



**GOVERNMENT OF HIMACHAL PRADESH
REVENUE DEPARTMENT
(DISASTER MANAGEMENT CELL)**

**MEMORANDUM
OF
DAMAGES
DUE TO HEAVY SNOWFALL/RAINFALL,
SNOW AVALACHE, LANDSLIDE AND FIRE
DURING WINTER SEASON – 2022**

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MEMORANDUM REGARDING DAMAGES DUE TO HEAVY SNOWFALL/RAINFALL, SNOW AVALANCHE AND FIRE, 2022

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 deserts 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.**

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(P)	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)(P)	Density per Sq. Km. (2011(P) Census)
		2001 Census	2011 (P) 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 73 Sub Divisions, 109 Tehsil, 63 Sub-Tehsil, 79 Development Blocks and 3226 Panchayats. The State has very effective structure of PRI's comprising 12 Zila Parishads and 78 Panchayat Samitis. There are also 30 Municipal

Councils and 23 Nagar Panchayats, besides 7 Cantonment Boards and 2 Municipal Corporation 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 Lahaul Spiti 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.

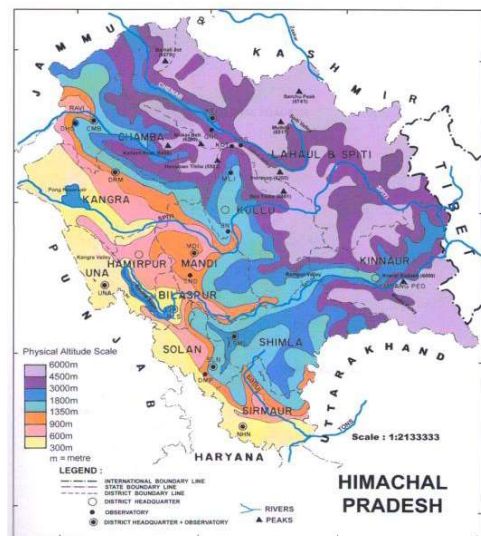


Figure 1.2 Geography of Himachal Pradesh

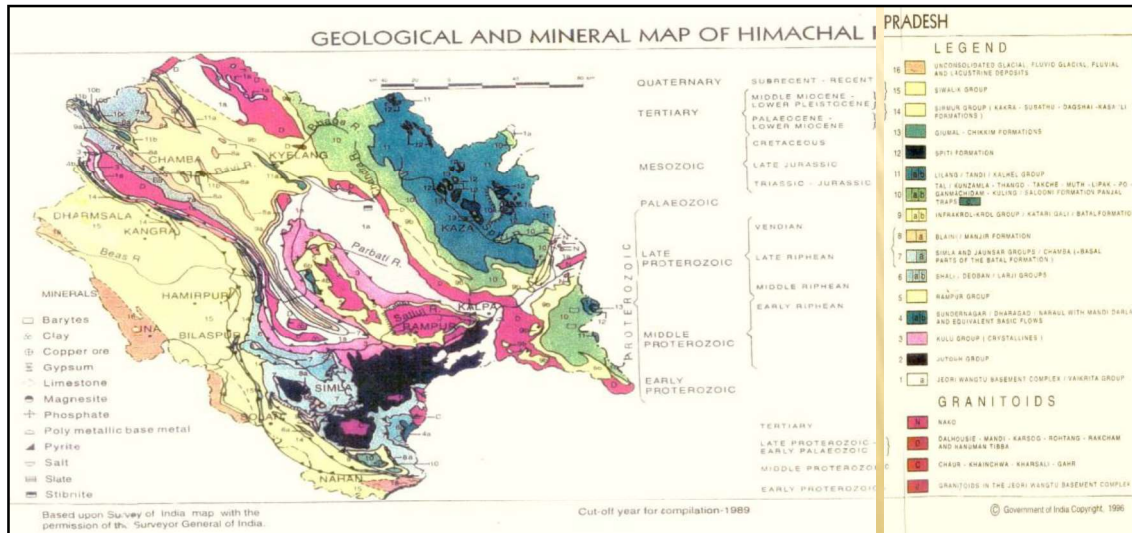


Figure 1.3 Geological and Mineral Map of Himachal Pradesh

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.

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 under forest. Permanent pastures and other grasslands account for about 33.63 percent, 1.25 percent land 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.

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. Figure 1.5 land use in Himachal Pradesh

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 Govind Sagar, 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 