021
Pachhad	Sirmaur	220	10 July, 2023	189.2	26 July,1973
Nadaun	Hamirpur	160.5	9 July, 2023	146	30 July,1996
Keylong AWS	Lahaul & Spiti	83*	9 July, 2023	78	28 July,1951

Source: India Metrological Department, Shimla (H.P)

Extremely heavy rainfall over Himachal Pradesh on the 09th July, 2023.

24 hours New Rainfall Records for August 2023 for Himachal Pradesh		
Stations	New Record-Amount (Date)	Previous Record (Date)
Bijahi	102.0 (14 th Aug 2023)	99.2 (18th August, 2019)
Kataula	172.3 (14 Aug 2023) 210.2 (23th Aug 2023)	165.0 (20th August, 2022)
Pandoh	166.0 (14 Aug 2023) 178.0(23thAug 2023)	137.0 (13th Aug 2011)

Source: India Metrological Department, Shimla (H.P)

Weather summary

State received isolated to widespread precipitation during August Month with Normal activity on most days and two days of vigorous activity on 14th and 23rd August 2023 when State received Extremely Heavy Rainfall at isolated places. Five Western disturbances approached the state during this month

Himachal Pradesh has received 49th highest rainfall this year for the period (1901-2023) with highest rainfall received in the year 1927(542.4mm) in the month of August.

Monthly precipitation and departure

The State received normal precipitation (-4%) in Himachal Pradesh with 247.6mm actual rainfall against normal of 256.8mm in August month i.e. from 01.08.2023 to 31.08.2023. District Kangra has received highest rainfall amount viz 720.4mm while district Bilaspur has highest rainfall departure (89%) against normal rainfall. District Bilaspur, Hamirpur, Mandi, Shimla & Solan has received excess rainfall. District Kangra and Una has received normal rainfall whereas Chamba, Kullu, Kinnaur, Lahul Spiti and Sirmaur has received deficient rainfall.

Seasonal precipitation and departure (01st June to 31st August)-

The State received excess precipitation (33%) in Himachal Pradesh with 816.4mm actual rainfall against normal of 613.8mm in the current monsoon season till 31st August. District Kangra received highest rainfall amount 1582.5mm while District Solan received highest rainfall departure (99%) against normal rainfall. District Kullu, Kinnaur, Mandi, Hamirpur, Shimla, Solan, Sirmaur, Bilaspur and Hamirpur has received excess rainfall. District Chamba, Kangra and Una have received normal rainfall whereas distt Lahaul Spiti has received deficit rainfall.

Monthly rainfall Status:

DISTRICT	July 2023			August 2023		
	Actual (in mm)	Actual (in mm)	Normal (in mm)	Departure (in %)	Normal (in mm)	Departure (in%)
BILASPUR	458.9	597.2	316.8	89	272.2	69
CHAMBA	498.6	177.8	291.7	-39	305.7	63
HAMIRPUR	470.1	646.5	400.6	61	328.5	43
KANGRA	654.9	720.4	631.5	14	589.3	11
KINNAUR	188.8	32.6	77.6	-58	65.9	186
KULLU	518.3	122.1	180.2	-32	184	182

LAHAUL & SPITI	188.7	4.2	117.6	-96	131.5	43
MANDI	540.4	681.5	395.3	72	386.5	40
SHIMLA	572	253.3	196.4	29	210.2	172
SIRMAUR	1095.3	244.6	402.1	-39	437	151
SOLAN	730.5	466.1	287.9	62	303.3	141
UNA	404	355.6	372.2	-4	329	23
HP	448.1	247.6	256.8	-4	255.9	75

Source: India Metrological Department, Shimla (H.P)

Major Landslides which took place during this period

A large number of landslides were recorded because of heavy rainfall, cloudburst and flash floods during this season. District wise detail is as under:-

Landslide Incidents		
Sr. No	Name of District	Total
1.	Bilaspur	03
2.	Chamba	241
3.	Hamirpur	02
4.	Kangra	02
5.	Kinnaur	257
6.	Kullu	2600
7.	Lahul & Spiti	28
8.	Mandi	203
9.	Shimla	1960
10.	Solan	184
11.	Sirmaur	17
12.	Una	05
Total		5502

Source: Received from State Emergency Operation Centre, Himachal Pradesh

In addition to this large number of medium and small landslides also took place in various parts of the State which resulted in huge loss to public and private properties.

Cloudburst recorded during this period:

During this monsoon season a number of cloudbursts were recorded. A total 27 numbers of Cloudburst were recorded which are as under:-

Number of Cloudburst incidents		
Sr No	District Name	Total (Nos.)
1.	Shimla	08
2.	Chamba	02
3.	Kullu	12
4.	Kinnaur	03
5.	Solan	01
6.	Lahaul Spiti	01
Total		27

Source: Received from District Emergency Operation Centre

Flash Floods recorded during this period:

During this monsoon season a number of flash floods were recorded. A total of 83 numbers of flash flood incidents were recorded which are as under:-

Number of Flashflood incidents		
Sr No	District Name	Total (Nos.)
1.	Bilaspur	01
2.	Chamba	04
3.	Hamirpur	01
4.	Lahaul Spiti	25
5.	Kangra	01
6.	Kullu	20
7.	Kinnaur	12
8.	Mandi	10
9.	Una	01
10.	Shimla	05
11.	Sirmour	03
Total		83

Source: Received from District Emergency Operation Centre

All major rivers were in spate during most of the period of monsoon. The Beas river caused extreme damage in Kullu and Manali area of the District.

Chapter – 3

Brief Summary of Damages and Losses

Major Disaster Events that occurred in State of Himachal Pradesh

1. Damage on Kullu District

Due to incessant rainfall which started in the district on 8th July and relentlessly continued with same intensity for more than 60 hours, major river valleys of the district i.e. Beas, Parbati, Sainj, Tirthan and Banjar valleys experienced devastating floods on 9th, 10th and 11th July. Although there were minor isolated incidents of cloudbursts/flash floods but the major damage was caused due to complete severe flooding of the entire valleys due to this incessant rainfall. Around 2600 landslides (as per preliminary reports) have been reported from across the district, out of which 300 are major landslides. There has been massive loss of public infrastructure as well as private properties in the district due to these devastating floods, assessment of which is still going on and may be revised later. As per the data reported by various departments of the State Government, there has been loss of 15pprox.. Rs 332 crores (which doesn't include the damages of NHAI) by way of damage to Roads, Water Supply and Irrigation schemes, electricity lines, horticulture/agriculture and other public institutions/buildings (a complete break-up of the same is enclosed with this document). Around 23 bodies have been recovered so far in Kullu and downstream districts, which were either due to people having been washed away in the flood or getting buried under landslides. In addition, some persons are still reported to be missing and exact numbers can be ascertained only after the connectivity is completely restored in the entire district.

Further, as per initial assessment, around 422 houses have been damaged fully while 462 have been damaged partially. In addition, around 150 shops/dhabas/commercial establishments have also been damaged.

Following are some of the major incidents/damages which need to be highlighted:

- (a) There has been unprecedented damage to certain areas of Sainj valley. Almost 60 houses/commercial buildings/shops of main Sainj market got completely washed away due to flooding on 10th and 11th July. The connectivity has been severely affected as many bridges/foot bridges across the Sainj river have been damaged/washed away which has completely cut off around 6 Gram Panchayats of the valley. Some photographs of the damage are enclosed with this report.
- (b) Approximate 60 houses/shops/commercial establishments in Parla Bhunter area in Beas valley got completely washed away due to flooding of Beas river. The main bridges of the Beas river i.e. Akhara Bazar bailey bridge, Bhunter bailey bridge, Patlikuhl bridge got badly damaged while a footbridge at Seobagh has been washed away. The flood waters were flowing above these bridges during the peak flooding of the river.
- (c) The Beas valley from Manali to Kullu has also seen unprecedented damage to the both left bank road as well as right bank NH-03. The area between Patlikuhl to Aaloo ground has several such stretches where more than 100 metres of road has been cut off and washed away by the river. The Green Tax barrier at Aloo ground, APMC Mandi at Aaloo ground and several commercial establishments have washed away and river has changed its course into the road alignment and the road is nowhere to be seen.
- (d) The Bhunter-Manikaran road as well as Kasol and Manikaran areas have also been severely hit. Around 300 mtrs road section at Dunkhra has been washed away and restoration work has still not been completed. Further, silt has damaged many houses, commercial establishments, public institution buildings as well as orchards of the people in the area. In addition, around 100 mtrs section of road beyond Manikaran towards Barshaini has also been completely washed away by Parbati.

- **Damages in Parla Bhunter area of Beas valley, District kullu**

Aproximately 60 houses/shop/commercial establishments in parla bhunter area in Beas valley got completely washed away due to flood in the Beas River. The main bridges on Beas River i.e akhara Bazaar Bridge, bhunter Balley Bridge, Patlikuhl Bridge got badly damaged whereas footbridge at seabagh has benn washed away.

- **Flood in the Sainj Valley, District kullu**

There has been unprecedented damage to certain areas of sainj valley. Alomost 60/houses/commercial buildings /shops of main sainj market got completely washed away due to flooding on 10th and 11 July. The connectivity has been severely affected as many bridges across the Sainj River have been damaged /washed away which has cut off around six panchayats of the valley.

- **Collapse of building in Anni**

On 25th August 2023 eight multi-storey buildings were completely destroyed while two others suffered partial damage due to a massive landslide near the new bus stand in Anni town of Kullu district. However, there was no loss of life as the district administration had already got the buildings vacated that had developed cracks. Due to incessant rain, the strata had loosened in the region, resulting in the collapse of these buildings. Around 35 to 40 more buildings have become vulnerable and the district administration has issued orders to vacate these as well.

(2) Disaster Incidents, District Mandi

In July 9thand10th, 2023 the district of Mandi experienced heavy rainfall, causing severe flooding in various areas. As a result, NH at Pandoh, Aut, Dwada, and 7 Mile got blocked, disrupting transportation routes for the local community and tourists. In response to the rising water levels, the Larji and Pandoh dams had to release water to prevent further damage. Unfortunately, this led to the submergence of parts of Pandoh Bazar and houses located near the river. Consequently, approximately 150 families were evacuated from their houses to safer places. 7 people had been evacuated to safer place by SDRF team in Pandoh area. 6 person trapped in flood water near Nagwain were rescued in a late night operation. Their search and rescue had completed by SDRF/NDRF/ABVIMAS teams successfully. 12 people were rescued from the houses near centre school Khaliyar. All of them were stuck in their houses due to overflow of flood water.

Aut and Balichowki areas have been cut off from the main land Mandi Sadar and there is no network communication with these areas. Roads are also

blocked and repair & restoration work is in process. Simultaneously, in the district Mandi, flood-like situation happened and the places near the river (Bhuili, Khaliyar and Nichli Grahan) got affected, in response to that administration evacuated the displaced individuals to relief shelters, and relief shelters were promptly set up at Gurudwara, Town Hall Mandi, Beas Sadan, Balichowki and Dharampur. These shelters are able to provide a safe space for approximately 400 people affected due to flood and heavy Rainfall. Furthermore, efforts were made to ensure that the evacuated residents were provided with basic necessities, including food, water, and other essential supplies. Administration along with youth volunteers, worked together to coordinate relief efforts and support the affected population during this challenging time. Authorities are actively monitoring the situation and working towards restoring normalcy in the affected areas.

- **Thunag market**

Huge flashflood washed away many houses and damaged a dozen shops in the Thunag main market. Water along with boulders, wood logs gushed down through the middle of Thunag market creating havoc and huge loss. A commulative loss of all assets amounting to approximately Rs. 05 crores has been estimated at this point.

- **Flood in river Beas**

The flood in the Beas River caused havoc and massive destruction all along its banks in Kullu (Manali) & Mandi Districts. The river swelled to unprecedented levels due to which many houses, shops & bridges were damaged severely or washed away. Huge damages were also caused to Hydel Projects and infrastructure all along the bank of the river. About 50 vehicles (trucks, cars, buses) also got swept away at different places. Large stretches of roads were destroyed disrupting the connectivity. People were stranded at many places who were later evacuated successfully.

- **Flash Floods in Mandi**

Due to flash floods and waterlogging in various parts of Mandi District, huge losses to both life and property have been reported. A flash flood was reported at BaggiKhad of Gram Panchayat Shegli (Sub-Tehsil Kataula) and in the incident a primary school, a house & 2 Cowshed have been damaged and 3 cattle also died in this incident. Some tourists were stranded behind the Baggikhad who were rescued safely. Flash floods have also caused severe damage to buildings and roads at various places in Mandi.

(3) Damage in Kinnaur

Due to very heavy rain on 08th and 09th July, 2023 in Tehsil Moorang, an incident of Flash Flood was reported at Village Ribba, Tehsil Morang, in which 03 no of private vehicles and 01 No of JCB were washed away. Further, another event of Flash flood was reported on 12-07-2023 which was caused due to blocking of Tong Tong Che Nallah due to heavy boulders and the direction of Nallah was diverted towards the Main Sangla Bazar. In the said event 01 Shamshan Ghat, around 100 Houses (Kacha and Pakka), 13 Shops and 20 Cowsheds were damaged. Other than this various roads,

WSS, electricity transformers, Forest, Agriculture & Horticulture crops, Community assets were also damaged. Apart from this District Administration Kinnaur had arranged Rescue of 118 Tourist from Sangla with the help of Air force, Army, ITBP, Police and Local Administration on 13-07-2023. After this the transportation of all the rescued tourists along with refreshments were transported through HRTC buses till Shimla and Chandigarh. In addition, another Event of Flash Flood was reported in village Sapni on dated 08-07-2023 in which two private vehicles and 01 Pulsar Bike was washed away. Apart from this there was huge loss to agriculture and horticulture crops/land. 04 No of houses were also washed away in addition to 01 Bailey bridge.

(4) Flood in District Una

On 09th & 10th July 2023 due to heavy to very heavy rainfall in district Una, The approach on one side of Ghaluwal Bridge over the Swan River NH-503A Una, Hoshiarpur (Punjab) Road has been damaged badly. This has created risk of collapse posing threat to the human lives. In this context, keeping in view of public safety and to avoid any untoward incident the movement on the bridge has been completely closed from 09-07-2023. Water logging/pounding issues in residential colonies of urban and rural areas of the district and damages to the houses due to very heavy rainfall on 09-07-23 and 10-07-2023. Due to water logging a rescue of an old and physical disabled person from Vill. Rampur Tehsil Una from their house by rescue team of Fire and Home Guards. Rescue of 01 person stucked in Swan River at Vill. Santokhgarh Tehsil Una by rescue team of Fire and Home Guards. 515 migrant persons living in jhuggis-jhopdis nearby Swan River shifted to Town Hall Una and a private building and to provide food and water for two days. Due to heavy rainfall on 09-07-2023, rescue of 12 persons stranded in Swan River near Vill. Rampur, Una-Haroli Bridge by rescue team of Fire and Home Guards.

(5) Sinking of land mass at Shamti in District solan

Whole land mass subsided at Shamti area MC solan due to continuous and heavy downpour in the area. About 50 multistory houses were damaged due to sinking of hill mass. Firstly a major crack of about 500 mts length appeared on the hill behind the habitation area and it continuously started sliding down which displaced the foundations of the buildings constructed downside. About 50 buildings were vacated & 100 families were immediately shifted to safe locations. This sudden dislocation of the hill has caused a loss of private property to the tune of about 40 crores.

Landslide Incident: on 14th August, 2013 A devastating landslide incident has occurred in Village Jadon, P.O. Dhawla, Sub-Tehsil Mamligh, Sub-Division Kandaghat. As a result of this calamity, two houses and one cowshed have been washed away by the force of nature. The local

administration in Kandaghat has reported a total of 8 casualties due to this tragic event, and fortunately, two individuals have been successfully rescued

(6) Flash Flood Incidents in District Shimla

On 09th& 10th July 2023 due to heavy to very heavy rainfall in district Shimla, 06 major incidents occurred in District Shimla (Shimla Rural, Theog, Kumarsain, Jubbal and Rohru) dated 9th July, 2023 and 10th July, 2023, due to heavy rainfall in which 06 houses was buried under debris, due to landslide and 12 lives lost. Village Thaitvadi, GP Tangnu, Tehsil Chirgaon, Sub Division Rohru, about one dozen houses in the said village affected and 11 houses vacated due to threat of landslide. Houses are on the verge of collapse due to continuous rainfall occurred between 07th July to 13th July at Sub Division Jubbal and Kotkhai. The incident of landslide took place at Rajhana in Tehsil Shimla Rural around 02:00 pm, two persons were rescued but one died in hospital, one is injured and one body has recovered yesterday at 10:15 pm.

- On 14th August, 2023, a tragic incident unfolded near the Shiv Temple in Summer Hill, Shimla, as a result of the relentless monsoon rains. A devastating landslide occurred, leading to the burial of several individuals and the tragic loss of lives. The victims were devotees who had congregated at the temple to observe prayers during the auspicious occasion of Sawan. According to official reports, nearly 50 people were present when this calamity struck. Regrettably, we have human loss of 20 individuals took place. The response to this crisis has been swift and coordinated, with the National Disaster Response Force (NDRF) deploying two teams comprising 45 personnel, the State Disaster Response Force (SDRF), local police, fire department, Home Guard, and the local administration collaborating tirelessly in the ongoing rescue operation.
- On 14th August, 2023, a landslide incident occurred in Phagli, resulting in a tragic toll of 5 fatalities and leaving 3 individuals injured. The injured have been promptly shifted to IGMC Shimla for medical attention. This unfortunate event underscores the need for continued vigilance and support in the affected area.
- On 14th August, 2023, a incident of a landslide occurred in Krishna Nagar, resulting in the collapse of approximately 5-7 houses and the New Slaughter House. According to initial reports, there were 20 workers on-site at the slaughterhouse during the incident. Thankfully, 18 workers were able to evacuate themselves safely. However, two individuals

remain trapped under the debris, necessitating immediate and concerted efforts for their rescue.

(7) Flash Flood Incidents in District Chamba

- Due to incessant rainfall which started in the district on 8th July and continued for more than 50 hours, various sub-divisions of district Chamba i.e., Chamba, Bharmour, Churah, Salooni, Dalhousie, Bhattiyat and Pangi experienced heavy damages on 9th, 10th and 11th July. On 9th July the rainfall was 12.50 times more than the normal rainfall. About 184 roads, 664 DTRs and 361 JSV water supply schemes were damaged in district Chamba. More than 900 (21 approx.) landslide incidents were reported from across the district. The NH 154A which is the lifeline of district Chamba got damaged at various locations. The communication lines also got disrupted for around 24 hours which made it more difficult to deal with this disaster situation. Still there are incidents of intermittent, yet heavy rainfall in the district Chamba making it difficult to restore normalcy.
- There were also two incidents of cloudburst reported in Tehsil Holi in Sub Division Bharmour on 25-7-2023 and 27-7-2023 at Kandlu, Muhal Dharasara Valley, PC-Chanhota, Tehsil-Holi Distt. Chamba in which 11 people were trapped, one person died and 10 people were rescued safely in the incident.
- There has been massive damage to public infrastructure as well as private properties in the district due to heavy rainfall, the assessment of which is still going on and may be revised later. As per the data reported by various departments of the State Government, there has been loss of 21 approx. Rs 320.66 crores in the form of damages to Roads, Water Supply, Irrigation Schemes, Electricity lines, Horticulture/Agriculture and other public institutions/buildings (a complete break-up of the same is enclosed with this document). Several major arterial roads of the district Chamba and the Pathankot National Highway (NH-154A) have suffered heavy damages with several sections of the roads completely sinking and getting blocked. Four people were reported dead (2-landslides, 1-flood and 1-cloudburst) during the period due to heavy rainfall.
- Further, as per initial assessment, around 8 houses have been fully damaged while 175 houses have been damaged partially in district Chamba. In addition, around 2 shops have also been damaged while 82 cattle-sheds have been damaged. Accordingly, more than 238 families in Chamba have been directly affected by the rainfall while thousands of others have been indirectly affected due to these heavy rains.

Following are some of the major incidents/damages which need to be highlighted:

- I. There has been heavy damage to certain areas of Sub division Tissa. About 90 houses, commercial buildings/shops of Tissa and 44 cattle-sheds got damaged due to heavy rainfall on 9th and 10th July, 2023. About 96 cattle were reported dead. The Chamba-Tissa road was damaged at various locations like Pangola Nallah, Ind Nallah which has been restored temporarily for traffic.
- II. Two people were reported dead due to landslide incidents on 8 and 9th July 2023. About 22 houses, shops/commercial establishments and 6 cattle-sheds in Sub –division Chamba got damaged due to heavy rain. Two foot-bridges at Bakani and Kunda-Jatkari Bridge collapsed in Muhal Bhariyan. Various link roads have been severely damaged due to heavy rains.
- III. About 23 houses and 16 cattle-sheds were damaged in Sub-division Salooni. The BSL-JK Road near Langera was severely damaged. The BS- J&K boundary road from Salooni to Chakoli is temporarily open for Light Vehicular Traffic.
- IV. 27 houses and 5 cattle-sheds were damaged in Sub Division Bharmour. The Chamba-Bharmour NH was badly affected at Bagga, Lothal, Durgethi, Dunali and Kamnalla due to heavy landslides and has been restored temporarily for LMVs only. Incidents of cloudburst were also reported in Patwar Circle Chanhota, Tehsil Holi, in which one person was reported dead and 10 were rescued in this incident and 1 foot bridge at Jun Nallah and 1 Gharat was also washed away. One Dumper, a Loader Machine, a JCB, an Ambulance and two Containers of JSW Pvt. Ltd. Company (Angelique) were washed away in flash floods.
- V. Sixteen Houses were damaged in Sub-Division Pangti were damaged. About 200 sheep/goats were washed away in Sub-division Pangti. Various link roads were damaged. At present, Chamba-Pangti road is open for LMVs only.

(8) Damage and Loss in other Districts

The extent of rain was wide spread. It affected all the districts of the state all the five rivers-dams and their tributaries spread across entire state caused extensive damage. There were large scale landslides and flash floods across the state. Extensive damage to private houses agricultural land and crops, public infrastructure such as roads, bridges, water supply schemes telephone and communication network.

There was large scale loose of human life. A lot of cattle perished in the disaster thousands of tourists and local were stranded due to disrupted of road network. A list of effected were needed to evacuate stranded persons and save life, army, Indian Air Force, NDRF, SDRF, Home Guard, Police and local responder were present into service.

(9) Large scale Destruction of villages due to landslide and land subsidence incidents

The last spell of rainfall from 22-26 August 2023 resulted in large scale landsubsidence incidents across the State affecting around 200 villages and and affecting around 12000 people. Details are as under:-

LANDSLIDE SUBSIDENCE REPORT				
NAME OF THE DISTRICT	NUMBER OF VILLAGES	NUMBER OF HOUSES AFFECTED	NUMBER OF FAMILIES AFFECTED	NUMBER OF INDIVIDUALS AFFECTED
CHAMBA	43	335	479	893
HAMIRPUR	3	11	10	41
KANGRA	14	88	98	405
KINNAUR	11	38	490	663
KULLU	16	108	115	592
LAHAUL & SPITI	1	1	2	2
MANDI	46	513	582	2303
SHIMLA	2	17	12	33
SIRMAUR	14	183	167	830
SOLAN	51	478	521	6133
TOTAL	201	1772	2476	11895

Chapter – 4

Preparatory Measures

Preparatory measures taken to prevent/reduce losses from disasters during Monsoon Period

Monsoon season brings a lot of challenges to the state and causes wide spread damages and losses. In order to reduce loss of human life and property, the State was well prepared to deal with the situation and had taken a lot of measures. Some of the steps taken have been elaborated in the succeeding paras.

State Wide Mega Mock Drill

The HP State Disaster Management Authority successful organized mega mock drill on Flood and Landslide conducted on 08.06.2023. The collaborative efforts and coordination displayed during the drill reflect a significant step towards unified disaster preparedness and response. By involving the National Disaster Management Authority (NDMA), various stakeholder departments, and response agencies, the exercise demonstrated the importance of working together during crises.

The simulation of 60 different sites across the state in the mock drill provided a comprehensive and realistic approach to testing disaster response capabilities. This thorough assessment helped identify areas of improvement and strengths in the disaster management plan, contributing to more effective preparedness in the future.

Some of the key aspects that were assessed and highlighted during the mock drill include:

1. **Effective Coordination and Collaboration:** The success of the mock drill was attributed to the seamless coordination and collaboration among all participating agencies and stakeholders. This shows that working together is essential in disaster management scenarios.
2. **Importance of Preparedness:** The mock drill underscored the significance of regular preparedness initiatives. Being well-prepared and conducting such drills can enhance the response capacity during actual disasters.
3. **Communication Systems:** The drill emphasized the need for robust communication systems that can function effectively during a crisis. Efficient

communication is crucial for coordinating responses and disseminating information.

4. **Public Awareness and Participation:** The drill stressed the importance of educating the public about disaster preparedness, evacuation procedures, and safety measures. Public participation and awareness can significantly improve overall response and safety.
5. **Resource Allocation and Management:** The exercise exposed the importance of proper resource allocation and management. Adequate deployment of personnel, equipment, and relief materials can have a significant impact on response effectiveness and minimize casualties and damages.
6. **Multi-Agency Response:** The mock drill highlighted the necessity of integrating efforts from various departments, including police, fire services, medical teams, and NGOs, to optimize disaster management strategies. A coordinated multi-agency response is vital for handling large-scale disasters effectively.
7. **Evacuation Procedures:** The mock drill involved government offices and schools conducting evacuation drills in their respective premises. This helped identify areas for improvement, such as identifying safe evacuation routes and addressing potential bottlenecks to ensure swift and safe evacuations.

Overall, the successful mock drill has proven to be an essential learning experience and a valuable tool for enhancing the state's disaster preparedness and response capabilities. Implementing the lessons learned from the drill will undoubtedly strengthen the disaster management plan and improve overall resilience in the face of future emergencies



Monsoon Preparedness Review Meeting

In order to review monsoon preparedness, a meeting was held with State and Central agencies and all the Deputy Commissioners on 22nd June, 2023. Necessary directions were issued to all stakeholders to ensure adequate measures for relief, response, search and rescue and restoration of essential services during the monsoon.

- As a preparatory measure the NDRF was prepositioned at Mandi, Nurpur (Kangra), Kullu and Rampur.
- Three Life buoys were stationed at Bilaspur (Govindsagar lake), Kangra (Pong dam) Mandi (Tattapani) for Search and Rescue. One Drone was provided to DEOC Mandi for aerial survey.

Review Meeting with Large Dam Authorities

A special meeting was held on 28th June 2023 by the State Disaster Management Authority with the department of energy and authorities of 24 hydro power projects to review the status of preparedness of impending Monsoon 2023 and implementation of guidelines of the Central Water Commission.

Communication Mock Drill

A Communication Mock Drill was conducted on 09.07.2023. The objective of this drill was to test and enhance our communication systems and protocols during a simulated emergency situation and evaluate the effectiveness of our communication systems during a crisis scenario. The mock drill simulated a hypothetical disaster situation, such as a severe weather event, public safety incident. Participants received simulated alerts, updates, and requests for information through designated communication channels to which they should respond promptly and appropriately. All 70 ISATS were tested with are available with the Administration and the Police.



HPSDMA in collaboration with the Police Department, BSNL, and Department of Telecommunications (DoT), organized an 'Emergency Communication Mock Exercise' on 9th July, 2023, at the State Emergency Operation Centre (SEOC), HP-Secretariat, Shimla.

Review Meeting Post Disaster

On account of the widespread damages and loss across the State, the Hon'ble Chief Minister of Himachal Pradesh, Sh. Shukvinder Singh Sukhu held a video conference with all the DCs, Administrative Secretaries, and Departments on 10th July, 2023 to review the relief and rescue measures. This was followed by another review by Chief Secretary on 13th July, 2023.



- A ministerial level committee headed by Hon'ble Revenue Minister was constituted by the Government for monitoring the relief and rescue operations.
- Regular meetings were held at the district level for better coordination among various departments for relief, rescue and restoration works.

Search and Rescue:

- QRTs were constituted for search and rescue operation in the districts.
- The State machinery was fully activated, and relief and restoration work was carried out round the clock. The situation in all the twelve districts was monitored constantly.
- Large number of machinery was deployed to clear the roads.
- Search and Rescue (SAR) operations were executed promptly.

Funds:

- State has released funds under SDRF/NDRF to Deputy Commissioners to the tune of Rs. 71.50 Crore under different heads for relief and restoration measures on 4th July.
- On 14th July an amount of Rs. 188 Crore was released districts for relief and restoration measures.
- Rs 70 crore was release on 25th and and 31st July for restoration efforts.
- Rs 189 Crore was releases on dated to the districts and department available under NDRF.

- Rs. 200 Crore released from Central Govt. as interim grant under NDRF has also been released to the district and departments.

IEC and Early Warning

- Early warnings with CAP were disseminated regularly as and when received from IMD and CWC.
- State has set up 30 Nos. of Landslide sensors for Sirmour, Mandi, Kangra and Kinnuar District for Landslide Monitoring.
- Do's and Don'ts were broadcasted through AIR, TV, Print and Other electronic media on regular intervals.

Losses and Damages Monitoring

- The DEOCs were monitoring and reporting incidents/losses and damages regularly and the State EOC generated cumulative loss reports on daily basis.

Chapter – 5

Use of Remote Sensing for Damage Assessment (District Kullu)

Change Detection Analysis based on Space Based Inputs in Kullu, Mandi, Sirmour, Solan, Shimla and Chamba Districts during 2023 Monsoon Period

Introduction:

The State of Himachal Pradesh forms a part of the North-western Himalaya and is environmentally fragile and ecologically vulnerable. The occurrence of natural hazards emanating from the effects of climatological variations is a matter of immediate concern to the State of Himachal Pradesh, as every year the state experiences the fury of nature in various forms, like cloudbursts, flash floods, landslides, earthquakes, snow avalanches, droughts, etc. The fragile ecology of the mountain state, coupled with large variations in physio-climatic conditions, has rendered it vulnerable to the vagaries of climate and natural disasters. Physiographically, the State has been divided into three broad units: the Lower or Outer Himalaya, the Middle Himalaya, and the Higher or Great Himalaya, and each unit is susceptible to different types of hazards depending upon the lithology, soils, and local climatic variations.

Due to the diverse topography of the area, the flood problem in the state is largely isolated in nature. The monsoon, apart from acting as the lifeline in the young, lofty, and fragile mountain belt of the Himalaya, becomes a potential cause for disturbing slope stability, inflicting heavy loss of life, and damaging Government, private, and public property. High monsoon rains in the areas of the Shiwalik and Lower and Mid Himalayan ranges cause extensive floods during the rainy season. In the upper reaches of the Beas and Satluj valleys, the main problems are flash floods and bank erosion because of the steep slopes of rivers and High River flows due to heavy rains. Often, flash floods caused by cloudbursts and temporary blockages of the river channels have also been observed. Extremely high-intensity rainfall events over a short period of time, or 'cloudbursts, as they may be called, are a natural phenomenon in the Himalaya and have been found to be a dominant factor in causing extensive damage in different parts of the State during the monsoon period every year.

During the current monsoon period of 2023, the State witnessed very heavy damage due to high precipitation on July 20, 2023, resulting in a loss of more than 6,000 crore to the

Government exchequer and a heavy loss of 182 precious human lives in different parts of the State. Chamba, Kullu, Mandi, Shimla, and Solan were the worst affected districts of the State that suffered heavy losses in life and property.

Rainfall Trend Analysis in Himachal Pradesh

In order to supplement the view of heavy precipitation during 2023, the rainfall analysis for the state of Himachal Pradesh was carried out using the available IMD data from 2014-2023 during the period April to August each year. The rainfall data at five locations Mandi, Shimla, Bhuntar, Kangra and Kalpa in district Kinnaur has been used to validate and to quantify the rainfall data at these locations in H.P. Based on the analysis carried out, the following inferences were made:

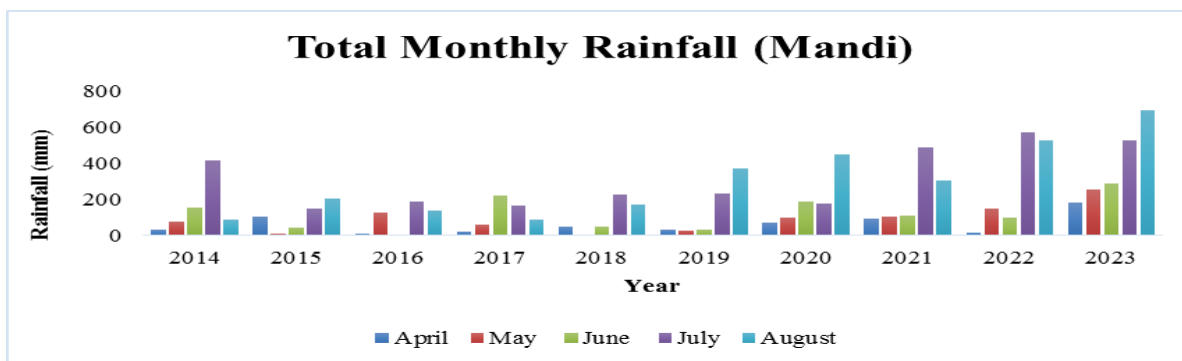
- A large variation was recorded in the summer precipitation during the period 2014-2023 i.e in April 2023, the rainfall recorded was on higher side in 2023 than the preceding years. In April 2014 (33.00mm) where as in 2023 it increased to 185.20 mm at Mandi.
- Likewise in May 2014, the rainfall recorded at Mandi was 76.50 mm (2014) whereas in 2023 (253.80 mm) with a few variations i.e. 2021(104.80 mm) and 2022(150.80 mm) respectively.
- In June, the rainfall recorded at Mandi varies from 155.50 mm (2014) to 286.80 mm (2023) with high rainfall during 2017 (220.50) ,2020 (190.70) ,2021 (112.30) respectively and the variation is mainly due to arrival of monsoon which generally arrives Himachal in the month of June.
- July is the peak monsoon month and the rainfall varies from 414.60 mm (2014) to 528.70 mm (2023) with a comparatively more rainfall in 2022 (571.80 mm) than 2023.
- Likewise, similar trend of rainfall was recorded at Shimla i.e from April to August, the rainfall varies from 62.90 mm (April 2014) to 47.60 mm (August 2014) where as in 2023 it varies from 221.40 mm (April 2023) to 552.10 mm (August 2023) respectively.
- Likewise, at Bhuntar during 2023, the rainfall varies from 396.70 mm (April) to 138.50 mm (May) to 86.50 mm (June) to 257.10 mm (July) to 134.10 mm

(August) which is comparatively more in summer months April and May 2023 than the preceding years.

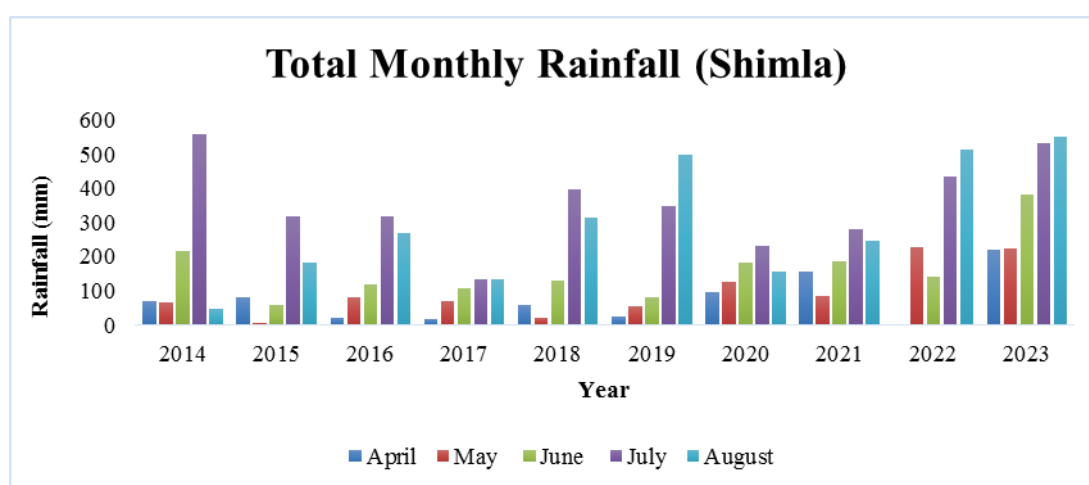
- In Kangra, similar increasing trend was observed in 2023 which varies from 122.30 mm (April) to 213.20 mm (May) to 336.00mm (June) to 595.20 mm (July) to 628.30 mm (August) in comparison to the preceding years.
- At Kalpa which is on eastern side of the state and also falls on the rain shadow zone, the recorded rainfall in 2023 has varied from 120.80 mm (April) to 82.60 mm (May) to 31.20mm (June) to 196.60 mm (July) to 14.6 mm (August) respectively and is on the higher side than the preceding years except a few exceptions.
- In other words, we can say that during 2023, the rainfall was on higher side even in the summer months in April & May in the state and at these stations with very high rainfall during peak monsoons months i.e., July and August.
- On the other hand, it is also seen that by and large number of rainy days have been reduced in 2023 and the rainfall has increased indicating heavy spells during 2023.

Rainfall Trend Analysis

Rainfall Mandi (Monthly Rainfall)										
Year	No. of Rainy Days (April)	Total Monthly Rainfall (April)	No. of Rainy Days (May)	Total Monthly Rainfall (May)	No. of Rainy Days (June)	Total Monthly Rainfall (June)	No. of Rainy Days (July)	Total Monthly Rainfall (July)	No. of Rainy Days (August)	Total Monthly Rainfall (August)
2014	4	33.00	8	76.50	10	155.40	21	414.60	10	89.60
2015	8	105.10	1	9.40	9	41.60	12	150	15	204.40
2016	2	11.90	7	127.00	0	0	12	185.70	10	138.90
2017	2	20.20	4	60.40	9	220.50	12	164.80	9	87.30
2018	3	47.10	1	6.20	3	51.6	14	229.60	11	173.4
2019	4	32.60	3	28.50	5	33.60	18	232.30	20	372.60
2020	8	73.90	9	97.50	16	190.70	13	176.50	19	451.00
2021	5	93.60	12	104.80	13	112.30	23	485.80	22	305.40
2022	5	13.20	18	150.80	9	96.40	24	571.80	20	525.40
2023	14	185.20	18	253.80	15.00	286.80	27	528.70	17	693.7



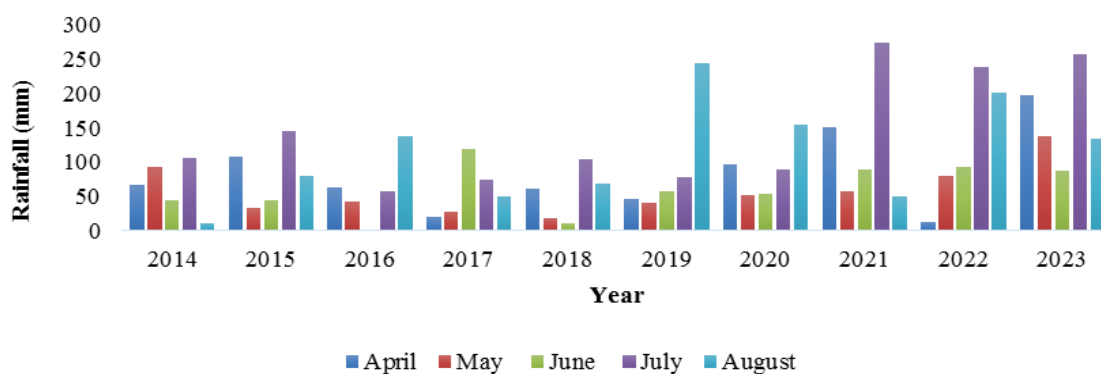
Rainfall Shimla (Monthly Rainfall)										
Year	No. of Rainy Days (April)	Total Monthly Rainfall (April)	No. of Rainy Days (May)	Total Monthly Rainfall (May)	No. of Rainy Days (June)	Total Monthly Rainfall (June)	No. of Rainy Days (July)	Total Monthly Rainfall (July)	No. of Rainy Days (August)	Total Monthly Rainfall (August)
2014	7	68.90	11	65.00	13	218.00	22	560.10	8	47.40
2015	12	81.70	2	1.50	13	58.10	18	317.80	17	182.70
2016	4	21.10	6	81.50	9	118.80	18	316.50	17	267.20
2017	3	16.20	8	68.40	11	105.20	14	133.70	10	134.80
2018	8	56.20	7	20.60	5	128.50	19	398.50	14	313.70
2019	4	24.50	9	54.90	10	79.50	24	346.20	25	499.00
2020	10	94.20	13	124.00	11	183.20	22	232.90	22	156.90
2021	5	156.50	13	86.20	16	186.00	21	281.40	22	246.40
2022	0	0.00	14	227.40	14	139.50	28	433.90	27	514.30
2023	14	221.40	18	225.40	21	383.60	30	530.70	20	552.1



Rainfall Bhuntar (Monthly Rainfall)

Year	No. of Rainy Days (April)	Total Monthly Rainfall (April)	No. of Rainy Days (May)	Total Monthly Rainfall (May)	No. of Rainy Days (June)	Total Monthly Rainfall (June)	No. of Rainy Days (July)	Total Monthly Rainfall (July)	No. of Rainy Days (August)	Total Monthly Rainfall (August)
2014	8	66.10	12	92.8	10	44.50	13	106.80	4	10.5
2015	11	108.40	3	33.10	13	43.80	10	146	14	80.60
2016	4	62.60	6	42.10	0	0	15	57.10	15	137.00
2017	2	20.4	7	27.90	10	118.70	11	74.50	10	50.50
2018	9	61.40	6	17.50	4	11.1	14	104.10	9	69
2019	6	45.40	8	40.00	11	56.60	13	77.30	20	243.30
2020	16	96.90	13	52.60	12	52.8	16	88.70	17	153.90
2021	7	150.40	14	57.60	11	89.40	19	274.70	12	50.30
2022	9	13.40	17	80.00	15	92.30	26	239.30	18	201.90
2023	14	196.70	17	138.50	15	86.50	19	257.1	7	134.1

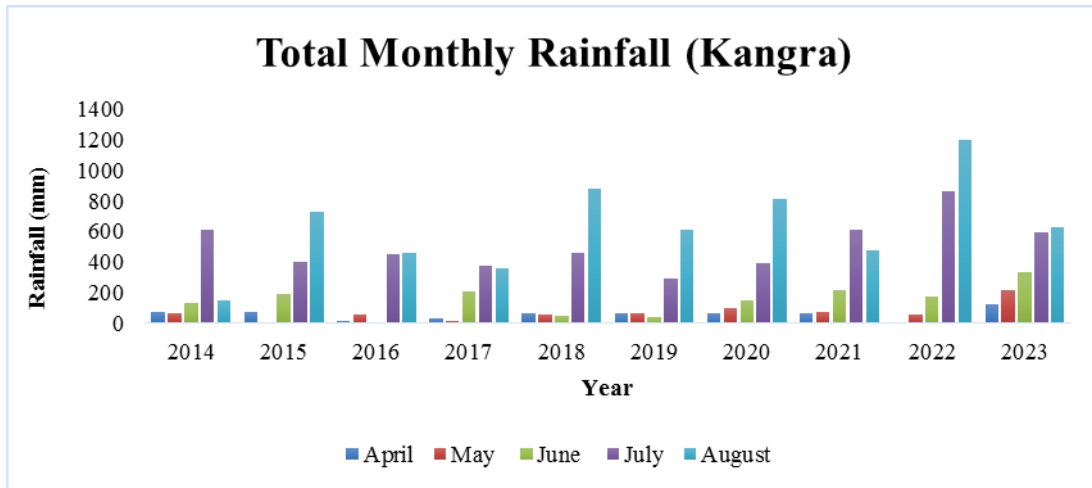
Total Monthly Rainfall (Bhuntar)



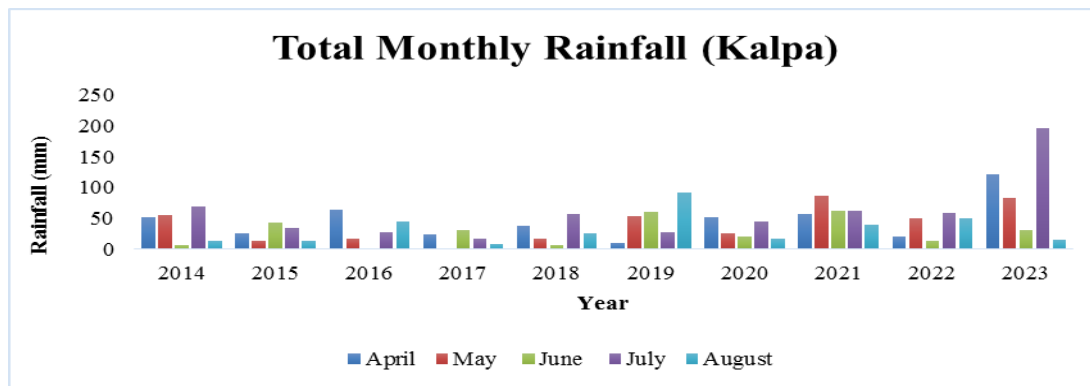
Rainfall Kangra (Monthly Rainfall)

Year	No. of Rainy Days (April)	Total Monthly Rainfall (April)	No. of Rainy Days (May)	Total Monthly Rainfall (May)	No. of Rainy Days (June)	Total Monthly Rainfall (June)	No. of Rainy Days (July)	Total Monthly Rainfall (July)	No. of Rainy Days (August)	Total Monthly Rainfall (August)
2014	6	71.10	6	59.10	9	132.30	22	606.90	10	145.00
2015	7	69.20	0	0.00	9	186.70	17	399.20	20	731.00
2016	2	10.00	6	55.30	0	0	19	450.30	12	456.00
2017	2	31.20	3	12.10	10	209.40	15	377.90	11	359.10
2018	8	60.00	5	50.80	4	44.4	20	461.90	15	881

2019	3	63.50	7	59.90	9	40.10	22	288.80	22	608.80
2020	10	62.70	10	98.00	14	147.40	21	387.80	24	814.60
2021	6	64.30	14	74.00	13	216.80	23	609.30	26	477.30
2022	3	2.80	12	56.90	12	175.00	30	863.80	23	1196.00
2023	12	122.30	16	213.20	19	336.00	28	595.50	22	628.3



Rainfall Kalpa (Monthly Rainfall)										
Year	No. of Rainy Days (April)	Total Monthly Rainfall (April)	No. of Rainy Days (May)	Total Monthly Rainfall (May)	No. of Rainy Days (June)	Total Monthly Rainfall (June)	No. of Rainy Days (July)	Total Monthly Rainfall (July)	No. of Rainy Days (August)	Total Monthly Rainfall (August)
2014	9	51.60	9	55.30	5	7.00	11	69.30	6	12.90
2015	8	25.00	7	13.50	11	42.90	11	34.20	11	13.90
2016	5	64.40	8	17.00	0	0.00	9	28.20	16	44.60
2017	3	23.80	3	1.80	7	30.60	14	16.60	6	7.60
2018	9	38.20	5	16.40	3	7.2	15	57.80	6	25.2
2019	5	10.70	10	53.50	11	59.80	15	26.80	20	91.20
2020	15	51.00	13	25.40	12	21.00	13	44.90	13	17.80
2021	8	56.20	12	87.20	18	62.00	18	62.00	11	39.60
2022	14	20.20	13	50.60	9	14.20	19	58.40	17	50.90
2023	17	120.80	19	82.60	12	31.70	22	196.60	5	14.6



Damage Assessment

The broad damage assessment was carried out physically based on the loss of infrastructure, land use /land cover, human lives, etc. However, an attempt was made to make use of the satellite data in mapping the area in terms of the damage and loss assessment. In view of the large affected area, initially the mapping was taken up for Kullu, Mandi, Sirmour, Solan, Shimla and Chamba districts of Himachal Pradesh which were worst affected districts in terms of damage.

Kullu is one of the important districts of the state, best known for its tourism potential. Beas is the major river system of the area that drains into the Indus River System and runs in almost north south directions before it enters Mandi district. The other important tributaries of the Beas are the Paravti, Jiwa, and Sainj, which join it mainly on its left bank. As far as the Beas basin is concerned, it has a history of damage in the past. Based on the historical analysis carried out in the district under the IHCAP program, 44 flood events have been identified between 1950 and 2014 (with >5000 casualties reported). Some of the extreme events that occurred were in 1959, 1971, 1978, 1985, 1988, 1989, 1990, 1995, 2000, 2005, and 2013. Most of them occurred during the monsoon season due to high intensity rains (cloudbursts) or longer duration rainfalls (monsoons), and Kullu is the most affected district in Himachal Pradesh. Based on the data analysis and interpretation carried out, the Beas catchment has a higher risk of flooding in comparison to the other catchments because of their topographic locations, geomorphic set-up, and infrastructure and land use land cover likely to be affected in case of any flood event. The past history of cloud burst events when plotted for different districts of Himachal Pradesh also reveals that the Kullu districts have witnessed the maximum number of cloud burst events and are thus highly prone to such events in the future, also because of the climatic variations over the Himalayan region. The

precipitation data plotted in Kullu district over the past decades also reveals that during the monsoon period, more precipitation occurs in July than in August.

Likewise, Mandi, Sirmour, Solan, Shimla and Chamba districts of Himachal Pradesh, the Mandi district forms part of the Beas river basin, whereas in Sirmour, the Yamuna and its tributaries like Giri, Bata etc. are the predominant rivers which contribute to the Yamuna river system. In the Solan district, the drainage system is mainly characterised by the presence of tributaries like Ashwani, and Gambhar etc. The Shimla district the drainage system is well developed with left bank of Satluj shares boundary with the adjoining districts besides the Pabbar as the predominant tributary of the district. The Shimla hills are also the water divide of Indus and Ganges river system in the country.

Change Detection Analysis based on Space Based Inputs

Using IRS R2/R2A LISS IV and Sentinel 2 satellite data, to carry out the change detection analysis for pre and post event using the following data products.

Table : Satellite images used for landslide inventory mapping, flood inundation mapping and associated damage assessment

Pre-event				
Satellite	Sensor	Resolution (m)	Date of Pass	Source
Resourcesat 2A	LISS-IV Mx	5.8	03 October,2021	NRSC,ISRO
Resourcesat 2A	LISS-IV Mx	5.8	05 October,2021	
Resourcesat 2A	LISS-IV Mx	5.8	15 October,2021	
Resourcesat 2A	LISS-IV Mx	5.8	03 November,2022	
Sentinel 2A/2B	MSI	10	01 September-31 October,2022	Google Earth Engine
Sentinel 2A/2B	MSI	10	01 April-31 May,2023	
Post-event				
Phase -1				
Sentinel 2A/2B	MSI	10	10-14 July,2023	Google Earth Engine
Sentinel 2A/2B	MSI	10	15-19 July,2023	
Sentinel 2A/2B	MSI	10	20-24 July,2023	
Sentinel 2A/2B	MSI	10	25-29 July,2023	
Sentinel 2A/2B	MSI	10	30 July-03 August,2023	
Sentinel 2A/2B	MSI	10	04-08 August,2023	
Phase -2				
Sentinel 2A/2B	MSI	10	14-18 August,2023	Google
Sentinel 2A/2B	MSI	10	19-22 August,2023	
Sentinel 2A/2B	MSI	10	22-26 August,2023	
Sentinel 2A/2B	MSI	10	27-28 August,2023	

Sentinel 2A/2B	MSI	10	29 August-02 September,2023	Earth Engine
Sentinel 2A/2B	MSI	10	03-05 September,2023	
Sentinel 2A/2B	MSI	10	06-08 September,2023	
Sentinel 2A/2B	MSI	10	09-13 September,2023	

Observation based on pre- and post-satellite data analysis

- In some areas of the Beas basin downstream of Manali, cloud-free satellite data was accessible, thus that data was used for the comparison analysis. The pre-disaster data was acquired from the IRS LISS IV images for the months of October and November 2021–2022; the post-disaster data was taken from the images for the days of 22–23 July 2023.
- According to the investigation, the Beas River's riverbanks sustained the majority of the damages due to the high water volume that resulted from the extremely heavy precipitation that fell between July 9 and July 11, 2023.
- It has also been noted that the main contributor to destruction was the river's altered path brought on by the high water level, which caused the Beas to follow its Palaeo courses in the majority of locations downstream of Manali along either bank.
- In the Kullu district, a total of 217 landslides have been recorded, covering a total area of 198 ha, while in the Mandi district, a total of 142 landslides have been seen, covering a total area of 100 ha.
- The Mandi-Kullu highway's overall road damage has been calculated to be 49 km in the Manali-Pandoh segment.
- Using visual interpretation approaches, the pre- and post-disaster damage scenarios have been mapped and are displayed in the Figures and tables that are attached below.
- The temporal study would support the assessment of the physical damages made during the current monsoon season utilizing the most recent technical tools.

Limitations:

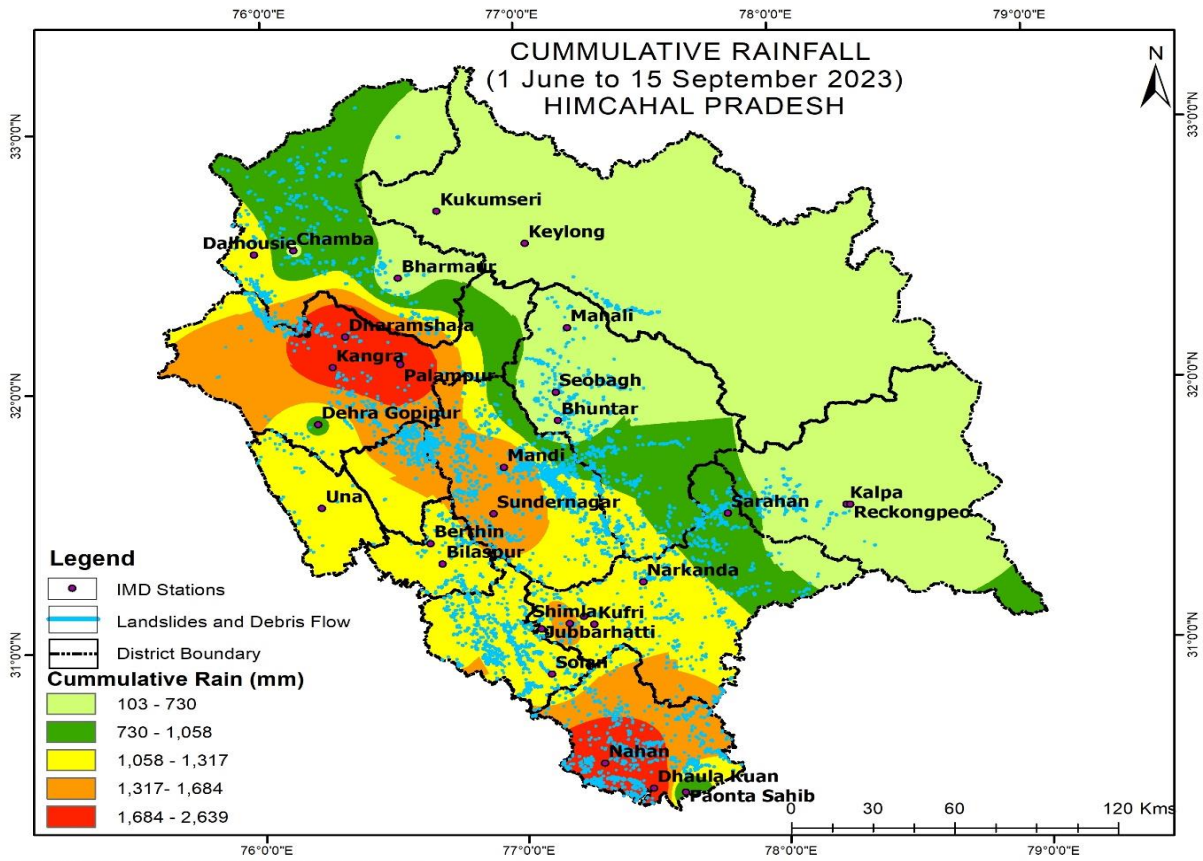
- Space data is extremely helpful for conducting temporal analyses, but gathering high-quality, cloud-free data in the Himalayas during the monsoon season is extremely challenging.

- The full extent of the damage could not be assessed due to the lack of cloud-free data; however, as the data becomes available, the temporal analysis for the remaining affected areas will be done.

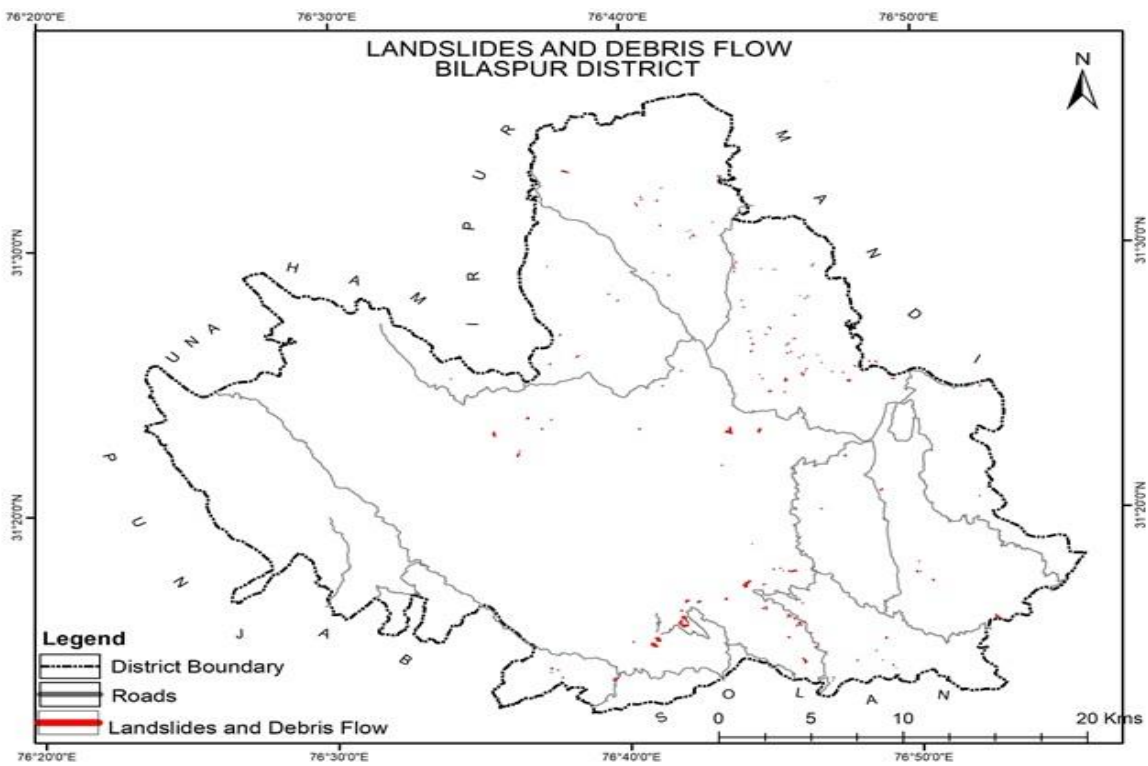
Mapping of Landslide/Slips and Debris Flow Areas

Using satellite data for the month of September /October 2022 and April /May 2023 before the monsoon period and satellite data for the month of July/August 2023 as the post event has been used for investigation purpose. All the landslides/ slips and debris flow have been mapped from the satellite data used during investigation are mainly the rainfall triggered during the month of July/August 2023. Total number of landslides mapped in each district along with the total rainfall and rainfall deviation (%) from normal for each district during 1st June to 15th September, 2023 has been shown in the Table 1 (Source: IMD). The brief details of all landslides along with

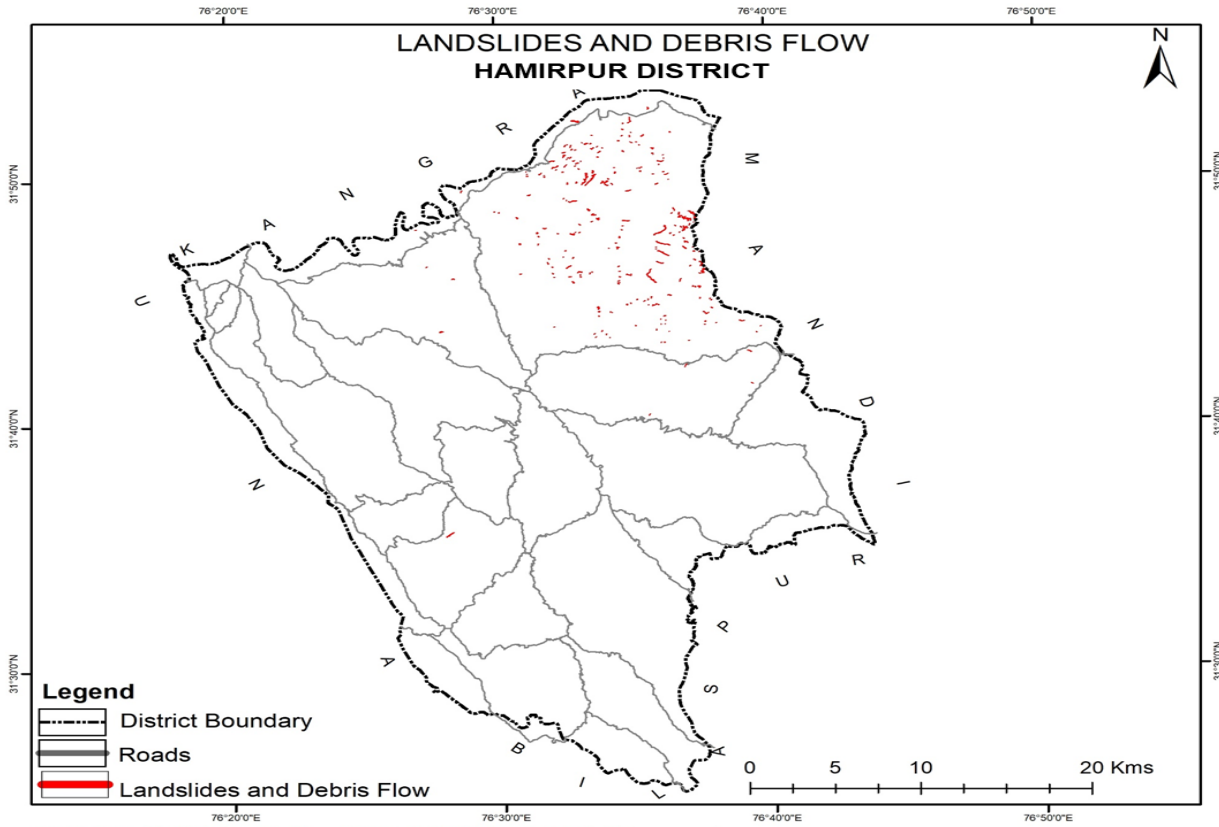
District	Total No. of Landslide	Total area of landslides (SqKm ²)	Rainfall (mm) (1st June to 15 September 2023)	Deviation from normal rainfall (%)
Bilaspur	172	1.14	1258.4	62
Chamba	437	7.36	852.9	6
Hamirpur	287	1.39	1298.9	40
Kangra	366	2.30	1671.5	8
Kinnaur	144	2.48	267.1	21
Kullu	634	4.73	755.7	49
Lahaul &Spiti	56	1.33	209.5	-39
Mandi	1257	10.40	1525.5	45
Shimla	644	3.79	1001.3	71
Sirmour	924	6.35	1642.5	46
Solan	787	3.92	1455	77
Una	40	0.25	865.4	-5
Total	5748	45.44	840.6	22



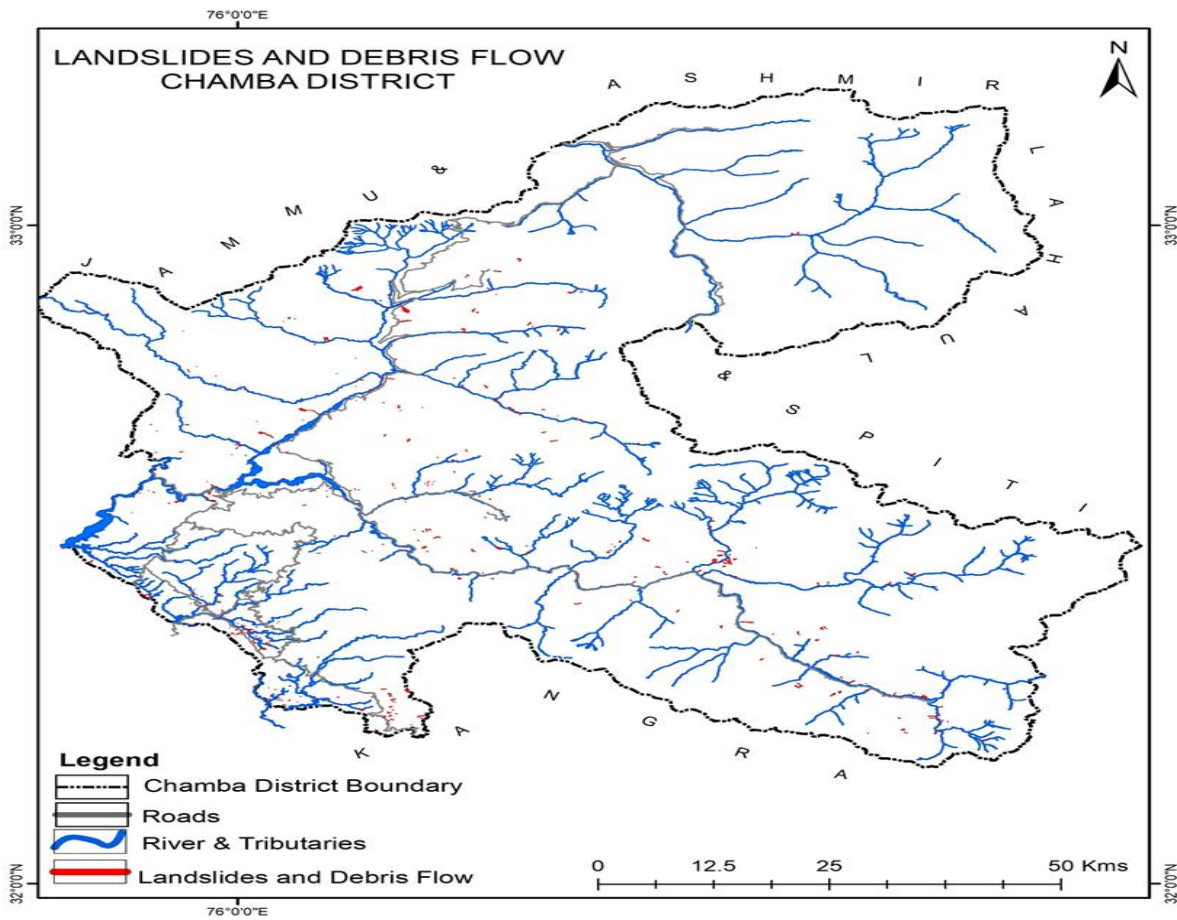
SOURCE: Indian Meterological Department, Shimla



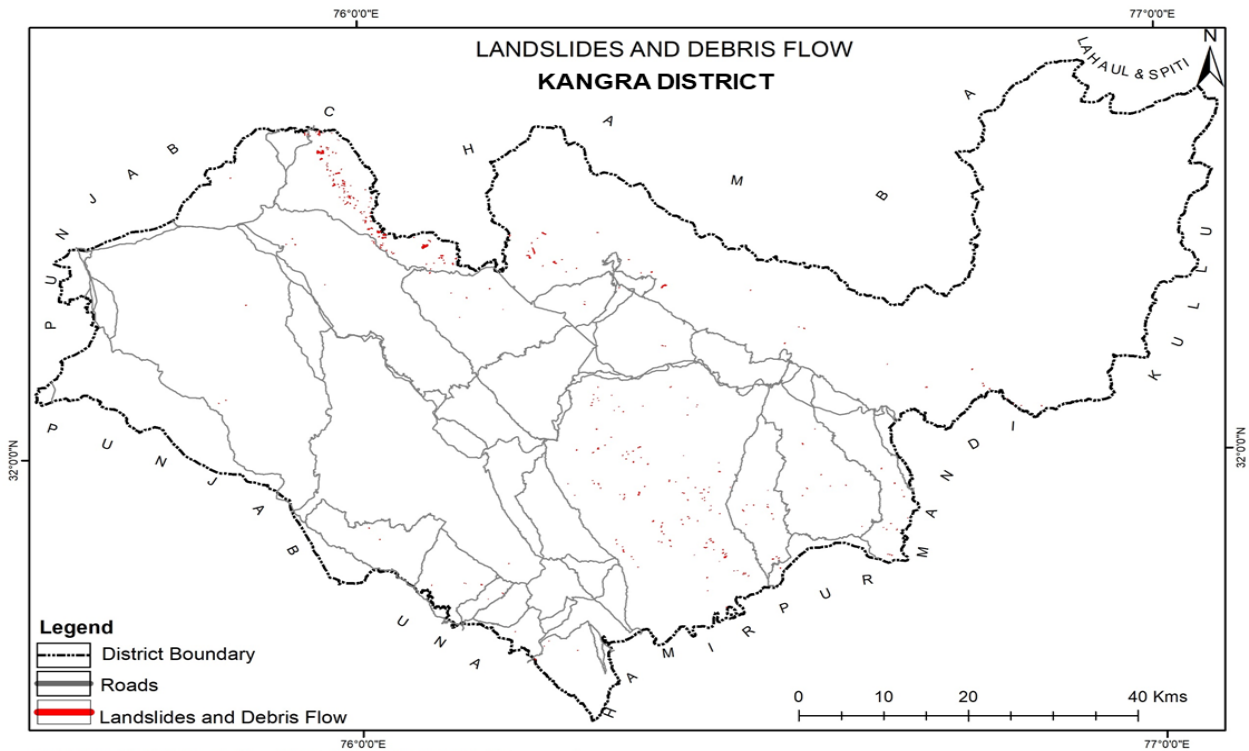
SOURCE: SENTINEL-2A/2B: JULY & AUGUST, 2023 (Multi-temporal)



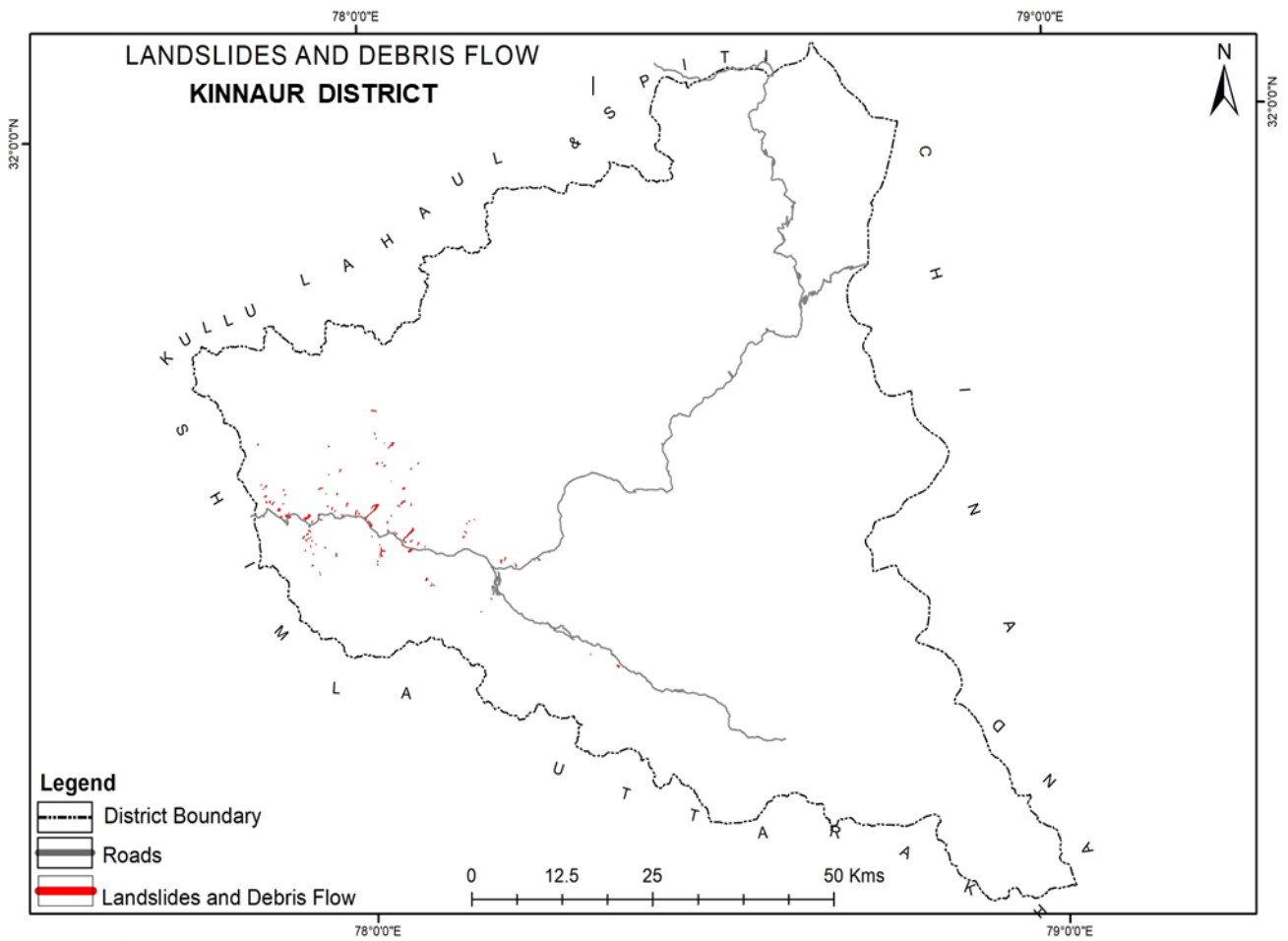
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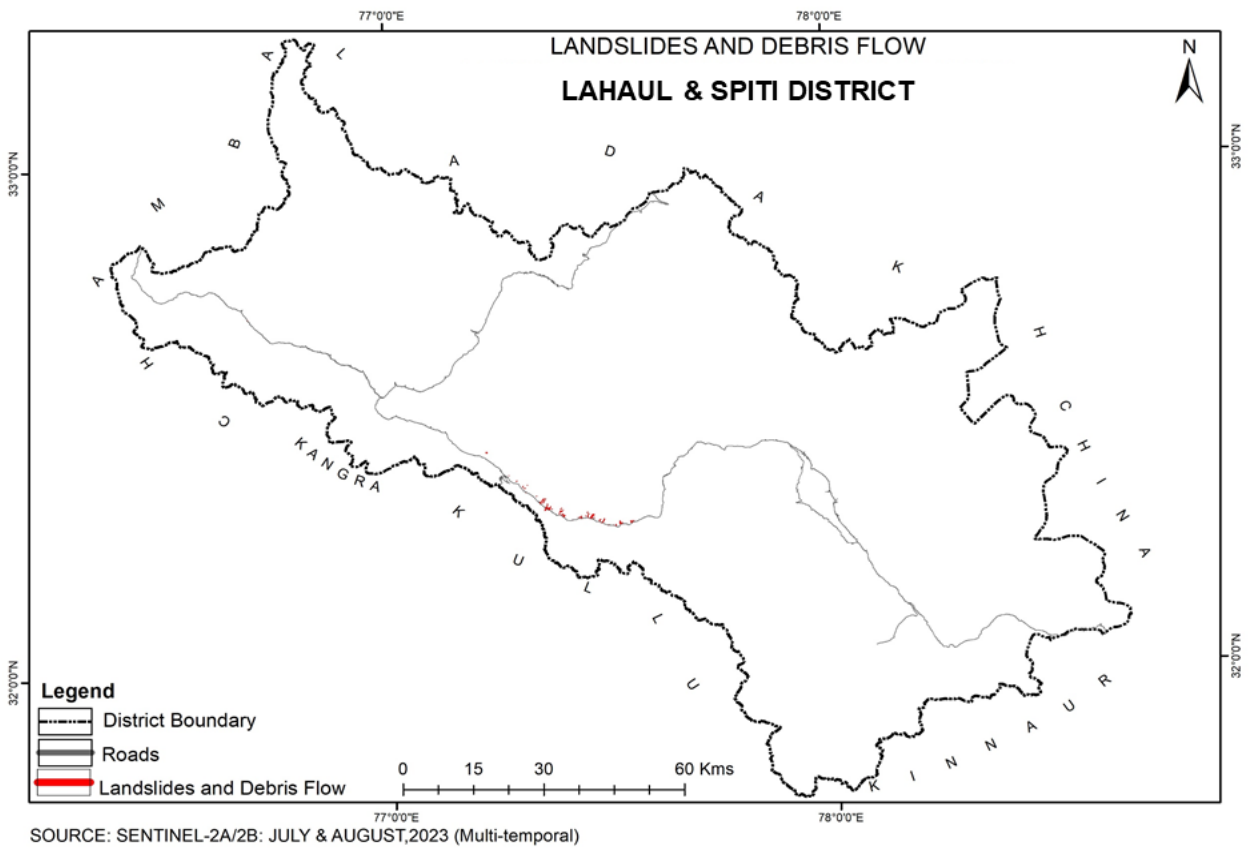
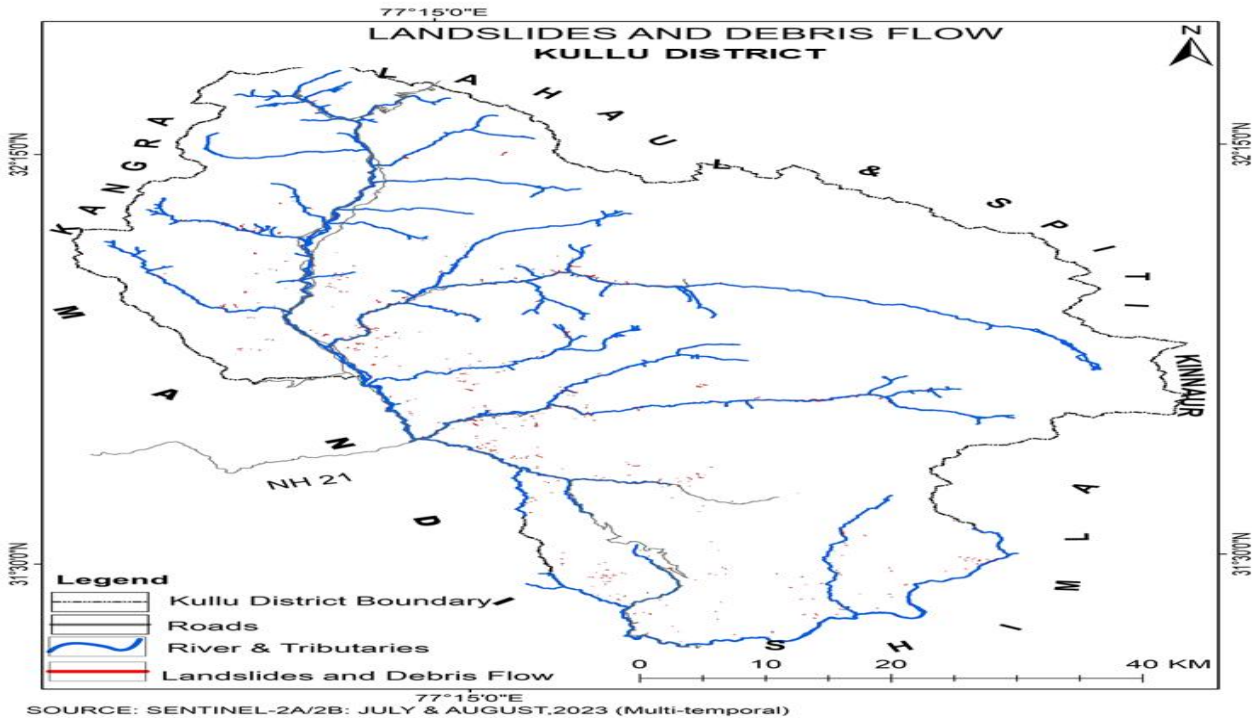
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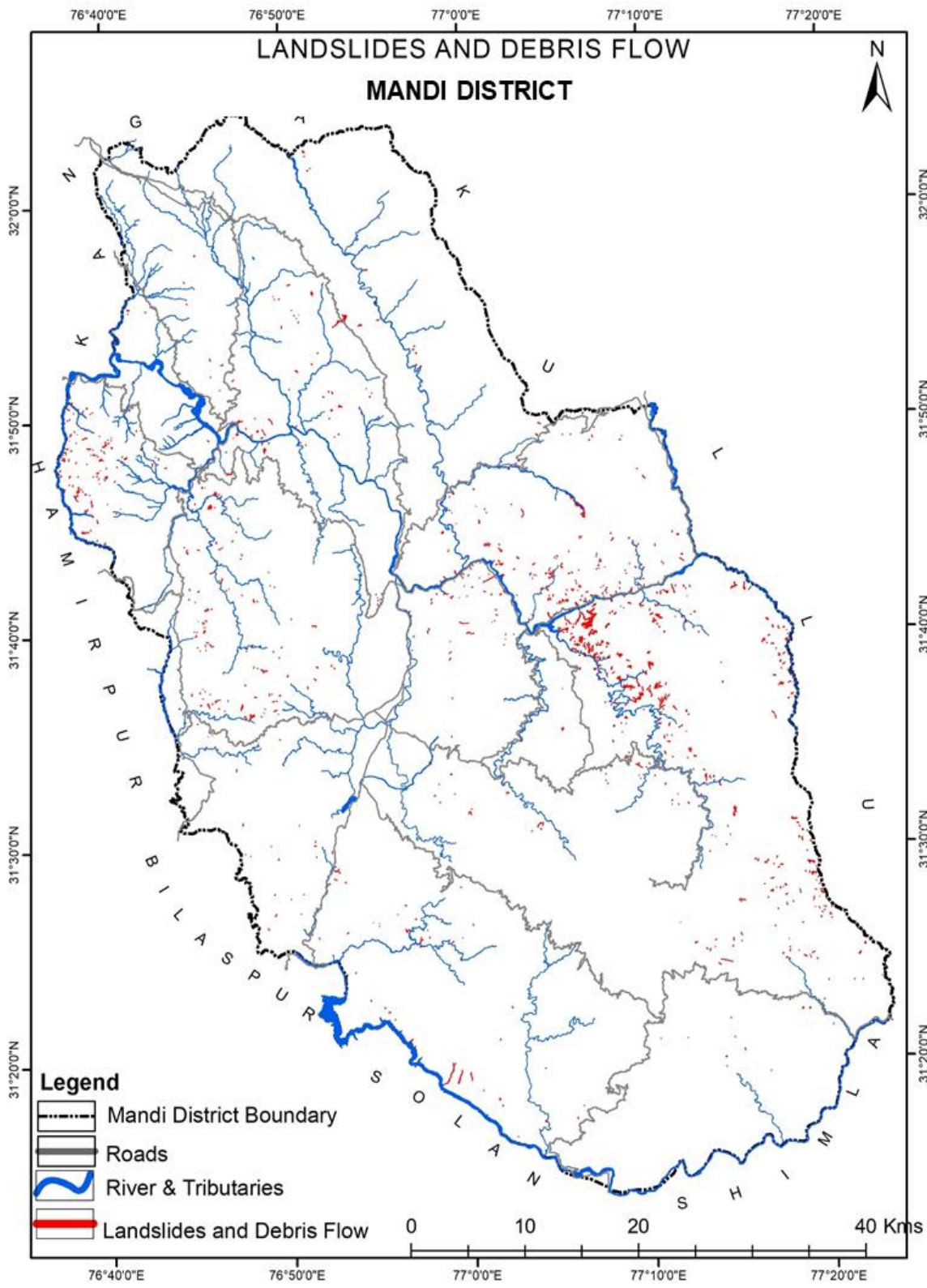


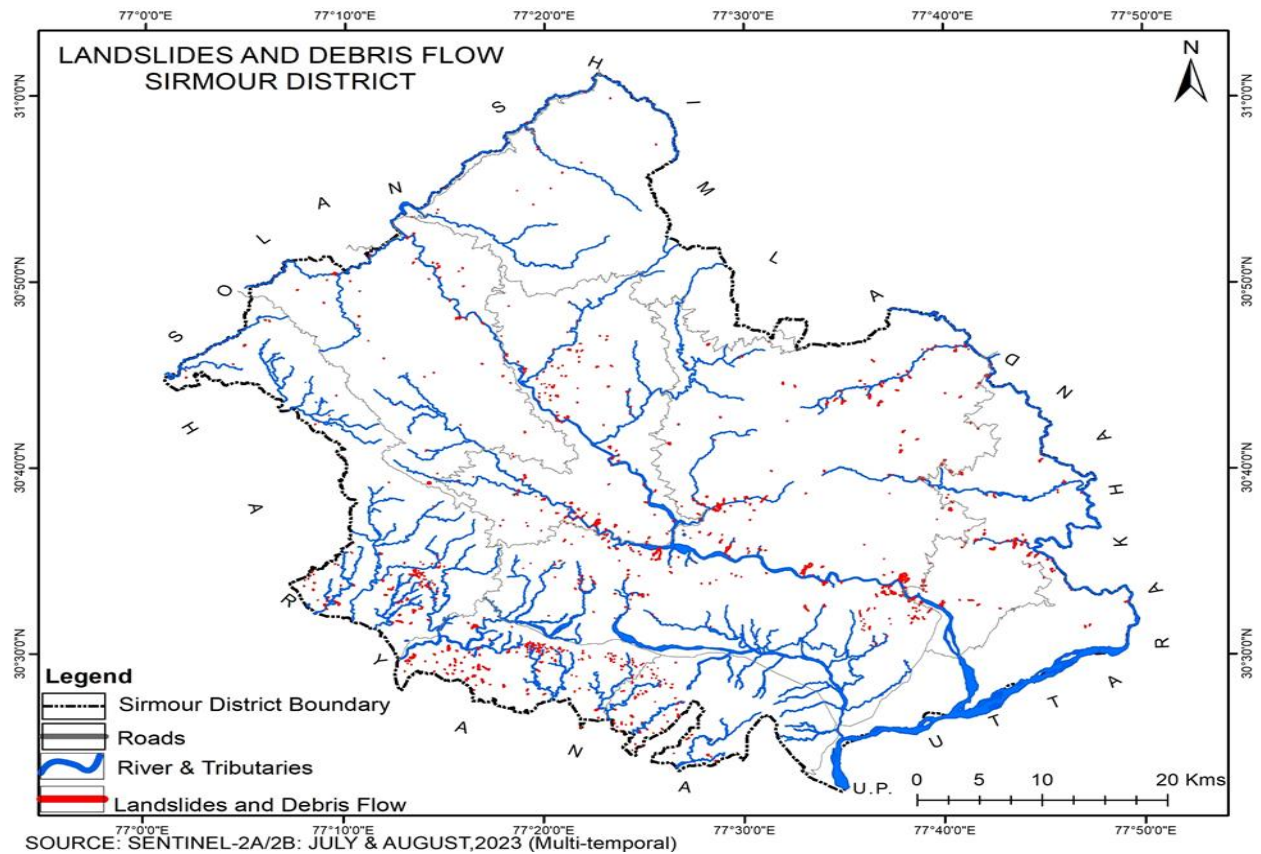
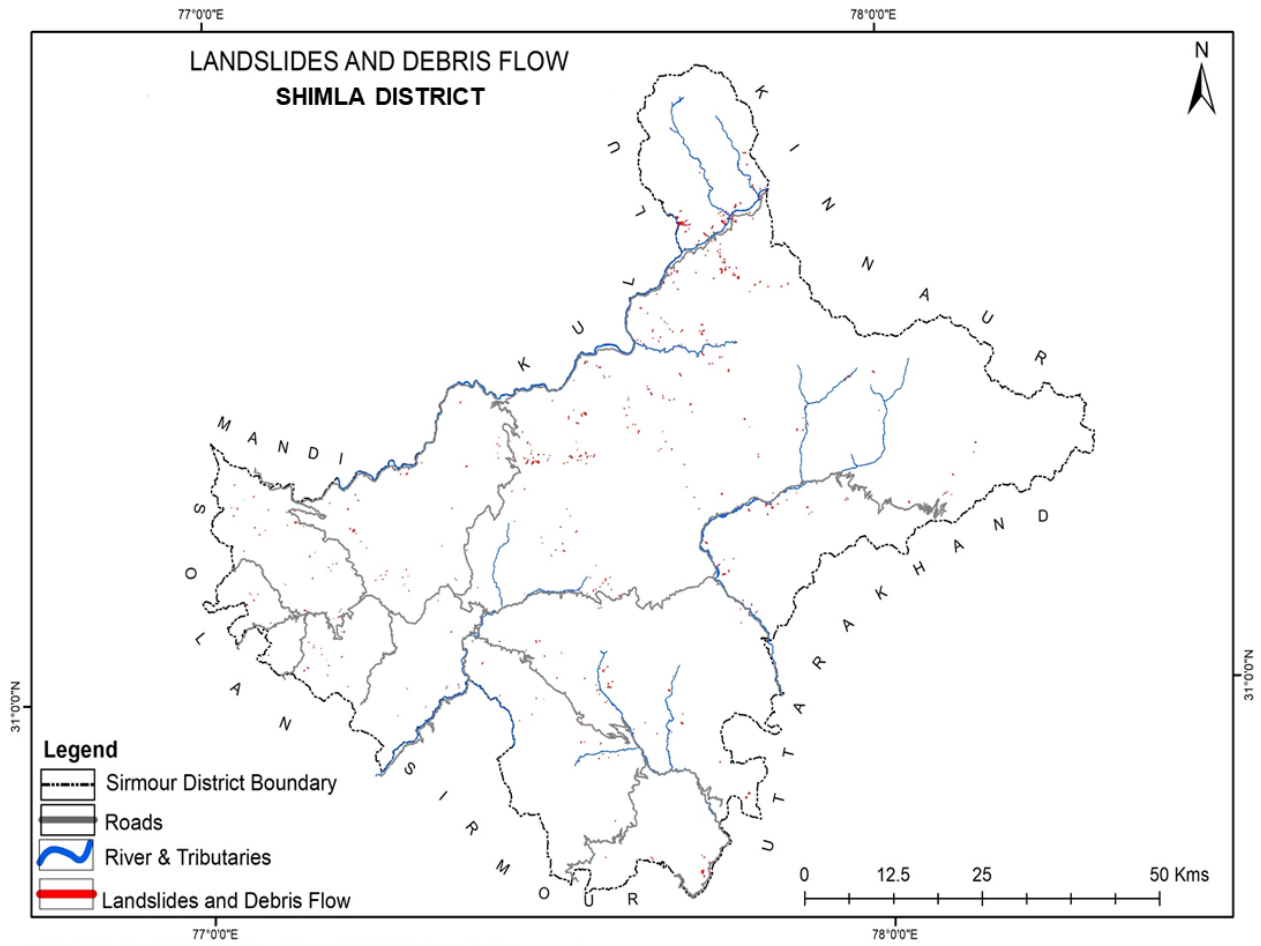
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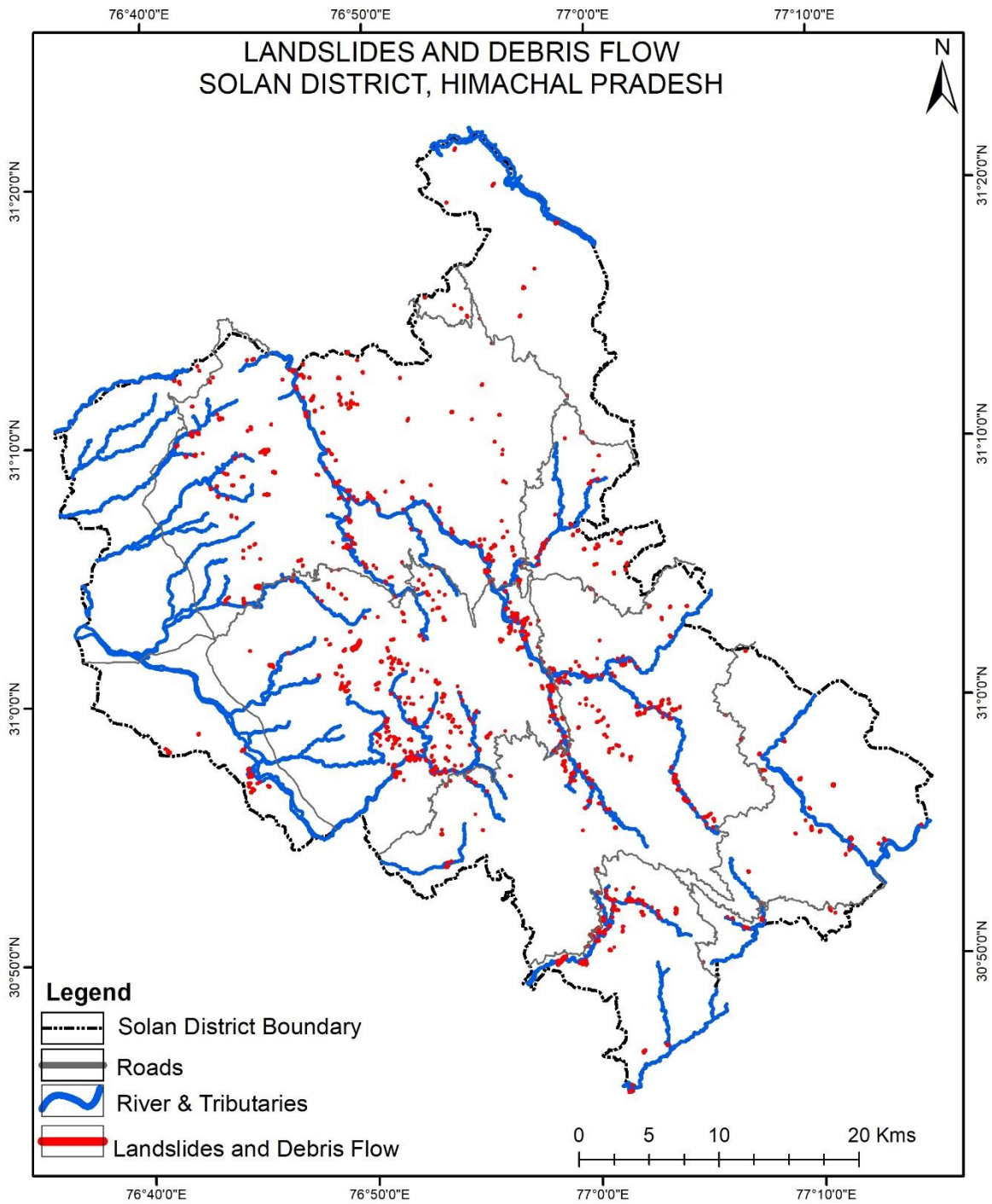


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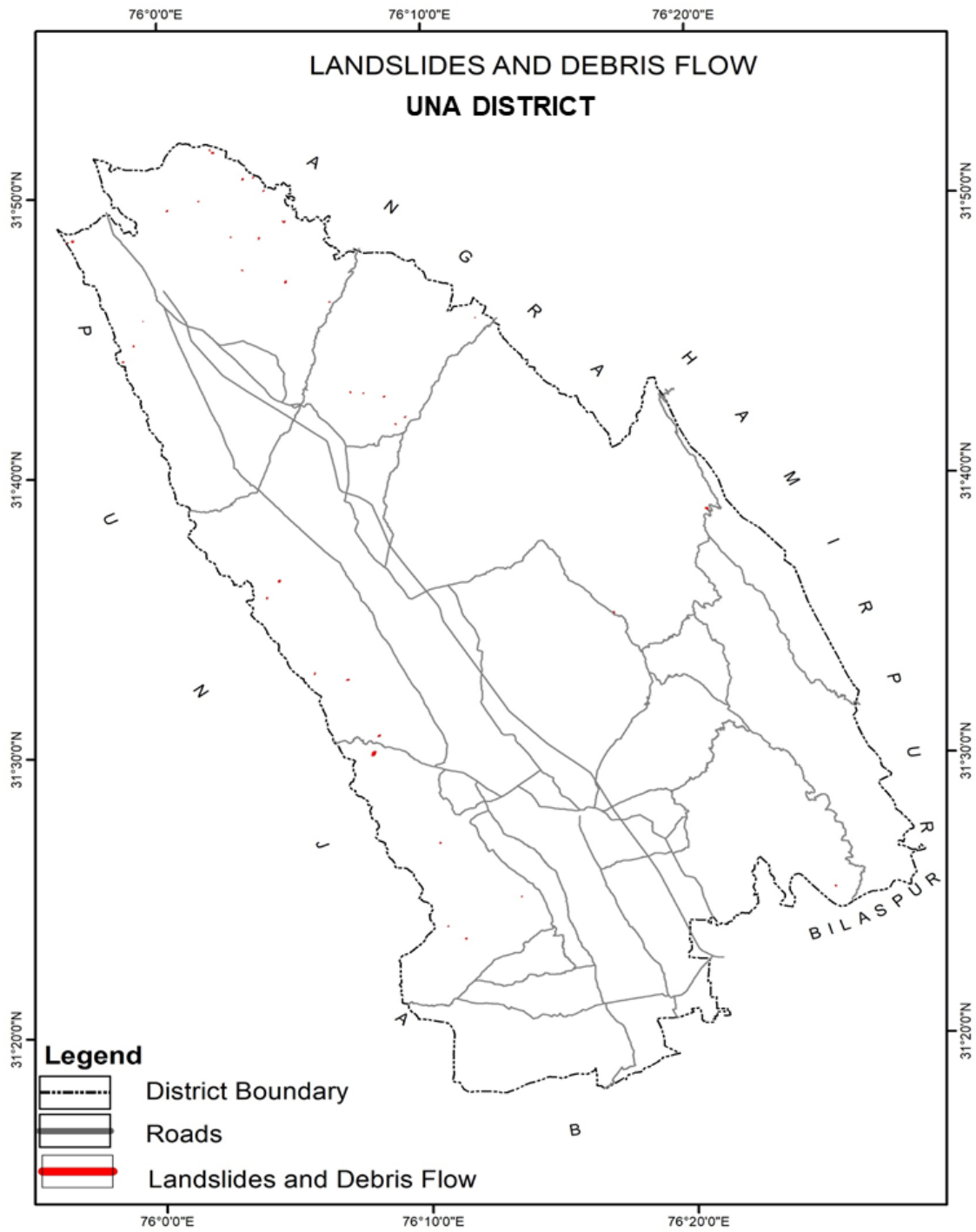




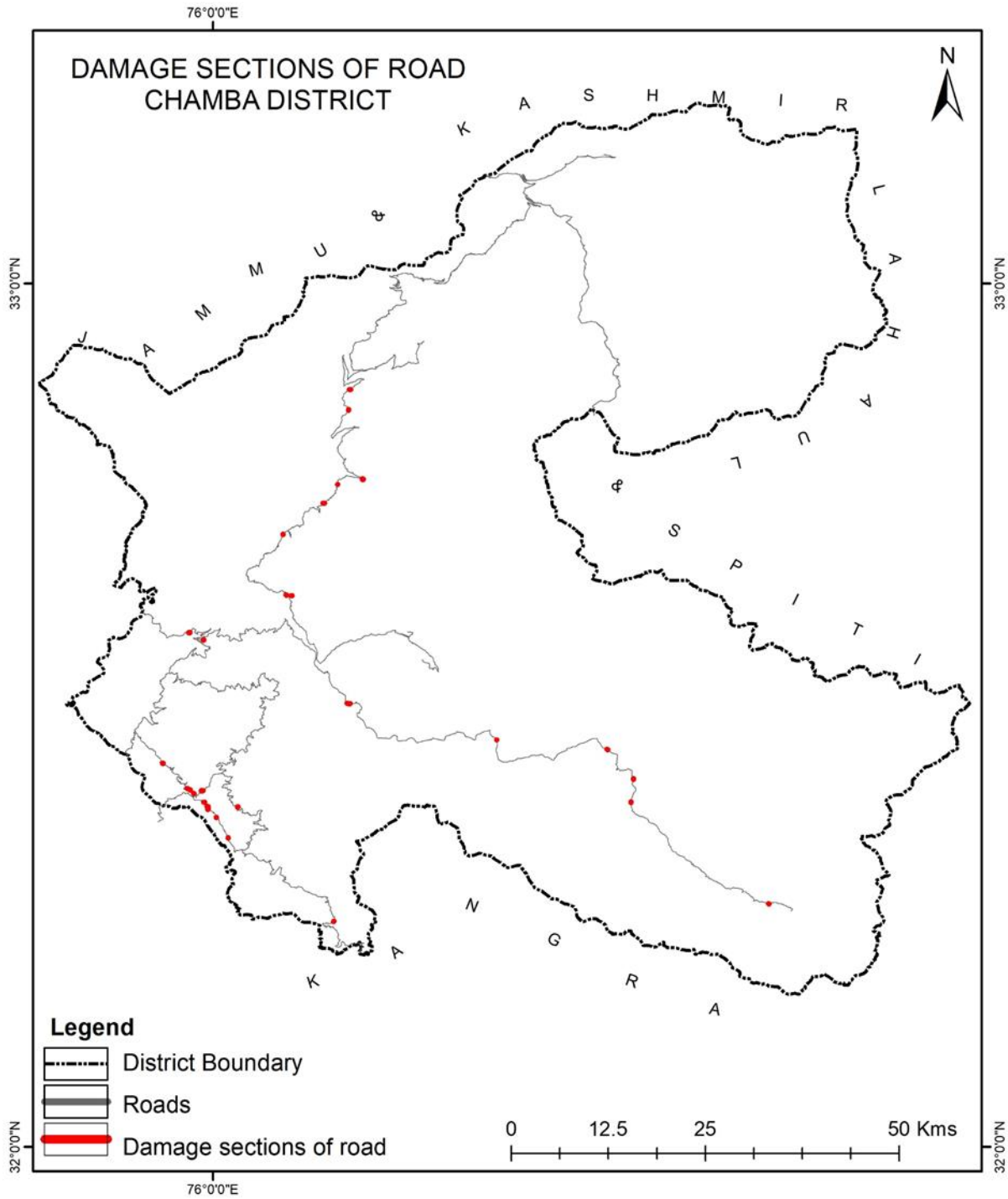




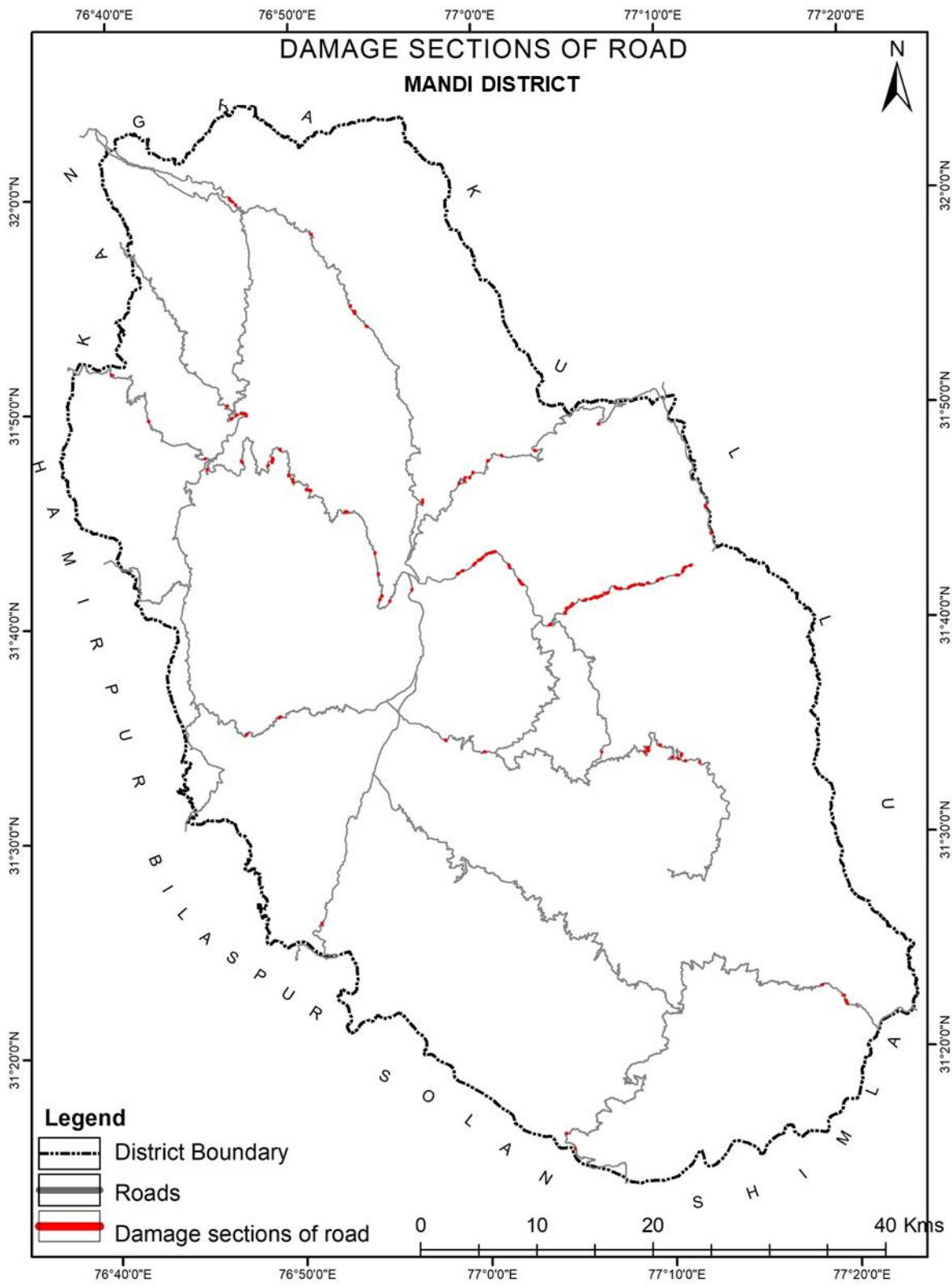
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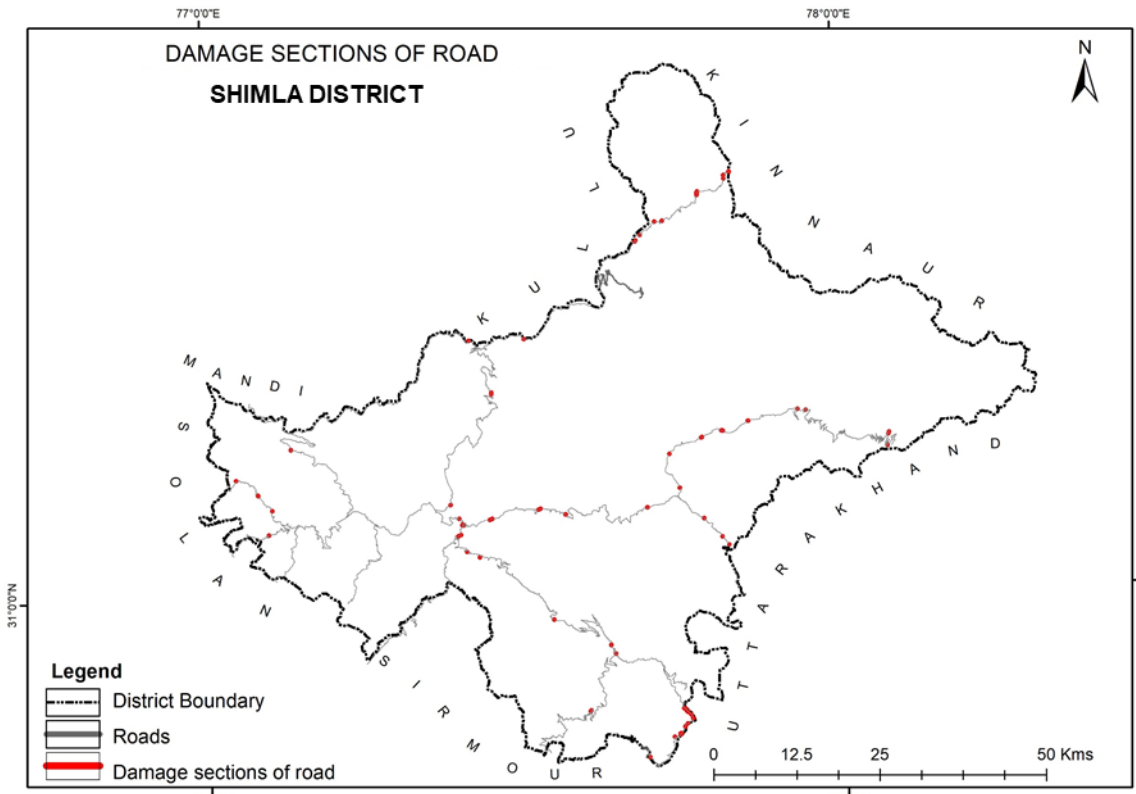


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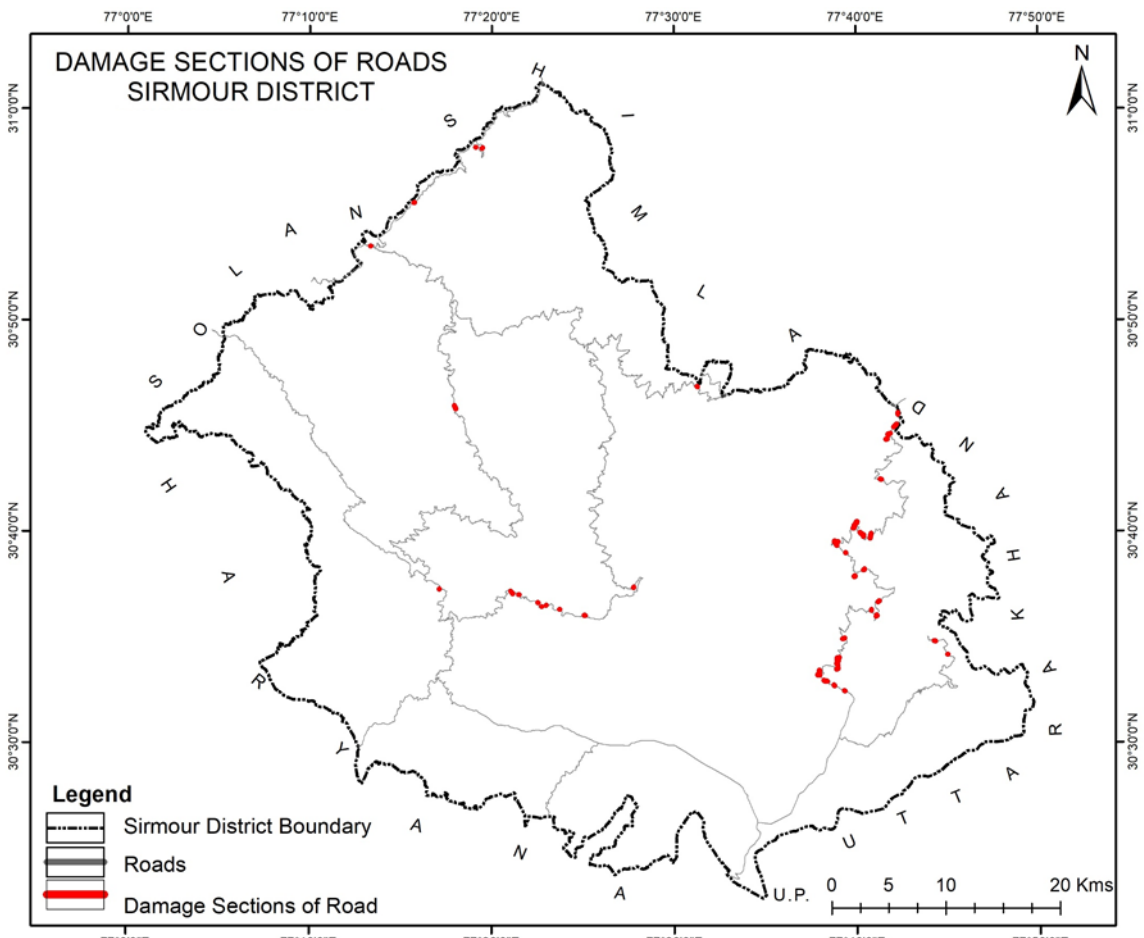


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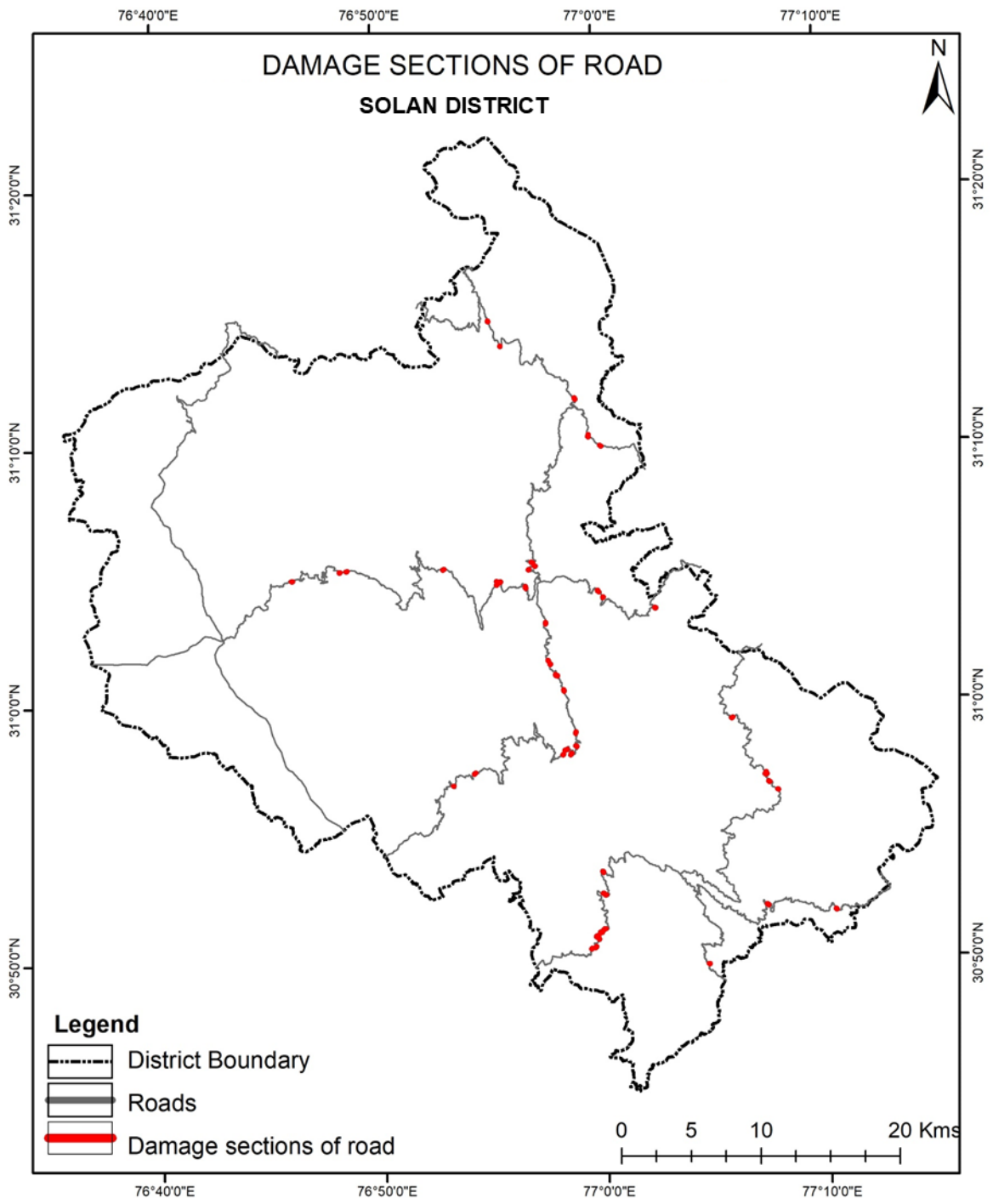




SOURCE: SENTINEL-2A/2B: JULY & AUGUST,2023 (Multi-temporal)



SOURCE: SENTINEL-2A/2B: JULY & AUGUST,2023 (Multi-temporal)



SOURCE: SENTINEL-2A/2B: JULY & AUGUST,2023 (Multi-temporal)

Table showing length of roads damaged

Damage sections of Road (KULLU DISTRICT)	
FID	Length (KM)
0	0.546406
1	0.898572
2	0.595512
3	0.155051
4	0.188278
5	0.72727
6	0.098396
7	1.93394
8	1.86969
9	0.281317
10	1.14661
11	2.01227
12	0.643265
13	2.60727
14	1.34972
15	0.534935
16	2.07636
17	1.44492
18	0.994065
19	0.093919
20	0.803466
21	0.400117
22	0.976953
23	0.948313
24	0.963465
25	5.90558
26	7.56774
27	0.236014
28	0.71971
29	0.521619
30	0.143933
31	0.096498
32	0.452428
33	0.250597
34	0.336327
35	0.737724
36	0.33957
37	0.262857
38	0.128907
39	0.493201
40	1.64759
41	0.116289

42	0.095707
43	0.269264
44	0.081916
45	0.386365
46	0.668962
47	0.075217
48	0.064486
49	0.300482
50	0.113782
51	0.1546
52	0.726358
53	0.484424
54	0.494148
55	0.181603
56	0.158088
57	0.573774
Total	49.07584

Damage sections of Roads (Mandi District)	
FID	Length_Km
0	0.198878
1	0.058826
2	0.084274
3	0.073659
4	0.122131
5	0.334591
6	0.095909
7	0.080384
8	0.099372
9	0.080482
10	0.098175
11	0.063021
12	0.064837
13	0.080632
14	0.073092
15	0.07572
16	0.127305
17	0.167609
18	0.144658
19	0.103076
20	0.121203
21	0.066962
22	0.075814
23	0.077279
24	0.078212
25	0.160287

26	0.268716
27	0.133511
28	0.182891
29	0.196616
30	0.230064
31	0.0812
32	0.127037
33	0.126761
34	0.081424
35	0.158198
36	0.153995
37	0.095539
38	0.083475
39	0.064364
40	0.098074
41	0.101271
42	0.102257
43	0.089717
44	0.053319
45	0.103878
46	0.185141
47	0.441054
48	0.186632
49	0.30691
50	0.140204
51	0.0933
52	0.180898
53	0.068198
54	0.112117
55	0.253022
56	0.172803
57	0.085623
58	0.147221
59	0.080463
60	0.102267
61	0.058787
62	0.175905
63	0.08817
64	0.101217
65	0.105164
66	0.143506
67	0.063186
68	0.113681
69	0.145114
70	0.072211
71	0.149472
72	0.0576
73	0.115427

74	0.070885
75	0.143794
76	0.106701
77	0.147026
78	0.223922
79	0.593793
80	0.240073
81	0.204213
82	0.397744
83	0.135206
84	0.272903
85	0.101262
86	0.490583
87	0.115174
88	0.27643
89	0.413163
90	0.313539
91	0.234779
92	0.290842
93	0.564943
94	0.195107
95	0.168361
96	0.14609
97	0.355321
98	0.283882
99	0.184586
100	0.049638
Total	16.00395

Damage Sections of road (District Sirmour)	
FID	Area (Km)
0	0.171073
1	0.434929
2	0.348958
3	0.180986
4	0.154435
5	0.651972
6	0.507981
7	0.320557
8	0.434524
9	0.497373
10	0.064752
11	0.055695
12	0.161248
13	0.204836
14	0.196831
15	0.082926

16	0.207076
17	0.194499
18	0.617372
19	0.229341
20	0.188783
21	0.22074
22	0.23708
23	0.382706
24	0.121743
25	0.115083
26	0.158569
27	0.047828
28	0.055469
29	0.03238
30	0.104657
31	0.078268
32	0.037552
33	0.083246
34	0.103154
35	0.107217
36	0.059514
37	0.066142
38	0.023639
39	0.061225
40	0.075126
41	0.06679
42	0.031373
43	0.101754
44	0.103426
Total	8.380828

Damage Sections of Road (District Solan)	
FID	Length_(km)
0	0.524468
1	0.506562
2	0.103166
3	0.131759
4	0.27017
5	0.064267
6	0.122555
7	0.341891
8	0.107052
9	0.07338
10	0.145337
11	0.092648
12	0.136831
13	0.07166

14	0.067686
15	0.04373
16	0.063456
17	0.059694
18	0.127141
19	0.110982
20	0.104823
21	0.227636
22	0.077725
23	0.086007
24	0.115041
25	0.170196
26	0.060964
27	0.154535
28	0.064951
29	0.088348
30	0.178409
31	0.116728
32	0.117488
33	0.07567
34	0.171658
35	0.09586
36	0.059273
37	0.072009
38	0.080447
39	0.073206
40	0.0842
41	0.107034
42	0.175891
43	0.033041
44	0.038353
45	0.121794
Total	5.915722

Damage sections of roads (Shimla District)	
FID	Length (km)
0	0.079834
1	0.09142
2	0.058133
3	0.056903
4	0.053645
5	0.074448
6	0.114072
7	0.032982
8	0.062898
9	0.043009
10	0.054896

11	0.02563
12	0.06677
13	0.063988
14	0.44834
15	0.030931
16	0.100237
17	0.053466
18	0.054637
19	0.139255
20	0.146755
21	0.137408
22	0.074055
23	0.103041
24	0.047975
25	0.054241
26	0.044085
27	0.074641
28	0.052975
29	0.058647
30	0.039579
31	0.032835
32	0.043334
33	0.123279
34	0.07354
35	0.026046
36	0.043055
37	0.103882
38	0.038478
39	0.058024
40	0.178211
41	0.279029
42	0.104645
43	0.091161
44	0.070314
45	0.041981
46	0.035647
47	0.025357
48	0.041201
49	0.029154
50	0.030859
51	0.067306
52	0.052343
53	0.079377
54	0.048779
55	0.037727
56	0.231121
57	0.0341
58	0.049991

59	0.09491
60	0.088556
61	0.03568
62	0.077499
63	0.04887
64	0.036912
65	0.029986
66	0.061796
Total	5.083881

Damage sections of roads (Chamba District)	
FID	length (Km)
0	0.157505
1	0.086118
2	0.303621
3	0.022744
4	0.184703
5	0.050389
6	0.074554
7	0.060442
8	0.077453
9	0.039795
10	0.040711
11	0.085278
12	0.064009
13	0.251878
14	0.065634
15	0.234332
16	0.120176
17	0.083887
18	0.031848
19	0.058991
20	0.039401
21	0.112537
22	0.089802
23	0.062044
24	0.031148
25	0.092833
26	0.031437
27	0.078085
28	0.099842
29	0.104194
30	0.081486
Total	2.916877

Damage Sections of Road (Kangra District)

FID	Length
0	0.039823
1	0.056034
2	0.122208
3	0.093598
4	0.075526
5	0.247347
6	0.143839
7	0.116093
8	0.058078
9	0.101832
10	0.188225
11	0.141572
12	0.149531
13	0.214558
14	0.665507
15	0.090391
16	0.091729
17	0.247849
18	0.070872
19	0.189159
20	0.300002
21	0.137922
22	0.201233
23	0.211439
24	0.082998
25	0.316167
26	0.492513
27	0.090633
28	0.230812
29	0.068667
30	0.203917
31	0.062773
32	0.060853
33	0.09766
34	0.115538
35	0.290879
36	0.115185
37	0.076138
38	0.212178
39	0.059787
40	0.141599
Total	6.672664

Damage Sections of Road (Lahaul & Spiti District)

FID	Length
0	0.213825
1	0.188951
2	0.317542
3	0.112124
4	0.66286
5	0.131355
6	0.179098
7	0.354729
8	0.191602
9	0.13904
10	0.625787
11	0.538459
12	0.272872
13	0.136138
14	0.695196
15	0.699162
Total	5.45874

Damage sections of Roads (Hamirpur District)

FID	Length
0	0.357132
1	0.110275
2	0.267174
Total	0.734581

Damage sections of Road (Bilaspur District)

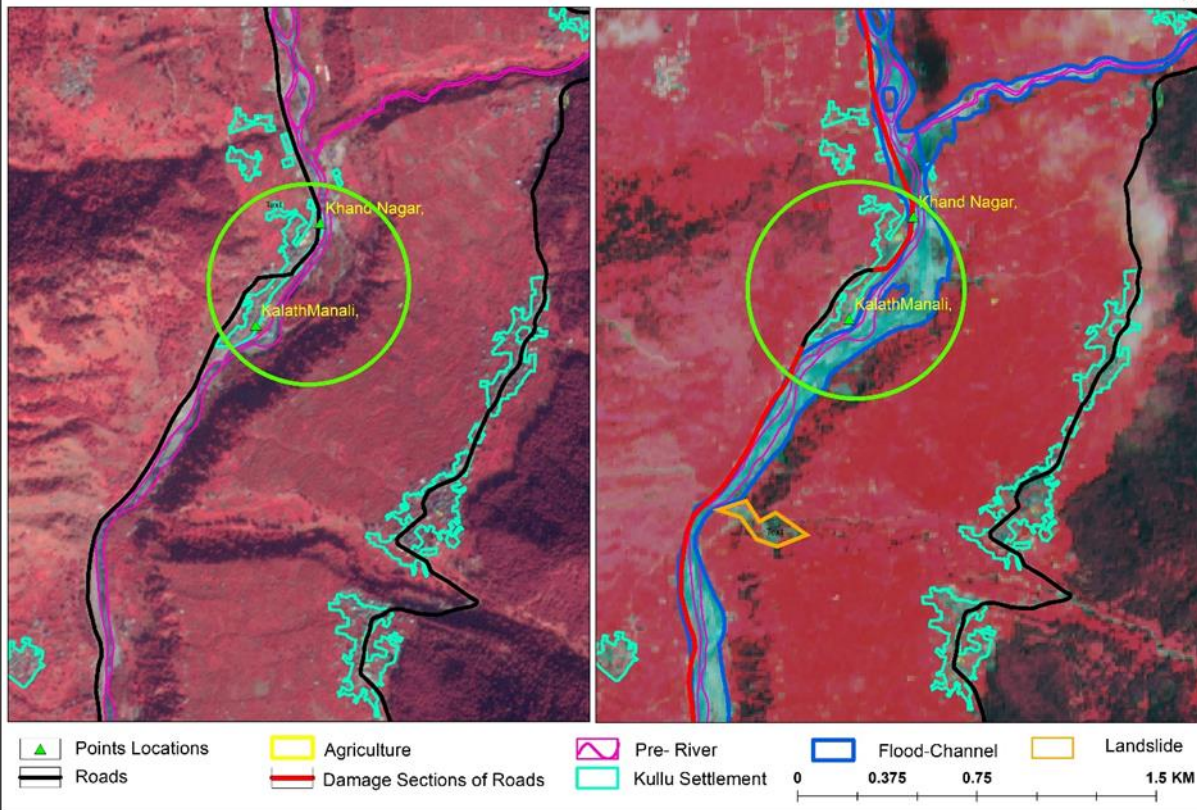
FID	Length
0	0.083658
1	0.108126
2	0.199567
3	0.069943
4	0.25027
5	0.141405
6	0.157569
7	0.107615
8	0.064049
Total	1.182202

Damage sections of Road (Kinnaur District)

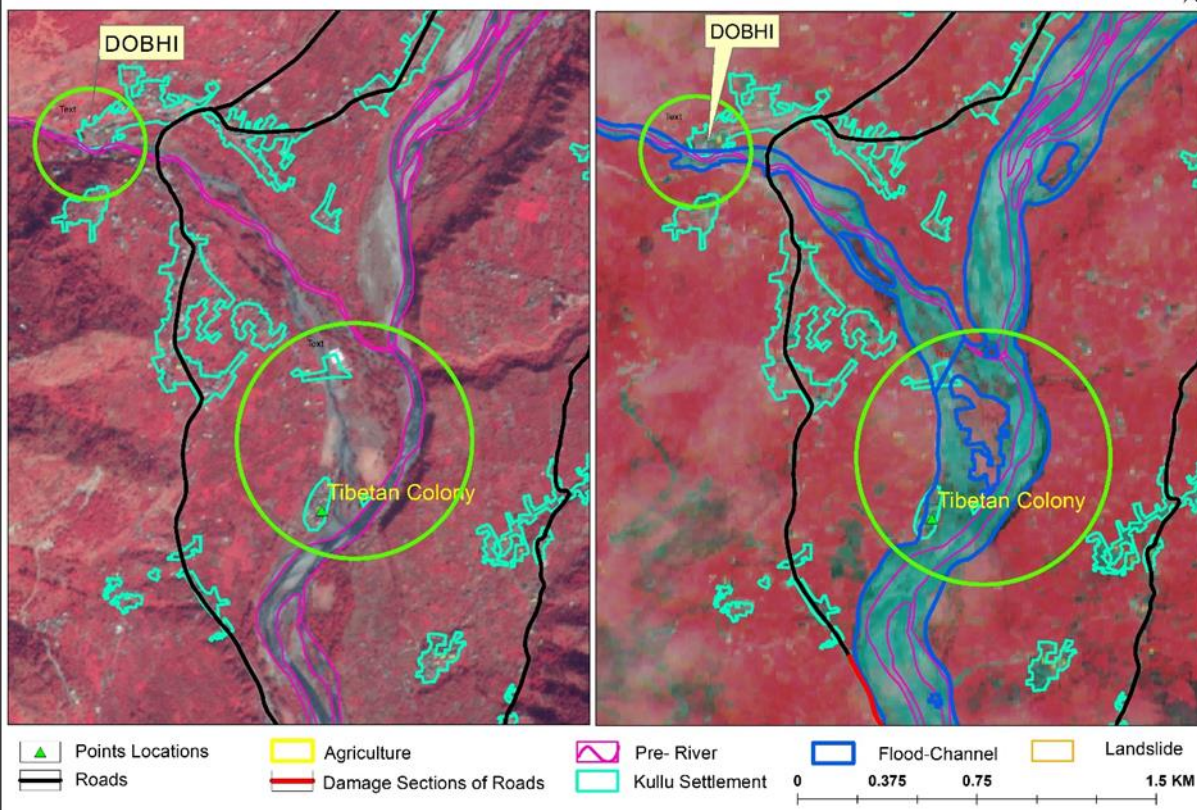
FID	Length (KM)
0	0.546406
1	0.898572
2	0.595512

3	0.155051
4	0.188278
5	0.72727
6	0.098396
7	1.93394
8	1.86969
9	0.281317
10	1.14661
11	2.01227
12	0.643265
13	2.60727
14	1.34972
15	0.534935
16	2.07636
17	1.44492
18	0.994065
19	0.093919
20	0.803466
21	0.400117
22	0.976953
23	0.948313
24	0.963465
25	5.90558
26	7.56774
27	0.236014
28	0.71971
29	0.521619
30	0.143933
31	0.096498
32	0.452428
33	0.250597
34	0.336327
35	0.737724
36	0.33957
37	0.262857
38	0.128907
39	0.493201
40	1.64759
41	0.116289
42	0.095707
43	0.269264
44	0.081916
45	0.386365
46	0.668962
47	0.075217
48	0.064486

LOSS & DAMAGE NEAR KALATH, MANALI



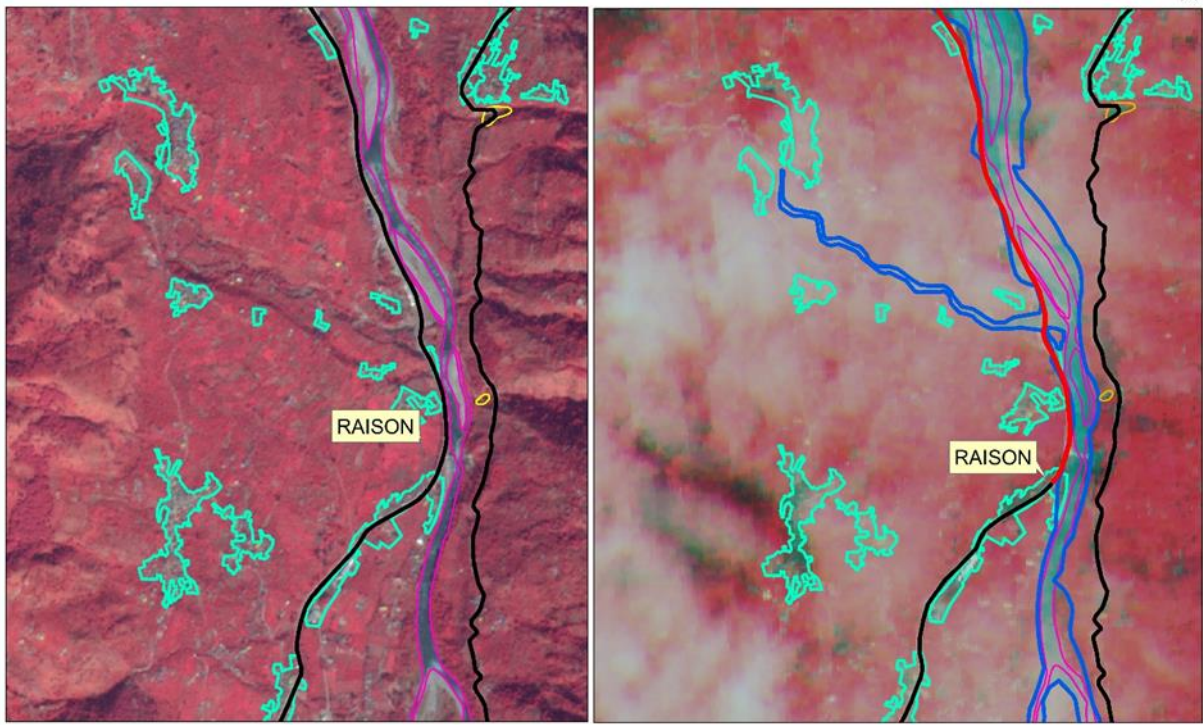
LOSS & DAMAGE NEAR TIBETAN COLONY, KULLU



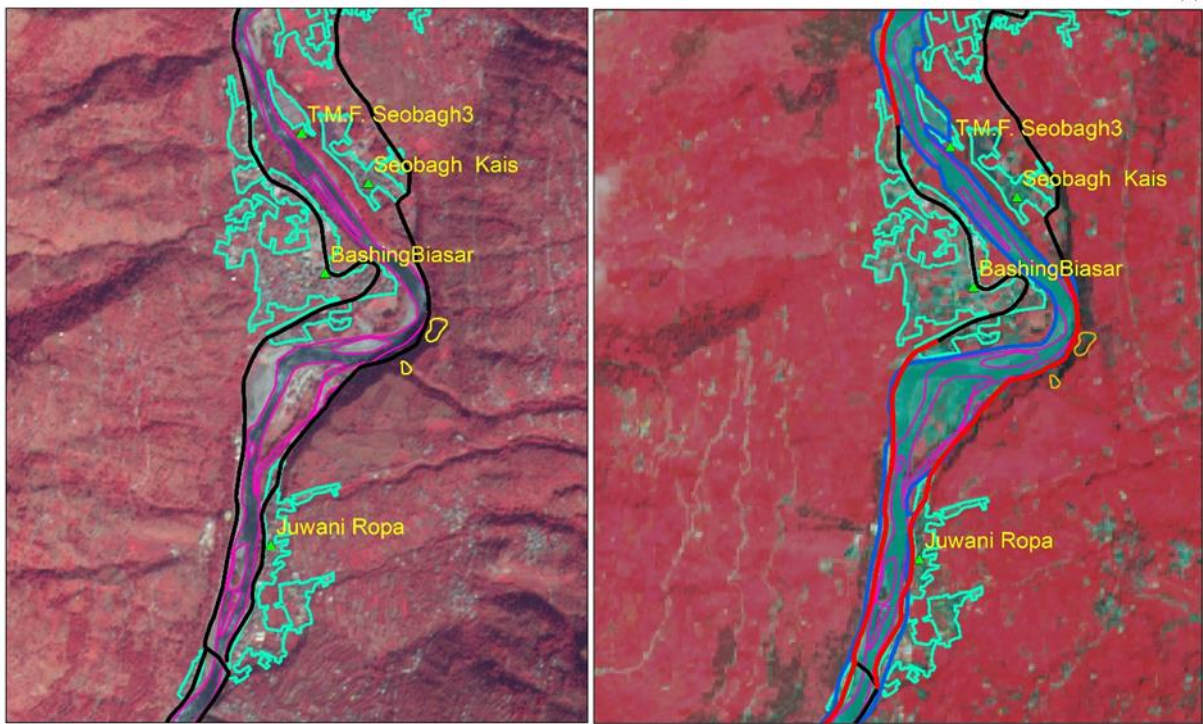
Pre (LISS IV)

Post (Sentinel 2A/ 2B)

LOSS & DAMAGE NEAR RAISON, KULLU



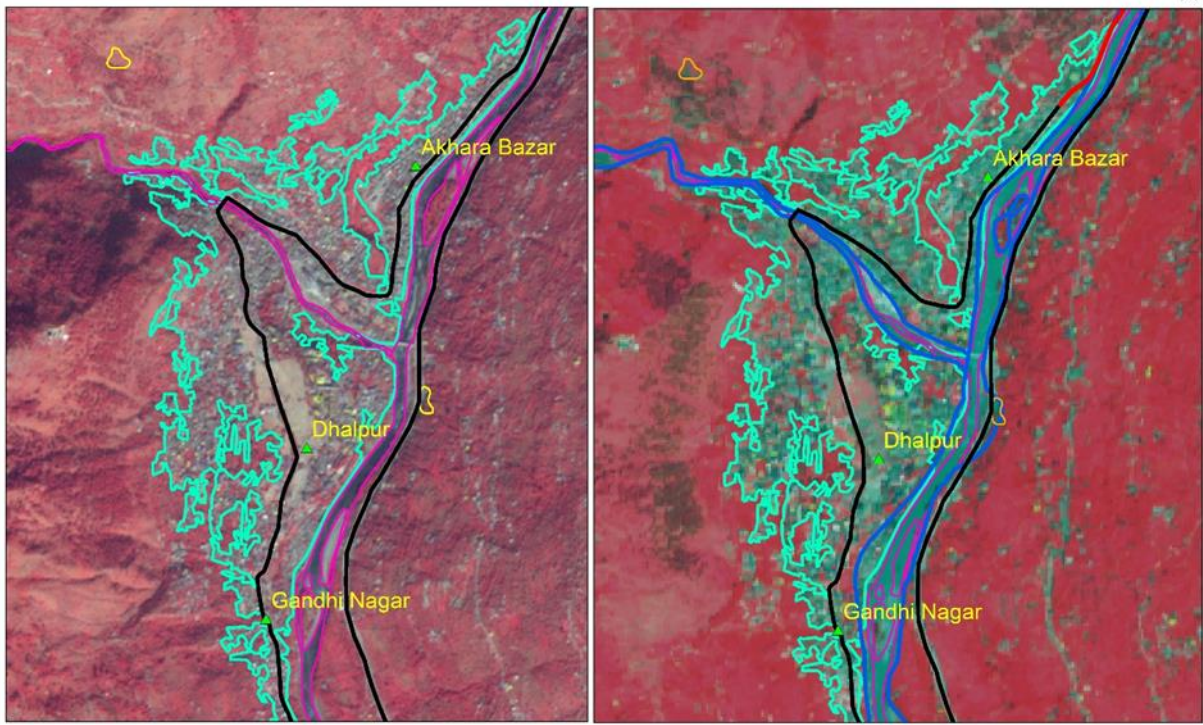
LOSS & DAMAGE NEAR SEOBAGH KAIS, KULLU



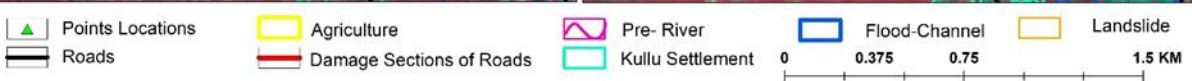
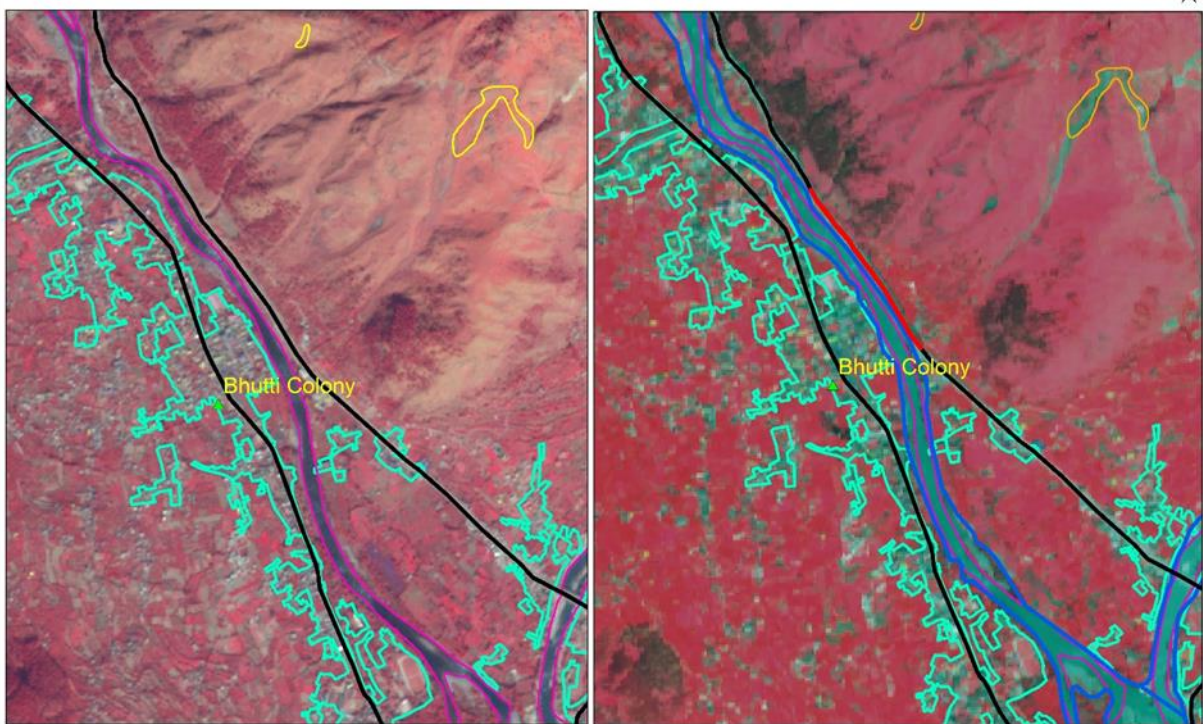
Pre (LISS IV)

Post (Sentinel 2A/ 2B)

LOSS & DAMAGE NEAR AKHARA BAZAR, KULLU



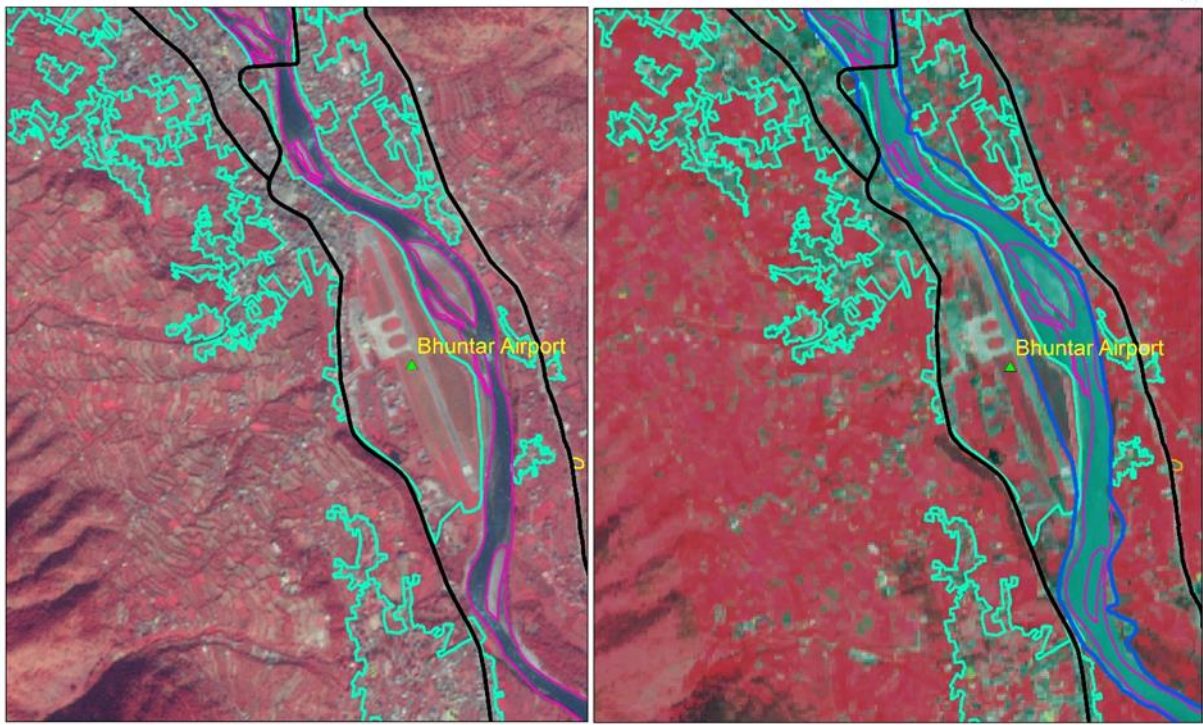
LOSS & DAMAGE NEAR BHUTTI COLONY, KULLU



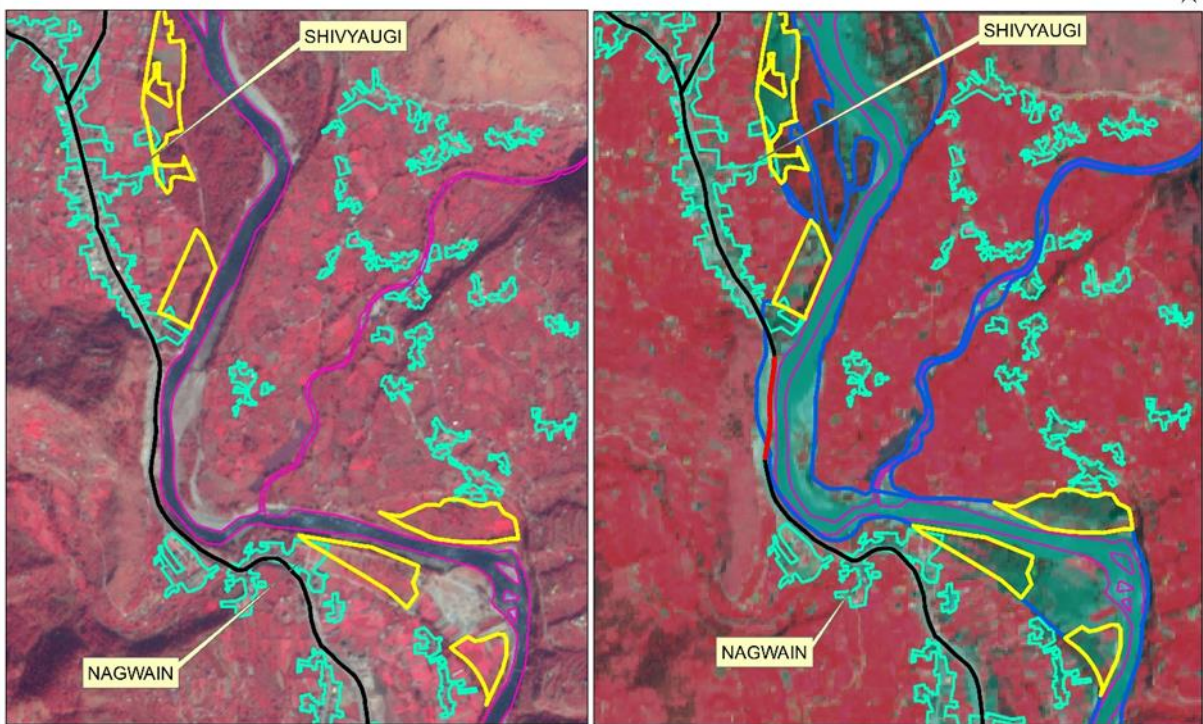
Pre (LISS IV)

Post (Sentinel 2A/ 2B)

LOSS & DAMAGE NEAR BHUNTAR AIRPORT, KULLU



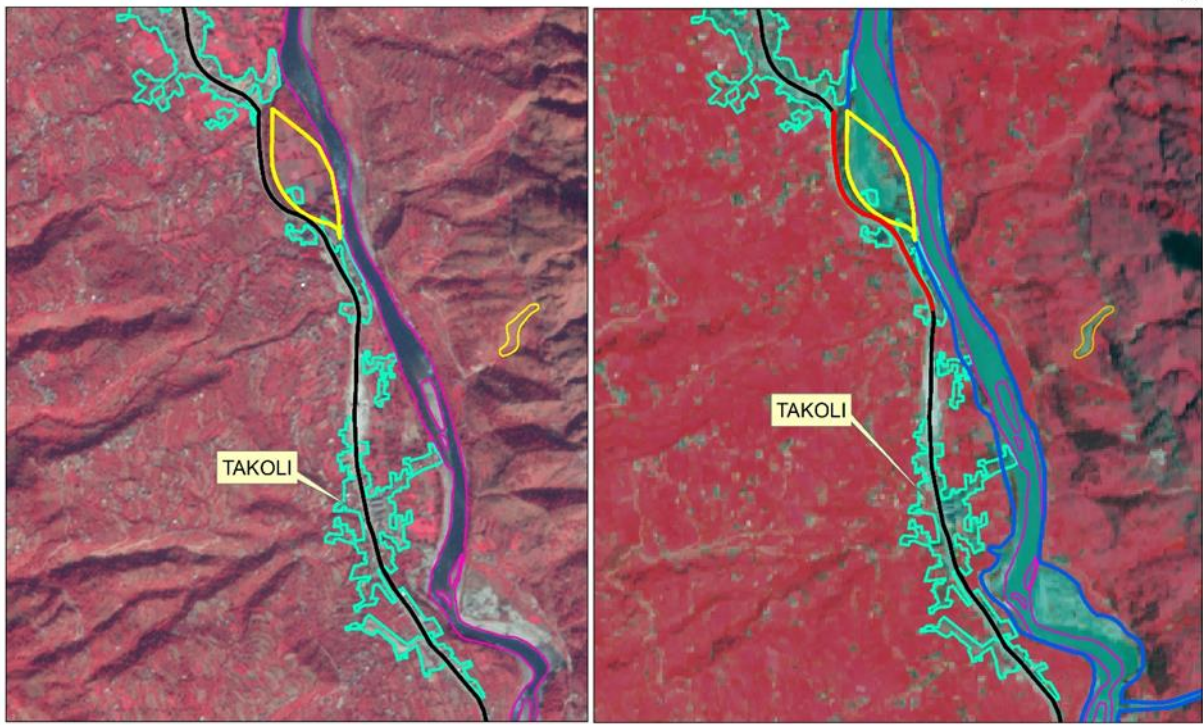
LOSS & DAMAGE NEAR SHIVYAUGI KULLU



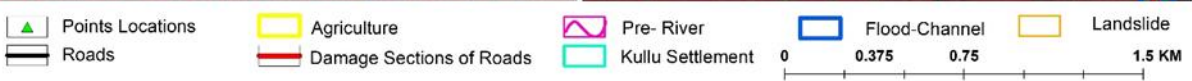
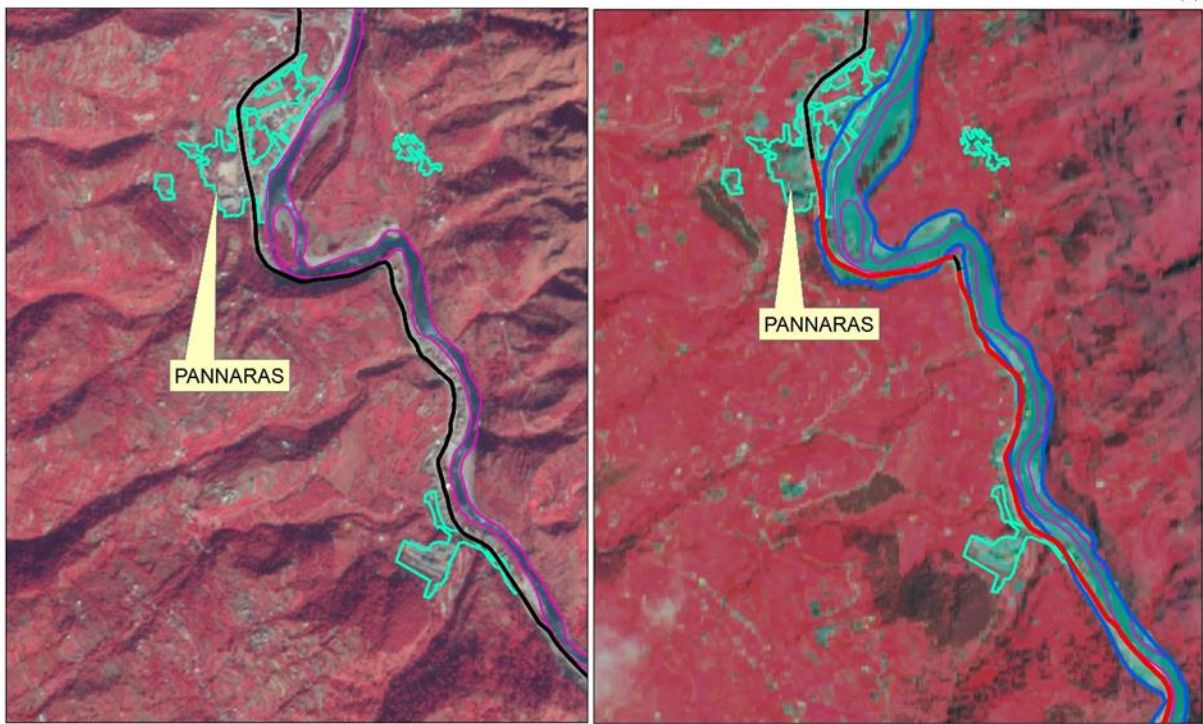
Pre (LISS IV)

Post (Sentinel 2A/ 2B)

LOSS & DAMAGE NEAR TAKOLI, KULLU



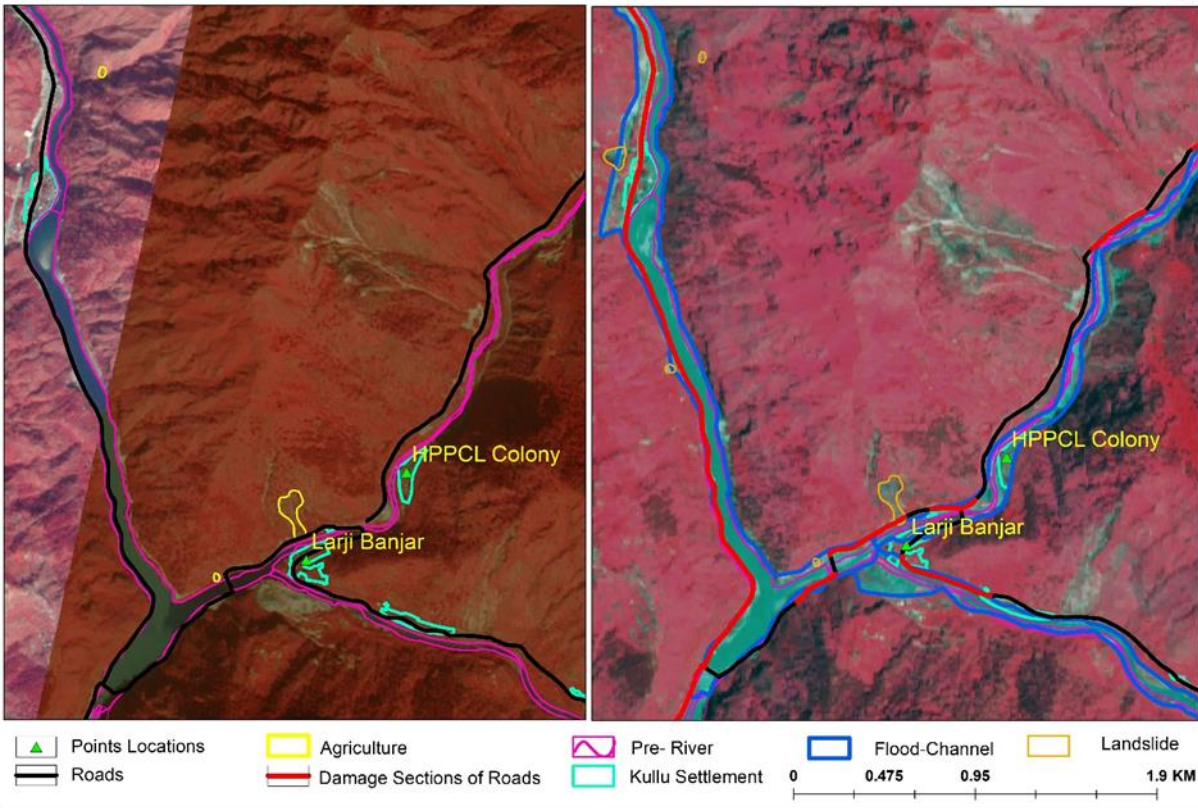
LOSS & DAMAGE NEAR PANNARAS, KULLU



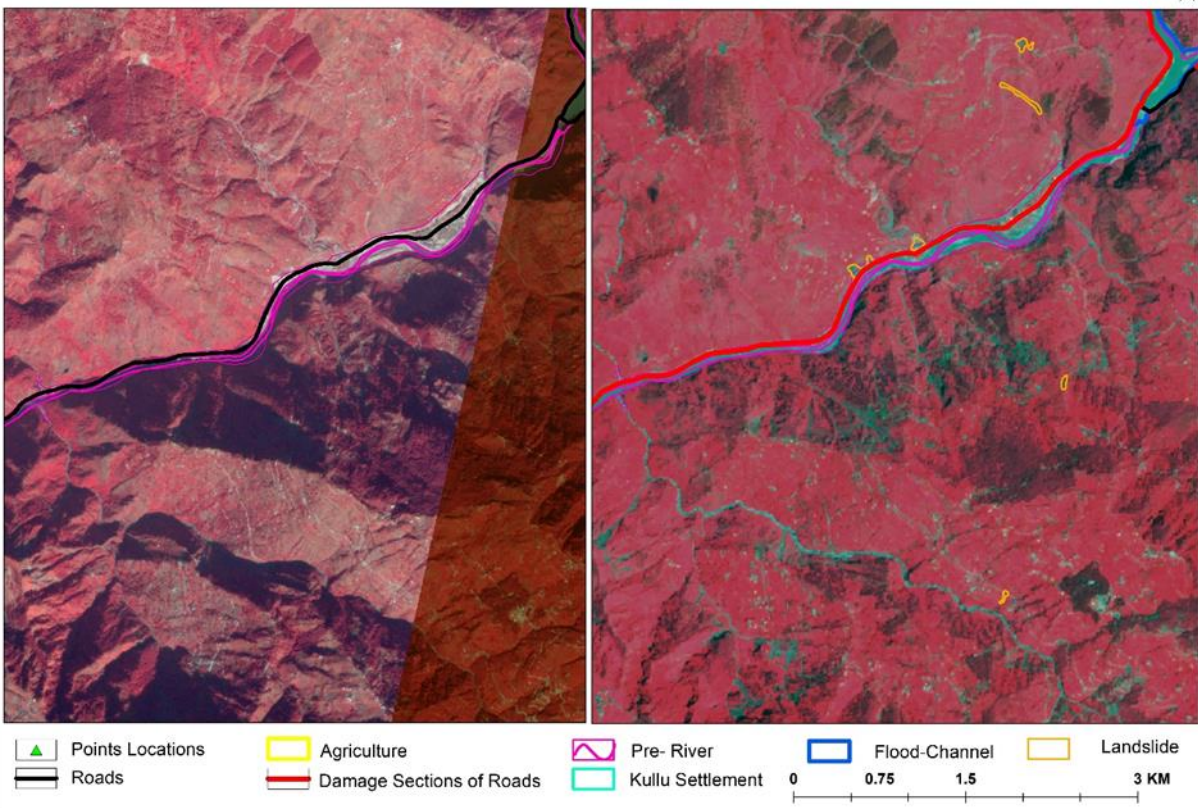
Pre (LISS IV)

Post (Sentinel 2A/ 2B)

LOSS & DAMAGE NEAR LARJI, KULLU



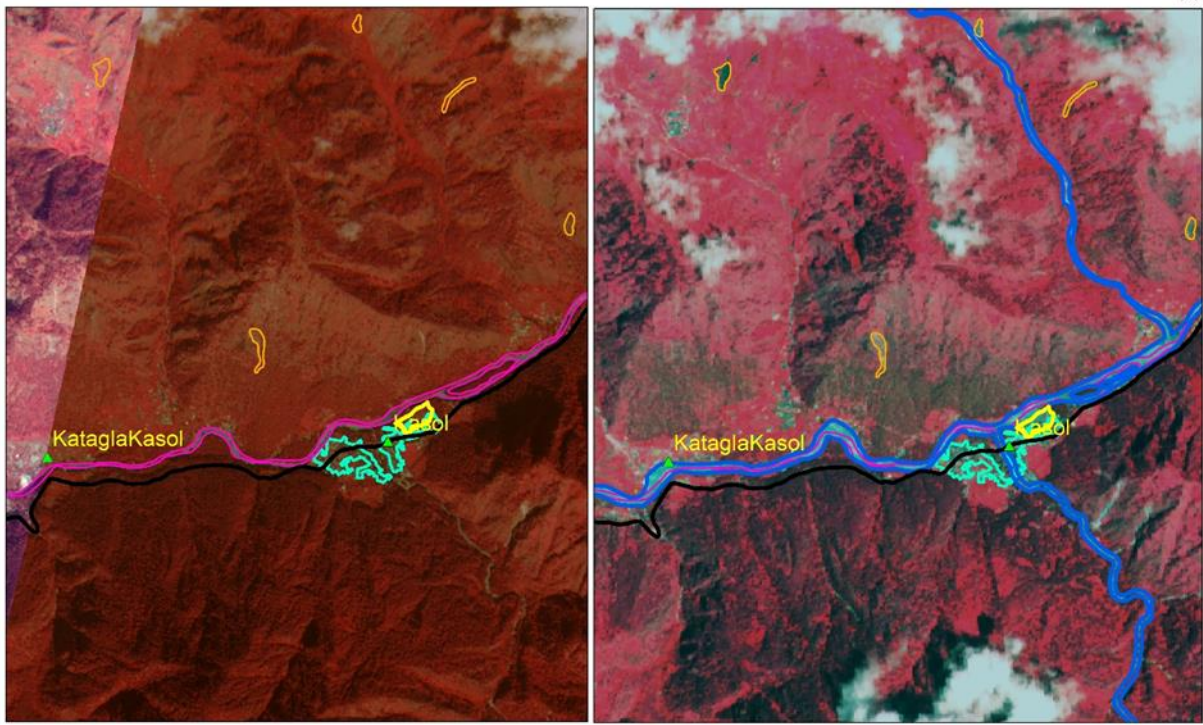
LOSS & DAMAGE NH 21 near LARJI towards MANDI



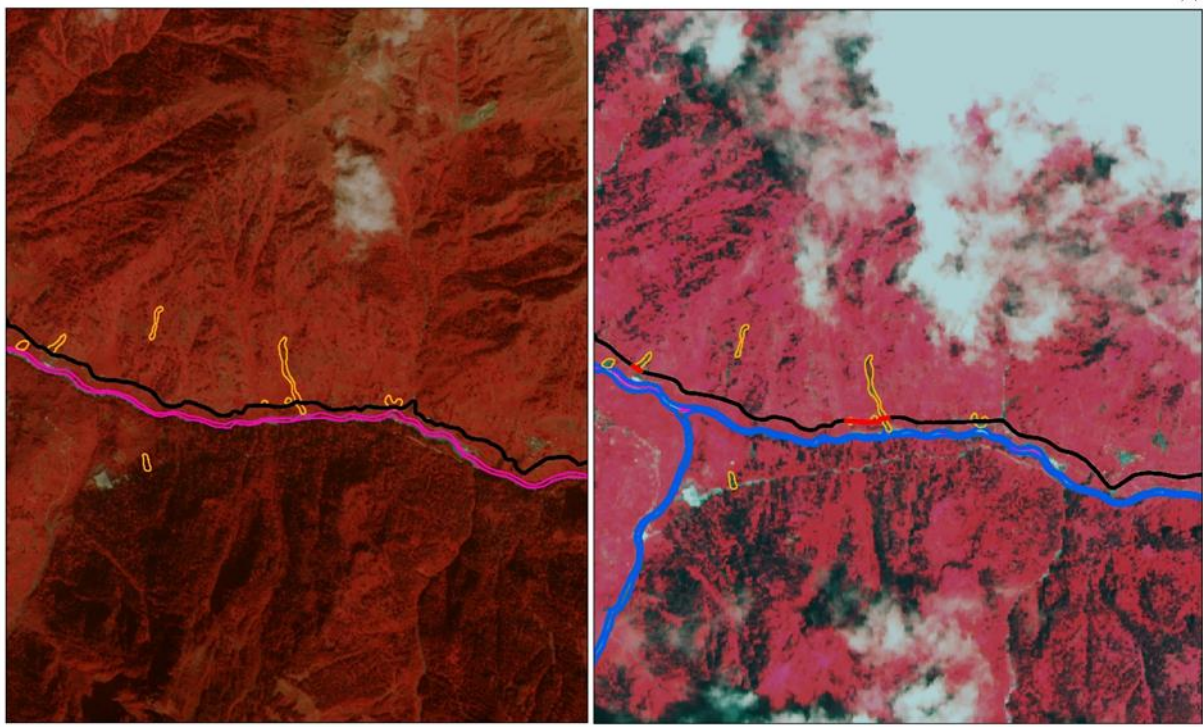
Pre (LISS IV)

Post (Sentinel 2A/ 2B)

LOSS & DAMAGE NEAR KASOL, KULLU



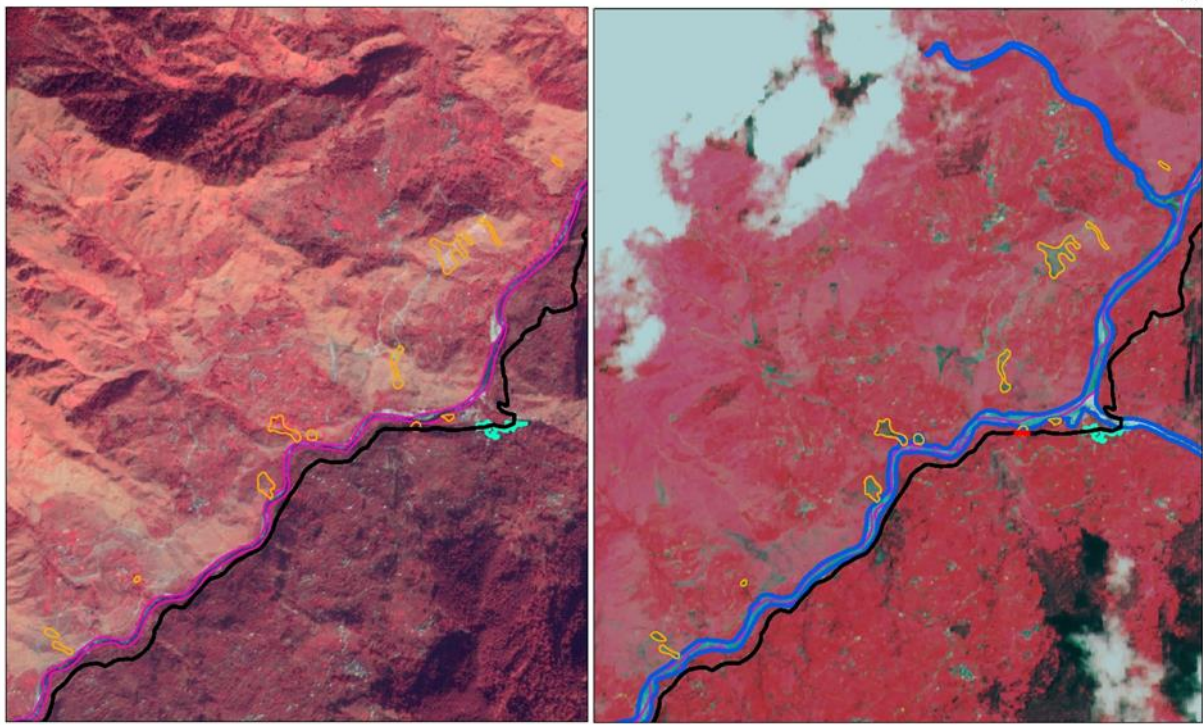
LOSS & DAMAGE NEAR MANIKARAN, KULLU



Pre (LISS IV)

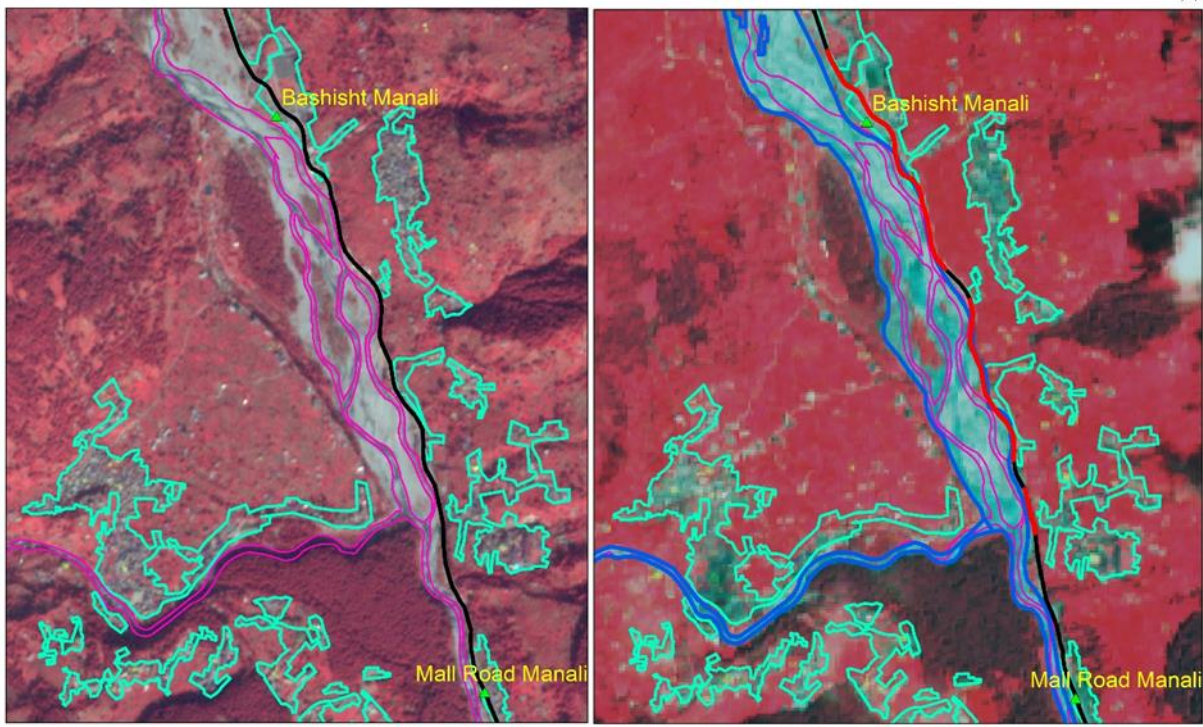
Post (Sentinel 2A/ 2B)

LOSS & DAMAGE NEAR CHARROUR NALLAH, KULLU



- Points Locations
- Agriculture
- Pre- River
- Flood-Channel
- Landslide
- Roads
- Damage Sections of Roads
- Kullu Settlement

LOSS & DAMAGE NEAR BASHISHT MANALI, KULLU

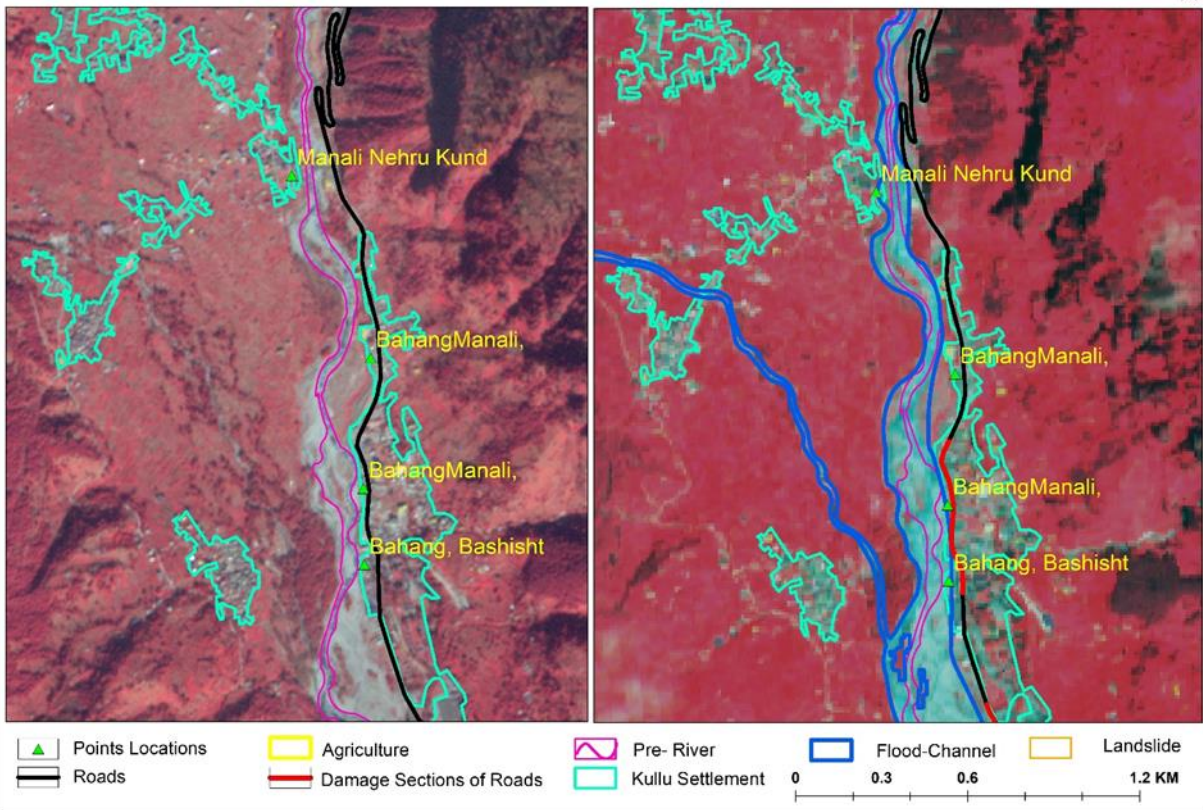


- Points Locations
- Agriculture
- Pre- River
- Flood-Channel
- Landslide
- Roads
- Damage Sections of Roads
- Kullu Settlement

Pre (LISS IV)

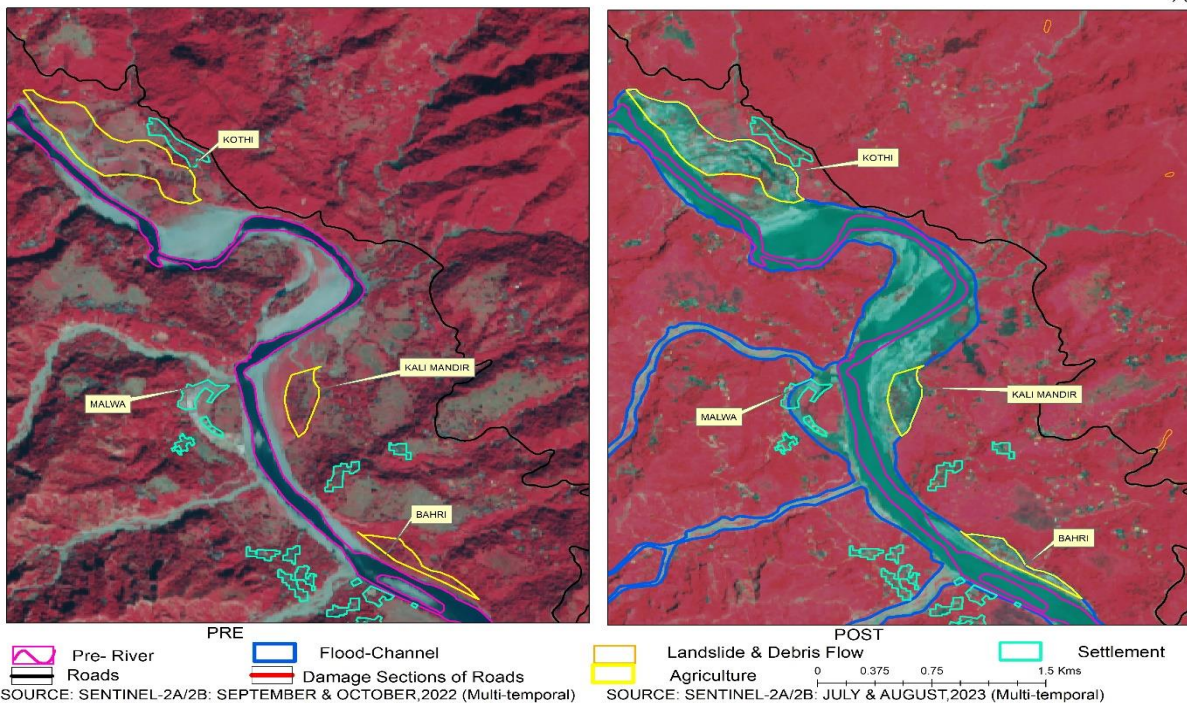
Post (Sentinel 2A/ 2B)

LOSS & DAMAGE NEAR BASHISHT, MANALI, KULLU

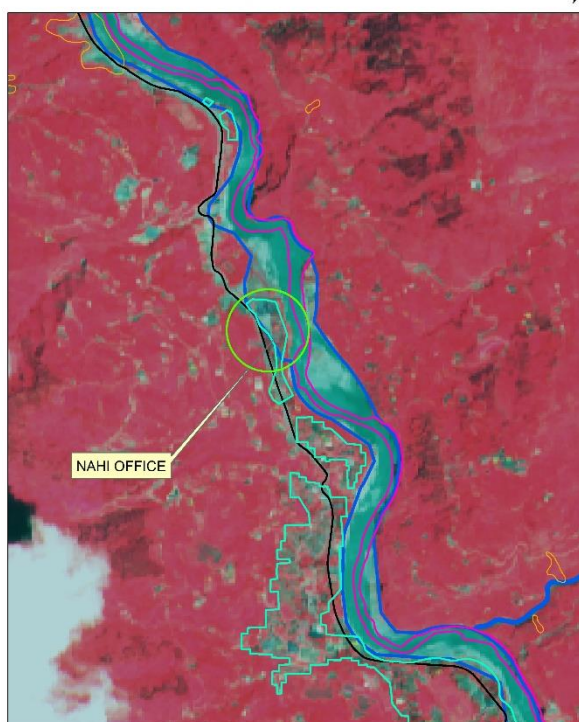
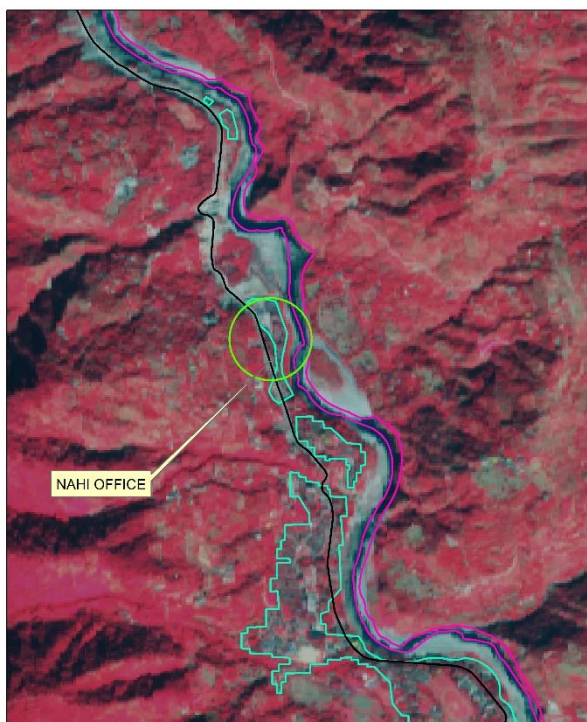


Mandi District

LOSS & DAMAGE NEAR KOTHI , MALWA AND BAHRI , MANDI DISTRICT



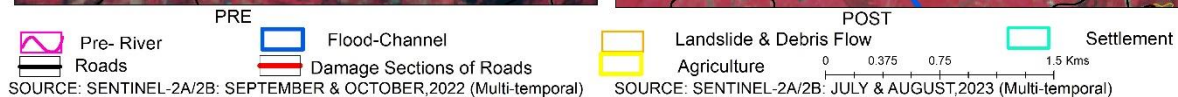
LOSS & DAMAGE NEAR NAHI OFFICE, PANDOH, MANDI



SOURCE: SENTINEL-2A/2B: SEPTEMBER & OCTOBER, 2022 (Multi-temporal)

SOURCE: SENTINEL-2A/2B: JULY & AUGUST, 2023 (Multi-temporal)

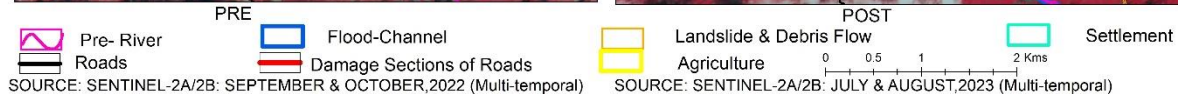
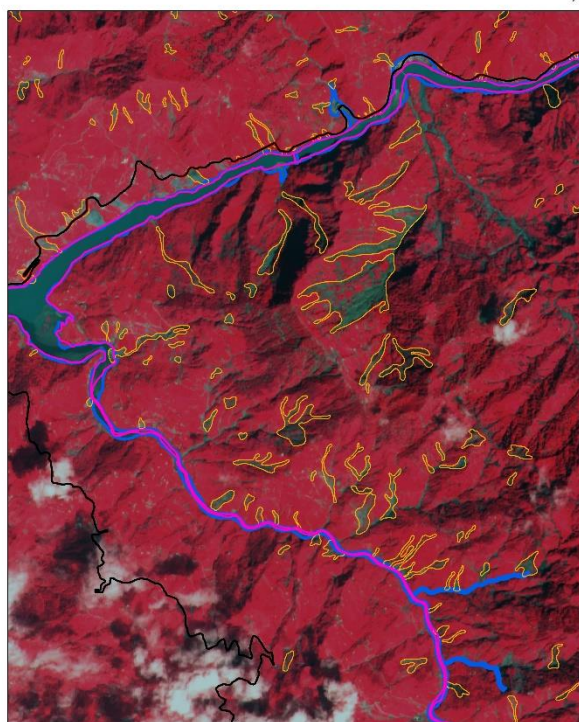
LOSS & DAMAGE NEAR PABO, MANDI DISTRICT



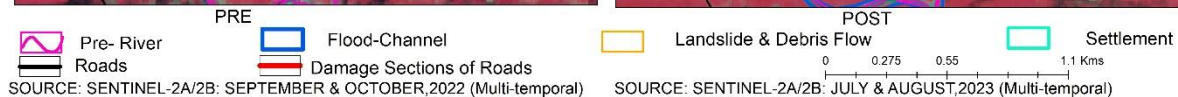
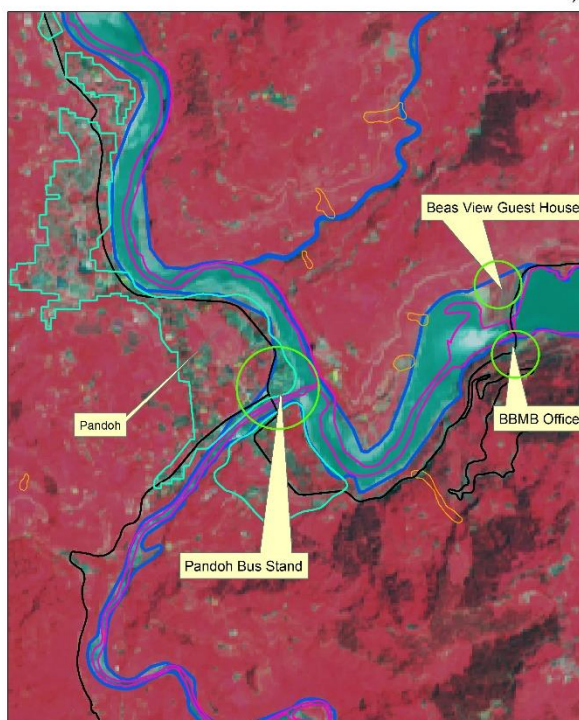
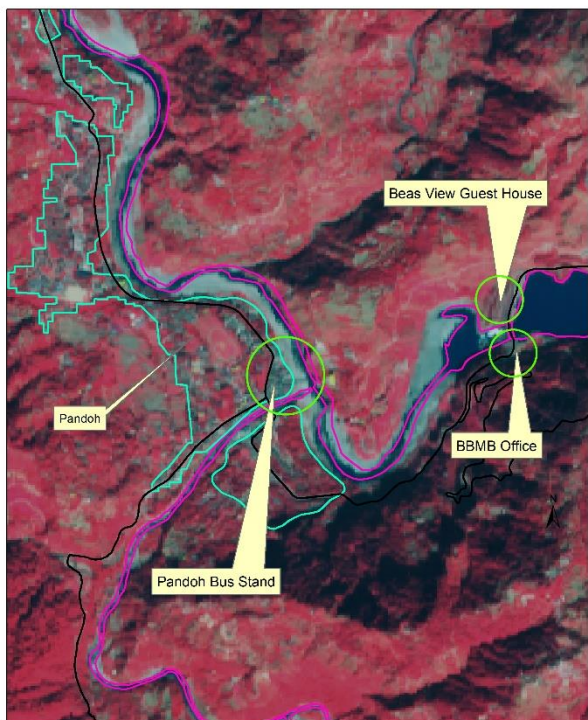
SOURCE: SENTINEL-2A/2B: SEPTEMBER & OCTOBER, 2022 (Multi-temporal)

SOURCE: SENTINEL-2A/2B: JULY & AUGUST, 2023 (Multi-temporal)

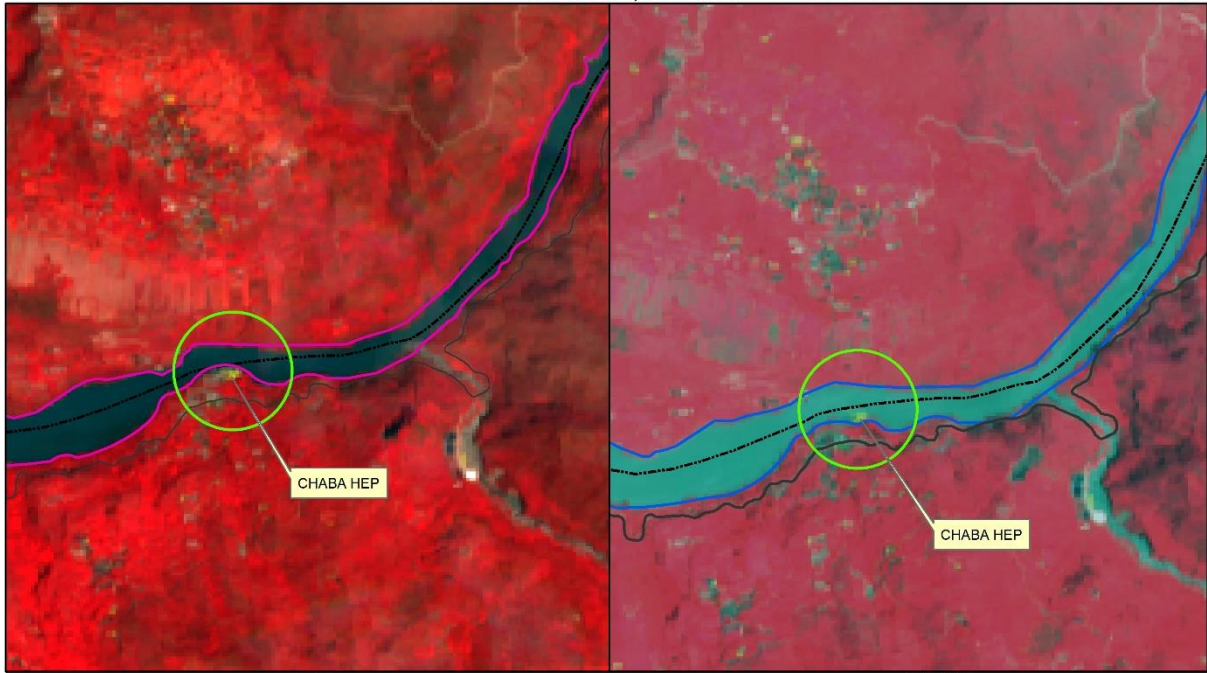
LOSS & DAMAGE NEAR PANDOH DAM , MANDI DISTRICT



LOSS & DAMAGE NEAR PANDOH, MANDI



CHABA HEP, SUNNI
SHIMLA DISTRICT, HIMCAHAL PRADESH



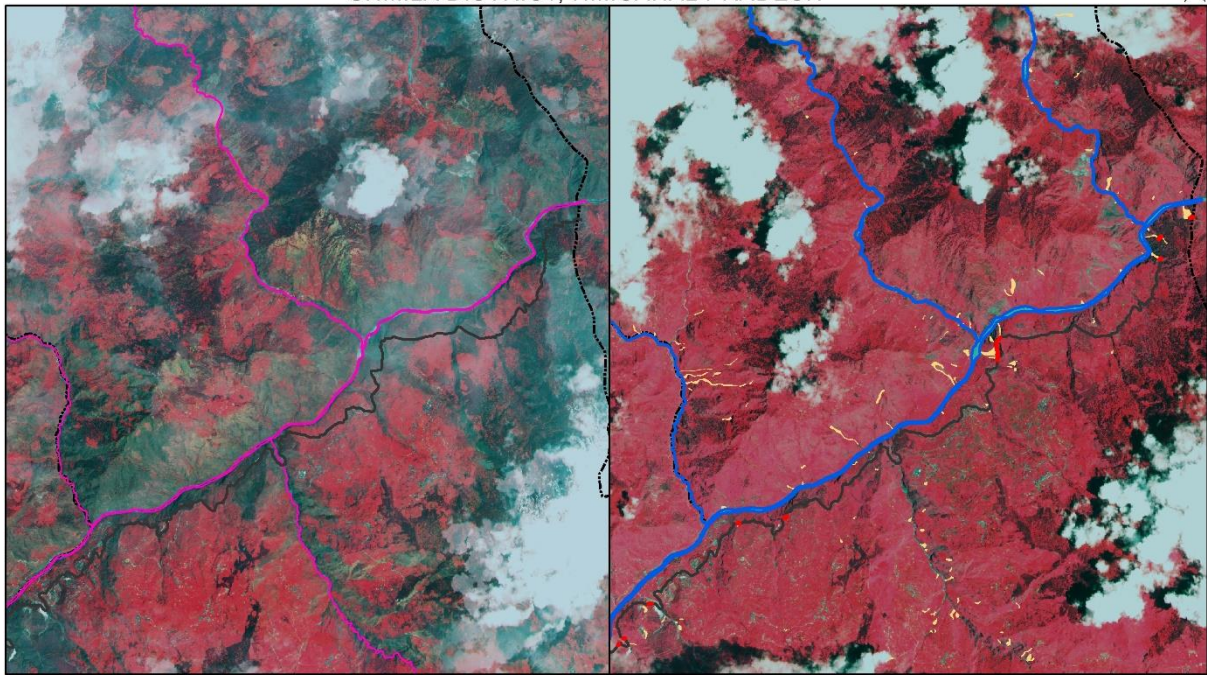
Legend
 PRE
 District Boundary Roads

Legend
 POST
 Pre- River Flood-Channel
 0 0.25 0.5 1 Kms

SOURCE: SENTINEL-2A/2B: APRIL & MAY,2023 (Multi-temporal)

SOURCE: SENTINEL-2A/2B: JULY & AUGUST,2023 (Multi-temporal)

LANDSLIDES, DEBRIS FLOW AND DAMAGE SECTION OF ROADS ALONG WITH PABBAR RIVER
SHIMLA DISTRICT, HIMCAHAL PRADESH



Legend
 PRE
 District Boundary Roads
 Landslides and Debris Flow Damage Sections of Roads

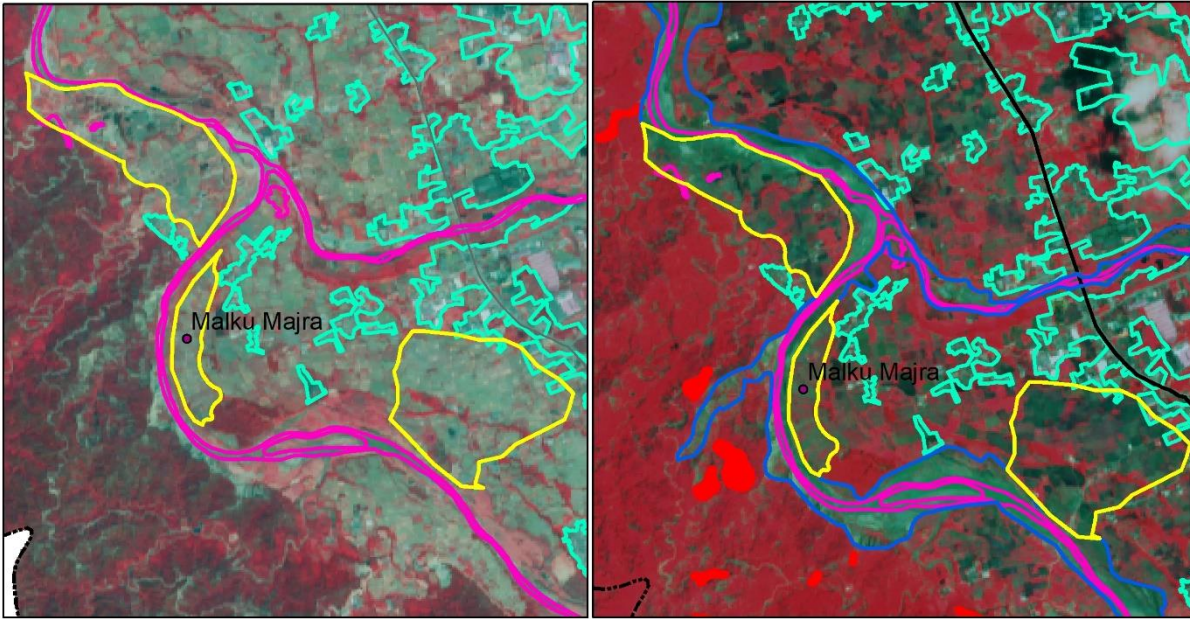
Legend
 POST
 Pre- River Flood-Channel
 0 2 4 8 Kms

SOURCE: SENTINEL-2A/2B: APRIL & MAY,2023 (Multi-temporal)

SOURCE: SENTINEL-2A/2B: JULY & AUGUST,2023 (Multi-temporal)

Solan District

DAMAGE AND LOSS IN MALKU MAJRA, SOLAN DISTRICT



PRE

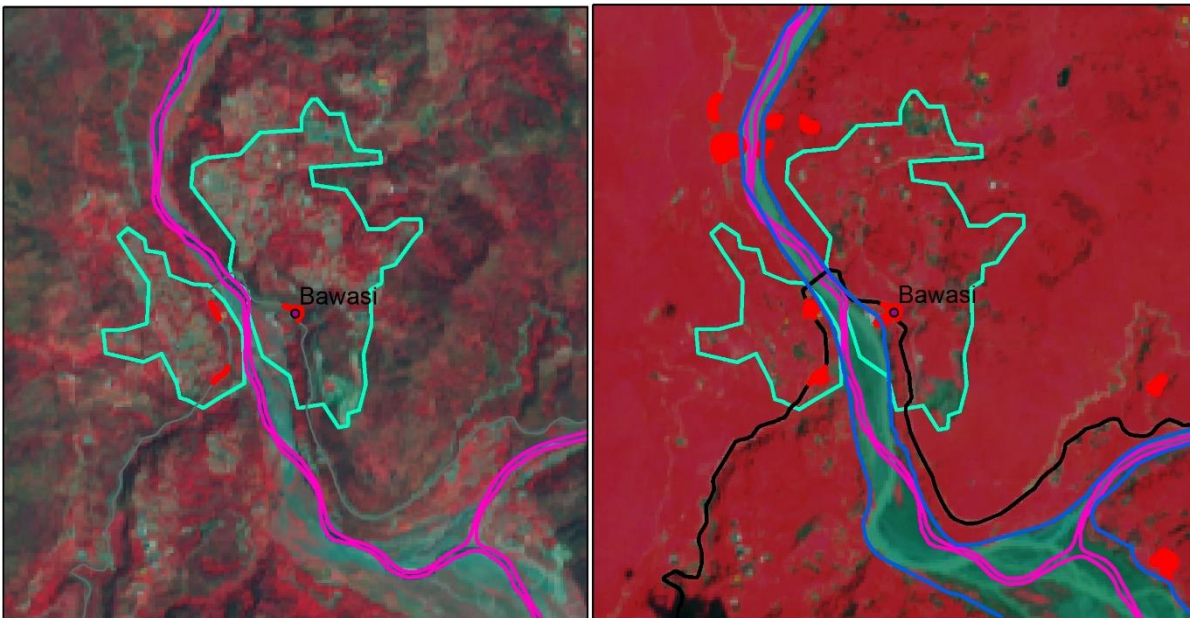
POST



SOURCE: SENTINEL-2A/2B: SEPTEMBER & OCTOBER, 2022 (Multi-temporal)

SOURCE: SENTINEL-2A/2B: JULY & AUGUST, 2023 (Multi-temporal)

DAMAGE AND LOSS IN BAWASI, SOLAN DISTRICT



PRE

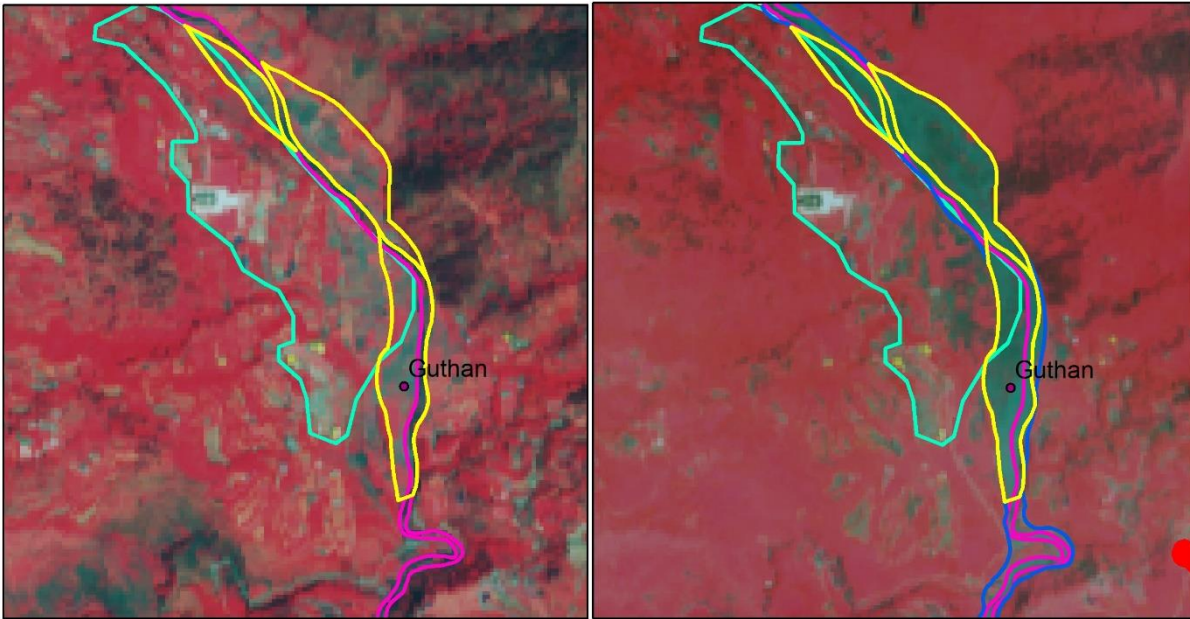
POST



SOURCE: SENTINEL-2A/2B: SEPTEMBER & OCTOBER, 2022 (Multi-temporal)

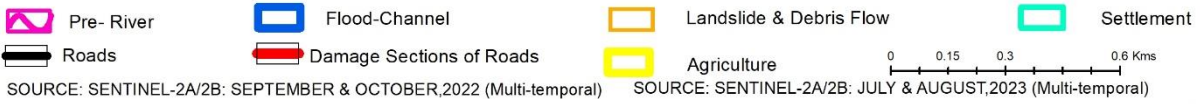
SOURCE: SENTINEL-2A/2B: JULY & AUGUST, 2023 (Multi-temporal)

DAMAGE AND LOSS IN GUTHAN, SOLAN DISTRICT



PRE

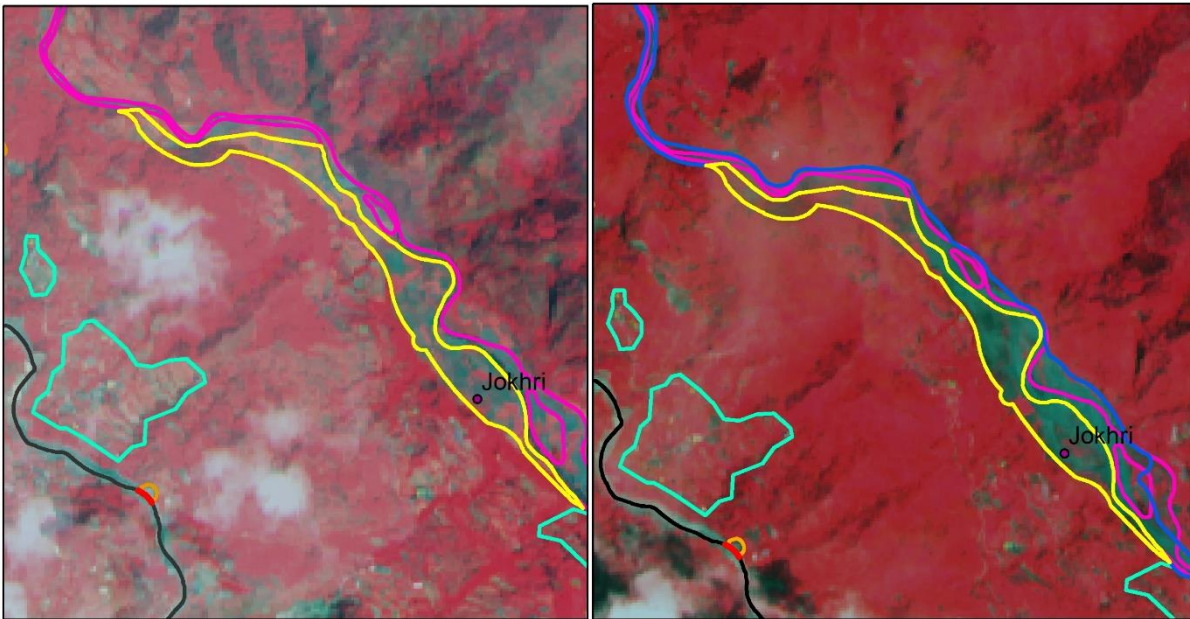
POST



SOURCE: SENTINEL-2A/2B: SEPTEMBER & OCTOBER,2022 (Multi-temporal)

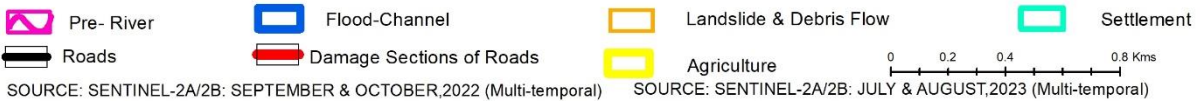
SOURCE: SENTINEL-2A/2B: JULY & AUGUST,2023 (Multi-temporal)

DAMAGE AND LOSS IN JOKHRI, SOLAN DISTRICT



PRE

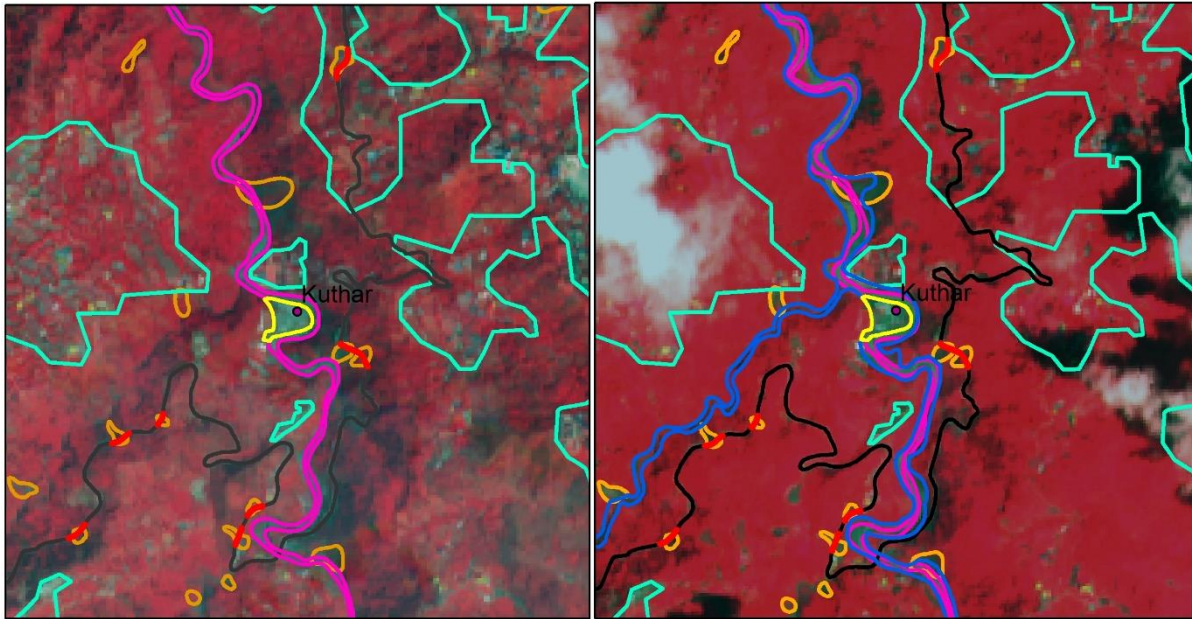
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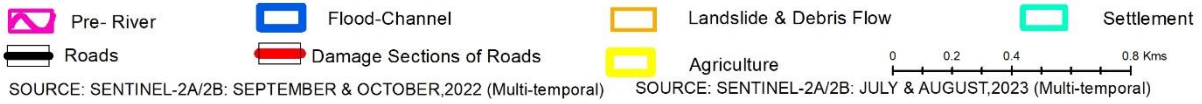
SOURCE: SENTINEL-2A/2B: JULY & AUGUST,2023 (Multi-temporal)

DAMAGE AND LOSS IN KUTHAR, SOLAN DISTRICT



PRE

POST

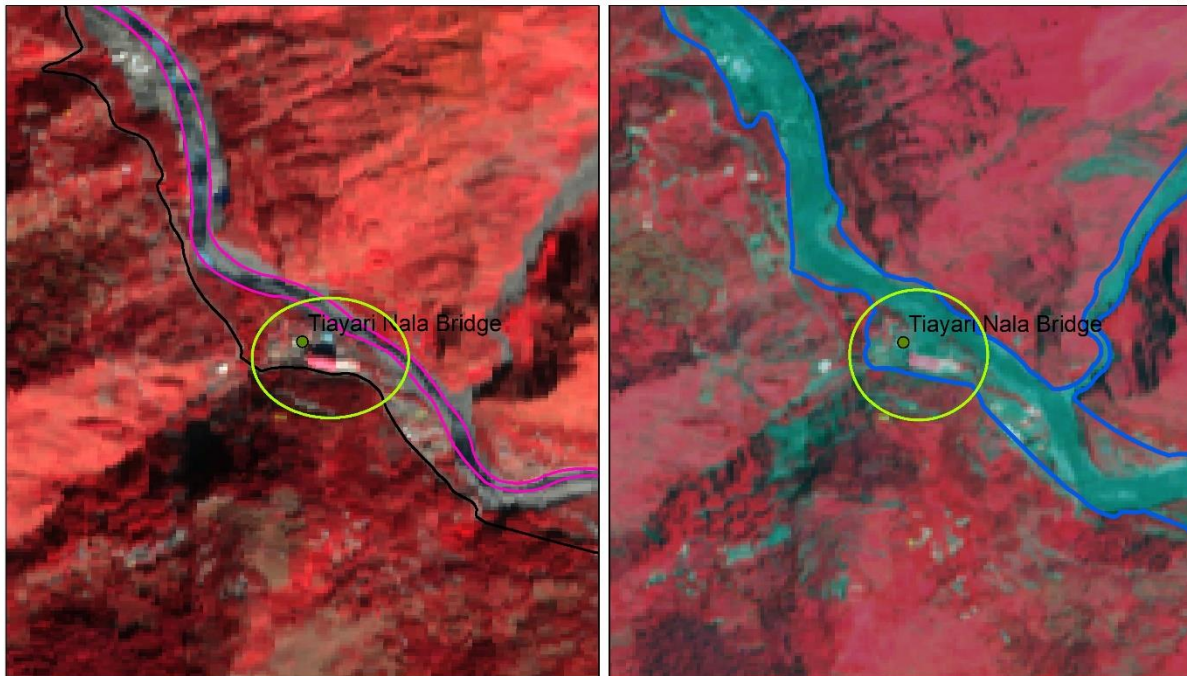


SOURCE: SENTINEL-2A/2B: SEPTEMBER & OCTOBER, 2022 (Multi-temporal)

SOURCE: SENTINEL-2A/2B: JULY & AUGUST, 2023 (Multi-temporal)

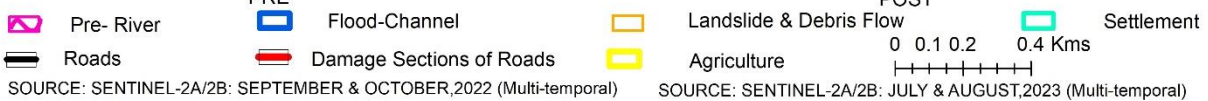
Chamba District

DAMAGE AND LOSS IN TIYARI NALA BRIDGE, CHAMBA DISTRICT



PRE

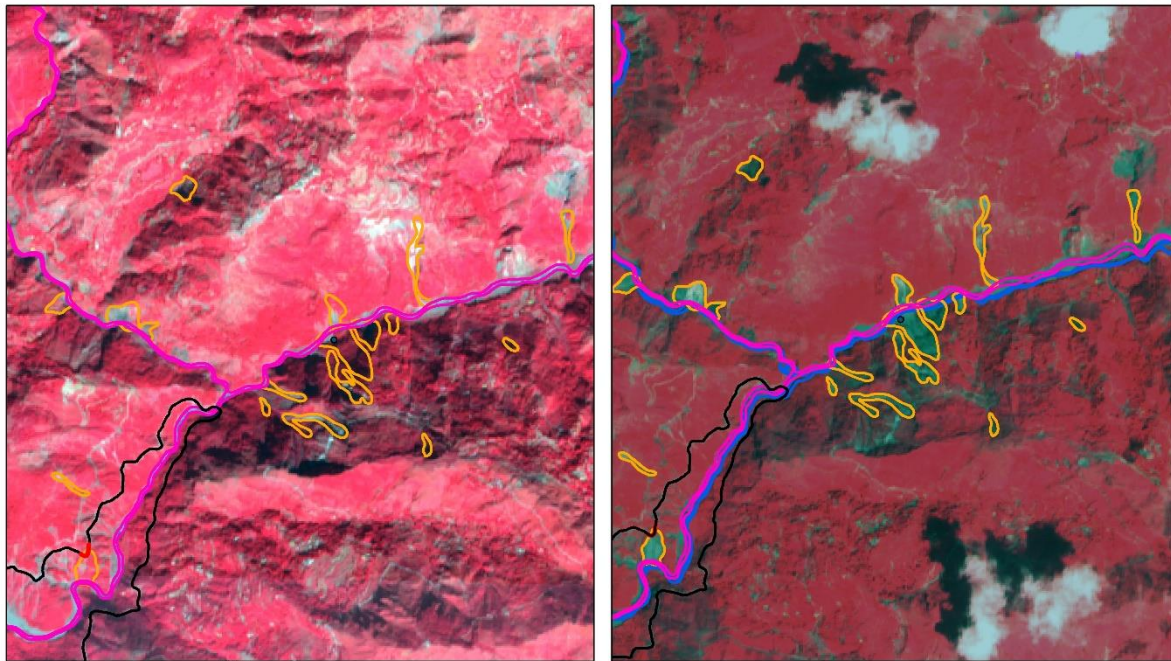
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SOURCE: SENTINEL-2A/2B: SEPTEMBER & OCTOBER, 2022 (Multi-temporal)

SOURCE: SENTINEL-2A/2B: JULY & AUGUST, 2023 (Multi-temporal)

DAMAGE AND LOSS IN JARAG, SIRMOUR DISTRICT



PRE

POST

- | | | | |
|------------|--------------------------|-------------------------|------------|
| Pre- River | Flood-Channel | Landslide & Debris Flow | Settlement |
| Roads | Damage Sections of Roads | Agriculture | |



SOURCE: SENTINEL-2A/2B: SEPTEMBER & OCTOBER, 2022 (Multi-temporal) SOURCE: SENTINEL-2A/2B: JULY & AUGUST, 2023 (Multi-temporal)

Chapter -6

Relief Measures

Houses of many people were washed away in the flashfloods or land slides across the state and many people were stranded at various locations due to disruption of road connectivity. Relief camps were set up in Manali, Kasol, Chadertal, Sisu, Una, Solan and at many other locations across the State. Food and shelter was provided to about 50,000 people during the emergent situation arising out of heavy rains. Special Langars were organized for the tourists and people who were stranded at various locations. Medicines, portable water bottles, food packets were arranged for all stranded people. Machinery was immediately deployed for repair and restoration of the roads and immediate relief was also disbursed to the affected people as per norms. Approximately 50 crores were spent on the immediate relief measures on account of relief camps, search and rescue operations across the state.

Major Evacuations of Stranded People:

3,000 people were evacuated from Kasol and its suburbs and 6,552 vehicles were moved out of the effected areas. Two choppers were requisitioned from Indian air force for search and rescue operations. About 75000 tourists were evacuated safely who were stranded at various locations across the state. Hon'ble Chief Minister conducted an aerial survey of Sissu, Chandertal and Losar areas in Lahaul and Spiti district and Manali in Kullu district to take stock of the destruction caused by heavy rainfall. He landed at Sissu and Manali to interact with rescued people. Detail of major evacuation is as under:

Major Evacuations				
Sr. No.	Place	Persons	District	Agency
1	Dhancho (Mani Mahesh Yatra Trek Chamba	81	Chamba	NDRF, ITBP, Home Guard & Police
2	Chhurudu, Kullu	9	Kullu	NDRF, ITBP, Home Guard & Police
3	Aloo Ground, Kullu	29		Home Guard
4	Kasol	3000		Home I
5	Lankabekar, Hanumanibag, Slum Sarvari Khadd, Chandigarh Bihal	300		Police , Fire Department
6	Manali	6552 vehicle		District Administration/Police
7	Parvati Bagh	43		Police
8	(Base Camp – ShrikhandMahadev Trek)			ABVIMAS
9	Pagal Nala	200 Trucks &	Kinnaur	BRO

10	India Hikes Trekker	50 Small vehicle		
		24		NDRF & Police
11	Kara Pass – Kinnaur	28		NDRF & Local Police etc.
12	Sangla	125		IAF (in 6 Sorties)
13	Baatal- L&S	50	L&S	District Administration/Police
14	Sisu – L&S	52 Students		District Administration/Police
15	Chandertal Lake Spiti	255 & 57 Vechile		IAF
16	Mehruwala khala near Bhangani Sirmour	28 Gujjar& 35-40 Animals	Sirmaur	Agencies Revenue , Police /Home Guards / local panchayat and Fire Brigade
				IAF
17	Giri River- Nahan	5		IAF
18	Pandoh	6	Mandi	SDRF
19	Indora, Fatehpur and Kangra	3000	Kangra	NDRF & IAF

Relief Camps

If there were flash floods or any other natural disasters in Himachal Pradesh during the current monsoon period in 2023, it is plausible that relief camps may have been established to provide assistance and relief to affected tourists, shepherds, and local residents.

During such emergencies, the government, along with various local organizations and authorities, typically work together to set up relief camps in safe locations to provide temporary shelter, food, medical aid, and other necessary supplies to those affected by the disaster.

There are the people whose houses have been affected by floods. Every possible help is being given to these people from our side and from the side of the administration, government assistance can also be announced. we want the central government to help us because the whole country is trying to extend a helping hand towards Himachal at this time. Only with the help of NDRF will not work, financial assistance should also be given to the government, we wated the government to this as of now provide some help.

For up-to-date information on any recent events or relief efforts in Himachal Pradesh, I recommend checking with official government sources, local news agencies, or reputable humanitarian organizations that may have conducted relief operations in the region. They would be able to provide

accurate and current information about the relief camps and ongoing efforts to help those in need.

District Wise Relief Camps details as under

Name of the District	Location of Relief Camp	Total number of beneficiaries	Description of Relief Camps	Duration of Relief Camp	Reason for running relief Camp
MANDI	Beas Sadan	250	Relief camp established for bangali basti in beas sadan. They are evacuated from the river bank.	16 days	Their shelters along with river bank and the level of water of beas river increase or decrease.
UNA	Town Hall Una, Municipal Council Una	165	Arrangement of water, food and sanitation toilet	2 days	Shifted Migrant people living in Jhuggi Jhoppies due to Excessive Rains and water logging
UNA	Private Building in Una	350	arrangement of Water, Food and sanitation toilet	2 days	Shifted Migrant peoples living in Jhuggi Jhoppies due to excessive rains and water logging
SOLAN	Shiv Mainer Jatoli, Sub-Division Solan, District Solan.	40	Food and Staying arrangements has been done for the affected families of Village Banala, Shanti and Panchayat - Damrog at Shiv Mainer Jatoli.	w.e.f. 11-07-2023 to till date.	Houses of Village Banala, Shanti and Panchayat - Damrog was damaged due to landslide.
KULLU	Rehan Basera -I, Manali Town	1200	Food and staying arrangements for stranded people/tourists	10th to 20th July 2023	
KULLU	Rehan Basera - II, Manali Town	600	Food and staying arrangements for stranded people/tourists	10th to 20th July 2023	
KULLU	Rambagh	500	Food and staying arrangements for stranded people/tourists	10th to 20th July 2023	
KULLU	Bus Stand Manali	500	Food and staying arrangements for stranded people/tourists	10th to 20th July 2023	

KULLU	Sainj	2000	Community kitchen and shelter provided for the flashflood affected people of Sainj valley	10th to 20th July 2023	
LAHAUL & SPITI	Village Sissu & Nearby Villages	185	PWD Rest House Sissu, Government School Sissu, Panchayat Bhavan & Home Stays	72 Hours	As NH-03 Manali-Keylong route was blocked due to Flash Flood at Pagal Nullah & Teling Nullah in subdivision Lahaul so we we're not able to get all of them out. All these relief camps were located nearby the incident locations. Rescue team, local youth volunteers and Panchayat representatives had made all the necessary arrangements.
LAHAUL & SPITI	Tandi	55	Tupchiling Monastery near Village Tandi on NH-03.	48 Hours	Group of 55 students were stranded at Tandi villages, due to closure of Keylong Manali Highway at multiple locations they were not able to reach Manali. Therefore, Tupchiling Monastery located near the incident site where the concerned Gram Panchayat & Distt. Administration provided Ration & made other necessary arrangements.
SOLAN	GMS Gamjhoon, Sub-Division -Solan, District - Solan	56	Food and Staying arrangements has provided in the Relief camps.	10-07-2023 to 16-07-2023	Due to landslide at Village - Kathar, Sub-Division Solan, District Solan (HP)
LAHAUL & SPITI	Chandartal	303	Munseling School Rangrik, Kaza Public School, Kee Community Hall & 3 hotels booked by Garg & Garg Companies.	48 hours	Due to closure of NH505 Sumdo Kaza Gramphu road, all these people were stranded at Chandartal & thereafter they were rescued to Lossar & Kaza but still they were not able to cross Spiti valley. Therefore, Spiti administration had made relief camps & provided all the arrangements.

SOLAN	Govt. Middle School, Jubla at Baniya Devi, Tehsil – Arki, District Solan	80	Food & Staying arrangement provided at the relief camp.	10-07-2023 to 21-07-2023	Due to landslide the villagers of Village Bahwan (Bari), Domehar, Tehsil Arki have been shifted. First three days the affected families were stayed at Jawahar Navodya Vidyalaya, Arki, thereafter the relief camp was shifted to the Govt. Middle School, Jubla at Baniya Devi, Tehsil – Arki, District Solan.
KINNAUR	GSSS Sangla	116	the people staying at relief camp were provided with food, clothing etc.	5 days	Damaged to Various houses due to Flash Flood & Diversion of Tong-Tong-Che Nallah towards Sangla Bazar
SHIMLA	Sharuntha panchayat	38	Relief camp established at School	10th July 2023 to 15th July 2023	Na
LAHAUL & SPITI	PWD rest House Koksar Sub Division Lahaul	30	PWD rest House Koksar Sub Division Lahaul	120	Group of 30 College Students traveling on Bhavna Travelers from Spiti to Manali. Due to heavy rainfall they are stuck in Dorni Nullah Sub Division Lahaul on dated 08-07-2023. Out of 30, 10 students reached at Koksar at around 10:00pm through private vehicle and rest are still stuck near Dorni Nullah on Kaza- Gramphu road. Also, this private vehicle has again moved towards dorni nullah to rescue other students all 30 students are safely rescued and currently they are at PWD Rest House Koksar. 13.07.2023/1:03 PM: As per information received from a team member of 30 college students/Doctors that they reached safely at Kullu and going towards Delhi today.

LAHAUL & SPITI	Khanjar village Sub Division Udaipur	28	Khanjar village Sub Division Udaipur	72	27 Hikers including 5 from forest departments were stranded at Tharang. Local youth volunteer rescue team from Miyar has left for their rescue and on dated 11-07-2023/ 8:17 AM all Trekkers plus forest staff reached Khanjar, safely. Local youth volunteers has arranged accommodation and food for the rescued hikers in Khanjar Village.
SOLAN	Santoshi Ma Mandir (Suji Charja), Sub-Division - Kasauli, District - Solan (HP)	24	Food and staying arrangements were provided.	10-07-2023 to till date (i.e.26-07-2023)	Due to landslide the affected families were shifted to the relief camps. Initially from 10-07-2023 to 16-07-2023 total 24 affected persons were stayed in this relief camp and 16-07-2023 onward till date 07 persons are staying.
MANDI	Gurudwara	25	People evacuated from River banks and sheltered at relief camp Gurudwara	16	Their sheltered established along the river of bank
LAHAUL & SPITI	PWD Rest house Koksar Sub Division Lahaul.	61	PWD Rest house Koksar Sub Division Lahaul.	24	They came from Chatru on foot on dated 11-07-2023=40 Person and on 12-07-2023=21 and arrived at Koksar, All are evacuated via ATR to Manali.
LAHAUL & SPITI	Goshal Village	38	Govt. Primary School Goshal.	48 Hours	Around 8 teachers & 30 students were stranded at Govt. School at Goshal due to closure of roads. However, local staff of school had made all the arrangements and sheltered at same building.
LAHAUL & SPITI	Koksar on NH-03	46	PWD Rest House Koksar	48 Hours	40 BRO labours & 6 tourists were stranded at Chota Daraa on NH505 (Kaza-Gramphu route) due to road blockage at many locations. They were safely rescued and brought to Koksar where PWD Rest House as a Relief Camp had made. District Administration

					provided food, medicines & other facilities to the stranded persons at relief camp Koksar.
BILASPUR	Govt. Sr. Sec. School Maithi, Sadar	8	Family had shifted their food items etc. to relief camp	12 Days	Danger to the house because of landslide
BILASPUR	Baloh near Tihra Tunnel Toll Plaza	8300	distribution of food items to the returnees affected in Kullu Manali Flood	Two Days	distribution of food items to the returnees affected in Kullu Manali Flood
KINNAUR	GSSS Sangla, District Kinnaur.	580	Due to diversion of Tong Tong Che Nallah, flow of nallah turned towards Sangla bazar	5 days	evacuation of sangla bazar residents
Kullu	Rama Samudayik Bhawan Lower Dhalpur	1500	Food and staying arrangements for the migrant labours staying near Beas River (Sarvari khad)	10 to 15 days	Flashflood
Kullu	Government Degreee College Kullu	3500	Food and staying arrangements for people of slum area	10 to 15 days	Flashflood
Kullu	Government Middle School, Shastrinagar	840	Food and staying arrangements for flood affected people	10 to 15 days	Flashflood
Kullu	Gandhinagar	950	Food and staying arrangements for flood affected people and migrated labours	10 to 15 days	Flashflood
Kullu	Lower Wing School, Lower Dhalpur	390	Food and staying arrangements for flood affected people	05 to 10 days	Flashflood
Kullu	Bajaura Rest House	150	Food and staying arrangements for stranded tourists	2-3 days	Evacuation of stranded tourists due to Flashflood

Kullu	Bajaura entry point	6000	Arrangement of refreshment provided to stranded tourists coming from Manikaran and Kasol	3-4 days	Evacuation of stranded tourists due to Flashflood
Kullu	Gammon Bridge Kullu	8000	Arrangement of refreshment provided to stranded tourists coming from Manali	2-3 days	Evacuation of stranded tourists due to Flashflood
Kullu	Manali and Jagatsukh	10000	Arrangements of refreshment provided to tourists and local people stuck in traffic during evacuation	2-3 days	Evacuation of stranded tourists due to Flashflood
		46908			

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

Sr. 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				
					Temporary accommodation	Food	Clothing	Medical care	Other essential items (to be specified)
1.	Bilaspur	28	59	389		112405			16290(Bedding, Trapaulin and Tents etc.)
2.	Chamba	3	29	27					
3.	Hamirpur	11	11	76	50000	102000			
4.	Kangra	21	28	493	14772	200290			Vehicle hired -150000 Trapaulin/ Tents-57600 Bedding-15200 Others=8000
5.	Kinnaur	3	9	350		275000			Blanket-344 Nos Turpal-10 Nos.
6.	Kullu	05	04	324	90985	126409	2700	-	-
7.	L&P	5	4	150	150000	300000		1000	100000/- (Fuel) 300000/- (JCB) 200000/- (4*4 and 2*2 vehicles 41000/- (HRTC busses) 20000/- (Miscellaneous expense) 50000/- (Mahila Mandal and Youth for food preparation) 100000 (Youth engaged in rescue work)
8.	Mandi	532	617	1017		159146	215000		116370

9.	Shimla	3	29	221		202500	760		
10.	Sirmour	21	21	175		57345			Rs 61,500 (Patal :- 900, Glass 600, Mat:- 6000, Bed:- 45,000, Utensil:- 6000, Table:-3000)
11.	Solan	23	64	742		65350			
12.	Una	2	2	515					
Total						Rs. 33,68,622/-			

In addition to the regular relief camps, temporary arrangement of food, cloths, tents, utensil, tarpal, etc. was made to the affected person as per the details given below:

1. Nos. of household whose houses were completely damaged = 2600
2. Nos. of household whose houses damaged =11000
3. Nos. of households whose huts and cowshed damaged = 5000

Expenditure incurred in relief measure to the above victims = Rs 4.63 Crore

Total expenditure incurred in the Rs 5.00 Crore

Chapter – 7

Extent of Damages and Losses

The category wise losses/damages are detailed here under

1. Human lives lost

During this monsoon season 146 people lost their lives due to flash floods, Cloudburst, landslides & fire, etc. Ex-gratia amount of **Rs 5.84 crores** has been assessed for these human losses as per the prescribed relief norms (Rs.4.00 Lakh per deceased person). In addition, 282 people died due to various other reasons owing to heavy rainfall and disasters causing these deaths which have been notified as State specific disaster. The ex-gratia for these deaths as per prescribed norms (4 lakhs per deceased) is being released by the state government under SDRF. In addition 39 people are missing (as on 13.09.2023) and 427 people are injured. Total loss on this account has been assessed to the tune of **Rs. 17.12 Crore**.

Details of liability assessed are at **Annexure-I, Page No. 141**.

2. Animal Husbandry

Total 6432 animals including sheep, goats, cows, horses and buffaloes, died in major incidents of flash floods across district the State. 10150 Nos. losses of poultry birds due to the flash flood were reported. The monetary loss on this account has been assessed to Rs 9.72 crore. Other infrastructure related to animal husbandry suffered a loss of Rs. 1.78 crore. In this season, the total of this sector loss has been assessed to **Rs. 5.44 Crore and details given Appendix-VI, Page 111**, in the prescribed format of MHA. Details of cattle loss is as under:-

Animal deaths and assessment of loss

Sr. No.	Particular	Number of deaths	Amount (In lakhs)
1.	Buffalo	85	281.25
2.	Cow	128	442.50
3.	Mule	36	05.12
4.	Horse	46	08.32
5.	Calf	26	03.20
6.	Sheep	3295	111.00
7.	Goat	2780	98.72
8.	Ox	19	02.88
9.	Heifer	14	04.50
10.	Yak	3	12.140
11.	Poultry Birds	10150	02.555
	Total	16584	972.185

Source: Received from District Emergency Operation Centre

3. Structures damaged

Due to the current disaster, a very large number of houses and others assets suffered complete to severe damages. The details are as under:-

• Fully damaged Kaccha and Pucca houses	-	2611
• Partially damaged Kaccha & Pucca houses	-	11010
• Cowshed, gharats, shops and laborsheds	-	7002
Total	-	20635

Loss on this account has been assessed to the tune of **Rs. 557.44 Cr** and as per the MHA Gol Norms this loss is **Rs 42.20 Crore**. More details are given **Annexure-II and Appendix-VII, Page No.142 & 112 of MHA, GOI**.

4. Damage to roads

The Himachal Pradesh has road Network of Motorable roads of 40483 kms, which includes 33,752 kms of tarred length, 2444 nos. of Bridges, cross drainages work in 35804 kms length. The length of National Highways in the state is 2007 kms and 570km road length is with BRO. The roads are the life line of state as it is only mean of transport as other means of transport such as Railway, Air & water etc. are very meagre.

Despite being a hill state, the state is doing consistent efforts in construction and repair & maintenance of roads to provide comfortable access to the remotest village. The road are not only subjected to heavy traffic but also bear the vagaries of extreme weather in the hills, so subjected to regular wear & tear. Due to the unprecedented heavy rains & flash flood in the state now it is a challenging job to keep the road network through & fit for plying of heavy vehicles. So, till date department has made sincere efforts for restoration of roads to make them through but heavy vehicles are not plying because a lot of structures such as retaining walls & breast wall are urgently required. As on 20-09-2023 as 1791 nos. of roads 126.280 km length of Retaining/wall Breast/wall amounting to Rs. 614.25 crore are required urgently for free flow of heavy vehicles (circle wise road wise detail attached).

The Department has assessed the cost of restoration of roads and bridges to **Rs. 2949.55 Crore (brief details at Annexure- A, Page No. 143 to 151)**

and as per the MHA GoI Norms this loss is **Rs 348.27 Crore** and Claim under removal of debris is **Rs 200.00 Crore** at **Page No. 146**. The Zone and Circle wise detail of road damages and the amount required for immediate temporary restoration and for permanent restoration.

Detail of damages has been given as per the prescribed formats of the MHA, GOI i.e. at **Appendix II, VIII, XI-A and XI-B, Page No. 101, 113, 117, & 121**.

5. Damage to Irrigation and water supply schemes

Jal Shakti Vibhag is maintaining 10067 water supply schemes, 3210 irrigation schemes, 97 urban schemes and 61 sewerage schemes in the State. The department is also protecting the flood prone areas, culturable land, public and private property by executing flood protection works in the the form of embankments, spurs and wire crates, etc.

Heavy rain fall in various parts of the State during the period from 24-06-2023 to 13-8-2023 caused heavy loss to large number of WSS Schemes, assets and infrastructure of Jal Shakti Department in the State. A majority of water supply and irrigation schemes have sources in Khuds/ Nallah/ Rivers. At many places heavy rains and cloud bursts triggered landslides and the sources tanks, pipelines and protection walls got washed away. At many places flash flood water entered into the pump houses resulting in silting of pump houses, treatment plants, pumping machinery, etc. In some schemes the gravity/Rising main lines have been damaged or washed away due to landslides.

During the period from 24th June, 2023 to 13th Sept, 2023, 11863 WSS and 2856 Irrigation schemes and works suffered damages. Many schemes suffered damages multiple times and different locations. Restoration/cleaning of clear water and reservoir total nos.-20037 of cost Rs 2.00 Crore and Handpump-5404, cost of repair **Rs. 5.40 Crore** and restoration/cleaning of clear water reservoir-2003, cost of restoration **Rs. 20.03 Crore**, Clearing of debris in public area 1835750 Cum – **Rs. 29.37 Crore**. In order to restore the drinking water supplies immediate repair/cleaning of pumping machinery and de-silting of Pump Houses was required. The monetary loss on account of these damages has been assessed to the tune of **Rs. 2419.10 Crore** and as per the MHA GoI Norms this damage has been assessed at **Rs 319.83 Crore**.

The scheme wise detail of damages is given in **Annexure-III, Page 152**. Detail of damages has been given as per the prescribed formats of the MHA, GOI i.e. at **Appendix II, VIII, XII-A and XI-B, Page No. 101, 113, 117, & 121**.

6. Damage to Agriculture Crops

Himachal Pradesh is a relatively small state in area and population and is geographically different from most Indian states in the plains. The State lies between 30°22'40" and 33°12' 20" north latitude and 75°45' 55" and 79°04'20" east longitude. Himachal Pradesh has relatively abundant water resources from major five river systems, mostly originating from glaciers. The five major river basins cover around 90% of the geographical area. The surface water resources of these river systems are perennial, originating from glaciers, and the flow is further augmented by run-off from the downstream catchments. Most glaciers are small in size with length of 2-25 km and accumulation zone of 2-4 sq km. Due to the adverse effect of global warming phenomenon, constant recession phenomenon is recently hastening in these glaciers.

Climate and Agro-ecological Zones

Climatically, Himachal Pradesh is different from most plain states in India. In the State, three seasons such as Winter season (October to February), Summer season (March to June) and Monsoon season (July to September) are there. However, due to wide range in altitude, the climate of the State varies from sub-humid tropical (Elevation 350-1000 m) in the southern low tracts, warm and temperate (Elevation 1001-1,500 m), cool and temperate (Elevation 1,501-2,500 m), and cold alpine and glacial (Elevation 2,501- 6,975 m) in the northern and eastern mountain ranges.

Damage caused to Agricultural crops of Kharif, 2023 season due to heavy rainfall:

In the State of H.P., about 20% of area is sown in the month of April-May whereas 80% of area is sown in the month of June which is a peak Kharif sowing period. During July-August, 2023, the State of Himachal Pradesh received a very heavy rainfall due to which the Agricultural crops mainly Maize, Paddy & Vegetables were badly affected and substantial portion of cultivated land was washed away. As per the assessment, the total cropped area of 1,34,985 Hectares was damaged and 8498.74 Hectare land was washed away. The total damage including Crops, agriculture land, in terms of money value has been assessed around Rs. 35826.08 lakhs. District-wise information is as under:

District	Total Cropped Area affected in Ha.	Total Agriculture land washed away in Ha.	Total Losses (Crop+Land) Rs. In Lakhs
Bilaspur	1373	222.92	1780.93
Chamba	12326	540.00	2122.76
Hamirpur	19332	159.82	1366.55
Kangra	26367	430.50	3717.66
Kinnaur	70	24.64	153.67
Kullu	17810	4862.50	9312.00
L/Spiti	16	2.00	151.25
Mandi	6077	1067.56	6141.09

Shimla	5850	337.30	3324.89
Sirmour	29406	531.50	4268.58
Solan	12893	66.00	2986.16
Una	3465	254.00	500.54
Total	134985	8498.74	35826.08

(Source: Department of Agriculture, GoHP)

The total damage to crops and agricultural land has been assessed to **Rs. 358.26 crore** and as per the MHA Gol Norms the damages have been assessed at **Rs 143.18 Crore**. Detail is given in **Appendix –IVA, B and D** as per the MHA, GOI formats at **Page No. 105, 106 & 110**.

7. Damage to Horticulture Crops

Horticulture is an important sector of economic development in the state contributing about Rs 5000 crore towards the states economy. This sector is major source of earning and employment in the state. Fruit crops covers about 2.29 lakh 93 hectare of area of the state. Apple, mango, citrus and other stone fruits are major fruit crops grown in the state and constitute about 83 % of total fruit production. Apple is the dominating fruit crop of the State occupying about 48% of the total area under fruits & about 76.50 % of the total fruit production. About 5 lakh families are directly or indirectly involved in the Horticulture primarily fruit production & other allied activities like bee keeping, mushroom production, floriculture and fruit processing etc.

The current heavy rainfall has caused huge damages to the fruit orchards due to land slides and other scientific reasons. The abnormally high rainfall may cause various diseases in the fruit plants reducing the production to abysmally low levels. Size and colour of developing fruits is also affected greatly, if rains are torrential. Transportation and marketing of the fruit produce has also been affected due to damages to roads. During the current heavy monsoon the fruit crops have suffered heavy losses to the tune of **Rs. 172.65 crores** and as per the Gol norms **Rs. 3.55 Crore** till now and there is likelihood of further loss due to low production on account of various factors associated with the heavy rains.

The detail of horticulture sector loss is given in **Appendix-IVC** in the MHA, GOI formats at **Page No.107 to 109**.

8. Damage to Electricity Infrastructure

During the monsoon in the State, heavy damages have been reported to the electricity supply infrastructure. Many electric poles, conductors, transformers, and other assets of electricity wing have suffered huge damages which have been assessed to the tune of **Rs 1770.04 crores** and as per the MHA Gol Norms is **Rs 75.93 Crore**.

The detail has been given in **Annexure-IV at Page No.153** .

9. Rural Development

A lot of infrastructure like Panchayat ghars, Mahila Mandal Bhawans, Community Centers, etc. of the rural development department has sustained heavy damages during the current disaster. There has been extensive loss to the internal roads, electric polls, bridges, electric lines, water supply schemes, community assets, etc. Due to landslides, mudflows and flashfloods, public places were filled up with tones of debris making the movement difficult. The total loss on this account has been assessed to **Rs 675.14 Crore** as per the MHA Gol Norms is **Rs 212.56 Crore**.

The detail is given in **Annexure-V, B at Page No.154 & 181 to 189**.

10.Urban Development

In this monsoon season there have been significant damages to the infrastructure of the Urban Development department. There has been extensive loss to the internal roads, electric polls, bridges, electric lines, water supply schemes, community assets, etc. Due to landslides, mudflows and flashfloods, public places were filled up with tones of debris making the movement difficult. The total loss on this account has been assessed to **Rs 167.65 Crore** as per the MHA Gol Norms is **Rs 54.40 Crore**.

The detail is given in **Annexure-VI at Page No.155 to 161**.

11.HIMUDA

In this monsoon season there have been significant damages to the infrastructure of the HIMUDA. There has been extensive loss to the internal roads, water supply schemes, community assets, etc. Due to landslides, mudflows and flashfloods, public places were filled up with tones of debris making the movement difficult. The total loss on this account has been assessed as per the MHA Gol Norms is **Rs 13.36 Crore**.

The detail is given in **Annexure-VII at Page No.162**.

12. Health

The heavy rainfall during the monsoon period has caused significant damage to the health infrastructure in the state. There has been loss to health infrastructure such as PHC, CHC, other health institutions, and damage to equipment. There was huge pile up of debris flow in the premises of many health institutions. There have been estimated damages to tune of **Rs. 44.01 Crore** and as per the MHA Gol Norms this damage has been assessed at **Rs. 9.76 Crore**.

Detailed information of damages to the state's healthcare facilities has been given at **Annexure-VIII at Page No. 163 to 168**.

13. Education

During the current disaster 619 buildings of government Schools were damaged. Many schools have been totally wiped out by the landslides and floods. Education remained disrupted in the states for more than 15 days on average across the State but in many districts the education of children suffered for more than a month. Many school buildings and other infrastructure suffered damages of various kinds. The total loss on this account has been assessed to **Rs 128.89 Crore** as per the MHA GoI Norms is **Rs 5.28 Crore**.

The detail has been given in **Annexure-IX at Page No. 169 to 175**.

14. Fisheries

During the current disaster, loss to the tune of **Rs.13.91 Crores** has been assessed on account of damages to fisheries sector in districts of Kullu, Chamba, Mandi, Solan, and Sirmour & Una.

The detail has been given in **Annexure-X at Page No. 176 to 180**.

15. Technical Education

During the current disaster 14 numbers of Govt. ITI & Polytechnic buildings were damaged. The total loss on this account has been assessed as **Rs. 83.47 Crore**.

16. APMC (Agriculture Marketing board)

The heavy rainfall during the monsoon period from the current monsoon season, has caused substantial damage to the properties of the Agriculture Produce Market Committee (APMC) in the state. The estimated loss of **Rs. 25.24 Crore** indicates the severity of the impact on the state's agricultural infrastructure and the farmers' livelihoods.

17. Transport Department

Himachal Road Transport Corporation (HRTC) during the current monsoon season, including damage to bus stands or buses being washed away. Flash floods and landslides can be extremely destructive and cause significant damage to property and infrastructure. The loss of **Rs 19.17 Crore** is indeed a substantial amount.

18. Home Guard and Civil Defence Infrastructure

Himachal Pradesh Home Guards and Civil Defence Department during the current monsoon season. The loss of **Rs. 2.13 Crore** is concerning, and it

highlights the impact of the natural disaster on their training centers and grounds due to the landslide and Flash Flood.

19. Himachal Pradesh Power Corporation

Himachal Pradesh Power Corporation during the current monsoon season. The loss of **Rs. 147.87 Crore** is significant and can have substantial financial implications for the corporation's operations and services.

20. Removal of Debris in Community Areas

The removal of debris in the community area after a flash flood and landslide is a critical step in the recovery and rehabilitation process. Flash floods and landslides left behind a significant amount of debris, which caused a lot of obstruction in public places, roads, damage buildings, and posed safety hazards to residents. Huge efforts in terms of machinery, manpower, etc. were mobilized to clear the debris. Details of expenditure/liability incurred are as under:-

Sr. No.	District	Quantum of debris (in Cubic meter approximated)	Rate as per cum for removal/ dispose off.	Amount Required for restoration (In Rs.)
1	Shimla	415448.19	157.3	65350000
2	Bilaspur	248569.6122	157.3	39100000
3	Chamba	190718.3725	157.3	30000000
4	PWD	12714578.93	157.3	2000003266
5	Rural Development	1194532.74	157.3	187900000
6	Jal Shakti	135750.00	160	293720000
7	Urban Development	2271455.817	157.3	357300000
8	Agriculture	1082008.9	157.3	170200000
Total				3143573266

Source: Deputy Commissioners and concern Department

21. Relief Camps

Due to Flash flood situation in State. It's evident that significant efforts were made to evacuate and rescue people stranded in the affected areas. The involvement of the Indian Air Force with two choppers for search and rescue operations demonstrates the seriousness of the situation and the need for immediate assistance.

Evacuating about 75,000 tourists safely is a commendable achievement, as it requires careful coordination and resources to ensure the well-being of such a large number of people. Expenditure incurred **Rs. 5.00 Crore**.

More details has been given at **Appendix III**, MHA, GOI format at **Page No. 103 & 104**.

22. Evacuation of Stranded Persons

Due to sudden floods and snow in higher reaches leading to landslides, blockage of roads, snapping of internal roads, a large number of tourists and locals were saved and evacuated by the local police, home guards, local volunteers, NDRF, SDRF, etc. Indian Air Force and in one location Army was also requisitioned. **A lot of air sorties were carried out by the IAF. The air bill, as and when received will be shared with the GOI and it is requested that the same may be cleared as per actual.**

For local search and rescue efforts an amount of **Rs. 5.0 crore** was spent by the DDMMAs.

Cumulative losses – Rs. 9905.77 Crores

Chapter 8

Summary of the total requirement of funds under NDRF

Sr No.	Items/Sectors	Amount required (Rs. In Crore)
1.	Gratuitous Relief (GR) Natural Calamity -146	17.12
2.	Removal of Debris from public places	314.36
3	Relief measures (for relief camps)- 227 Nos.	5.00
	Evacuation of stranded persons	5.00
4	Animal Husbandry- Assistance to small and marginal Farmers for loss of animals	9.72
(a)	Animal husbandry (structural loss)	1.78
5	Housing+HIMUDA	557.44+13.36
6	PWD	2949.55
7	Jal Shakti	2419.10
8	Agriculture + Horticulture	
(a)	Agriculture crop loss	217.05
I	Loss of Agriculture land	141.20
(b)	Horticulture crop loss	
I	Loss of horticultural land	172.65
9	Power/Electricity	1770.04+147.85
10	Education + Technical Education	128.89+83.47
11	Urban Development	167.65
12	Rural Development	675.14
13	Fisheries	18.85
14	Health	44.01
15	Other Departments	46.54
Grand Total		9905.77

Rainfall data: Rainfall in State on 9 July, 2023.

Sr no	Name of affected districts	Rainfall/snowfall during the calamity (in mm) 9 July, 2023			Rainfall during the corresponding period in the last three years								
					Last Year 9 July, 2022			Year before last Year 9 July, 2021			Two Years before last Year 9 July, 2020		
		ACTUAL (mm)	NORMAL (mm)	DEP %	ACTUAL (mm)	NORMAL (mm)	DEP %	ACTUAL (mm)	NORMAL (mm)	DEP %	ACTUAL (mm)	NORMAL (mm)	DEP %
1	BILASPUR	144.5	8.7	1561	0	8.7	-100	23.8	8.7	174	2.2	8.7	-75
2	CHAMBA	98.9	8.1	1121	3	8.1	-63	0.9	8.1	-89	0.3	8.1	-96
3	HAMIRPUR	106.7	9.9	978	0	9.9	-100	3.5	9.9	-65	7.9	9.9	-20
4	KANGRA	125.9	18.9	566	1.9	18.9	-90	8.9	18.9	-53	3.4	18.9	-82
5	KINNAUR	24.4	1.5	1525	1.3	1.5	-10	0	1.5	-100	0	1.5	-100
6	KULLU	99	8.2	1108	0.4	8.2	-95	1.1	8.2	-87	14	8.2	71
7	LAHAUL & SPITI	68.8	3	2192	0.5	3	-84	0	3	-100	2.7	3	-10
8	MANDI	84.4	14.9	466	0.3	14.9	-98	10.3	14.9	-31	7.2	14.9	-52
9	SHIMLA	78	8.6	807	3.2	8.6	-63	3.1	8.6	-64	5	8.6	-41
10	SIRMAUR	103.4	10.7	866	10.3	10.7	-4	13.6	10.7	27	1	10.7	-91
11	SOLAN	124.5	10.6	1074	10	10.6	-6	39	10.6	268	1.9	10.6	-82
12	UNA	135.6	8.7	1458	1.7	8.7	-80	0.5	8.7	-94	9.1	8.7	4
	Total	85.9	8	974	2.1	8	-74	4.8	8	-40	4	8	-50

Source: Indian Meteorological Department.

Rainfall in State on 14 August, 2023.

Sr no	Name of affected districts	Rainfall/snowfall during the calamity (in mm) 14 Aug 2023			Rainfall during the corresponding period in the last three years								
					Last Year 14 Aug 2022			Year before last Year 14 Aug 2021			Two Years before last Year 14 Aug 2020		
		ACTUAL (mm)	NORMAL (mm)	DEP %	ACTUAL (mm)	NORMAL (mm)	DEP %	ACTUAL (mm)	NORMAL (mm)	DEP %	ACTUAL (mm)	NORMAL (mm)	DEP %
1	BILASPUR	78.1	13.1	496	0	13.1	-100	6.8	13.1	-48	3.8	13.1	-71
2	CHAMBA	48.5	9.9	390	0	9.9	-100	3.3	9.9	-66	24.8	9.9	151
3	HAMIRPUR	108.1	13.3	713	4.2	13.3	-69	0.5	13.3	-96	10.7	13.3	-19
4	KANGRA	169.9	24.9	582	0	24.9	-100	3.4	24.9	-86	40	24.9	61
5	KINNAUR	6.9	2.3	202	0	2.3	-100	0	2.3	-100	3.1	2.3	33
6	KULLU	33.7	10.5	221	0	10.5	-100	1	10.5	-90	37.8	10.5	260
7	LAHAUL & SPITI	2	4.7	-57	0	4.7	-100	0	4.7	-99	0	4.7	-100
8	MANDI	131.7	19.8	565	2	19.8	-90	18.6	19.8	-6	41.5	19.8	109
9	SHIMLA	57.9	8.3	597	0	8.3	-100	2.1	8.3	-75	11.1	8.3	34
10	SIRMAUR	46.3	20.7	123	0	20.7	-100	24.6	20.7	19	85.3	20.7	312
11	SOLAN	65.7	16.7	294	0	16.7	-100	24.5	16.7	47	0	16.7	-100
12	UNA	66.4	16.7	297	0	16.7	-100	2.4	16.7	-86	8.9	16.7	-47
	Total	52.8	11	380	0.2	11	-98	4.7	11	-58	20	11	81

Source: Indian Meteorological Department.

Extent of damages

STATE: HIMACHAL PRADESH

Nature and period of calamity: Cloud Burst, Flash floods, Landslides during Monsoon, 2023.

S.No.	Item	Detail	
1	Total number of districts	12	
2	Number and names of districts affected	12 (Bilaspur, Chamba, Hamirpur, Kangra, Kinnaur, Kullu, Lahaul & Spiti, Mandi, Shimla, Sirmaur, Solan, Una)	
3	Number of villages affected	20690	
4	Population affected (in lakh)	68.65 (as per 2011 census)	
5	Total land area affected	55.673 sq. km	
6	Cropped area affected		
	(i) Total cropped area affected	Agriculture	134985.00
		Horticulture	29191.48
	(ii) Estimated loss to crops	Agriculture:	103.24
		Horticulture :	3.55
	(iii) Area where cropped damages was more than 33%	Agriculture	101214.00
Horticulture		4123.10	
7	Percentage of area held by SMF:		
	(i) In the State as a whole	87.95 %	
	(ii) In the affected districts	12	
8	Houses damaged: -		
	No. of houses damaged :-		
	(i) Fully damaged Pucca houses	1088	
	(ii) Fully damaged kuccha houses	1526	
	(iii) Severely /Partially damaged houses (Pucca+kuccha)	4843+6176	
	(iv) No. of huts/cowsheds/Gharat etc. damaged	7002	
(a) Estimated value of damage to houses	42.20		
9.	No. of human lives lost	428	
10	No. of persons with grievous injuries	427	
11	No. of persons with minor injuries	200	
12	Animals lost:-		
	(a) No. of big Animals lost	403+78	

	(b) No. of small Animals lost	8974+27
	(c) No. of Poultry (birds) lost	10150
13	(a) Damage to public properties: - (1) PWD roads (sector wise detail should be given- e.g. length of state roads damaged, length of district roads damaged, length of village roads damaged. No of bridges damaged, No. of culverts damaged, No. of school building damaged etc) State Highways =0 km Major Distt. Roads= 18024 km out of 38033Km Rural Road = 15879 km out of 33265 km Bridges = 97 Culverts = 300	Rs. 348.27
	(2) Irrigation & Public Health Rural and urban water supply schemes =11863 Irrigation schemes damaged =2856 Handpump-5406 Cleaning Water Reservoir-20037	Rs. 221.61+57.12+5.41+20.04
	(3) Power Damage to transformers, HT and LT lines, substation, EHB/HB line, and power houses of HPSEBL.	Rs. 75.93
	(4) Animal Husbandry:	Rs. 5.44
	(5) Health: Damage to various health institution buildings.	Rs 9.76
	(6) Community assets: Damage to various community assets like village paths, Mahila Mandal Bhawans, Yuvak Mandal Bhawans, Panchayat Ghars etc.	Rs. 212.56+54.40
	(7) Fisheries	Rs. 18.85
	(8) Education	Rs. 5.28
	(9) Removal of debris	Rs. 314.36
	(10) Search and Rescue Operation	Rs. 5.00
14	Estimated total damage to Human lives, Houses, Crops and public properties.	Rs. 1498.04

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

Sr. 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				
					Temporary accommodation	Food	Clothing	Medical care	Other essential items (to be specified)
1.	Bilaspur	28	59	389		112405			16290 (Bedding, Trapaulin and Tents etc.)
2.	Chamba	3	29	27					
3.	Hamirpur	11	11	76	50000	102000			
4.	Kangra	21	28	493	14772	200290			Vehicle hired -150000 Trapaulin/Tents-57600 Bedding-15200,Others=8000
5.	Kinnaur	3	9	350		275000			Blanket-344 Nos Turpal-10 Nos.
6.	Kullu	05	04	324	90985	126409	2700	-	-
7.	L&P	5	4	150	150000	300000		1000	100000/- (Fuel) 300000/- (JCB) 200000/- (4*4 and 2*2 vehicles 41000/- (HRTC busses) 20000/- (Miscellaneous expense) 50000/- (Mahila Mandal and Youth for food preparation) 100000 (Youth engaged in rescue work)
8.	Mandi	532	617	1017		159146	215000		116370
9.	Shimla	3	29	221		202500	760		

10.	Sirmour	21	21	175		57345			Rs 61,500 (Patal :- 900, Glass 600, Mat:- 6000, Bed:- 45,000, Utensil:- 6000, Table:-3000)
11.	Solan	23	64	742		65350			
12.	Una	2	2	515					
Total					Rs 33, 68, 622/-				

In addition to the regular relief camps, temporary arrangement of food, cloths, tents, utensil, tirpal, etc. was made to the affected person as per the details given below:

1. Nos. of household whose houses were completely damaged = 2600
2. Nos. of household whose houses damaged =11000
3. Nos. of households whose huts and cowshed damaged = 5000

Expenditure incurred in relief measure to the above victims = Rs 4.63 Crore

Total expenditure incurred in the Rs 5.00 Crore (Brief details at Chapter - 6)

Statement showing loss assessment in terms of Money Value to Kharif crops in Himachal Pradesh during Monsoon, 2023.

Crop-wise Report of damages due to Heavy Rains/Flash Floods/Cloud Burst in respect of District/STATE for the season Kharif: 2023										
Sr. No	Name of Crops	Area (in Hectares)		Extent of area damaged under crops (in Hectares)			Damages of area under crops in terms of money value (Lacs.)	Land washed away/silted (Ha.)	Damages of Land washed away/silted in terms of money value (Lacs.)	Total Damages in terms of money value. (8+10)
		Sown	Damaged	Less than 33%	33% and above	Total (5+6)				
1	2	3	4	5	6	7	8	9	10	11
A. Cereals										
1	Maize	277827	80225	21913	58312	80225	5058.06	3181.48	5394.12	10452.18
2	Paddy	88152	17985	4108	13878	17985	1205.18	324.54	569.01	1774.19
3	Ragi	706	233	17	216	233	76.10	18.00	17.93	94.03
4	Millets	3143	734	222	512	734	160.29	152.05	244.70	404.99
5	Kharif Pulses	17809	3988	559	3429	3988	742.39	316.93	617.78	1360.17
Total (Cereals)		387637	103165	26819	76347	103166	7242.02	3993.00	6843.54	14085.56
B. Commercial Crops										
1	Vegetables	48932	29048	6394	22655	29048	13587.04	4347.95	6994.86	20581.90
2	Potato	9722	1743	308	1435	1743	683.70	143.75	271.58	955.28
3	Ginger	2867	543	83	460	543	125.85	9.80	9.40	135.25
4	Oil Seeds	2930	486	168	318	486	67.33	4.24	0.76	68.09
Total (Comm. Crops)		64451	31820	6953	24867	31820	14463.92	4505.74	7276.60	21740.52
Grand Total (A+B)		452088	134985	33771	101214	134986	21705.94	8498.74	14120.14	35826.08

Appendix – IV B

Calculation of assistance for agriculture inputs subsidy- Small & Marginal Farmers (SMF)

Assessment of Losses to Kharif Season, 2023 due to Flood and Landslide										
Sr. No	Name of the affected District.	Total Area Sown (in Hac.)	Total Agricultural area where Crop loss is >33% (in Hac.)	Out of (4) area belonging to SMF			Assistance sought for different categories of crops (Rs. In Lacs)			Total Assistance sought (Rs. In lacs)
				Rainfed (in Hac.)	Irrigated (in Hac.)	Perennial (in Hac.)	Rainfed (Rs. 8500x col.5A) (In lacs)	Irrigated (Rs.17000 x col.5B) (in lacs)	Perennial (Rs. 22500 (x col.5C)	
1	2	3	4	5A	5B	5C	6A	6B	6C	7(6A+6B+6C)
1	Bilaspur	29740	1386	1109	277	0	94.27	47.09	0.00	140.08
2	Chamba	30486	10303	8242	2061	0	700.57	350.37	0.00	1050.94
3	Hamirpur	35600	6527	5222	1305	0	443.87	221.85	0.00	667.59
4	Kangra	119060	18038	14430	3608	0	1226.54	613.36	0.00	1839.90
5	Kinnaur	1650	28	22	6	0	1.84	1.02	0.00	7.15
6	Kullu	24364	17173	13738	3435	0	1167.73	583.95	0.00	1810.50
7	L/Spiti	2632	8	6	2	0	0.51	0.34	0.00	0.85
8	Mandi	73050	809	647	162	0	54.96	27.54	0.00	333.43
9	Shimla	23920	4245	3396	849	0	288.65	144.33	0.00	429.98
10	Sirmour	41730	25912	20730	5182	0	1762.05	880.94	0.00	2632.96
11	Solan	35418	11777	9422	2355	0	800.87	400.35	0.00	1201.22
12	Una	34388	2423	1938	485	0	164.73	82.45	0.00	209.43
	Total	452038	98628	78901	19727	0	6706.59	3353.59	0.00	10324.03

Appendix – IV C

Calculation of Assistance for Horticulture Input Subsidy- Small and Marginal Farmers (SMF) as per items & norms													
Sr No.	Name of affected district	Total Number of Farmers affected	Number of SMF affected	Total area under fruit crops (2021-22) (Ha)	Total Horticultural area affected (in Ha)	Total Horticultural area where crop loss is >33% (in Ha)	Out of (7) area belonging to SMF (Ha)			Assistance sought for different categories of crop area			Total assistance sought (Rs. in Cr)
							Rainfed	Irrigated	Perennial	Rainfed (8500x Col. 8A)	Irrigated (Rs. 17000 x Col. 8B)	Perennial (Rs. 22500 x Col. 8C)	
1	2	3	4	5	6	7	8A	8B	8C	9A	9B	9C	10
1	Bilaspur	1764	1423	8600	209.90	23.50	22.10	1.40	0.00	187850.00	23800.00	0.00	0.02
2	Hamirpur	98	98	7852	8.82	5.12	0.62	4.50	0.00	5270.00	76500.00	0.00	0.01
3	Chamba	873	852	16794	254.67	7.02	0.02	7.00	0.00	170.00	119000.00	0.00	0.01
4	Kangra	4551	4316	41103	1659.38	115.22	107.22	8.00	0.00	911370.00	136000.00	0.00	0.10
5	Kinnaur	355	355	12647	238.00	68.00	68.00	0.00	0.00	578000.00	0.00	0.00	0.06
6	Kullu	11247	10684	31224	4292.94	1639.18	1639.18	0.00	0.00	13933030.00	0.00	0.00	1.39
7	L&S	25	25	1861	5.00	3.00	0.00	3.00	0.00	0.00	51000.00	0.00	0.01
8	Mandi	13417	13160	38431	3339.07	15.47	9.87	5.60	0.00	83866.53	95200.00	0.00	0.02
9	Shimla	35151	34708	49439	17011.80	1549.94	1529.94	20.00	0.00	13004490.00	340000.00	0.00	1.33
10	Sirmour	997	913	15741	915.77	247.65	247.50	0.15	0.00	2103750.00	2550.00	0.00	0.21
11	Solan	738	646	5877	471.13	449.00	447.05	1.95	0.00	3799891.00	33218.00	0.00	0.38
12	Una	1935	1790	6216	785.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	71151	68970	235785	29191.48	4123.10	4071.49	51.60	0.00	34607687.53	877268.00	0.00	3.55

Statement showing the losses due to different natural (Farmer's field and Departmental property) in respect of Department of Horticulture, HP

Name of Calamity: Heavy Rains/ Flash Flood/ Thunder Storms etc.

Sr. NO.	Name of District	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in Hect.)				Loss to Nursery		
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Bilaspur	All Crops	930	493	341	821	110.50	62.90	36.50	209.90	13	63	0.04
2	Hamirpur	All Crops	30	68	0	98	7.44	1.18	0.20	8.82	4316	0	1.82
3	Chamba	All Crops	702	150	21	873	212.66	37.86	4.15	254.67	438	200	0.59
4	Kangra	All Crops	3451	865	235	4551	936.88	510.30	212.20	1659.38	428	0	8.16
5	Kinnaur	All Crops	355	0	0	355	238.00	0.00	0.00	238.00	0	4938	0.00
6	Kullu	All Crops	7740	2944	563	11247	2506.00	1435.50	351.44	4292.94	0	0	0.00
7	L&S	All Crops	25	0	0	25	5.00	0.00	0.00	5.00	102	410	12.30
8	Mandi	All Crops	12346	814	257	13417	2601.56	481.81	255.70	3339.07	7892	5550	4.50
9	Shimla	All Crops	26054	8654	443	35151	9221.80	7103.00	687.00	17011.80	360	1579	0.79
10	Sirmour	All Crops	603	310	84	997	482.70	299.05	134.02	915.77	2827	20535	10.67
11	Solan	All Crops	365	281	92	738	171.64	196.49	103.00	471.13	350	170	14.33
12	Una	All Crops	910	880	145	1935	266.00	415.00	104.00	785.00	863	2754	2.03
Grand Total			53511	15459	2181	70208	16760.18	10543.09	1888.21	29191.48	17589	36199	55.24

Sr. NO.	Name of District	Name of Horticulture crop affected	Loss to progeny/ fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (14+17+19+21)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	2	3	15	16	17	18	19	20	21	22	23	24
1	Bilaspur	All Crops	662	181	0.09	438.60	112.74	68.50	16.43	129.30	185.00	23.50
2	Hamirpur	All Crops	301	24	3.46	0.00	0.00	0.00	0.00	35.66	3.70	5.12
3	Chamba	All Crops	819	1218	62.06	215.92	48.34	51.66	5.94	187.24	247.65	7.02
4	Kangra	All Crops	161	0	0.17	2.70	0.41	3479.74	426.60	562.12	1544.16	115.22
5	Kinnaur	All Crops	0	0	0.00	342.15	0.00	1215.00	212.00	565.95	170.00	68.00
6	Kullu	All Crops	17100	6330	675.41	11480.74	2866.83	9864.82	1735.67	5277.91	2653.76	1639.18
7	L&S	All Crops	0	0	0.00	0.00	0.00	0.00	0.00	40.30	2.00	3.00
8	Mandi	All Crops	40261	32630	937.33	1084.50	406.58	572.61	148.13	1521.79	3323.01	15.47
9	Shimla	All Crops	53863	51386	3398.36	7625.50	3303.81	1026.62	83.99	6866.85	15461.86	1549.94
10	Sirmour	All Crops	1119	4541	9.50	479.00	47.90	363.00	23.85	91.92	668.12	247.65
11	Solan	All Crops	1000	0	1.83	124.06	123.50	300.00	60.00	199.66	21.63	449.00
12	Una	All Crops	0	1250	0.67	11.50	2.20	0.00	0.00	4.90	785.00	0.00
Grand Total			115286	97560	5088.86	21804.67	6912.32	16941.95	2712.61	15483.60	25065.89	4123.10

Total claim as per MHA norms comes to Rs 3.55 Cr

Total Assistance for Agricultural area damaged during Kharif, 2023 season as per Norms of SDRF/NDRF as on 27.07.2023					
Sr. No	Name of the affected District.	Nature of Loss	Extent of loss (Area in Hac).	Rate per Hec. (Rs.)	Loss in money value (in Lacs)
1	H.P. State	Cultivated Area washed away/damaged by land slides avalanches and change of course of rivers	8498.74	47000.00	3994.41

Summary of Claim

1. Loss of Agriculture Crops: 358.26 Crore
2. Cost of De-silting : 39.94 Crore

Total: 398.20 Crore

Details of affected farmers, crops and land loss are available at **Annexure – D.**

Total claim as per MHA norms comes to Rs 143.58 Cr

(Agriculture Crop- 103.24+ Agriculture Land 39.94)

Animal Husbandry (Replacement of animals)

District	No. of Cattle lost				No. of animals qualifying for relief grant (i.e. subject to ceiling of 1 large milch animal or 4 small milch animals or 1 large draught animals or 2 small draught animal per household)				Assistance sought (Milch @ Rs. 37,500/-/Rs. 4000/- per animal and draught Animals @ Rs 32,000 and Rs. 20,000/- per animal)				Total Rs. In Lakh	No. of Poultry Birds Lost	Assistance sought @ Rs.100/- per bird subject to ceiling of Rs. 10,000/- per beneficiary
	Milch Animal		Draught Animals		Milch Animal		Draught Animals		Milch Animal		Draught Animals				
	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			
BILASPUR	8	20	3	0	8	20	3	0	300000	80000	96000	0	476000	10140	1014000
CHAMBA	7	615	1	2	7	615	1	2	262500	2460000	32000	40000	2794500	0	0
HAMIRPUR	14	6	0	0	6	1	0	0	225000	4000	0	0	229000	10	1000
KANGRA	41	123	8	3	29	65	6	3	1087500	260000	192000	60000	1599500	0	0
KULLU	62	1337	16	1	55	1337	16	1	2062500	5348000	512000	20000	7942500	0	0
KINNAUR	11	1218	0	2	11	1209	0	2	412500	4836000	0	40000	5288500	0	0
LAHAUL & SPITI	14	3304	18	0	14	3254	18	0	525000	13016000	576000	0	14117000	0	0
MANDI	152	2286	25	15	152	286	25	15	5700000	1144000	800000	300000	7944000	0	0
SHIMLA	49	56	0	0	49	36	0	0	1837500	144000	0	0	1981500	0	0
SIRMAUR	21	1	1	2	21	1	1	2	787500	4000	32000	40000	863500	0	0
SOLAN	18	8	3	2	18	8	3	2	675000	32000	96000	40000	843000	0	0
UNA	6	0	3	0	6	0	3	0	225000	0	96000	0	321000	0	0
Total	403	8974	78	27	376	6832	76	27	14100000	27328000	2432000	540000	44400000	10150	1015000

Total claim as per MHA norms comes to Rs 5.44 Crore

Appendix-VII

Assistance sought for repair/restoration of damaged houses.

Sr. No	Name of affected district	No. of houses damaged											
		Fully damaged Pucca houses @ Rs.1,30,000 per houses		Fully damaged kutcha houses @ Rs. 1,30,000 per house		Partially damaged Pucca houses @ Rs.6500 per houses		Partially damaged kutcha houses @ Rs.4000 per house		Huts/ Gharats/ Business Premises @ Rs. 8,000 per Unit		Cowshed Sheds @ Rs.3000 per Shed	
		No	Amount (Lacs)	No	Amount (Lacs)	No	Amount (Lacs)	No	Amount (Lacs)	No	Amount (Lacs)	No	Amount (Lacs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	BILASPUR	56	72.8	70	91	116	7.54	321	12.84	11	0.88	866	25.98
2.	CHAMBA	30	39	38	49.4	124	8.06	341	13.64	33	2.64	315	9.45
3.	HAMIRPUR	2	2.6	66	85.8	19	1.235	329	13.16	10	0.80	425	12.75
4.	KANGRA	26	33.8	240	312	173	11.245	1179	47.16	90	7.20	1357	40.71
5.	KULLU	66	85.8	6	7.8	192	12.48	46	1.84	39	3.12	111	3.33
6.	KINNAUR	280	364	169	219.7	792	51.48	476	19.04	516	41.28	287	8.61
7.	LAHAUL & SPITI	0	0	1	1.3	3	0.195	41	1.64	10	0.80	37	1.11
8.	MANDI	200	260	510	663	86	5.59	1117	44.68	177	14.16	1119	33.57
9.	SHIMLA	229	297.7	141	183.3	2638	171.47	1581	63.24	148	11.84	695	20.85
10.	SOLAN	15	19.5	26	33.8	162	10.53	74	2.96	12	0.96	133	3.99
11.	SIRMOUR	172	223.6	158	205.4	423	27.495	461	18.44	49	3.92	368	11.04
12.	UNA	12	15.6	98	127.4	112	7.28	204	8.16	2	0.16	184	5.52
	TOTAL	1088	1414.4	1523	1979.9	4840	314.6	6170	246.8	1097	87.76	5897	176.91

Total Claim as per the MHA Norms - Rs. 42.20 Crore

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

Sector		Damage in physical terms	Requirement of funds for repair of immediate nature (is Rs crore)	Out of (3), amount available from annual maintenance budget (is Rs crore)	Out of (3), amount available from related schemes/ programmes / other sources (in Rs crore)	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 (in Rs crore)
1		2	3	4	5	6
Roads & Bridges		Total Length = 18024 kms out of 38091kms. State Highways = 0 km out of 0 Km. Major Distt. Roads = 2145 km out of 4768 Km. Rural Road = 15879 km out of 33453 Km. Bridges = 97 nos (19 completely damaged No. of Culverts = 300 Nos.	a) For temporary restoration: 614.25 b) For permanent restoration: 2950.00		-	348.27
Jal Shakti	Rural/Urban	11058 Schemes	221.61	-	-	221.61
	Irrigation	2688 Schemes	53.76	-	-	53.76
	Sewerage	169		-	-	
	Flood Protection Work	218		-	-	
	Handpump	5406	5.40	-	-	5.40
	Cleaning Water Reservoir	2856	57.16	-	-	57.16
Power		1) Damage to Electrical infrastructure including	75.93	-	-	75.93

	transformers, HT/LT lines.				
Education		5.28			5.28
Health (PHC/CHC)	Damage to various health institutions				9.76
Animal Husbandry	Damage to the roofs, windows, doors and retaining walls of Veterinary institutions.	5.44			5.44
Community assets in owned by village communities	Damage to community centers, village paths, panchayat ghars, Mahila mandals and yuva bhawans.	54.40+212.56	-	-	266.96
BRO Roads	Damage to National highway 22 from Wangtu to Sumdo at various stretches	-	-	-	-
Fisheries	Damage to trout fish farm and fishery resources	-	-	-	18.85
Grant Total:					1050.32

Appendix-IX

State: Himachal Pradesh

**Status of expenditure from State Disaster Response Fund (SDRF) Account
Year 2023-24**

S.No	Item	Amount (Rs. in Crores)
	(I) Receipts	
1.	Opening balance in SDRF account as on 1.4.2023 of financial year 2023-24	
	(a)SDRF	55.75
	(b)NDRF	15.96
	(c) Total	71.71
2.	SDRF Releases made during instant financial Year (central and state share):	
	(a) First installment	200.40
	(b) Second installment	200.40
	(c) Total	400.80
3.	NDRF releases during the instant financial year, If any	389.27
4.	Interest received on investments made as per the CRF scheme	Nil
5.	Total funds available in the SDRF/NDRF account(1+2+3+4)	861.78
	(II) Expenditure/Releases (till date)	530.27
6.	Expenditure incurred as per norms on approved natural calamities as per the Schemes of SDRF/NDRF (indicate calamity-wise expenditure)	
	1) Gratuitous relief and cash assistance: 117.25	
	2)Repair of Public Buildings : 0.00	
	3)Repair of Houses : 48.00	
	4)Repair of Roads/Bridges : 278.9651	
	5)Repair of Irrigation and Water Supply Schemes : 186.10	
	6)Horticulture input subsidies : 6.00	
	7)Agriculture input subsidies : 5.00	
	8)Subsidy for Animal loss and fodder : 0.00	
	9)Repair of Electrical infrastructure : 21.20	
	10)Repair of Community Assets : 67.76	
	11) Capacity Buiding: 32.47	
	Total : 530.27	
7.	Expenditure incurred on training to specialized Teams of the state/District personnel	Nil
8.	Expenditure incurred on procurement of search and recue equipment etc.(as per extent approved items.	Nil
9.	Total expenditure incurred (6+7+8)	762.75
10.	Balance available in the SDRF account of the instant financial year:-	
	(a)SDRF	99.00
	(b)NDRF	0.00
	(c) Total	99.00

Profile of the State

Sr. No.	Name of District	Total land area Sq.Km .)	Number of villages	Population Rate (in lakh)	Literacy Rate (in percent)	Total Cropped area (In ha.) 2015-16	% of SMF* (Holdings)	Inter-state rivers	Normal annual rainfall (mm)
1	2	3	4	5	6	7	8	9	10
1.	BILASPUR	1167	1061	3.82	84.59	56901	30.25	Satluj	981.2
2.	CHAMBA	6522	1591	5.19	72.17	67775	26.40	Ravi	1177.3
3.	HAMIRPUR	1118	1725	4.55	88.15	67710	30.70	Bias	1303.7
4.	KANGRA	5739	3869	15.10	85.67	213283	23.28	Bias	1522.3
5.	KINNAUR	6401	660	0.84	80.00	10646	41.42	Satluj	432.2
6.	KULLU	5503	326	4.38	79.40	59597	14.66	Bias	1191.6
7.	LAHAUL-SPITI	13841	521	0.32	76.81	3517	56.74	Chander Bhaga	550.9
8.	MANDI	3950	3338	10.00	81.53	160610	27.58	Bias	1625.1
9.	SHIMLA	5131	3231	8.14	83.64	86468	34.47	Satluj	1076.7
10	SIRMAUR	2825	976	5.30	78.80	75638	48.63	Jamuna	356.6
11	SOLAN	1936	2544	5.80	83.68	62455	52.87	Satluj	1344.2
12	UNA	1540	848	5.21	86.53	74025	34.38	Sawan	1243.2
Total	HP	55673	20690	68.65	82.80	938625	29.88	-	1021.5

Source: Economics and Statistics Department

Extent of damage due to natural calamities**Type of Natural Calamity: Flash floods due to excessive rains on 24-06-2023 to 13-09-2023**

S.No.	Item	Details	
1.	Period occurrence	24-06-2023 to 13-09-2023	
2.	Total number of districts in the state	12	
3.	Number and names of districts affected	12 No. (Bilaspur, Chamba, Hamirpur, Kangra, Kinnaur, Kullu, Lahaul & Spiti, Mandi, Shimla, Sirmour, Solan, Una)	
4.	Number of villages affected	17,449 Census Villages	
5.	Population affected	68,56,509 as per 2011 Census	
6.	Total land area affected	55673 Sq. km.	
7.1	Cropped area affected		
7.1.1	Total cropped area affected	Agriculture: 134985ha	164176.48 ha
		Horticulture: 29191.48	
7.1.2	Estimated loss to crops	Agriculture: 103.24 Crore	106.79 Cr.
		Horticulture: 3.55 Cr	
7.1.3	Area where crop damage was more than 33%	Agriculture: 101214 ha	130405.48 ha
		Horticulture: 29191.48 ha	
7.2	Percentage of cropped area held by SMF		
7.2.1	In state as a whole	87.95%	
7.2.2	In the affected districts	87.95%	
8.	Houses damaged		
8.1	No. of house damaged(Total)	13633	
8.1.1	Fully damaged pucca houses	1088	
8.1.2	Fully damaged Kutcha houses	1526	

8.1.3	Severely damaged pucca houses		-
8.1.4	Severely damaged Kutcha houses		-
8.1.5	Partily damaged houses (pucca+kutcha)		11019
8.1.6	No. of huts/cowsheds damaged		7002
8.2	Estimated value of damage to houses		42.20 Cr
9	No. of human lives lost		428
10.	No. of persons who suffered grievous injuries		427
11.	No. of Persons who suffered minor injuries		200
12.	Animal & Poultry Loss		821
12.1	No of milch animal lost		
12.1.1	Buffalo/cow/Camel/Yak		481
12.1.2	Sheep/Goat		9001
12.1.3	Others(indicate name)		-
12.2	No. of Draught animals lost		105
12.2.1	Camel/Horse/Bullock		78
12.2.2	Calf /Donkey/Pony/Mule		27
12.2.3	Others (indicate name) Yak		
12.3	No of Poultry birds lost		10150
13.	Damage to public properties		
13.1	Public works department		
13.1	Roads (All)	18024 Km.	
13.1.1	State Roads (NH-22)	0 Km.	
13.1.2	District Roads	2145 Km.	
13.1.3	Village Roads	15879 Kms	
13.2	Bridges & Culverts	397 Nos	
			348.27 Cr

13.2.1	Bridges	97 Nos	
13.2.2	Culverts	300 Nos	
13.3	Drinking water supply	11058 schemes damaged	221.61 Cr
13.4	Irrigation,	2688 Nos	53.76 Cr
13.5	Power Sector	-	75.93 Cr
13.6	Education Sector		5.28 Cr.
13.6.1	Primary Schools (Damaged/D estroyed)	100 Nos	
13.6.2	Middle Schools (Damaged/D estroyed)		
13.6.3	High/Higher Secondary Schools (Damaged/D estroyed)	164 Nos	
13.6.4	Other educational institutes (Damaged/D estroyed)		
13.7	Health Sector		Rs 9.76 Cr
13.7.1	PHCs (Damaged/D estroyed)	378 Nos	
13.7.2	CHCs(Dama ged/Destroy ed)		

13.7.3	Others Buildings(damaged/Destroyed)Community assets etc		266.96 Cr
14.	Animal Husbandry	Damage to the roofs, windows, doors and retaining walls of Veterinary institutions.	1.78 Cr
15.	Fisheries		18.85Cr
16.	BRO		-
	Total Estimated damage to Houses, Crops and public Properties		1146.36 Cr

Extent of damage due to Flash Flood, Landslide and Cloudburst.

S. No	Item	Calamities
		Heavy rains leading to flashfloods and landslides
1.	Period of occurrence	24-06-2023 to 13-06-2023
2.	Total No of districts	12
3.	No and name of districts affected	12 (Bilaspur, Chamba, Hamirpur, Kangra, Kinnaur, Kullu, Lahaul & Spiti, Mandi, Shimla, Sirmour, Solan, Una)
4.	No. of villages affected	17,449 Census Villages
5.	Population affected (in lakh)	68, 56, 509 as per census, 2011.
6.	Total area affected	55.67 lakh ha.
7.1	Cropped area affected	134985 ha
7.1.1	Total Cropped area affected	134985 ha
7.1.2	Estimated loss to crops and horticultural land (Rs.in Cr)	3.44 Cr
7.1.3	Area where crop damage was more than 33%	29191.48 ha
7.2	Percentage of cropped area held by SMF	
7.2.1	In State as a whole	87.95%
7.2.2	In the affected districts	87.95%
8	Houses damaged	
8.1	No. of houses damaged (Total)	13633

S. No	Item	Calamities
		Heavy rains leading to flashfloods and landslides
8.1.1	Fully damaged pucca houses	1088
8.1.2.	Fully damaged kutcha houses	1526
8.1.3	Severely damaged pucca houses	-
8.1.4	Severely damaged kutcha houses	-
8.1.5	Partially damaged houses (pucca+kutcha)	4843+6176
8.1.6	No. of huts damaged	7002
8.2	Estimated value of damaged to houses	42.20 Cr
9	No. of human lives lost	427
10	No. of persons who suffered grievous injuries	428
11	No. of persons who suffered minor injuries	200
12	Animal & Polutry loss	6432
12.1	No. of milch animal loss	403
12.1.1	Buffalo/cow/Camel/Yak	403
12.1.2	Sheep/Goat	8974
12.1.3	Others (Indicate name) Yak	3
12.2	No. of Draught animals lost	
12.2.1	Camel/Horse/Bullock	78
12.2.2	Calf/Donkey/Pony/Mule	27
12.2.3	Others (indicate Name)	-

S. No	Item		Calamities
			Heavy rains leading to flashfloods and landslides
12.3	No. of Poultry birds lost		- -
13	Damaged to public property		
13.1	Roads (All)	Length	18024 Km.
		Estimated loss (Rs. in lacs)	343.44 Cr
13.1.1	State Roads	Length	0 Km.
		Estimated loss (Rs. in lacs)	-
13.1.2	District Roads	Length	2145 Km.
		Estimated loss (Rs. in lacs)	26.81 cr
13.1.3	Village Roads	Length	15879 Km.
		Estimated loss (Rs. in lacs)	114.26 cr
13.2	Bridges & Culverts	No.	397
		Estimated loss (Rs. in lacs)	3.00 cr
13.2.1	Bridge	No.	97 Nos.
		Estimated loss (Rs. in lacs)	0.98 cr
13.2.2	Culverts	No.	300 nos -
		Estimated loss (Rs. in lacs)	2.25 cr
13.3	Drinking water supply	No. of Schemes	11058
		Estimated loss (Rs. in lacs)	221.61 cr
13.4	Irrigation sector, FPW and Sewerage	No. of Schemes	2688
		Estimated loss (Rs. in lacs)	53.76 Cr

S. No	Item	Calamities	
			Heavy rains leading to flashfloods and landslides
13.5	Power Sector	No. of Schemes	-
		Estimated loss (Rs. in lacs)	75.93 Cr
13.6	Education Sector		5.28 Cr
13.6.1	Primary Schools (Damaged/Destroyed)	No. of Schemes	100
		Estimated loss (Rs. in lacs)	
13.6.2	Middle Schools (Damaged/Destroyed)	No. of Schemes	
		Estimated loss (Rs. in lacs)	
13.6.3	High/Higher Secondary School (Damaged/Destroyed)	No. of Buildings	164
		Estimated loss (Rs. in lacs)	
13.6.4	Other education institutes (Damaged/Destroyed)	No. of buildings	
		Estimated loss (Rs. in lacs)	
13.7	Health Sector		9.76 Cr
13.7.1	PHCs (Damaged/Destroyed)	No. of buildings	378
		Estimated loss (Rs. in lacs)	
13.7.2	CHCs (Damaged/Destroyed)	No. of buildings	
		Estimated loss (Rs. in lacs)	
13.7.3	Other Buildings (Damaged/Destroyed) Community assets etc	No. of buildings	
		Estimated loss (Rs. in lacs)	266.96 Cr
13.7.4	Animal husbandry buildings		1.78 Cr
13.7.5	Fisheries		18.83 Cr
	Total Estimated damage to Houses, Crops and public properties	Estimated loss (Rs. in Lacs)	1042.99 cr.

Appendix-XII

Statement Showing Item-wise details of expenditure incurred as per approved items and norms of SDRF/NDRF (Rs in crore) in the financial year 2023-24.*

Code No.	Items	Calamity												
		Avalanche/S	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami	Cold wave/Frost	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1.	Gratuitous Relief	125.25 Crores												
(a)	Ex-Gratia Payment to families of deceased person													
	(i) As per SDRF/NDRF norms													
	(ii) Outside the Norms													
	(iii) Total no. of beneficiaries													
(b)	Ex-Gratia Payment for loss of a limb or eyes													
	(i) As per SDRF/NDRF Norms	-												
	(ii) Outside the norms	-												
	(iii) Total no. of beneficiaries	-												
(c)	Grievous injury requiring hospitalization													
	(i) As per SDRF/NDRF Norms													
	(ii) Outside the norms													
	(iii) Total no. of beneficiaries													
(d)	Relief for the old ,infirm and destitute, children													
	(i) As per SDRF/NDRF Norms	-												
	(ii) Outside the norms	-												
	(iii) Total no. of beneficiaries	-												
(e)	Clothing and utensils/household goods for families whose houses have been washed away/fully damaged/severely inundated for more than a week due to natural calamity													
	(i) As per SDRF/NDRF Norms	-												
	(ii) Outside the norms	-												
	(iii) Total no. of beneficiaries	-												
(f)	Gratuitous relief for families in dire need of immediate sustenance after calamity													
	(i) As per SDRF/NDRF Norms	-												
	(ii) Outside the norms	-												
	(iii) Total no. of beneficiaries	-												

		Avalanche	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami	Cold wave/Frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
2.	Supplementary Nutrition												
	(i) As per SDRF/NDRF norms	-											
	(ii) Outside the Norms	-											
	(iii) Total no. Of beneficiaries	-											
3.	Assistance to Small and Marginal Farmers(SMF)for 11.00 Crores												
(a)	Desilting of agriculture land												
	(i) As per SDRF/NDRF Norms	-											
	(ii) Outside the norms	-											
	(iii) Total no. eligible area(Ha.)	-											
	(iv) No. Of S&M Farmers	-											
(c)	Desilting /Restoration/Repair of fish farms												
	(i) As per SDRF/NDRF Norms	-											
	(ii) Outside the norms	-											
	(iii) Total no. eligible area(Ha.)	-											
	(iv) No. of S&M Farmers	-											
(d)	Loss of Substantial portion of land caused by landslide,avalanche,change of course of rivers												
	(i) As per SDRF/NDRF Norms												
	(ii) Outside the norms												
	(iii) Total no. eligible area(Ha.)												
	(iv) No. of S&M Farmers												
(e)	Agriculture input subsidy where crop loss was 33% and above												
	For agriculture crops, horticulture crops. Annual plantation & perennial crop												
	(i) As per SDRF/NDRF Norms												
	(ii) Outside the norms												
	(iii) Total no. eligible area(Ha.)												
	(iv) No. of S&M Farmers												

Code No.	Items	Calamity											
		Avalanche/Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami	Cold wave/Frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
4.	Input Subsidy to farmers other than Small & Marginal Farmers												
	(i) As per SDRF/NDRF norms												
	(ii)Outside the Norms												
	(iii)Total no. eligible area (Ha.)												
	(iv)No. of S&M Farmers												
5.	Assistance to Small and Marginal sericulture famers												
	(i)As per SDRF/NDRF Norms												
	(ii)Outside the norms												
	(iii)Total area(Ha.)												
	(iv)No. Of S&M Farmers												
6.	Employment Generation												
	(i)As per SDRF/NDRF Norms												
	(ii)Outside the norms												
	(iii)No. of man days generated												
	(iv)Quantum of food gains distributed as part of wage component												
7.	Animal Husbandry Assistance to small and marginal farmers/agricultural labourers												
(i)	Replacement of draught/milch animals or animals used for haulage												
	(i)As per SDRF/NDRF Norms												
	(ii)Outside the norms												
	(iii) No. of beneficiaries												
(ii)	Provision of fodder/feed in cattle camps												
	(i)As per SDRF/NDRF Norms												
	(ii)Outside the norms												
	(iii)Number of Cattle camps												
	(iv) Number of Cattle kept in camps												
	(v) Qty.offodder(qtls)supplied in camp												
(iii)	Water Supply in Cattle Camps												
	(i)As per SDRF/NDRF Norms												
	(ii)Outside the norms												
	(iii)Total no. of Tanker load												
	(iv) Number of Cattle camps and cattle kept therein												

Code No.	Items	Calamity												
		Avalanche/Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami	Cold wave/Frost	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
(iv)	Additional cost of medicines and vaccine (calamity related requirements)													
	(i)As per SDRF/NDRF Norms	-												
	(ii)Outside the norms	-												
(v)	Supply of fodder outside Cattle Camps													
	(i)As per SDRF/NDRF Norms	-												
	(ii)Outside the norms	-												
	(iii) Total qty.of fodder transported (qtls)	-												
(vi)	Movement of useful cattle to other areas													
	(i)As per SDRF/NDRF Norms													
	(ii)Outside the norms													
	(iii).No. of cattle moved													
8.	Assistance to Fishermen													
(a)	For repair/replacement of boats, nets(damaged or lost)													
	(i)As per SDRF/NDRF Norms	-												
	(ii)Outside the norms	-												
(b)	Input subsidy for fish seed farm													
	(i)As per SDRF/NDRF Norms	-												
	(ii)Outside the norms	-												
	(iii) Total eligible area (Ha.)	-												
	(iv)No. Of Fish farmers	-												
9.	Assistance to artisans in handcraft/handloom sectors by way of subsidy for repair/replacement of damaged equipments													
(a)	Traditional Crafts(Handicraft)													
(i)	For replacement of damaged tools/equipments													
	(i) As per SDRF/NDRF norms	-												
	(ii) Outside the norms	-												
	(III) No. of equipments	-												
	(iv)No. Of beneficiaries	-												

Code No.	Items	Calamity											
		Avalanche	Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami
1	2	3	4	5	6	7	8	9	10	11	12	13	14
(iv)	Additional cost of medicines and vaccine (calamity related requirements)												
	(III) No. of equipments												
	(iv)No. Of beneficiaries												
(ii)	For loss of raw material/goods in process/finished goods												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(iii) Qty.ofMaterials(Qtls)												
	(iv)No. of beneficiaries												
(b)	For handloom Weavers												
(i)	Repairs/replacement of loom equipments and accessories												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(ii)No. Of equipments/accessories												
	(iv)No. of beneficiaries												
(ii)	Purchase of yarn and other materials like dyes and chemicals and finished stocks												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(ii)Qty. of Materials(Qtls)												
	(iv)No.of beneficiaries												
10	Assistance for repair/restoration of damaged houses 48.00 Crores												
(a)	Fully damaged/destroyed Pucca houses												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(ii)Number												
(b)	Fully damaged /destroyed Kutcha houses												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(ii)Number												
(c)	Severely damaged housed												
(i)	Severely damaged Pucca houses												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(ii)Number												
(ii)	Severely damaged Kuchha house												
	(i) As per SDRF/NDRF norms												

Code No.	Items	Calamity											
		Avalanche/Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami	Cold wave/Frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	(ii) Outside the norms												
	(ii)Number												
(d)	Partially Damaged Houses(Both Pucca and Kuccha)												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(ii)Number												
(e)	Huts damaged/destroyed												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(ii)Number												
11	Provision of emergency supply of drinking water in rural areas and urban areas. Rs.1.10												
	(i) As per SDRF/NDRF norms												
	(ii) Outside the norms												
	(ii)Total Qty. of water supplied (No. Of tankers load)												
12	(i)Provisions of medicines,disinfectants,insecticides for prevention of outbreak of epidemics												
	(ii)No. of beneficiaries												
13	(i)Medical care for cattle and poultry against epidemics as a sequel to a notified natural calamity												
	(ii)Total no of cattle & paltry benefited												
14	(i)Evacuation of people affected /likely to be affected												
	(ii)No. Of people evacuated												
	(iii) Average cost/person												
15	Hiring of boats for carrying immediate relief and saving life												
	(i)No. of boat days												
	(ii)Average hiring cost per boat/day												

Code No.	Items	Calamity												
		Avalanche/Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami	Cold wave/Frost	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
(f)	Primary Health Centers													
	(i) As per SDRF/NDRF norms													
	(ii) Outside the norms													
	(iii)No. Of Primary Health Centers buildings repaired													
(g)	Community assets owned by panchayats /ULBs	67.76 Crores												
	(i) As per SDRF/NDRF norms													
	(ii) Outside the norms													
	(iii)No. of Community assets repaired													
19	Replacement of damaged medical equipments and lost medicines of Govt.hospitals/health centers													
	Repair of Public Buildings													
20	Operational Cost(of POL only) for Ambulance Sevice,Mobile medical Teams and Temporary Dispensaries													
	(i) As per SDRF/NDRF norms													
	(ii) Outside the norms													
21	Cost of clearance of debris													
	(i) As per SDRF/NDRF norms													
	(ii) Outside the norms													
22	Draining off floodwater in affected areas													
23	Cost of search and rescue measures													
	(i) As per SDRF/NDRF norms													
	(ii) Outside the norms													
24	Disposal of dead bodies/carcasses													
	(i) As per SDRF/NDRF norms													
	(ii) Outside the norms													
	(iii) Total no. of carcasses disposed													

Code No.	Items	Calamity											
		Avalanche/Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami	Cold wave/Fro
1	2	3	4	5	6	7	8	9	10	11	12	13	14
25	Training to specialist multi-disciplinary groups/teams of the state personnel drawn from different cadres/services/personnel involved in management of disaster in the state.												
	(i)Number of training organized												
	(ii)Number of persons trained												
26	Procurement of essential search ,rescue and Evacuation equipments including Communication equipments												
	Cost of equipments procured												
	Gross Total(Crores)	253.11 Cr.											

Appendix-XIII

Monthly Statement of expenditure from SDRF/NDRF Year: 2023-24 (Monsoon).

1. Opening balance at the beginning of the Month	:Rs. 71.71 Cr
2. Releases during the Month, if any, from SDRF	:Rs. 400.80 Cr
2.1 Central Share	:Rs. 360.80 Cr
2.2 State Share	:Rs. 40.00 Cr
3. Release during the Month , if any, from NDRF	: Rs. 389.27 Cr
4. Interest on investments	: Rs. 0.00 Cr
5. Total Availability of Funds(Sum of 1 to 4)	: Rs. 861.78 Cr
6. Expenditure/Releases to the Distt. & Line Deptt. During current FY	: Rs. 762.75 Cr
7. Closing balance at the end of month(5-6)	: Rs. 99.03 Cr

(in crore)

Code No.	Items	Calamity											
		Avalanche	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest Attack	Tsunami	Cold wave/Frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Gratuitous Relief	125.25 Crore											
(a)	Ex-Gratia Payment to families of deceased persons												
	(i) As per SDRF/NDRF norms		3.8					20		20			
	(ii)Outside the Norms												
	(iii)Total no. of beneficiaries	1443 No.s											
(b)	Ex-Gratia Payment for loss of a limb or eyes												
	(i)As per SDRF/NDRF Norms	-											
	(ii)Outside the norms	-											
	(iii)Total no. of beneficiaries	-											
(c)	Grievous injury requiring hospitalization												
	(i)As per SDRF/NDRF Norms							5.00		5.00			
	(ii)Outside the norms												
	(iii)Total no. of beneficiaries	1771 No.s											

Code No	Items	Calamity											
		Avalanche /Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest attack	Tsunami	Cloud wave/frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
(d)	Clothing and utensils /house hold goods for families whose house have been washed away/fully damaged /severely inundated for more than a week due to a natural calamity.												
	(i) as per SDRF/NDRF norms	-	1.0					8		5.6			
	(ii) outside the norms	-								0			
	(iii) Total no. of beneficiaries	-											
(e)	Gratuitous relief for families in dire need of immediate sustenance after a calamity. (GR to be provided to those who have no feed reserves, or whose food reserves have been wiped out in a calamity, and who have no other immediate means of support.)												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii) Total no. of beneficiaries												
2.	Search & rescue operations												
(a)	Cost of search and rescue measures/evacuation of people affected/likely to be affected												
	(i) as per SDRF/NDRF norms		.40					1		1			
	(ii) outside the norms												
	(iii) Total no. of beneficiaries												
(b)	Hiring of Helicopter and Dozer for carrying immediate relief and saving lives.												
	(i) as per SDRF/NDRF	IAF Helicopters were hired for carrying out the recce of the affected areas and to carry out SAR operations, but the bills are still to be raised by the India Airforce.											
	(ii) outside the norms												
	(iii) Total no. of beneficiaries												
3.	Relief Measures												
(a)	Provision for temporary accommodation ,food, clothing , medical care, etc. for people affected/evacuated and sheltered n relief camps												
	(i) as per SDRF/NDRF norms		.45					5		5			
	(ii) outside the norms												
	(iii) Total no. of beneficiaries												
(b)	Air dropping of essential supplies (Yes)												
	(i) as per SDRF/NDRF norms	-											
	(ii) outside the norms	-											
	(iii) Total no. of beneficiaries	-											
I	Provision of emergency supply of drinking water in rural areas and urban areas												
	(i) as per SDRF/NDRF norms	-											
	(ii) outside the norms	-											

Code No	Items	Calamity											
		Avalanche/Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest attack	Tsunami	Cloud wave/frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	(iii) No of beneficiaries												
4.	Clearance or affected areas												
(a)	Clearance of debris in public areas.												
	(i) as per SDRF/NDRF norms		19.00 9						100.0		80.0		
	(ii) Outside the norms												
	(iii) Total eligible area(Ha.)	127000 square meter											
	(iv) No. of S&M farmers												
(b)	Draining off flood water in affected areas	-											
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers	-											
I	Disposal of dead bodies /Carcases												
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers	-											
5	Agriculture/Horticulture	11.00 Crore											
(i)	Assistance to small and marginal farmers.												
(A)	Assistance for land and other loss												
(a)	De-silting of agricultural land (where thickness of sand /silt deposit is more than 3” to be certified by the competent authority of the State Government)												
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers	-											
(b)	Removal of debris on agricultural and in hilly areas												
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers	-											

Code No	Items	Calamity											
		Avalanche/Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest attack	Tsunami	Cloud wave/frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
I	De-silting/Restoration/Repair of fish farms												
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers	-											
(d)	Draining off flood water in affected areas												
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers	-											
B	Input subsidy (where crop loss is 50% and above)												
(a)	For agriculture crop, horticulture crops and annual plantation crops												
	(i) as per SDRF/NDRF norms												
	(ii) Outside the norms												
	(iii) Total eligible area(Ha.)												
	(iv) No. of S&M farmers												
(b)	Perennial Crops												
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers	-											
I	Sericulture												
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers												
(ii)	Input subsidy to farmers other than small and marginal farmers												
	(i) as per SDRF/NDRF norms	-											
	(ii) Outside the norms	-											
	(iii) Total eligible area(Ha.)	-											
	(iv) No. of S&M farmers												

Code No	Items	Calamity											
		Avalanche /Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest attack	Tsunami	Cloud wave/frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
6.	Animal husbandry-Assistance to small and marginal farmers (Ex-Gratia)												
(i)	Replacement of milch animals drought animals or animals used for haulage.												
(ii)	(i) as per SDRF/NDRF norms							5		5.15			
	(ii) outside the norms												
	(iii)No. of beneficiaries	562 (livestock lost 5508 No.s)											
(iii)	Provision of fodder/feed concentrate cattle camps												
(iv)	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No. of beneficiaries												
(v)	Water supply in cattle camps												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No. of beneficiaries												
	Additional cost of medicines and vaccine												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No. of beneficiaries												
	Transport of fodder to cattle outside cattle camps												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No. of beneficiaries												
(7)	Fishery												
(i)	Assistance to Fisherman for repair/ replacement of boats, nets-damaged or lost												
(ii)	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	Input subsidy for fish seed farm												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii) Total eligible area (Ha.)												
	(iii) No. of fish farmers												

Code No	Items	Calamity											
		Avalanche/Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest attack	Tsunami	Cloud wave/frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
8.	Handicrafts/Handloom-Assistance to Artisans												
(i)	For replacement of damaged tools /equipment												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No. of equipments												
	(iv) No. of beneficiaries												
(ii)	For loss of raw material /goods in process/finished goods												
	(i) as per SDRF /NDRF norms												
	(ii) outside the norms												
	(iii)Qty. of materials (Qtls.)												
	(iv) no of beneficiaries												
9.	Housing 48.00 Crore												
(a)	Fully damaged/destroyed houses												
(i)	Pucca house												
	(i) as per SDRF/NDRF norms(Crore)							4.00		4.50			
	(ii) outside the norms												
	(iii)Number	330											
(ii)	Kuchha House												
	(i) as per SDRF/NDRF norms(Crore)							5.50		4.00			
	(ii) outside the norms												
	(iii)Number	369											
(b)	Severely damaged housed												
(i)	Pucca House												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)Number												
(ii)	Kutch House												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)Number												

Code No	Items	Calamity											
		Avalanche /Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest attack	Tsunami	Cloud wave/frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
I	Partially damaged housed-both pucca/kuccha (other than huts)where the damage is at least 15 %												
	(i) as per SDRF/NDRF norms(Crore)							2.00		1.50			
	(ii) outside the norms												
	(iii)Number	4843 Pucca House, 6176 Kutcha House											
(d)	Damaged/destroyed huts:												
	(i) as per SDRF/NDRF norms							.50					
	(ii) outside the norms												
	(iii)Number	542											
(e)	Cattle shed attached with house												
	(i) as per SDRF/NDRF norms							1.0					
	(ii) outside the norms												
	(iii)Number of cattles	5904											
10.	Infrastructure												
	Repair /restoration (of immediate nature) of damaged infrastructure												
(1)	Road & bridges												278.9651Crore
(a)	Roads & Bridges(Crores)		30.00					100		88.965			
	(i) as Per SDRF /NDRF norms												
	(ii) Outside the norms												
	(iii) Cumulative length of roads repaired	18024 Km											
(b)	Drinking water supply works and irrigation												186.10 Crore
	(i) as per SDRF/NDRF norms							50.0		110.0			
	(ii) outside the norms												
	(iii)Total of schemes							6123		4712			
I	Irrigation												
	As per Col(B) above.												
	(i) as per SDRF/NDRF norms							21.0		15.10			
	(ii) outside the norms												
	(iii) Total no. of schemes							982		746			
(d)	Power(only limited to immediate restoration of electricity supply in												21.20 Crore
	(i) As per SDRF/NDRF norms		1.0					6.70		6.0			
	(ii) Outside the norms												

Code No	Items	Calamity											
		Avalanche /Snowfall	Cloud burst	Cyclone	Drought	Earthquake	Fire	Flood	Hailstorm	Landslide	Pest attack	Tsunami	Cloud wave/frost
1	2	3	4	5	6	7	8	9	10	11	12	13	14
(e)	School												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii) No of School Buildings repaired												
(f)	Primary Health Centers												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No. of Primary Health Centers Buildings repaired												
	(iv)Repair of Public Buildings												
(g)	Community assets owned by local bodies	67.76 Crore											
	(i) as per SDRF/NDRF norms		30.00					20.0		17.76			
	(ii) outside the norms												
	(iii)No of Community assets repaired	408 Nos., 14237 Kms											
11.	Preparedness& capacity Buiding -	32.47 Crore											
	Gross Total:-	Rs. 762.75 Crore											

*(The details of expenditure, component wise is not available. The funds have been released to various departments as per their requirement. The figures shall be consolidated after the expenditure figures are available.)

DISTRICT WISE DEATH DETAILS DURING THE MONSOON SEASON-2023

Sr.No.	District	Landslide	Flash Flood	Cloudburst	Accidental Drowning	Fire	Snake Bite	Electrocution	Fall from Tree/ Steep-Rock	Other*	Total Deaths
1	Bilaspur	1	0	0	1	0	1	3	3	0	9
2	Chamba	3	1	1	3	0	1	1	12	1	23
3	Hamirpur	3	0	0	7	0	0	2	1	0	13
4	Kangra	1	0	0	7	0	3	2	6	4	23
5	Kinnaur	5	0	0	0	0	0	0	3	1	9
6	Kullu	12	15	0	2	0	0	2	8	3	42
7	L & S	1	0	0	0	0	0	0	1	0	2
8	Mandi	18	1	8	6	0	0	0	3	0	36
9	Shimla	52	0	0	7	1	0	1	7	2	70
10	Sirmaur	3	0	5	2	0	1	1	2	1	17
11	Solan	13	2	0	1	0	0	0	1	1	18
12	Una	0	0	0	1	0	8	1	0	0	11
Total		112	19	14	37	1	14	14	47	13	270

Loss of Lives due to Road Accident

District	Bilaspur	Chamba	Hamirpur	Kangra	Kinnaur	Kullu	L & S	Mandi	Shimla	Sirmaur	Solan	Una	TOTAL
Death	9	25	7	16	8	9	3	12	21	15	21	12	158

Total Loss: Rs. 17.12 Crore.**Total Loss as per MHA GOI Norms is Rs. 5.84 Crore.**

Annexure-II

District	Loss to Private Property								
	Loss to Houses				Shops/Factory	Labour Sheds /Bridge/ Huts	Cow Sheds	Gharats/ ShamshanGhat	Monetary loss (Rs in Lakh)
	Fully Damaged		Partially Damaged						
	Pucca House	Kaccha House	Pucca House	Kaccha House					
Bilaspur	56	71	116	322	4	1	866	6	1420.4
Chamba	30	38	124	342	21	4	315	8	667.6
Hamirpur	2	66	19	329	5	0	426	5	479.6
Kangra	28	243	174	1186	29	2	1370	62	2697.9
Kinnaur	66	6	192	46	18	1	111	20	2062.4
Kullu	280	169	792	476	2	99	287	415	12983.8
L&P	0	1	3	41	0	1	37	9	148.4
Mandi	200	510	86	1118	175	0	1119	2	5856.6
Shimla	229	141	2642	1587	16	118	695	14	24839.0
Sirmour	15	26	162	75	12	0	133	0	389.6
Solan	172	158	423	461	34	12	368	3	3948.2
Una	12	98	112	204	2	0	186	0	265.9
Total	1090	1527	4845	6187	318	238	5913	544	55759.4

Says Rs 557.59 Crore

Public Work Department:

Annexure-A

Name of Zone	Name of Circle	Total Length of roads affected. (In Km.)	Length of Roads affected (In Km.)			Amount required for repair of damaged/ washed away Bridges (In Cr.)	Amount required for (OR,PR & R/Wall & B/Wall) (In Cr.)	Amount required for repair of Culverts (In Cr.)	Total Amount required. (In Cr.)
			VR	MDR	SH				
Mandi	Mandi	2250	2110	140	0	23.77	253.23	0.45	277.45
	Kullu	1150	1060	90	0	44.65	301.11	0.30	346.06
	Joginder Nagar	470	390	80	0	1.70	112.94	0.12	114.76
	Total	3870	3560	310	0	70.12	667.28	0.87	738.27
Shimla	Solan	1940	1720	220	0	4.15	163.86	0.18	168.19
	Shimla	890	720	170	0	16.15	144.94	0.25	161.34
	Rampur	1932	1714	218	0	10.67	243.66	0.2	254.53
	Nahan	1290	1125	165	0	3.4	169.44	0.12	172.96
	Rohru	1130	940	190	0	4.7	199.21	0.12	204.03
	Total	7182	6219	963	0	39.07	921.11	0.87	961.05
Hamirpur	Hamirpur	1890	1560	330	0	1.65	195.64	0.07	197.36
	Dharampur	1125	940	185	0	4.5	102.4	0.09	106.99
	Bilaspur	730	590	140	0	0	103.16	0.06	103.22
	Una	590	510	80	0	0.8	77.1	0.07	77.97
	Total	4335	3600	735	0	6.95	478.3	0.29	485.54
Kangra	Palampur	1127	1090	37	0	2.53	162.73	0.08	165.34
	Nurpur	390	360	30	0	5.00	95.79	0.09	100.88
	Dalhousie	1120	1050	70	0	1.9	139.36	0.05	141.31
	Total	2637	2500	137	0	9.43	397.88	0.22	407.53
	Total	18024	15879	2145	0	126	2465	2.25	2592
			Chief Engineer (NH)						357.62
								G.Total	2950

Circle wise general abstract of damaged culverts for the year 2023-24 in respect of HPPWD

Sr No	Name of Zone	Name of Circle	Total Number of Culvert damaged	Amount required for restoration (Rs. In Cr.)
1	Mandi	Mandi	40	0.45
		Kullu	35	0.30
		Joginder Nagar	12	0.12
		Total	87	0.87
2	Shimla	Solan	18	0.18
		Shimla	19	0.25
		Rampur	35	0.2
		Nahan	15	0.12
		Rohru	25	0.12
		Total	112	0.87
3	Hamirpur	Hamirpur	12	0.07
		Dharampur	15	0.09
		Bilaspur	18	0.06
		Una	11	0.07
		Total	56	0.29
4	Kangra	Palampur	12	0.08
		Nurpur	8	0.09
		Dalhousie	25	0.05
		Total	45	0.22
		G. Total	300	2.25

Details of Rain damages Retaining/Breast wall of various roads in respect of HPPWD.				
Sr. No.	Name of Circle	Total Nos. of road damaged	Total Length of road effected /damaged through R/Wall & B/Wall (in mtrs.)	Total amount for restoration of road. (Rs. In Lacs)
1	2	3	4	5
	Shimla Zone			
1	3rd Circle Solan	154	11708	4910.16
2	4th Circle Shimla	348	8978	3489.36
3	11th Circle Rampur	205	9849	2502.16
4	12th Circle Nahan	166	13403	6563.29
5	14th Circle Rohru	164	31558.65	7073.78
	Total	883	75496.65	24538.75
	Mandi Zone			
1	1st Circle Mandi	260	19474.65	6850.61
2	Joginder Nagar	193	5382	2031.72
3	6th Circle Kullu	219	20663.5	11337.34
	Total	672	45520.15	20219.67
	Kangra Zone			
1	5th Circle Palampur	170	4247	1684.73
2	7th Circle Dalhousie	196	16890	4522
3	8th Circle Nurpur	149	6850.5	1712.2
	Total	515	27987.5	7918.93
	Hamirpur Zone			
1	8th Circle Hamirpur	122	8266	3422.78
2	10th Circle Bilaspur	278	10460.97	2700.38
3	Dharampur Circle	126	-	2007.78
4	15th Circle Una	40	2486.1	616.73
	Total	440	21213.7	8747.67
	G.Total	1791	126280	61425.02

Circle wise detail of removal of debris (w.e.f. 26-6-2023 to 30-8-2023)						
S.No	Zone	Name of Circle	Quontam of debris (in Cum approximated)	Rate Rs.157.30 per cum for removal/ dispose off.	Amount Required for restoration (Rs. In lacs)	Remarks
1	2	3	4	5	6	7
1	Shimla	Solan	394151.03	@157.30	620.00	For removal of debris
		Shimla	580932.00	-do-	914.00	-do-
		Rampur	2044648.90	-do-	3216.22	-do-
		Nahan	603941.00	-do-	950.00	
		Rohru	667514.00	-do-	1050.00	
		Total	4291186.93			6750.22
	Mandi	Mandi	1144310	-do-	1800	
		Kullu	1398601	-do-	2200	
		J/Nagar	349650	-do-	550	
		Total	2892561			4550
	Hamirpur	Hamirpur	349650	-do-	550	
		Dharampur	476795.00	-do-	750	
		Bilaspur	508582	-do-	800	
		Una	762873	-do-	1200	
		Total	2097900			3300
	Kangra	Palampur	699301	-do-	1100	
		Nurpur	508582	-do-	800	
		Dalhousie	2225048	-do-	3500	
		Total	3432931			5400
		G. Total	12714578.93			20000.22

Claims under removal of debris as per MHA Norms is Rs 200.00 Crore

Detail of Day wise/Circle wise Machinery deployed for removal of debris (w.e.f. 10-7-2023 to 13-9-2023)										
Sr No	Date	Total No. of roads closed.	Total damaged amount. (In lacs)	Detail of Machinery deployed				Total machinery deployed	Bridges Damaged	
				JCB		Dozer	Tipper/Tractor		Damaged	Washed Away
				Deptt.	Hired					
1	2	3	7	8	9	10	11	12	13	14
1	07-10-2023	1321	35596.03	75	463	21	142	701	7	0
2	07-11-2023	1299	61608.09	92	573	20	154	850	8	0
3	07-12-2023	1189	71071.16	94	565	19	205	884	22	11
4	13/7/2023	1124	93198.82	92	520	19	195	826	22	11
5	14/7/2023	868	105623.95	84	564	28	193	869	22	11
6	15/7/2023	681	119739.61	86	583	32	201	902	22	11
7	16/7/2023	796	129123.87	89	588	31	213	921	22	11
8	17/7/2023	720	136458.77	88	550	29	205	872	22	11
9	18/7/2023	682	139622.54	85	586	28	199	898	22	11
10	19/7/2023	735	145746.92	93	606	32	210	541	22	11
11	20/7/2023	676	149840.85	89	632	32	232	985	36	14
12	21/7/2023	603	153145.71	87	651	32	248	1018	37	14
13	22/7/2023	696	157638.52	96	684	32	243	1055	37	14
14	23/7/2023	633	162191.84	97	661	32	239	1029	34	14
15	24/7/2023	566	164944.47	93	637	31	245	1006	72	19
16	25/7/2023	487	168473.65	92	587	29	249	957	72	19
17	26/7/2023	564	172750.17	98	600	20	245	963	72	19
18	27/7/2023	496	176000.65	96	589	27	249	961	90	19
19	28/7/2023	468	179613.52	100	571	25	244	940	90	19
20	29-7-2023	449	181786.67	99	556	30	235	920	90	19
21	30--7-2023	449	181786.67	99	556	30	235	920	90	19
22	31-7-2023	364	184918.67	92	532	29	253	904	90	19

23	08-01-2023	321	187437.74	104	527	27	258	916	90	19
24	08-02-2023	301	189593.23	95	512	26	243	876	90	19
25	08-03-2023	331	192817.69	100	523	27	261	911	90	19
26	08-04-2023	317	194129.7	94	530	26	252	912	90	19
27	08-05-2023	278	196525.44	92	528	27	261	908	90	19
28	08-06-2023	215	197479.47	86	519	28	223	856	90	19
29	08-07-2023	211	199044.87	80	504	20	245	849	90	19
30	08-08-2023	217	200309.65	79	506	19	247	851	90	19
31	08-09-2023	193	201244.97	84	479	20	234	817	90	19
32	08-10-2023	166	202332.6	85	486	22	239	832	90	19
33	08-11-2023	302	208427.81	97	526	27	253	913	90	19
34	08-12-2023	449	208427.84	104	579	27	262	972	90	19
35	13-8-2023	621	213204.82	114	621	30	267	1032	90	19
36	14-8-2023	1199	223206.47	128	700	32	298	1158	90	19
37	15-8-2023	1220	237461.04	120	800	33	315	1268	90	19
38	16-8-2023	948	245442.3	112	762	30	324	1228	90	19
39	17-8-2023	875	253978.19	103	764	25	318	1210	90	19
40	18-8-2023	672	254875.2	103	764	25	318	1210	90	19
41	19-8-2023	562	257301.02	103	654	22	295	1074	90	19
42	20-8-2023	387	258803.34	98	654	29	291	1072	90	19
43	21-8-2023	344	259379.74	96	533	30	277	1036	90	19
44	22-8-2023	331	261595.49	98	636	20	271	1025	90	19
45	23-8-2023	709	267146.37	99	694	24	302	1119	90	19
46	24-8-2023	729	271064.82	105	812	28	342	1287	90	19
47	25-8-2023	620	276760.27	106	754	27	328	1215	90	19
48	26-8-2023	488	279463.58	100	719	25	316	1160	90	19
49	27-8-2023	403	280351.46	100	670	26	298	1094	90	19
50	28-8-2023	348	280861	101	666	25	298	1090	90	19
51	29-8-2023	300	280861	101	666	25	298	1090	90	19
52	30-8-2023	270	281296.5	90	609	24	280	1003	90	19

53	31-8-2023	234	281454.86	91	576	25	276	968	90	19
54	09-01-2023	205	281645.1	91	549	24	284	948	90	19
55	09-02-2023	181	281894.91	92	540	21	255	908	90	19
56	09-03-2023	159	281936.51	89	526	20	273	908	90	19
57	09-04-2023	140	281992.51	91	534	21	280	926	90	19
58	09-05-2023	145	282178.46	92	558	22	286	958	90	19
59	09-06-2023	128	282314.66	92	518	24	265	899	90	19
60	09-07-2023	120	282314.66	92	518	24	265	899	90	19
61	09-08-2023	100	282903.66	89	494	22	259	864	90	19
62	09-09-2023	94	282942.66	89	494	22	259	864	90	19
63	09-10-2023	87	282953.66	88	469	20	250	827	90	19
64	09-11-2023	87	282953.66	88	469	20	250	827	90	19
65	09-12-2023	75	283085.16	85	473	19	229	806	90	19
66	13-9-2023	72	283115.16	84	472	19	229	804	90	19
			283115.16	6246	38741	1687	16908	63312	90	19
		Say Rs. (in Cr)	2831.15							
	1. Amount required for re-construction of 19 Nos. Washed Away Bridges.		58.2							
	2. Amount required for restoration of 90 Nos. Damaged Bridge		60.2							
		G. Total	2949.55 Crore							
Note:- Roads are closed multiple times & opened for vehicular traffic regularly thereafter.										

Format for working out the requirements under the head of repair of damaged infrastructure of immediate nature (Year 2023-24 w.e.f. 26-6-2023 to 5-9-2023)

Sr No.	Damage in physical terms	Infrastructure	Prescribed rates	Amount Required for restoration of immediate nature (Rs. in Cr.)
	<p>Total Length = 18024 kms. out of 38091 Kms. (Excluding NH/NHA)</p> <p>State Highways = 0 km out of 0 Km.</p> <p>Major Distt. Roads = 2145 km (out of 4768 Km.</p> <p>Rural Road = 15879 kms. out of 33453 Kms.</p>	<p>(i) Filling up of 'breaches and potholes, use of pipe for creating water way, repair and stone pitching of embankments.</p> <p>(ii) Repair of breached culverts</p> <p>(iii) Providing diversion to damaged/ washed out portion</p>	<p>➤ Repair of State Highways/Major Distt. Road</p> <ul style="list-style-type: none"> - in normal areas @ Rs. 1.00 per Km. - In Hilly areas @ Rs.1.25 lacs per Kms. <p>➤ Repair of Rural/ Village roads with culverts.</p> <ul style="list-style-type: none"> - in normal areas @ Rs. 60,000/- per Km. - in Hilly areas @ Rs.75,000/-per Kms. 	<p><u>Major Distt. Road.</u> 2145x1.25=2681.25 Lacs Say Rs.26.81 Cr.</p> <p><u>Rural Road</u> 15879x 0.75=11909.25 lacs Say Rs.119.09 Cr.</p> <p><u>Culvert</u> 300x 0.75=225.00 lacs Say Rs.2.25 Cr</p> <p>19x0.75=14.25 Lacs Say Rs. 0.14 Cr.</p>

	<p>No. of RCC Culverts = 300 Nos.</p> <p>Bridges Washed Away =19 Nos.</p> <p>Bridge Damaged = 97 Nos.</p> <p>Clear of debris in Public Places/ Road side through private and departmental machinery (Dozer= 25 Nos. Tipper= 298 Nos & JCB =102+714=816 Total Machinery =1139 No.)</p>	<p>of bridge to restore immediate connectivity.</p> <p>(iv) Temporary repair of approaches to bridges/ embankment of bridge, repair of damaged railing bridges, repair of cause way to restore to immediate connectivity, granular sub base, over damaged stretches of roads to restore traffic.</p>	<p>➤ Repairs of RCC Culverts/Bridge</p> <ul style="list-style-type: none"> - in normal areas @ Rs. 60,000/- per Km. - in Hilly areas @ Rs.75,000/-per Kms. <p>in Hilly areas @ Rs.75,000/-per Kms.</p> <p>in Hilly areas @ Rs.75,000/-per Kms.</p>	<p>97x0.75= 97.75 Lacs</p> <p>Say Rs.0.98 Cr.</p> <p>Rs. 199.00</p> <p>Total:-348.27 Cr.</p>
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As per the MHA Gol Norms damages to roads, bridges and culverts: Rs. 348.27

JAL SHAKTI VIBHAG:

Rain Damages Report of Jal Shakti Vibhag Himachal Pradesh										
Sr. No.	Name of Circle	Water Supply		Irrigation		Hand Pumps		Cleaning of Tanks (in Nos)	Removal of Silt and debris (in Cum.)	Approx. Amount
		No. of Scheme Affected	Approx. Amount	No. of Scheme Affected	Approx. Amount	No. of Hand pump Affected	Approx. Amount			
1	Dharamshala	1315	15291.40	434	6856.25	150	22.50	1063	226250	22170.15
2	Chamba	619	4903.70	125	2442.50	423	84.60	1857	93875	7430.80
3	Nurpur	344	2625.21	319	3746.60	360	72.00	495	83000	6443.81
4	Sundernagar	1104	22145.43	129	4147.22	1200	240.00	2907	140625	26532.65
5	Kullu	1201	12099.70	178	5171.30	366	72.24	2256	173125	17343.24
6	L&S (Kullu)	125	2195.00	104	4988.00	60	12.00	240	21250	7195.00
7	Hamirpur	841	7973.87	54	1296.15	1000	150.00	522	115750	9420.02
8	Bilaspur	786	5470.08	75	1072.20	322	78.52	804	108875	6620.80
9	Una	540	5393.10	438	3133.80	313	62.60	606	123875	8589.50
10	Dharampur	796	6089.79	178	2151.51	214	42.80	1098	122125	8284.10
11	Shimla-9	1682	10051.66	298	1296.10	123	24.69	2394	249125	11372.45
12	Rohroo	747	7439.00	78	2792.13	160	40.00	2241	103500	10271.13
13	Reckong-Peo	271	3388.00	142	2070.49	195	39.00	393	52375	5497.49
14	Nahan	691	10513.97	135	4194.34	114	113.50	2073	104125	14821.81
15	Solan	763	10606.58	169	2396.15	386	77.20	1088	117875	13079.93
16	SRFMP Una	0	0.00	0	0.00	0	0.00			0.00
17	SJPNL	38	2596.20	0	0.00	20	4.00			2600.20
	Total:-	11863	128782.69	2856	47754.74	5406	1135.65	20037	1835750	34919.50

As per MHA Gol Norms Loss Rs 349.20

Sr. No.	Name of Zone	Name of Circle	HT Damaged	Amount (In Lakh) Rs. 0.50/kM	LT Damaged	Amount (In Lakh) Rs. 0.50/kM	LT Poles Damaged	Amount (In Lakh) Rs. 0.05/Pole	DTR (In No.)	Amount (In Lakh) Rs. 1.00/DTR	Damage Reported (In Lakh)
1	North	Kangra	339.645	169.823	644.770	322.385	2434	121.700	257	257.000	870.908
2		Dalhousie	177.796	88.898	222.460	111.230	1658	82.900	140	140.000	423.028
3		Una	33.230	16.615	54.930	27.465	257	12.850	47	47.000	103.930
		Sub Total	550.671	275.336	922.160	461.080	4349	217.450	444	444.000	1397.866
4	Central	Mandi	484.870	242.435	704.920	352.460	2933	146.650	91	91.000	832.545
5		Bilaspur	29.000	14.500	74.010	37.005	857	42.850	42	42.000	136.355
6		Kullu	284.430	142.215	419.580	209.790	2658	132.900	136	136.000	620.905
7		Hamirpur	141.325	70.663	261.850	130.925	1008	50.400	57	57.000	308.988
	Sub Total	939.625	469.813	1460.360	730.180	7456	372.800	326	326.000	1898.793	
8	South	Shimla	481.200	240.600	782.690	391.345	1655	82.750	99	99.000	813.695
9		Rohru	381.100	190.550	407.550	203.775	1649	82.450	50	50.000	526.775
10		Rampur	610.800	305.400	837.850	418.925	1465	73.250	41	41.000	838.575
11		Nahan	532.440	266.220	931.910	465.955	2228	111.400	188	188.000	1031.575
12		Solan	671.460	335.730	935.330	467.665	2770	138.500	144	144.000	1085.895
	Sub Total	2677.000	1338.500	3895.330	1947.665	9767	488.350	522	522.000	4296.515	
Grand Total			4167.296	2083.648	6277.850	3138.925	21572	1078.600	1292	1292.000	7593.173

Total Loss as per GOI Norms: Rs 75.93 Crore

Rural Development Department

Annexure-V

Sr.No.	District /Block	Damage of village internal roads		Removal of debris from road/ drainage / sewerage	Damage of internal water supply lines		Damage of street lights Poles		Damage of Panchayat Ghar, community, Anganwadi etc.		Total loss in lakhs
		Length in KM	Loss in lakhs	line(Brief details with cost(In Lakh))	Length in Mtr	Loss in lakhs	Nos	Loss in lakhs	Number of building damaged	Loss in lakhs	
1	2	3	4	5	6	7	8	9	10	11	12
1	Shimla	1660.80	1245.60	96	1	2	6	1	40	100.00	1444.60
2	Sirmour	799.62	599.72	925.10	6	9	19	4	57	142.50	1680.32
3	Chamba	3055.20	2291.40	506.55	513.10	50.13	0	0	200	500.00	3348.08
4	Mandi	2930.35	2197.76	450.10	1035	100	50	7.75	167	417.50	3173.11
5	Kangra	629.53	472.15	17	0.5	1	4	0.25	98	245.00	735.40
6	Kullu	2315.65	1736.74	1245	15662	209	7	1.3	135	337.50	3529.54
7	Solan	2774.90	2081.18	100.30	3041.50	29.70	26	21.3	77	192.50	2424.98
8	Una	565	423.75	35	0	0	0	0	18	145.00	503.75
9	Bilaspur	105.95	79.46	15	0	0	0	0	8	20.00	114.46
10	Hamirpur	368.56	276.42	45	40	3.5	46	8.22	144	360.00	693.14
11	Kinnaur	595.45	446.59	2383	30810	410	0	0	82	205.00	3444.59
12	Lahaul & Spiti	105	78.75	65	0	0	0	0	8	20.00	163.75
	Total		11929.51	5883.05		814.33		43.82	1034		21255.71

Total Claim of Panchayati Raj Institution as per the MHA Norms - Rs 212.56 Crore

Annexure-VI

Urban Development Department:

Damage report as per norms of SDMA occurred due to heavy rainfall w.e.f. 06-07-2023 to 13.09.2023															
Sr. No.	Name of District	Name of ULBs	Damage of internal roads		Removal of debris from road/ drainage/ Sewerage lines. (in Lakh)	Bridges (In nos.) with cost	Electric Poles	Electric Wires	Damage of internal water supply lines.		Damage of street lights Poles.		Damage of Community halls, Anganwadi, Yuva Kendra etc.		Total Loss (In Lakh)
			In (nos.) with cost	(In mtrs) with cost			Length (In mtrs)	Loss (in Lakh)	nos.	Loss (in Lakh)	Name of building	Loss (in Lakh)			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Distt. Bilaspur															
1	Municipal Council, Bilaspur		1100	1.375	1	0	0	0	0	0	0	0	0	0	2.375
2	Municipal Council, Shri. Naina Devi Ji		400	0.5	10	0	0	0	0	0	0	0	0	0	10.5
3	Municipal Council, Ghumarwin		1400	1.75	95	0	0	0	0	0	0	0	0	0	96.75
4	Nagar Panchayat, Talai		7650	9.5625	0	0	0	0	0	0	14	1.8	0	0	11.3625
Distt. Chamba															
1	Municipal Council, Chamba		23000	28.75	14	0	0	0	0	0	43	7	0	0	49.75
2	Municipal Council, Dalhousie		2700	3.375	66	0	0	0	0	0	0	0	0	0	69.375
3	Nagar Panchayat, Chowari		1850	2.3125	0	0	0	0	0	0	17	2	0	0	4.3125
Distt. Hamirpur															

1	Municipal Council, Hamirpur	1200	1.5	10	0	0	0	0	0	200	3	0	0	14.5
2	Municipal Council, Sujanpur-Tihra	18751	23.43875	0	0	0	0	0	0	0	0	0	0	23.43875
3	Nagar Panchayat, Nadaun	16025	20.03125	0	0	0	0	0	0	0	0	0	0	20.03125
4	Nagar Panchayat, Bhatta	0	0	0	0	0	0	0	0	0	0	community centre	2.5	2.5
Distt. Kangra														
1	Municipal Corporaton Dharamshala	1623	2.02875	0	0	0	0	0	0	0	0	0	0	2.02875
2	Municipal Corporation Palampur	3500	4.375	18	0	0	0	1200	18	40	8	0	0	48.375
3	Municipal Council, Kangra	616	0.77	5	0	5 (Rs. 0.25 Lakh)	1700 (Rs. 0.85 Lakh)	0	0	42	1.26	0	0	8.13
4	Municipal Council, Nurpur	3350	4.1875	35	0	3 (Rs. 0.15 Lakh)	400 (Rs. 0.2 Lakh)	0	0	25	5	Community Hall	2.5	47.0375
5	Municipal Council, Nagrota-Bagwan	1430	1.7875	13	0	5 (Rs. 0.025 Lakh)	0	0	0	326	5.86	0	0	20.6725
6	Municipal Council, Dehra	400	0.5	0	0	0	0	0	0	0	0	0	0	0.5
7	Municipal Council, Jawalamukhi	2200	2.75	0	1 (Rs. 0.75 Lakh)	0	0	0	0	0	0	0	0	3.5
8	Nagar Panchayat, Baijnath-Paprola	4800	6	6	0	0	3000 (Rs. 1.5 Lakh)	0	0	18	2.1	0	0	15.6

9	Nagar Panchayat, Jawali	800	1	0	0	0	200 (Rs. 0.1 Lakh)	0	0	0	0	0	0	0	1.1
10	Nagar Panchayat, Shahpur	800	1	10	1 (Rs. 0.75 Lakh)	0	0	0	0	0	0	0	Community Hall	2.5	14.25
Disaster occurred due to heavy rainfall w.e.f. 06-07-2023 to 13.09.2023															
Sr. No.	Name of District	Name of ULBs	Damage of internal roads		Removal of debris from road/ drainage/ Sewerage lines. (in Lakh)	Bridges (In nos.) with cost	Electric Poles	Electric Wires	Damage of internal water supply lines.		Damage of street lights Poles.		Damage of Community halls, Anganwadi, Yuva Kendra etc.		Total Loss (In Lakh)
			Length (In mtrs)	Loss (in Lakh)			In (nos.) with cost	(In mtrs) with cost	Length (In mtrs)	Loss (in Lakh)	nos.	Loss (in Lakh)	Name of building	Loss (in Lakh)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Distt. Kullu															
1	Municipal Council,Kullu	1700	2.125	50	0	0	5000 (Rs. 2.5 Lakh)	0	0	180	0.63	Community Hall	2.5	57.755	
2	Municipal Council,Manali	500	0.625	110	0	0	0	20	1.5	15	50	0	0	162.125	
3	Nagar Panchayat, Bhuntar	2000	2.5	100	0	15 (Rs. 0.75 Lakh)	200 (Rs. 0.1 Lakh)	500	100	50	50	0	0	253.35	
4	Nagar Panchayat,Banjar	3000	3.75	84	3 (Rs. 2.25 Lakh)	4 (Rs. 0.2 Lakh)	570 (Rs. 0.28 Lakh)	0	0	8	10	Chungi Bhawan	2.5	102.98	
5	Nagar Panchayat, Anni	500	0.625	88.6	0	5 (Rs. 0.025 Lakh)	400 (Rs. 0.2 Lakh)	0	0	5	2	0	0	91.45	

6	Nagar Panchayat, Nirmand	900	1.125	0	0	8 (Rs. 0.4 Lakh)	3000 (Rs. 1.5 Lakh)	0	0	40	1.28	0	0	4.305
Distt. Mandi														
1	Municipal Corporation, Mandi	5500	6.875	2825	2 (Rs.1.5Lakh)	64 (Rs. 3.2 Lakh)	1250 (Rs. 0.625 Lakh)	0	0	64	32.25	0	0	2869.45
2	Municipal Council, Sundernagar	2400	3	55	3 (Rs. 2.25 Lakh)	20 (Rs. 1 Lakh)	6000 (Rs. 3.0 Lakh)	400	3	200	2	0	0	69.25
3	Municipal Council,Sarkaghat	500	0.625	20	1 (Rs. 0.75 Lakh)	10 (Rs. 0.5 lakh)	1000 (Rs. 0.5 Lakh)	0	0	60	3.7	0	0	26.075
4	Municipal Council, Jogindernagar	2300	2.875	13.4	0	5 (Rs. 0.25 Lakh)	5000 (Rs. 2.5 Lakh)	0	0	15	2.5	0	0	21.525
5	Municipal Council, Nerchowk	5000	6.25	5	2 (Rs.1.5Lakh)	7 (Rs. 0.35 Lakh)	2000 (Rs. 1 Lakh)	500	5	60	9	0	0	28.1
6	Nagar Panchayat,Rewalsar	100	0.125	2	0	0	0	0	0	3	0.5	Ambedkar Bhawan	2.5	5.125
7	Nagar Panchayat,Karsog	1100	1.375	3	0	1 Rs. 0.05 Lakh)	0	400	3	0	0	0	0	7.425
Distt. Shimla														
1	Municipal Corporation Shimla	2000	2.5	332	0	0	0	0	0	0	0	0	0	334.5
2	Municipal Council, Rohroo	460	0.575	10	0	0	0	0	0	0	0	0	0	10.575
3	Municipal Council, Rampur	6075	7.59375	180	0	75 (Rs. 3.75 lakh)	2900 (Rs. 1.45 Lakh)	0	0	175	4	0	7	203.79375
4	Municipal Council,Theog	52	0.065	3	0	0	0	0	0	0	0	0	0	3.065

5	Nagar Panchayat, Narkanda	60	0.075	60	0	2 (Rs. 0.1 Lakh)	100 (Rs. 0.05 Lakh)	150	0.4	11	2.5	rehen basera	2.5	65.625
6	Nagar Panchayat, Chopal	2984	3.73	16	0	4 (Rs. 0.2 Lakh)	900 (Rs. 0.45 Lakh)	500	1.5	15	1.5	0	0	23.38
7	Nagar Panchayat, Kotkhai	550	0.6875	0	0	4 (Rs. 0.2 Lakh)	650 (Rs. 0.32 Lakh)	0	0	0	5	rehen basera	2.5	8.7075
8	Nagar Panchayat, Jubbal	360	0.45	0.7	0	0	0	0	0	15	0.53	0	0	1.68
9	Nagar Panchayat, Sunni	4500	5.625	50	0	15 (Rs. 0.75 Lakh)	2000 (Rs. 1.00 Lakh)	0	0	25	5	0	0	62.375
10	Nagar Panchayat, Chirgaon	500	0.625	0	0	0	0	0	0	0	0	0	0	0.625
11	Nagar Panchayat, Nerwa	3002	3.7525	258.1	0	9 (Rs. 0.45 Lakh)	800 (Rs. 0.4 Lakh)	0	0	14	2.5	0	0	265.2025
Distt. Sirmour														
1	Municipal Council, Nahan	528.2	0.66025	0	0	0	0	0	0	0	0	0	0	0.66025
2	Municipal Council, Paonta	1000	1.25	0	0	0	0	0	0	500	10	0	0	11.25
3	Nagar Panchayat, Rajgarh	4352	5.44	0.25	1 (Rs. 0.75 Lakh)	7 (Rs. 0.35 Lakh)	250 (Rs. 0.125 Lakh)	0	0	60	1.2	0	0	8.115
Disaster occurred due to heavy rainfall w.e.f. 06-07-2023 to 13.09.2023														
Sr. No.	Name of District	Name of ULBs	Damage of internal roads	Removal of debris from road/ drainage/ Sewerage	Bridges (In nos.) with cost	Electric Poles	Electric Wires	Damage of internal water supply lines.	Damage of street lights Poles.	Damage of Community halls, Anganwadi, Yuva Kendra etc.	Total Loss (In Lakh)			

			Length (In mtrs)	Loss (in Lakh)	lines. (in Lakh)		In (nos.) with cost	(In mtrs) with cost	Length (In mtrs)	Loss (in Lakh)	nos.	Loss (in Lakh)	Name of building	Loss (in Lakh)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Disst. Solan															
1	Municipal Corporation, Solan		1100	1.375	3.5	0	7 (Rs. 0.35 Lakh)	1000 (Rs. 0.50 Lakh)	250	2	20	0.68	0	0	8.405
2	Municipal Council, Nalagarh		4945	6.18125	20	0	0	0	0	0	9	0.6	0	0	26.78125
3	Municipal Council, Parwanoo		8000	10	96.75	0	5 (Rs. 0.025 Lakh)	1250 (Rs. 0.625 Lakh)	0	0	15	15	0	0	122.4
4	Municipal Council, Baddi		5800	7.25	25	0	0	0	0	0	20	0.9	0	0	33.15
5	Nagar Panchayat, Arki		500	0.625	35	0	0	0	0	0	0	0	Rehan Basera	2.5	38.125
6	Nagar Panchayat Kandaghat		500	0.625	15.25	0	0	0	0	0	2	10	0	0	25.875
Distt. Una															
1	Municipal Council, Una		3000	3.75	2.5	6 (Rs. 4.5 Lakh)	0	0	0	0	0	0	0	0	10.75
2	Municipal Council, Santokhgarh		2000	2.5	0	0	0	0	0	0	50	3	0	0	5.5
3	Municipal Council, Mehatpur Basdehra		940	1.175	0	0	0	0	0	0	0	0	0	0	1.175
4	Nagar Panchayat, Daulatpur Chowk		820	1.025	0	0	0	0	0	0	0	0	0	0	1.025
5	Nagar Panchayat, Gagret		600	0.75	0	0	0	0	0	0	0	0	0	0	0.75

6	Nagar Panchayat, Tahliwal	50	0.0625	0	0	0	0	0	0	5	2.5	0	0	2.5625
7	Nagar Panchayat, Amb	985	1.23125	5	0	0	0	0	0	0	0	0	0	6.23125
Grand Total		174758.2	218.48	4752.05 Lakh	20 (Rs. 15 Lakh)	280 (Rs. 14 Lakh)	39570 (Rs. 19.78 Lakh)	3920	134.4	2361	263.79	9	22.5	5439.96

Total Loss as per MHA Norms: Rs. 54.40 Crore

HIMUDA:

District-wise losses occurred in various colonies of H.P. Housing & Urban Development Authority.											
Sr. No.	Name of District	Damages of village/colony internal roads		Removal of debris from road/ drainage / sewerage lines (Brief Detail with cost. (Rs.in lacs.))	Damage of internal water supply lines.		Damage of street lights.		Damage of Panchayat Ghar, Community, Aganwari etc.		Total loss in lacs.
		Length in KMs.	Loss in Lacs		Length in Mtrs.	Loss in Lacs.	Nos.	Loss in lacs.	Number of building damaged	Loss in lacs.	
1	2	3	4	5	6	7	8	9	10	11	12
1	Mandi	1.405	238.67	143.20	240.00	11.40	-	-	-	-	393.27
2.	Kullu	0.607	65.43	50.40	-	-	-	-	-	-	115.83
3.	Hamirpur	0.405	48.57	30.07	52.00	3.10	-	-	-	-	81.74
4.	Bilaspur	0.301	44.75	26.85	20.000	2.05	-	-	-	-	73.65
5.	Kangra	1.800	28.18	17.30	-	-	-	-	-	-	45.48
6.	Chamba	0.125	6.67	5.30	-	-	-	-	-	-	11.97
7.	Shimla	1.282	384.24	230.55	-	-	-	-	-	-	614.79
8.	Sirmour	-	-	137.00	-	-	-	-	-	-	137.00
9.	Solan	-	-	344.09	-	-	-	-	-	-	344.09
10	Una	0.305	14.00	4.96	-	-	-	-	-	-	18.96
GRAND TOTAL:-											1336.73

Losses and damages as per MHA norms: 13.36 Crore

Annexure-VIII**Health Department:**

S.No	District	Block	Health Centre Type	No. of Health Center	Value of Lacs
1	BILASPUR	Swarghat	PHC	1	200000
2	BILASPUR	Swarghat	CHC	1	200000
3	BILASPUR	Jhandutta	CHC	1	200000
4	BILASPUR	Ghumarwin-I	CHC	1	200000
5	BILASPUR	Ghumarwin-I	PHC	2	400000
6	BILASPUR	Swarghat	PHC	1	200000
7	BILASPUR	Bilaspur	PHC	8	1600000
8	BILASPUR	Bilaspur	PHC	29	5800000
9	BILASPUR	Ghumarwin-I	CHC	1	200000
10	BILASPUR	Swarghat	CHC	1	200000
11	BILASPUR	Swarghat	PHC	6	1200000
12	BILASPUR	Bilaspur	PHC	3	600000
13	BILASPUR	Bilaspur	PHC	5	1000000
14	BILASPUR	Jhandutta	PHC	1	200000
15	BILASPUR	Bilaspur	CHC	2	400000
16	CHAMBA	Chamba	PHC	1	100000
17	CHAMBA	Bhattiyat	PHC	1	200000
18	CHAMBA	Bharmour	CHC	1	200000
19	CHAMBA	Chamba	PHC	1	200000
20	CHAMBA	Tissa	PHC	1	200000
21	KANGRA	N/Bagwan	PHC	1	200000
22	KANGRA	N/Bagwan	PHC	2	400000
23	KANGRA	N/Bagwan	PHC	6	1200000
24	KANGRA	Kangra	PHC	2	400000
25	KANGRA	Nurpur	PHC	1	200000
26	KANGRA	Indora	PHC	1	200000
27	KANGRA	Pragpur	PHC	1	200000
28	KANGRA	Kangra	PHC	1	200000
29	KANGRA	Dehra	CHC	2	400000
30	KANGRA	Dehra	CHC	2	400000
31	KANGRA	Fatehpur	PHC	1	200000
32	KANGRA	Rait	PHC	2	400000
33	KANGRA	Bhawarna	PHC	1	200000
34	KANGRA	Bajjnath	PHC	9	1800000
35	KANGRA	Bajjnath	PHC	1	200000
36	KANGRA	Kangra	PHC	1	200000
37	KANGRA	Bhawarna	CHC	1	200000
38	KANGRA	Pragpur	CHC	1	200000

39	KANGRA	Pragpur	PHC	2	400000
40	KANGRA	Bhawarna	CHC	2	400000
41	KANGRA	Fatehpur	PHC	1	200000
42	KANGRA	Fatehpur	PHC	2	400000
43	KANGRA	Rait	PHC	2	400000
44	KANGRA	Bhawarna	PHC	1	200000
45	KANGRA	Indora	PHC	1	200000
46	KANGRA	Indora	PHC	2	400000
47	KANGRA	N/Surian	CHC	2	400000
48	KANGRA	N/Surian	CHC	6	1200000
49	KANGRA	Bhawarna	PHC	1	200000
50	KANGRA	Rait	PHC	1	200000
51	KANGRA	Rait	PHC	3	600000
52	KANGRA	Rait	PHC	1	200000
53	KANGRA	Rait	PHC	5	1000000
54	KANGRA	Rait	PHC	2	400000
55	KULLU	Banjar	PHC	4	800000
56	KULLU	Nager-Katrain	PHC	1	200000
57	KULLU	Nager-Katrain	PHC	6	1200000
58	KULLU	Kullu	CHC	1	200000
59	KULLU	Kullu	PHC	4	800000
60	KULLU	Ani	CHC	2	400000
61	KULLU	Kullu	PHC	3	600000
62	KULLU	Nirmand	CHC	1	200000
63	KULLU	Ani	PHC	9	1800000
64	KULLU	Nirmand	CHC	1	200000
65	KULLU	Nirmand	PHC	8	1600000
66	KULLU	Banjar	CHC	2	400000
67	KULLU	Banjar	PHC	4	800000
68	KULLU	Kullu	PHC	4	800000
69	MANDI	Balh	PHC	5	1000000
70	MANDI	Dharampur	PHC	2	400000
71	MANDI	Karsog	PHC	1	200000
72	MANDI	Karsog	PHC	3	600000
73	MANDI	Balh	CHC	1	200000
74	MANDI	Balh	PHC	3	600000
75	MANDI	Gohar	PHC	1	200000
76	MANDI	Seraj	PHC	3	600000
77	MANDI	Balh	PHC	1	200000
78	MANDI	Dharampur	PHC	1	200000
79	MANDI	Karsog	PHC	1	200000
80	MANDI	Balh	CHC	1	200000

81	MANDI	Sundernagar	PHC	2	400000
82	MANDI	Drang	PHC	1	200000
83	MANDI	Karsog	PHC	1	200000
84	MANDI	Karsog	PHC	1	200000
85	MANDI	Balh	PHC	1	200000
86	MANDI	Balh	PHC	2	400000
87	MANDI	Balh	PHC	1	200000
88	MANDI	Chauntra	CHC	1	200000
89	MANDI	Balichowki	PHC	1	200000
90	MANDI	Seraj	PHC	1	200000
91	MANDI	Balh	PHC	3	600000
92	MANDI	Sundernagar	CHC	1	200000
93	MANDI	Gopalpur	PHC	1	200000
94	MANDI	Balh	PHC	1	200000
95	MANDI	Balh	PHC	1	200000
96	MANDI	Drang	PHC	1	200000
97	MANDI	Sundernagar	PHC	1	200000
98	MANDI	Chauntra	PHC	3	600000
99	MANDI	Balh	PHC	2	400000
100	MANDI	Balh	PHC	2	400000
101	MANDI	Gohar	PHC	1	200000
102	MANDI	Gohar	PHC	5	1000000
103	MANDI	Sundernagar	PHC	5	1000000
104	MANDI	Balh	PHC	1	200000
105	MANDI	Balh	PHC	1	200000
106	MANDI	Sundernagar	PHC	1	200000
107	MANDI	Balh	PHC	5	1000000
108	MANDI	Balh	CHC	5	1000000
109	MANDI	Chauntra	CHC	1	200000
110	SHIMLA	Jubbal	PHC	1	200000
111	SHIMLA	Rohroo	PHC	1	200000
112	SHIMLA	Nankhari	PHC	1	200000
113	SHIMLA	Jubbal	CHC	1	200000
114	SHIMLA	Chopal	PHC	1	200000
115	SHIMLA	Jubbal	PHC	1	200000
116	SHIMLA	Rampur	CHC	1	200000
117	SHIMLA	Rohroo	PHC	1	200000
118	SHIMLA	Rampur	PHC	1	200000
119	SHIMLA	Rampur	CHC	1	200000
120	SHIMLA	Rohroo	PHC	1	200000
121	SHIMLA	Mashobra	PHC	1	200000
122	SHIMLA	Rampur	PHC	1	200000

123	SHIMLA	Rohroo	PHC	1	200000
124	SHIMLA	Rampur	PHC	1	200000
125	SHIMLA	Jubbal	CHC	1	200000
126	SHIMLA	Rohroo	CHC	1	200000
127	SHIMLA	Rohroo	PHC	1	200000
128	SHIMLA	Rohroo	PHC	1	200000
129	SHIMLA	Mashobra	CHC	1	200000
130	SHIMLA	Rampur	PHC	1	200000
131	SHIMLA	Rohroo	PHC	1	200000
132	SHIMLA	Mashobra	PHC	1	200000
133	SHIMLA	Jubbal	PHC	1	200000
134	SHIMLA	Jubbal	CHC	1	200000
135	SHIMLA	Rampur	PHC	1	200000
136	SHIMLA	Rampur	PHC	1	200000
137	SHIMLA	Rampur	PHC	1	200000
138	SHIMLA	Rampur	PHC	1	200000
139	SHIMLA	Chopal	PHC	1	200000
140	SHIMLA	Chopal	CHC	1	200000
141	SHIMLA	Mashobra	PHC	1	200000
142	SHIMLA	Jubbal	CHC	1	200000
143	SHIMLA	Jubbal	PHC	1	200000
144	SHIMLA	Chopal	PHC	1	200000
145	SHIMLA	Jubbal	CHC	1	200000
146	SHIMLA	Rampur	PHC	1	200000
147	SHIMLA	Jubbal	PHC	1	200000
148	SHIMLA	Rampur	PHC	1	200000
149	SHIMLA	Rampur	CHC	1	200000
150	SHIMLA	Rampur	PHC	1	200000
151	SHIMLA	Rohroo	CHC	1	200000
152	SHIMLA	Rampur	PHC	1	200000
153	SIRMAUR	Rajgarh	CHC	1	200000
154	SIRMAUR	Sangrah	PHC	1	200000
155	SIRMAUR	Nahan	PHC	1	200000
156	SIRMAUR	Nahan	PHC	1	200000
157	SIRMAUR	Nahan	PHC	1	200000
158	SIRMAUR	Ponta	CHC	1	200000
159	SIRMAUR	Ponta	PHC	5	1000000
160	SIRMAUR	Sangrah	PHC	4	800000
161	SIRMAUR	Shillai	PHC	4	800000
162	SIRMAUR	Nahan	PHC	8	1600000
163	SIRMAUR	Ponta	PHC	4	800000
164	SIRMAUR	Rajgarh	CHC	1	200000

165	SIRMAUR	Ponta	PHC	1	200000
166	SIRMAUR	Rajgarh	PHC	2	400000
167	SIRMAUR	Rajgarh	PHC	1	200000
168	SIRMAUR	Sangrah	PHC	1	200000
169	SIRMAUR	Pachchad	PHC	3	600000
170	SIRMAUR	Ponta	PHC	1	200000
171	SIRMAUR	Nahan	PHC	1	200000
172	SIRMAUR	Pachchad	CHC	1	200000
173	SIRMAUR	Ponta	CHC	1	200000
174	SIRMAUR	Nahan	PHC	1	200000
175	SIRMAUR	Pachchad	CHC	1	200000
176	SIRMAUR	Shillai	CHC	1	200000
177	SIRMAUR	Sangrah	PHC	8	1600000
178	SIRMAUR	Sangrah	CHC	1	200000
179	SIRMAUR	Sangrah	PHC	1	200000
180	SIRMAUR	Ponta	PHC	2	400000
181	SIRMAUR	Nahan	PHC	1	200000
182	SIRMAUR	Nahan	PHC	1	200000
183	SIRMAUR	Ponta	CHC	1	200000
184	SIRMAUR	Nahan	CHC	1	200000
185	SIRMAUR	Ponta	CHC	1	200000
186	SIRMAUR	Rajgarh	CHC	1	200000
187	SIRMAUR	Pachchad	CHC	1	200000
188	SIRMAUR	Sangrah	CHC	1	200000
189	SIRMAUR	Nahan	PHC	2	400000
190	SIRMAUR	Nahan	PHC	1	200000
191	SIRMAUR	Pachchad	PHC	1	200000
192	SIRMAUR	Shillai	CHC	1	200000
193	SIRMAUR	Ponta	CHC	1	200000
194	SOLAN	Dharampur	PHC	13	2600000
195	SOLAN	kunihar	CHC	2	400000
196	SOLAN	Kandaghat	CHC	3	600000
197	SOLAN	Solan	PHC	1	200000
198	SOLAN	Nalagarh	CHC	2	400000
199	SOLAN	Dharampur	PHC	8	1600000
200	SOLAN	Dharampur	CHC	1	200000
201	SOLAN	Solan	PHC	2	400000
202	SOLAN	Nalagarh	PHC	3	600000
203	SOLAN	Nalagarh	CHC	4	800000
204	UNA	Amb	CHC	1	200000
205	UNA	Bangana	CHC	3	600000
206	UNA	Garget	CHC	4	800000

207	UNA	Amb	CHC	2	400000
208	UNA	Bangana	PHC	6	1200000
209	UNA	Garget	PHC	14	2800000
210	UNA	Garget	CHC	3	600000
211	UNA	Bangana	PHC	12	2400000
212	UNA	Amb	PHC	1	200000
213	UNA	Garget	PHC	2	400000
214	UNA	Bangana	PHC	2	400000
215	UNA	Amb	PHC	11	2200000
216	UNA	Amb	PHC	1	200000
217	UNA	Garget	PHC	8	1600000
218	UNA	Garget	PHC	1	200000
				378	97600000

As per GOI norms losses to Schools: Rs. 9.76 Crore

**Education Department:
Higher Education:**

S.No	District	Block	Institute Type
1	MANDI	Sadar	Govt. Sr. Sec. School
2	UNA	Bangana	Govt. Sr. Sec. School
3	UNA	Haroli	Govt. Sr. Sec. School
4	MANDI	Sadar	Govt. Sr. Sec. School
5	MANDI	Karsog	Govt. Sr. Sec. School
6	MANDI	Dharampur	Govt. Sr. Sec. School
7	MANDI	Sunder Nagar	Govt. Sr. Sec. School
8	MANDI	Sunder Nagar	Govt. Sr. Sec. School
9	MANDI	Seraj	Govt. Sr. Sec. School
10	CHAMBA	Chamba	Govt. High School
11	CHAMBA	Mehla	Govt. Sr. Sec. School
12	CHAMBA	Mehla	Govt. High School
13	CHAMBA	Salooni	Govt. High School
14	KULLU	Kullu-II	Govt. High School
15	KULLU	Nager-Katrain	Govt. High School
16	KULLU	Kullu-II	Govt. Sr. Sec. School
17	KULLU	Kullu-II	Govt. High School
18	KULLU	Kullu-II	Govt. Sr. Sec. School
19	KULLU	Nager-Katrain	Govt. High School
20	KULLU	Nirmand	Govt. Sr. Sec. School
21	KULLU	Ani	Govt. Sr. Sec. School
22	KULLU	Kullu	Govt. Sr. Sec. School
23	KULLU	Banjar	Govt. Sr. Sec. School
24	KULLU	Kullu-II	Govt. High School
25	KULLU	Kullu	Govt. Sr. Sec. School
26	KULLU	Nirmand	Govt. Sr. Sec. School
27	MANDI	Seraj	Govt. Sr. Sec. School
28	KULLU	Bhunter	Govt. Sr. Sec. School
29	KULLU	Kullu	Govt. Sr. Sec. School
30	KULLU	Ani	Govt. High School
31	KULLU	Banjar	Govt. Sr. Sec. School
32	KULLU	Bhunter	Govt. Sr. Sec. School
33	KULLU	Banjar	Govt. Sr. Sec. School
34	KULLU	Nager-Katrain	Govt. High School
35	KULLU	Kullu-II	Govt. High School
36	KULLU	Kullu-II	Govt. High School
37	KULLU	Ani	Govt. Sr. Sec. School
38	KULLU	Kullu	Govt. Sr. Sec. School
39	KULLU	Kullu	Govt. Sr. Sec. School

40	KULLU	Ani	Govt. Sr. Sec. School
41	KULLU	Kullu-II	Govt. High School
42	KULLU	Ani	Govt. Sr. Sec. School
43	KULLU	Kullu	Govt. Sr. Sec. School
44	KULLU	Kullu-II	Govt. Sr. Sec. School
45	KULLU	Kullu	Govt. High School
46	KULLU	Banjar	Govt. Sr. Sec. School
47	KULLU	Ani	Govt. High School
48	KULLU	Banjar	Govt. High School
49	KULLU	Kullu-II	Govt. Sr. Sec. School
50	KULLU	Banjar	Govt. Sr. Sec. School
51	KULLU	Kullu-II	Govt. Sr. Sec. School
52	KULLU	Kullu-II	Govt. High School
53	KULLU	Kullu-II	Govt. High School
54	KULLU	Nager-Katrain	Govt. Sr. Sec. School
55	KULLU	Ani	Govt. Sr. Sec. School
56	KULLU	Kullu	Govt. Sr. Sec. School
57	KULLU	Kullu	Govt. High School
58	KULLU	Nirmand	Govt. High School
59	KULLU	Banjar	Govt. High School
60	KULLU	Banjar	Govt. High School
61	KULLU	Banjar	Govt. Sr. Sec. School
62	KULLU	Banjar	Govt. Sr. Sec. School
63	MANDI	Karsog	Govt. High School
64	CHAMBA	Chamba	Govt. Sr. Sec. School
65	CHAMBA	Mehla	Govt. High School
66	CHAMBA	Tissa	Govt. Sr. Sec. School
67	KULLU	Banjar	Govt. High School
68	CHAMBA	Chamba	Govt. High School
69	CHAMBA	Chamba	Govt. Sr. Sec. School
70	CHAMBA	Mehla	Govt. Sr. Sec. School
71	UNA	Bangana	Govt. High School
72	UNA	Haroli	Govt. Sr. Sec. School
73	Solan	Dharampur	Govt. Sr. Sec. School
74	CHAMBA	Tissa	Govt. Sr. Sec. School
75	CHAMBA	Mehla	Govt. High School
76	CHAMBA	Chowari	Govt. Sr. Sec. School
77	MANDI	Sunder Nagar	Govt. Sr. Sec. School
78	CHAMBA	Shiunta	Govt. Sr. Sec. School
79	MANDI	Sunder Nagar	Govt. High School
80	KULLU	Nirmand	Govt. Sr. Sec. School
81	CHAMBA	Chamba	Govt. Sr. Sec. School

82	KULLU	Bhunter	Govt. Sr. Sec. School
83	KULLU	Banjar	Govt. Sr. Sec. School
84	CHAMBA	Bharmour	Govt. Sr. Sec. School
85	CHAMBA	Bharmour	Govt. High School
86	CHAMBA	Mehla	Govt. Sr. Sec. School
87	KULLU	Ani	Govt. Sr. Sec. School
88	KULLU	Ani	Govt. High School
89	CHAMBA	Banikhet	Govt. Sr. Sec. School
90	CHAMBA	Salooni	Govt. Sr. Sec. School
91	CHAMBA	Chowari	Govt. Sr. Sec. School
92	MANDI	Dharampur	Govt. Sr. Sec. School
93	MANDI	Gohar	Govt. High School
94	SOLAN	kunihar	Govt. Sr. Sec. School
95	SOLAN	Solan	Govt. High School
96	SOLAN	Solan	Govt. Sr. Sec. School
97	MANDI	Seraj	Govt. Sr. Sec. School
98	CHAMBA	Tissa	Govt. Sr. Sec. School
99	MANDI	Drang	Govt. Sr. Sec. School
100	SOLAN	Dharampur	Govt. Sr. Sec. School
101	CHAMBA	Chowari	Govt. Sr. Sec. School
102	CHAMBA	Banikhet	Govt. Sr. Sec. School
103	MANDI	Balichowki	Govt. Sr. Sec. School
104	MANDI	Sunder Nagar	Govt. Sr. Sec. School
105	MANDI	Balichowki	Govt. Sr. Sec. School
106	SOLAN	Nalagarh	Govt. Sr. Sec. School
107	SOLAN	Dharampur	Govt. Sr. Sec. School
108	SOLAN	Nalagarh	Govt. Sr. Sec. School
109	SOLAN	Nalagarh	Govt. Sr. Sec. School
110	SOLAN	Nalagarh	Govt. Sr. Sec. School
111	SOLAN	Kandaghat	Govt. Sr. Sec. School
112	SOLAN	Kandaghat	Govt. Sr. Sec. School
113	SOLAN	Kandaghat	Govt. Sr. Sec. School
114	SOLAN	Kandaghat	Govt. High School
115	CHAMBA	Bhattiyat	Govt. High School
116	MANDI	Dharampur	Govt. Sr. Sec. School
117	MANDI	Sunder Nagar	Govt. Sr. Sec. School
118	MANDI	Balh	Govt. High School
119	MANDI	Sunder Nagar	Govt. Sr. Sec. School
120	MANDI	Gopalpur	Govt. Sr. Sec. School
121	MANDI	Balh	Govt. Sr. Sec. School
122	MANDI	Balichowki	Govt. Sr. Sec. School
123	MANDI	Balh	Govt. Sr. Sec. School

124	MANDI	Sadar	Govt. Sr. Sec. School
125	MANDI	Seraj	Govt. Sr. Sec. School
126	MANDI	Balh	Govt. Sr. Sec. School
127	MANDI	Balh	Govt. Sr. Sec. School
128	MANDI	Balh	Govt. Sr. Sec. School
129	MANDI	Sunder Nagar	Govt. High School
130	MANDI	Gopalpur	Govt. Sr. Sec. School
131	MANDI	Sunder Nagar	Govt. High School
132	MANDI	Seraj	Govt. Sr. Sec. School
133	MANDI	Sadar	Govt. High School
134	MANDI	Balh	Govt. High School
135	MANDI	Balh	Govt. Sr. Sec. School
136	SOLAN	Kandaghat	Govt. Sr. Sec. School
137	BILASPUR	Ghumarwin-II	Govt. Sr. Sec. School
138	BILASPUR	Ghumarwin-II	Govt. High School
139	BILASPUR	Bilaspur	Govt. Sr. Sec. School
140	BILASPUR	Ghumarwin-I	Govt. Sr. Sec. School
141	BILASPUR	Bilaspur	Govt. High School
142	BILASPUR	Ghumarwin-II	Govt. Sr. Sec. School
143	BILASPUR	Bilaspur	Govt. High School
144	BILASPUR	Ghumarwin-I	Govt. Sr. Sec. School
145	BILASPUR	Ghumarwin-I	Govt. High School
146	MANDI	Karsog	Govt. Sr. Sec. School
147	MANDI	Gopalpur	Govt. Sr. Sec. School
148	MANDI	Karsog	Govt. Sr. Sec. School
149	MANDI	Seraj	Govt. Sr. Sec. School
150	MANDI	Seraj	Govt. Sr. Sec. School
151	MANDI	Dharampur	Govt. Sr. Sec. School
152	MANDI	Dharampur	Govt. Sr. Sec. School
153	MANDI	Balichowki	Govt. Sr. Sec. School
154	MANDI	Dharampur	Govt. Sr. Sec. School
155	MANDI	Balh	Govt. Sr. Sec. School
156	MANDI	Dharampur	Govt. High School
157	MANDI	Balh	Govt. Sr. Sec. School
158	MANDI	Sadar	Govt. High School
159	MANDI	Seraj	Govt. Sr. Sec. School
160	MANDI	Chauntra	Govt. Sr. Sec. School
161	MANDI	Dharampur	Govt. High School
162	MANDI	Balichowki	Govt. Sr. Sec. School
163	MANDI	Balh	Govt. Sr. Sec. School
164	MANDI	Chauntra	Govt. Sr. Sec. School

Elementry Education:

S.No	District	Block	Institute Type
1	BILASPUR	Bilaspur	Govt. Primary School
2	BILASPUR	Jhandutta	Govt. Primary School
3	BILASPUR	Ghumarwin-I	Govt. Primary School
4	BILASPUR	Jhandutta	Govt. Middle School
5	BILASPUR	Swarghat	Govt. Primary School
6	BILASPUR	Jhandutta	Govt. Middle School
7	BILASPUR	Ghumarwin-I	Govt. Primary School
8	BILASPUR	Bilaspur	Govt. Primary School
9	BILASPUR	Swarghat	Govt. Primary School
10	BILASPUR	Bilaspur	Govt. Primary School
11	BILASPUR	Swarghat	Govt. Primary School
12	BILASPUR	Jhandutta	Govt. Primary School
13	BILASPUR	Jhandutta	Govt. Primary School
14	BILASPUR	Bilaspur	Govt. Primary School
15	BILASPUR	Swarghat	Govt. Primary School
16	BILASPUR	Ghumarwin-II	Govt. Primary School
17	BILASPUR	Bilaspur	Govt. Primary School
18	BILASPUR	Ghumarwin-II	Govt. Primary School
19	BILASPUR	Ghumarwin-I	Govt. Primary School
20	BILASPUR	Jhandutta	Govt. Primary School
21	BILASPUR	Jhandutta	Govt. Middle School
22	KULLU	Kullu-II	Govt. Primary School
23	KULLU	Kullu-II	Govt. Primary School
24	KULLU	Kullu-II	Govt. Primary School
25	KULLU	Kullu-II	Govt. Primary School
26	KULLU	Kullu-II	Govt. Primary School
27	KULLU	Kullu-II	Govt. Primary School
28	KULLU	Nirmand	Govt. Primary School
29	KULLU	Nirmand	Govt. Primary School
30	KULLU	Nirmand	Govt. Primary School
31	KULLU	Nirmand	Govt. Primary School
32	KULLU	Nirmand	Govt. Primary School
33	KULLU	Nirmand	Govt. Primary School
34	KULLU	Nirmand	Govt. Primary School
35	KULLU	Nirmand	Govt. Primary School
36	KULLU	Nirmand	Govt. Primary School
37	KULLU	Nirmand	Govt. Primary School
38	KULLU	Nirmand	Govt. Primary School
39	KULLU	Nirmand	Govt. Primary School
40	KULLU	Nager-Katrain	Govt. Middle School
41	BILASPUR	Jhandutta	Govt. Primary School
42	KULLU	Kullu	Govt. Primary School

43	KULLU	Kullu	Govt. Primary School
44	KULLU	Kullu	Govt. Primary School
45	KULLU	Kullu	Govt. Primary School
46	KULLU	Kullu	Govt. Primary School
47	KULLU	Kullu	Govt. Primary School
48	KULLU	Kullu	Govt. Primary School
49	KULLU	Kullu	Govt. Primary School
50	KULLU	Kullu	Govt. Primary School
51	BILASPUR	Ghumarwin-II	Govt. Primary School
52	BILASPUR	Bilaspur	Govt. Primary School
53	BILASPUR	Swarghat	Govt. Primary School
54	BILASPUR	Swarghat	Govt. Primary School
55	BILASPUR	Swarghat	Govt. Primary School
56	BILASPUR	Swarghat	Govt. Middle School
57	BILASPUR	Jhandutta	Govt. Primary School
58	BILASPUR	Jhandutta	Govt. Primary School
59	BILASPUR	Jhandutta	Govt. Primary School
60	BILASPUR	Jhandutta	Govt. Primary School
61	BILASPUR	Bilaspur	Govt. Primary School
62	BILASPUR	Ghumarwin-II	Govt. Primary School
63	BILASPUR	Ghumarwin-II	Govt. Primary School
64	BILASPUR	Ghumarwin-I	Govt. Primary School
65	BILASPUR	Ghumarwin-I	Govt. Primary School
66	BILASPUR	Ghumarwin-I	Govt. Primary School
67	BILASPUR	Ghumarwin-II	Govt. Primary School
68	BILASPUR	Ghumarwin-I	Govt. Middle School
69	BILASPUR	Bilaspur	Govt. Primary School
70	BILASPUR	Ghumarwin-II	Govt. Primary School
71	BILASPUR	Ghumarwin-I	Govt. Primary School
72	BILASPUR	Ghumarwin-I	Govt. Primary School
73	BILASPUR	Ghumarwin-I	Govt. Primary School
74	BILASPUR	Jhandutta	Govt. Primary School
75	BILASPUR	Jhandutta	Govt. Primary School
76	BILASPUR	Jhandutta	Govt. Primary School
77	BILASPUR	Jhandutta	Govt. Primary School
78	BILASPUR	Bilaspur	Govt. Primary School
79	BILASPUR	Bilaspur	Govt. Primary School
80	BILASPUR	Ghumarwin-II	Govt. Primary School
81	BILASPUR	Swarghat	Govt. Primary School
82	BILASPUR	Swarghat	Govt. Primary School
83	BILASPUR	Ghumarwin-II	Govt. Primary School
84	BILASPUR	Ghumarwin-I	Govt. Primary School
85	BILASPUR	Jhandutta	Govt. Primary School
86	BILASPUR	Jhandutta	Govt. Primary School
87	BILASPUR	Bilaspur	Govt. Primary School

88	BILASPUR	Bilaspur	Govt. Primary School
89	BILASPUR	Ghumarwin-I	Govt. Primary School
90	BILASPUR	Ghumarwin-I	Govt. Primary School
91	BILASPUR	Bilaspur	Govt. Primary School
92	BILASPUR	Jhandutta	Govt. Middle School
93	BILASPUR	Bilaspur	Govt. Primary School
94	BILASPUR	Bilaspur	Govt. Primary School
95	BILASPUR	Bilaspur	Govt. Primary School
96	BILASPUR	Ghumarwin-I	Govt. Middle School
97	BILASPUR	Bilaspur	Govt. Middle School
98	BILASPUR	Bilaspur	Govt. Primary School
99	BILASPUR	Bilaspur	Govt. Middle School
100	BILASPUR	Bilaspur	Govt. Primary School

As per GOI norms losses to Schools: Rs. 5.28 Crore

District wise losses reported by the fish farmers of the state during the current Monsoon Season 2023 upto 12.09.2023			
Sr. No.	Name and Address of the Farmers	Type of Loss	Value (Rs in Lakh)
	District Mandi		
1	Sh. Som Raj s/o Sh. Om Prakash VPO Kamand Tehsil Sadar Distt. Mandi HP	Water Supply Channel to the Race Ways Damaged at Several Places, 2 No. Raceways filled with silt resulting in the loss of around 7500 Rainbow Trout Fishes of average weight 250 gm each Carp pond of an area 0.25 hac completely filled with silt causing loss of around 4000 common carp fishes of average weight 350 g	15.000
2	Sh. Santosh Kumar s/o Sh. Chuni Vill. Bethwan PO Bihani Tehsil Chhatri distt. Mandi HP	Water Supply channel Damaged 2 No. Race Ways filled with silt Resulting in loss of 3500 Rainbow fishes of an average weight 300gm	5.000
3	Sh. Manohar Lal s/o Sh. Dhani Ram Vill. Mathyar PO Bagsaid Tehsil Thunag distt. Mandi, H.p.	Water Supply line damaged	1.500
4	Sh. Nagendra Pal s/o Sh. Bhadru Ram Vill. Dari PO Shalla Tehsil Chachyot Distt. Mandi HP	Water Supply Channel choked resulting in death of around 2000 Rainbow Trout fishes of average weight 200 gm	2.000
5	Sh. Netar Singh s/o Sh. Goverdhan Singh Vill. Dahar PO Devdhar Tehsil Gohar Distt. Mandi HP	Mortality of around 2500 Rainbow Trout Fishes of average weight 250gm	2.750
6	Sh. Dolat Ram s/o Sh. Hiru VPO Bandhi Tehsil Aut Distt. Mandi HP	Protection wall Damaged	0.500
		Sub Total:-	26.750
	Solan		
1	Sh. Lalit Sharma S/o Sh. Kishan Dass R/o. 312-A-3 Baddi Distt. Solan, H.P.	6.3 MT Carp Fish live stock @ Rs. 100/- per Kg and 0.20 Ha. @ Rs. 8.40 Lakh per Hactare	7.980
2	Sh. Radha Krishan S/o Sh. Mahant, Village Patta, P.O Sai, Tehsil Baddi, Distt. Solan, H.P.	0.50 MT Carp fish live stock @Rs. 100/- per Kg Rs. 0.50 Lakh and 0.20 Ha pond damage Rs. 0.20 Lakh total loss Rs. 0.70 Lakh	0.700
		Sub Total:-	8.680
	Sirmour		
2	Sh. Jagmohan Negi VPO. Snora Dhamla Teh. Rajgarh Distt. Sirmour, H.P.	1.0 MT Trout Fish live stock	5.500
		Sub Total:-	5.500

	Shimla		
1	Sh Pardeep kumar vill. Kupdi, Teh Rohru Distt Shimla HP	5000 No of 2nd year Trout fish 1.25 MT	6.875
2	Smt Geeta Devi vill. Limbra, Teh Chirgaon Distt Shimla	10000 No of 2nd year Trout fish 2.5 MT	13.750
3	Sh Sant Lal vill. Ghasni Teh. Rohru Distt Shimla, H.P.	5000 No of 2nd year Trout fish 1.25 MT	6.875
4	Sh Sher Singh vill. Hingori Teh Chirgaon Distt Shimla, H.P.	5000 No of 2nd year Trout fish 1.25 MT and 4000 Trout fry	7.000
5	Sh Kuthru Mal vill. Gaonsari Teh Chirgaon Distt Shimla	5000 No of 2nd year Trout fish 1.25 MT	6.875
6	Sh Dinesh Chauhan vill. Jakhar Teh Rohru Distt Shimla, H.P.	10000 No Trout fish fry	0.400
7	Smt. Tara Devi, Vill. Dhara, P.O Bachunch, Teh. Rohru, Distt. Shimla, H.P.	10000 No Trout fish fingerlings @ Rs 4/- per pices value =40,000/- & 10000 table size Trout Fish weight 3000kg @ Rs. 550/- value = 16,50,000/- (04 No. Raceways, Complete loss of assets Rs. 12,00,000/-)	28.900
8	Smt. Krishna Devi, Vill Bhamnoli, Teh. Rohru, Distt. Shimla, H.P.	5000 No Trout fish fingerlings @ Rs 4/- per pices value =20,000/- and 5000 table size Trout Fish weight 1500kg @ Rs. 550/- value = 8,25,000/- (02 No. Raceways, Complete loss of assets Rs. 6,00,000/-)	14.450
		Sub Total:-	85.125
	Kullu		
1	Sh. Vishal R/o Jagat Sukh, Teh. Manali, Distt. Kullu, H.P.	03 No Raceways, 18000 No. fingerlings	11.500
2	Sh. Tot Ram R/o Patlikuhal, Teh. Manali, Distt. Kullu, H.P.	09 No Raceways, 01 Trout Hatchery, Fry/ fingerlings/ Saleable live stock/ Brooder Stock 8.00MT	75.000
3	Smt. Sarla Negi R/o Dawara, Distt. Kullu, H.P.	06 No Raceways, 01 Trout Hatchery, Saleable live stock 0.9MT	5.200
4	Sh. Dault Ram R/o Pahnalla, Distt. Kullu, H.P.	05 No Raceways, 01 Trout Hatchery, Fry/ fingerlings/ live stock/ Brooder Stock 1.8MT	9.900
5	Sh. Shakti Singh R/o Dohranalla, Distt. Kullu, H.P.	03 No. Raceways, Saleable live stock/ advanced fingerlings 1.00MT	5.500
6	Smt. Savita Bhanglia R/o NaguJaurh, Distt. Kullu, H.P.	03 No. Raceways of Hatchery, Saleable live stock 1.4MT and Entire equipment with live stock	7.700
7	Smt. Sukh Ram R/o Jana, Distt. Kullu, H.P.	03 No. Raceways of Hatchery, Saleable live stock 1.20MT and Entire equipment with live stock	6.600
8	Smt. Dola Ram R/o Shirad, Distt. Kullu, H.P.	02 No. Raceways, Saleable live stock 1.00MT	5.500
9	Sh. Kushal Gupta R/o Haripur, Distt. Kullu, H.P.	03 No. Raceways, Saleable live stock 1.0MT and Entire live stock	30.000
10	Smt. Mamta Verma R/o Naggar, Distt. Kullu, H.P.	RAS building, Saleable live stock 1.0MT and Entire live stock	40.000

11	Sh. Vadana Sood R/o Naggar, Distt. Kullu, H.P.	05 No. Raceways, Saleable live stock 3.5 MT and Entire live stock	19.250
12	Smt. Bhuma Devi R/o Naggar, Distt. Kullu, H.P.	RAS building, Saleable live stock 1.0MT and Entire live stock	2.750
13	Sh. Lal Chand R/o Shirad, Distt. Kullu, H.P.	05 No. Raceways, Saleable live stock 3.5 MT and complete loss of all Assets	20.000
		Sub Total:-	238.900
	Una		
1	Sh. Vijay Kumar Dogra S/o Late Sh. Ishwar Dukhiya Ram VPO Basal, Teh. & Distt. Una, H.P.	150-200 fingerlings @ average weight 250-300 gm (weight 45-50 Kg) Pond was filled with silt and needs repair.	0.100
2	Sh. Sanjeev Kapoor S/o Sh. Shanti Prakash VPO Fatehpur, Teh. Mehatpur, Distt. Una, H.P.	5000 fingerlings @ average weight 6gm, (weight 30 Kg) @ Rs. 2/- per pice	0.100
3	Sh. Suringer Singh S/o Sh. Natha Singh, Ward No. 05 Mehatpur, Distt. Una, H.P.	01 lakh fingerling @ average weight 10 gm, (weight 1000 Kg) @ Rs. 5/- per piece Dykas of two No. ponds were damaged due to flood and need repair.	5.000
		Sub Total:-	5.200
	Hamirpur		
1	Sh. Bali Ram S/o Sh. Mangat Ram resident of Village Manjru, P.O Loharli, Tehsil Dhatwal, Distt. Hamirpur, H.P.	1000 Sqm (0.10 Ha) fish rearing pond (Kuchcha)	0.150
2	Sh. Somdutt S/o Sh. Purshottam Dass, Vill. Lahar, P.O. Galode, Tehsil Galode, Distt. Hamirpur, H.P.	Rs. 7,13,600/- (3520 Kg fish @ Rs. 180/-= 6,33,600/- and infrastructure value of Rs. 80,000/-)	7.136
3	Smt. Meera Devi w/o Sh. Somdutt, Vill. Lahar, P.O. Galode, Tehsil Galode, Distt. Hamirpur, H.P.	Fish Pond infrastructure Rs. 80,000/-	0.800
		Sub Total:-	8.086
		Grand Total:-	378.241

चालू वित्त वर्ष 2023 के दौरान प्रकृतिक आपदा के कारण विभागीय सम्पत्ति को हुई क्षति की सूचना दिनांक 12.09.2023 तक

क्र०	जिला का नाम	विभागीय सम्पत्ति जहाँ क्षति हुई है का व्योरा	क्षति राशि लाखों में		कुल राशि (लाखों में)	टिप्पणी
			मत्स्य धन क्षति	विभागीय ढांचे की क्षति		
1	कुल्लू	ट्राऊट मत्स्य फार्म, पतलीकुहल जिला कुल्लू में भारी वर्षा के कारण मत्स्यधन/सम्पत्ति को हुए नुकसान बारे।	25.27793	80.00	105.27793	
	बटाहर	ट्राऊट मत्स्य फार्म, बटाहर जिला कुल्लू में भारी वर्षा के कारण मत्स्यधन/सम्पत्ति को हुए नुकसान बारे।	6.52358	15.00	21.52358	
	हामणी	ट्राऊट मत्स्य फार्म, हामणी जिला कुल्लू में भारी वर्षा के कारण मत्स्यधन/सम्पत्ति को हुए नुकसान बारे।	17.1905	80.00	97.1905	
		योग:-	48.99201	175.00	223.99201	
2	सोलन	कार्यालय भवन व स्टोर	0	300.00	300.00	
		टाइर्प-।।। का 01 न० आवासीय भवन				
		टाइर्प-।। का 03 न० आवासीय भवन				
		टाइर्प-। का 01 न० आवासीय भवन				
		शौचालय				
		योग:-	0	300.0	300.0	
3	चम्बा	18 न० मत्स्य तालाबों में गाद भर गई है।	20.00	70.00	90.00	
		निकास नाली क्षतिग्रस्त हो चुकी है।	0.00	80.00	80.00	
		कार्यालय भवन तथा समानों की क्षति	0.00	35.00	35.00	
		मत्स्य आहार संयन्त्र की क्षति।	0.00	40.00	40.00	
		एंग्रिं हट की क्षति जिसमें गाद से खराब हो गये हैं।	0.00	35.00	35.00	
		स्टोर रूम की क्षति।	0.00	40.00	40.00	
		एक्वेरियम हाऊस की क्षति।	0.00	10.00	10.00	
		एक्वेरियम हाऊस की सुरक्षा दीवार की क्षति।	0.00	50.00	50.00	
		एक्वेरियम हाऊस में बने रसोई घर व सनान गृह की क्षति	0.00	30.00	30.00	
		ट्राऊट फार्म थल्ला में ट्राऊट रेसवेज तथा जलापूर्ति की क्षति।	0.00	60.00	60.00	
		एक्वाशौप धस गई है तथा निकास नली भी क्षति ग्रस्त हो गई है।	0.00	20.00	20.00	
		योग:-	20.00	470.00	490.00	

4	किन्नौर	ट्राऊट फार्म सांगला की जलापूर्ति की क्षति।	7.97	150.00	157.97		
		योग:-	7.97	150.00	157.97		
5	ऊना	कार्यालय उपकरणों कम्प्यूटर आदि की क्षति	स्थिति साफ न होने के कारण आकलन नहीं किया जा सका।				
		योग:					
6	मण्डी						
	जंजैहली	बड़ी जलापूर्ति लाईन की क्षति	0.00	8.00	8.00		
		छोटी जलापूर्ति लाईन की क्षति	0.00	2.00	2.00		
		जलापूर्ति पाईप लाईन की क्षति	0.00	10.00	10.00		
		कार्प हैचरी की क्षति	0.00	0.20	0.20		
		निकास नली क्षतिग्रस्त हो चुकी है।	0.00	10.00	10.00		
	12 से 15 अगस्त, 2023	ब्रूडर तालाब तथा रेयरिंग तालाब	0.55	36.00	36.55		
		सम्पर्क सड़क	0.00	45.00	45.00		
		कार्यालय भवन, चौकिदार हट तथा सार्वजनिक शौचालय	0.00	12.00	12.00		
		पम्प हाऊस, सुरक्षा दीवार और सीमा दीवार	0.00	8.00	8.00		
		ओवर हैड टैंक, रेजिंग मेन, रेन वाटर हार्वेस्टिंग टैंक	0.00	4.00	4.00		
		जलापूर्ति पाईप लाईन की क्षति	0.00	45.00	45.00		
		योग:-	0.55	180.20	180.75		
	बरोट	ट्राऊट मत्स्य धन की क्षति	6.01	58.00	64.01		
		योग:-	6.01	58.00	64.01		
	अल्सू	जलापूर्ति पाईप लाईन की क्षति	0.80877	12.26974	13.07851		
		योग:-	0.81	12.27	13.08		
7	बिलासपुर	कार्प फार्म दिवली, बिलासपुर जिला बिलासपुर में भारी वर्षा के कारण मत्स्यधन को हुए नुकसान बारे।	0.0175	1.4825	1.5000		
	10 से 12 अगस्त, 2023	कार्प फार्म दिवली, बिलासपुर में नर्सरी तालाब, रेयरिंग तालाब तथा ब्रूडर तालाबों तथा सजावटी मछली तालाबों में गाद, सिल्ट जमा होने तथा तालाब संख्या 8,9 और 10 क्षतिग्रस्त होने के कारण मत्स्य धन की क्षति।	0.0316	74.50	74.5316		
		योग:-	0.0491	75.9825	76.0316		
8	हमीरपुर	आवासीय कलौनी हमीरपुर के गेट तथा सीमा दीवार की क्षति।	0.00	0.60	0.6000		
		आवासीय कलौनी हमीरपुर में मिट्टी व गाद के कारण निकास नली की क्षति।	0.00	0.40	0.4000		
			0.00	1.00	1.0000		
		कुल योग:-	84.37587	1422.45225	1506.82812		

Annexure-B

Community Asset Details:

Sr. No.	Name of the District	Name of the Block	Name of Panchayat	Community Asset Name
1.	BILASPUR	Sadar Bilaspur	Bilaspur	Anganwari Centre
2.	BILASPUR	Swarghat	MC Shri Naina Devi Ji	Community Bhawan
3.	CHAMBA	Salooni	Diyur	Anganwari Centre
4.	CHAMBA	Salooni	Daand	Anganwari Centre
5.	CHAMBA	Salooni	Lanot	Anganwari Centre
6.	CHAMBA	Salooni	Dighei	Anganwari Centre
7.	CHAMBA	Salooni	Dighi	Anganwari Centre
8.	CHAMBA	Salooni	Dighei	Anganwari Centre
9.	CHAMBA	Chowari	Manola	Anganwari Centre
10.	CHAMBA	Chowari	Bathari	Anganwari Centre
11.	CHAMBA	Chowari	Parisyara	Anganwari Centre
12.	CHAMBA	Chowari	Jarei	Anganwari Centre
13.	CHAMBA	Chowari	Kathet	Anganwari Centre
14.	CHAMBA	Chowari	Samot	Anganwari Centre
15.	CHAMBA	Chowari	Kamla	Anganwari Centre
16.	CHAMBA	Chowari	Sadal	Anganwari Centre
17.	CHAMBA	Chowari	Samleu	Anganwari Centre
18.	CHAMBA	Chowari	Samleu	Anganwari Centre
19.	CHAMBA	Chamba	MC Chamba	Anganwari Centre
20.	CHAMBA	Tissa	Gadfari	Anganwari Centre
21.	CHAMBA	Tissa	Kuhar	Anganwari Centre
22.	CHAMBA	Tissa	Charda	Anganwari Centre
23.	CHAMBA	Mehla	Barei	Anganwari Centre
24.	CHAMBA	Mehla	Baktpur	Anganwari Centre
25.	CHAMBA	Mehla	Rajera	Anganwari Centre
26.	CHAMBA	Mehla	Kuned	Anganwari Centre
27.	CHAMBA	Mehla	Kupahda	Anganwari Centre
28.	HAMIRPUR	Bijhari	Dhangota	Anganwari Centre
29.	KANGRA	Dharamshala	Chetru	Panchayat Ghar
30.	KANGRA	Panchrukhi	Badehar	Community Bhawan
31.	KANGRA	sullah	bhranta	Yuvak Mandal Bhawan
32.	KANGRA	Panchrukhi	Gadiyara	Community Bhawan
33.	KANGRA	SULLAH	bari	Community Bhawan
34.	KANGRA	Nagrota Surian	Bassa	Panchayat Ghar
35.	KANGRA	BAIJNATH	Narghor Chobu	Panchayat Ghar
36.	KANGRA	Bhawarna	Badsar	Yuvak Mandal Bhawan
37.	KANGRA	BAIJNATH	NARGHOR CHOBU	Community Bhawan
38.	KANGRA	Bajjnath	Ghorpith	Panchayat Ghar
39.	KANGRA	Baroh	Khart khas	Community Bhawan
40.	KINNAUR	Pooh	Nako	Panchayat Ghar
41.	KINNAUR	Nichar	Kraba	Mahila Mandal Bhawan
42.	KINNAUR	Nichar	Kraba	Panchayat Ghar
43.	KINNAUR	Nichar	Katgaon	Panchayat Ghar

44.	KULLU	Aani	Bakhnao	Anganwari Centre
45.	KULLU	Banjar	Chakurtha	Anganwari Centre
46.	KULLU	Banjar	Chinoun	Anganwari Centre
47.	KULLU	Banjar	Tung	Anganwari Centre
48.	KULLU	Banjar	Dehuri Dhar	Anganwari Centre
49.	KULLU	Banjar	Suchain	Anganwari Centre
50.	KULLU	Banjar	Banogi	Anganwari Centre
51.	KULLU	Banjar	Jamd	Anganwari Centre
52.	KULLU	Naggarr	Gahar	Anganwari Centre
53.	KULLU	Naggarr	Soyal	Anganwari Centre
54.	KULLU	Kullu	Jeshtha	Anganwari Centre
55.	KULLU	Kullu	Parli	Anganwari Centre
56.	KULLU	Kullu	Majhata	Anganwari Centre
57.	KULLU	Kullu	Jestha	Anganwari Centre
58.	KULLU	Kullu	Shat	Anganwari Centre
59.	KULLU	Kullu	Ratocha	Anganwari Centre
60.	KULLU	Kullu	Balh	Community Bhawan
61.	KULLU	Kullu	Balh	Community Bhawan
62.	KULLU	Kullu	Buai	Community Bhawan
63.	KULLU	Kullu	Chatani	Panchayat Ghar
64.	KULLU	Kullu	Dughilag	Community Bhawan
65.	KULLU	Kullu	Chatani	Panchayat Ghar
66.	KULLU	Kullu	Shilirajgiri	Panchayat Ghar
67.	LAHAUL & SPITI	Lahaul	Tindi , Salgaram , Madgram, Udaipur, Triloknath, Kishori, Shakoli, Tingret, Chimret, Thiroat, Mooring, Nalda, Jundhla, Jahalman, Goharma, Jobrang, Shansha, Ranika, Warpa, Darcha, Kolong, Yurnath, Keylong, Barbog, Mooling, Gondhla, Sissu, Koksar.	Community Bhawan
68.	MANDI	Dharampur	Sari	Anganwari Centre
69.	MANDI	Balh	Dahnu	Anganwari Centre
70.	MANDI	Drang	Nohli	Anganwari Centre
71.	MANDI	Gopalpur	Rissa	Panchayat Ghar
72.	MANDI	Balichowki	Aut	Panchayat Ghar
73.	MANDI	Balichowki	Aut	Panchayat Ghar
74.	MANDI	Balichowki	Khani	Panchayat Ghar
75.	MANDI	Balichowki	Aut	Panchayat Ghar
76.	MANDI	Balichowki	batwadi	Panchayat Ghar
77.	MANDI	Balichowki	Devdhar	Panchayat Ghar
78.	MANDI	Balichowki	Bhatwadi	Community Bhawan
79.	MANDI	Balichowki	kanda	Mahila Mandal Bhawan

80.	MANDI	bALICHOWKI	KHOLANAL	Community Bhawan
81.	MANDI	Dhanotu	Chowk	Panchayat Ghar
82.	MANDI	Churag	CHurag	Panchayat Ghar
83.	MANDI	Churag	Kaneri Mahog	Panchayat Ghar
84.	MANDI	Churag	Jachh	Panchayat Ghar
85.	MANDI	Churag	kahnu	Panchayat Ghar
86.	MANDI	Churag	Sui kufri dhar	Panchayat Ghar
87.	MANDI	Churag	Balindi	Panchayat Ghar
88.	MANDI	Churag	Kalashan	Panchayat Ghar
89.	MANDI	Churag	Tattapani	Panchayat Ghar
90.	MANDI	Churag	Meharan	Anganwari Centre
91.	MANDI	Churag	shakra	Anganwari Centre
92.	MANDI	Churag	shakra	Panchayat Ghar
93.	MANDI	Karsog	Balidhar	Panchayat Ghar
94.	MANDI	Gohar	Anah	Mahila Mandal Bhawan
95.	MANDI	Mandi Sadar	Gharan	Panchayat Ghar
96.	MANDI	Balh	Sardhwar	Panchayat Ghar
97.	MANDI	Sadar Mandi	Navlay	Anganwari Centre
98.	MANDI	Gopalpur	Darpa	Panchayat Ghar
99.	MANDI	Karsog	Thachtharmi	Panchayat Ghar
100.	MANDI	Gopalpur	Jhanjhel	Panchayat Ghar
101.	MANDI	Balichowki	Jhiri	Veterinary Centre
102.	MANDI	Balichowki	Jhiri	Anganwari Centre
103.	SHIMLA	Jubbal	Bholad	Anganwari Centre
104.	SHIMLA	KotKhai	Ratnadi	Anganwari Centre
105.	SHIMLA	Jubbal	Solang	Anganwari Centre
106.	SHIMLA	Jubbal	Solang	Anganwari Centre
107.	SHIMLA	Jubbal	Kuddu	Anganwari Centre
108.	SHIMLA	Jubbal	Pandranu	Anganwari Centre
109.	SHIMLA	Jubbal	Kathasu	Anganwari Centre
110.	SHIMLA	Jubbal	Mandhol	Anganwari Centre
111.	SHIMLA	Jubbal	Jharag	Mahila Mandal Bhawan
112.	SHIMLA	Mashobra	Pujary	Mahila Mandal Bhawan
113.	SHIMLA	Mashobra	Pujarli	Panchayat Ghar
114.	SHIMLA	KOTKHAI	RATNARI	Anganwari Centre
115.	SHIMLA	Rampur	Kuhal	Panchayat Ghar
116.	SHIMLA	Chopal	Sarain	Community Bhawan
117.	SHIMLA	Rampur Bsr	Racholi	Mahila Mandal Bhawan
118.	SHIMLA	Chopal	Sarain	Veterinary Centre
119.	SHIMLA	Rampur	Kuhal	Panchayat Ghar
120.	SHIMLA	Kupvi	Juru-shilal	Panchayat Ghar
121.	SHIMLA	Kupvi	Kulag	Mahila Mandal Bhawan
122.	SHIMLA	Nankhari	Karangla	Community Bhawan
123.	SHIMLA	Mashobara	Mehli	Community Bhawan
124.	SHIMLA	Kupvi	Kulag	Panchayat Ghar
125.	SHIMLA	Jubbal	GP Parali	Community Bhawan

126.	SHIMLA	Chhohara	Saribasa	Panchayat Ghar
127.	SHIMLA	Rampur	Taklech	Panchayat Ghar
128.	SHIMLA	Chopal	Halau	Panchayat Ghar
129.	SHIMLA	Kupvi	Kulag	Anganwari Centre
130.	SHIMLA	Rampur	Taklech	Panchayat Ghar
131.	SHIMLA	Rampur	MC Rampur	Community Bhawan
132.	SHIMLA	Rampur	Shingla	Yuvak Mandal Bhawan
133.	SHIMLA	Rampur	MC Rampur	Community Bhawan
134.	SHIMLA	Chopal	PAWAHAN	Panchayat Ghar
135.	SHIMLA	Kupvi	Noura-Boura	Community Bhawan
136.	SHIMLA	Chopal	Bagahar chauki	Panchayat Ghar
137.	SHIMLA	chopal	bagahar chauki	Mahila Mandal Bhawan
138.	SHIMLA	Chopal	Halau	Panchayat Ghar
139.	SHIMLA	Kupvi	Noura-Boura	Panchayat Ghar
140.	SHIMLA	Kupvi	Malat	Panchayat Ghar
141.	SHIMLA	Chopal	Pujarli	Panchayat Ghar
142.	SHIMLA	Chopal	Bharanu	Community Bhawan
143.	SHIMLA	Nankhari	Kharahan	Panchayat Ghar
144.	SHIMLA	Chopal	Garah	Panchayat Ghar
145.	SHIMLA	Nankhari	Kungalbalti	Panchayat Ghar
146.	SHIMLA	Kupvi	Bandal kaflah	Panchayat Ghar
147.	SHIMLA	Kupvi	Bhaloo	Community Bhawan
148.	SHIMLA	Kupvi	Bhaloo	Community Bhawan
149.	SHIMLA	Nankhari	Kharahan	Mahila Mandal Bhawan
150.	SHIMLA	Chopal	Pujarli	Panchayat Ghar
151.	SHIMLA	Chopal	Nanahar	Panchayat Ghar
152.	SHIMLA	Kupvi	Bhaloo	Mahila Mandal Bhawan
153.	SHIMLA	Nankhari	Nankhari	Panchayat Ghar
154.	SHIMLA	Chopal	Pawahan	Panchayat Ghar
155.	SHIMLA	Nankhari	Badog	Panchayat Ghar
156.	SHIMLA	Kupvi	Bawat	Veterinary Centre
157.	SHIMLA	Chopal	Pujarli	Community Bhawan
158.	SHIMLA	Kupvi	Bhaloo	Yuvak Mandal Bhawan
159.	SHIMLA	Nankhari	Kungalbalti	Panchayat Ghar
160.	SHIMLA	Chopal	Nanahar	Veterinary Centre
161.	SHIMLA	Chopal	Pujarli	Yuvak Mandal Bhawan
162.	SHIMLA	Chopal	Bharanu	Community Bhawan
163.	SHIMLA	Kupvi	Jubbli	Panchayat Ghar
164.	SHIMLA	Chopal	Paudiya	Yuvak Mandal Bhawan
165.	SHIMLA	Kupvi	Noura-Boura	Community Bhawan
166.	SHIMLA	Kupvi	Noura-Boura	Community Bhawan
167.	SHIMLA	Chopal	Paudiya	Mahila Mandal Bhawan
168.	SHIMLA	Chopal	Bharanu	Veterinary Centre

169.	SHIMLA	Kupvi	Noura-Boura	Mahila Mandal Bhawan
170.	SHIMLA	Chopal	Bharanu	Mahila Mandal Bhawan
171.	SHIMLA	Kupvi	Dharchandna	Community Bhawan
172.	SHIMLA	Chopal	Mashroh	Panchayat Ghar
173.	SHIMLA	Kupvi	Dharchandna	Mahila Mandal Bhawan
174.	SHIMLA	Chopal	Kiran	Anganwari Centre
175.	SHIMLA	KUPVI	GP Dhotali	Panchayat Ghar
176.	SHIMLA	Choupal	Kiran	Mahila Mandal Bhawan
177.	SHIMLA	Kupvi	GP Dhotali	Anganwari Centre
178.	SHIMLA	Chopal	Kiran	Anganwari Centre
179.	SHIMLA	Kupvi	Kanda banah	Community Bhawan
180.	SHIMLA	Chopal	Lalpani	Mahila Mandal Bhawan
181.	SHIMLA	Kupvi	GP Dhotali	Mahila Mandal Bhawan
182.	SHIMLA	Kupvi	GP Dhotali	Community Bhawan
183.	SHIMLA	Kupvi	GP Dhotali	Yuvak Mandal Bhawan
184.	SHIMLA	Chopal	Manu Bhaviya	Anganwari Centre
185.	SHIMLA	Chopal	Chanju chopal	Community Bhawan
186.	SHIMLA	Choupal	Daiya Dochi	Mahila Mandal Bhawan
187.	SHIMLA	Choypal	Daiya Dochi	Mahila Mandal Bhawan
188.	SHIMLA	Chopal	Chainan	Anganwari Centre
189.	SHIMLA	Chopsl	Chaijan	Panchayat Ghar
190.	SHIMLA	Chopal	Chaijan	Veterinary Centre
191.	SHIMLA	Chopal	Chaijan	Mahila Mandal Bhawan
192.	SHIMLA	Chopal	Chaijan	Yuvak Mandal Bhawan
193.	SHIMLA	Chopal	Dhabas	Mahila Mandal Bhawan
194.	SHIMLA	Chopal	Dhabas	Community Bhawan
195.	SHIMLA	Chopal	Mundali	Mahila Mandal Bhawan
196.	SHIMLA	Chopal	Mundali	Community Bhawan
197.	SHIMLA	Chuhara	Kaloti	Mahila Mandal Bhawan
198.	SHIMLA	Chopal	Madhana	Anganwari Centre
199.	SHIMLA	Chopal	Madhana	Community Bhawan
200.	SHIMLA	Chopal	Madhana	Mahila Mandal Bhawan
201.	SHIMLA	Chopal	Madhana	Community Bhawan
202.	SHIMLA	Chopal	Madhana	Veterinary Centre
203.	SHIMLA	Chopal	Jhiknipul	Community Bhawan
204.	SHIMLA	Chopal	Bamta	Community Bhawan

205.	SHIMLA	Chopal	Mundali	Mahila Mandal Bhawan
206.	SHIMLA	Chopal	Khund-Newal	Community Bhawan
207.	SHIMLA	Chopal	Khund Newal	Community Bhawan
208.	SHIMLA	Chopal	Khund-Newal	Community Bhawan
209.	SHIMLA	Chopal	Khund-Newal	Community Bhawan
210.	SHIMLA	Chopal	Khaddar	Panchayat Ghar
211.	SHIMLA	Chopal	Pandrara	Panchayat Ghar
212.	SHIMLA	Rampur	Sarpara	Community Bhawan
213.	SHIMLA	Nankhari	Bagalti	Community Bhawan
214.	SHIMLA	Chopal	Tharoch	Community Bhawan
215.	SHIMLA	Chopal	Kutah	Community Bhawan
216.	SHIMLA	Rampur	Badhal	Panchayat Ghar
217.	SHIMLA	Rampur	Badhal	Mahila Mandal Bhawan
218.	SHIMLA	Chopal	Bohar	Panchayat Ghar
219.	SHIMLA	Chopal	Bohar	Panchayat Ghar
220.	SHIMLA	Chopal	Bohar	Panchayat Ghar
221.	SHIMLA	Rohru	Khangteri	Anganwari Centre
222.	SHIMLA	Chopal	BAGAN	Panchayat Ghar
223.	SHIMLA	CHOPAL	BAGAN	Panchayat Ghar
224.	SHIMLA	CHOPAL	BAGAN	Panchayat Ghar
225.	SHIMLA	Rampur	Sarpara	Community Bhawan
226.	SHIMLA	Totu	Ghandal	Community Bhawan
227.	SHIMLA	Jubbal	Bholar	Panchayat Ghar
228.	SHIMLA	Jubbal	Nakrari	Panchayat Ghar
229.	SHIMLA	Jubbal	Kuddu	Community Bhawan
230.	SHIMLA	Jubbal	Jai Pidi Mata	Panchayat Ghar
231.	SHIMLA	Narkanda	Madhawani	Anganwari Centre
232.	SHIMLA	Narkanda	Madhawani	Community Bhawan
233.	SHIMLA	Narkanda	jarol	Mahila Mandal Bhawan
234.	SHIMLA	Narkanda	DALAN	Panchayat Ghar
235.	SHIMLA	Narkanda	Kumarsain	Anganwari Centre
236.	SHIMLA	Basantpur	Ghariana	Panchayat Ghar
237.	SHIMLA	NARKANDA	KOTGARH	Mahila Mandal Bhawan
238.	SHIMLA	Totu	Chaily	Anganwari Centre
239.	SHIMLA	Jubbal	Jharag	Yuvak Mandal Bhawan
240.	SIRMAUR	Nagar Panchayat Rajgarh	Nagar Panchayat Rajgarh	Community Bhawan
241.	SIRMAUR	Rajgarh	Rajgarh	Veterinary Centre
242.	SIRMAUR	Habban	Habban	Veterinary Centre
243.	SIRMAUR	Pachhad	Bagthan	Veterinary Centre
244.	SIRMAUR	Rajgarh	Habban	Veterinary Centre
245.	SIRMAUR	Rajgarh	Rajgarh	Veterinary Centre
246.	SIRMAUR	Rajgarh	Dahan	Veterinary Centre
247.	SIRMAUR	Pachhad	Dilman	Veterinary Centre
248.	SIRMAUR	Pachhad	Sarahan	Veterinary Centre
249.	SIRMAUR	Nahan	Nehli Dheera	Veterinary Centre

250.	SIRMAUR	Nahan	Panjahal	Veterinary Centre
251.	SIRMAUR	NAHAN	DEVKA PUDLA	Community Bhawan
252.	SIRMAUR	Rajgarh	Bohal Taliya	Anganwari Centre
253.	SIRMAUR	Rajgarh	Dahan	Anganwari Centre
254.	SIRMAUR	Rajgarh	Shalana	Anganwari Centre
255.	SIRMAUR	Rajgarh	LanaBhatta	Anganwari Centre
256.	SIRMAUR	Rajgarh	Kotla Bangi	Anganwari Centre
257.	SIRMAUR	Rajgarh	Kotla bangi	Anganwari Centre
258.	SIRMAUR	Rajgarh	Kotla Bangi	Anganwari Centre
259.	SIRMAUR	Rajgarh	Nerti Bhagot	Anganwari Centre
260.	SIRMAUR	Sangrah	Khod Drabil	Anganwari Centre
261.	SIRMAUR	Sangrah	Chou Bhoger	Anganwari Centre
262.	SIRMAUR	Sangrah	Bhatgad	Anganwari Centre
263.	SIRMAUR	Sangrah	Bhatgad	Anganwari Centre
264.	SIRMAUR	Sangrah	Maina	Anganwari Centre
265.	SIRMAUR	Sangrah	Koti Dhiman	Anganwari Centre
266.	SIRMAUR	Pachhad	Dharoti	Panchayat Ghar
267.	SIRMAUR	Sangrah	Gehal	Panchayat Ghar
268.	SIRMAUR	Paonta sahib	Byas	Panchayat Ghar
269.	SIRMAUR	Paonta Sahib	Byas	Community Bhawan
270.	SIRMAUR	Paonta Sahib	Byas	Community Bhawan
271.	SIRMAUR	Paonta Sahib	Byas	Community Bhawan
272.	SIRMAUR	Paonta Sahib	Kolar	Panchayat Ghar
273.	SIRMAUR	Paonta Sahib	Muglawala kartarpur	Panchayat Ghar
274.	SIRMAUR	Rajgarh	Ludhiyana	Anganwari Centre
275.	SIRMAUR	Rajgarh	Bhattan Bhujond	Anganwari Centre
276.	SIRMAUR	Tilordhar	Kanti Mashwa	Anganwari Centre
277.	SIRMAUR	Tilordhar	Shawga	Anganwari Centre
278.	SIRMAUR	Tilordhar	Mashu	Anganwari Centre
279.	SIRMAUR	Tilordhar	Kanti Mashwa	Anganwari Centre
280.	SIRMAUR	Shillai	Dahar	Panchayat Ghar
281.	SIRMAUR	Tilordhar	Kodga	Anganwari Centre
282.	SIRMAUR	Pachhad	Neri Navan	Anganwari Centre
283.	SIRMAUR	Pachhad	Surla Janot	Anganwari Centre
284.	SIRMAUR	Pachhad	Mehlog Lal Tikkar	Anganwari Centre
285.	SIRMAUR	Pachhad	Bani Bakholi	Anganwari Centre
286.	SIRMAUR	Pachhad	Bagshog	Anganwari Centre
287.	SIRMAUR	Shilai	Bali Koti	Anganwari Centre
288.	SIRMAUR	Shilai	Bandli	Anganwari Centre
289.	SIRMAUR	Shilai	Bakras	Anganwari Centre
290.	SIRMAUR	Shilai	Kyari Gundah	Anganwari Centre
291.	SIRMAUR	Shilai	Bakras	Anganwari Centre
292.	SIRMAUR	Nahan	Barma Papri	Anganwari Centre
293.	SIRMAUR	Nahan	Nehli Dhira	Anganwari Centre
294.	SIRMAUR	Tilordhar	GUDDIMANPUR	Mahila Mandal Bhawan
295.	SIRMAUR	TILORDHAR	SATAUN	Community Bhawan
296.	SIRMAUR	rajgarh	tikker	Mahila Mandal Bhawan
297.	SIRMAUR	rajgarh	ser jagas	Anganwari Centre

298.	SIRMAUR	rajgarh	ser jagas	Anganwari Centre
299.	SIRMAUR	rajgarh	ser jagas	Anganwari Centre
300.	SIRMAUR	rajgarh	neri kotli	Panchayat Ghar
301.	SIRMAUR	rajgarh	kothiya jajar	Mahila Mandal Bhawan
302.	SIRMAUR	rajgarh	kothiya jajar	Anganwari Centre
303.	SIRMAUR	rajgarh	matal bakhog	Mahila Mandal Bhawan
304.	SIRMAUR	rajgarh	koti padhog	Mahila Mandal Bhawan
305.	SIRMAUR	rajgarh	koti padhog	Community Bhawan
306.	SIRMAUR	Rajgarh	Thor Niwadh	Anganwari Centre
307.	SIRMAUR	rajgarh	Thor Niwdh	Veterinary Centre
308.	SIRMAUR	Rajgarh	bhuira	Mahila Mandal Bhawan
309.	SIRMAUR	Rajgarh	ShilANJI	Mahila Mandal Bhawan
310.	SIRMAUR	Rajgarh	ShilANJI	Panchayat Ghar
311.	SIRMAUR	Rajgarh	Bhuira	Yuvak Mandal Bhawan
312.	SIRMAUR	Rajgarh	Chogtaali	Yuvak Mandal Bhawan
313.	SIRMAUR	Rajgarh	Chogtali	Mahila Mandal Bhawan
314.	SIRMAUR	Rajgarh	Chogtali	Anganwari Centre
315.	SIRMAUR	Rajgarh	Dimber	Veterinary Centre
316.	SIRMAUR	Rajgarh	Thor Niwar	Veterinary Centre
317.	SIRMAUR	Sangrah	Shilawara Shivpur	Community Bhawan
318.	SIRMAUR	Sangrah	Khood drabil	Anganwari Centre
319.	SIRMAUR	Sangrah	Chou bhoger	Anganwari Centre
320.	SIRMAUR	Sangrah	Bhatgarh	Anganwari Centre
321.	SIRMAUR	Sangrah	Bhatgarh	Anganwari Centre
322.	SIRMAUR	Sangrah	Maina	Anganwari Centre
323.	SIRMAUR	Sangrah	Ludhiana	Anganwari Centre
324.	SIRMAUR	Sangrah	Koti dhiman	Anganwari Centre
325.	SIRMAUR	Sangrah	Bhattan bhujond	Anganwari Centre
326.	SIRMAUR	Sangrah	Andheri	Anganwari Centre
327.	SIRMAUR	Sangrah	Ludhiana	Panchayat Ghar
328.	SOLAN	Kunihar	Nagar Panchayat Arki	Community Bhawan
329.	SOLAN	Kandaghat	Satdol	Anganwari Centre
330.	SOLAN	Kandaghat	Mamligh	Anganwari Centre
331.	SOLAN	Kandaghat	Mamligh	Anganwari Centre
332.	SOLAN	Solan	Dangari	Anganwari Centre
333.	SOLAN	Dharampur	Parag	Anganwari Centre
334.	SOLAN	Dharampur	Jabli	Anganwari Centre
335.	UNA	Bangana	Chowkimaniar	Veterinary Centre
336.	UNA	Amb	Mandholi	Community Bhawan
337.	UNA	Amb	Bhaira	Community Bhawan
338.	UNA	Amb	Dhandri	Community Bhawan
339.	UNA	Amb	Sidh Chalehar	Community Bhawan
340.	MANDI	Balichowki	Bhatwari	Panchayat Ghar

341.	MANDI	Balichowki	Bhatwari	Community Bhawan
342.	SIRMAUR	Sangrah	Jamu Koti	Panchayat Ghar
343.	SIRMAUR	NAHAN	AMBWALASAINWALA	Panchayat Ghar
344.	UNA	Bangana	Chaukikhas	Veterinary Centre
345.	UNA	Bangana	Chaukikhas	Veterinary Centre
346.	UNA	Bangana	Arlookhas	Community Bhawan
347.	CHAMBA	Salooni	Diyur	Anganwari Centre
348.	CHAMBA	Salooni	Diyur	Anganwari Centre
349.	CHAMBA	Salooni	Daand	Anganwari Centre
350.	CHAMBA	Salooni	Daand	Anganwari Centre
351.	CHAMBA	Salooni	Lanot	Anganwari Centre
352.	CHAMBA	Salooni	Dighei	Anganwari Centre
353.	CHAMBA	Salooni	Dighei	Anganwari Centre
354.	CHAMBA	Chowari	Manola	Anganwari Centre
355.	CHAMBA	Chowari	Bathari	Anganwari Centre
356.	CHAMBA	Chowari	Parisyara	Anganwari Centre
357.	CHAMBA	Chowari	Jarei	Anganwari Centre
358.	CHAMBA	Chowari	Kathet	Anganwari Centre
359.	CHAMBA	Chowari	Samot	Anganwari Centre
360.	CHAMBA	Chowari	Kamla	Anganwari Centre
361.	CHAMBA	Chowari	Banet	Anganwari Centre
362.	CHAMBA	Chowari	Howar	Anganwari Centre
363.	CHAMBA	Chowari	Howar	Anganwari Centre
364.	CHAMBA	Chowari	Sadal	Anganwari Centre
365.	CHAMBA	Chowari	Samleu	Anganwari Centre
366.	CHAMBA	Chowari	Samleu	Anganwari Centre
367.	CHAMBA	Tissa	Gadfari	Anganwari Centre
368.	CHAMBA	Tissa	Kuhal	Anganwari Centre
369.	CHAMBA	Tissa	Charda	Anganwari Centre
370.	CHAMBA	Mehla	Barei	Anganwari Centre
371.	CHAMBA	Mehla	Baktpur	Anganwari Centre
372.	CHAMBA	Mehla	Rajera	Anganwari Centre
373.	CHAMBA	Mehla	Kuned	Anganwari Centre
374.	CHAMBA	Mehla	Kupahda	Anganwari Centre

As per the MHA GOI Norms damage amount **Rs. 93.50 Crore**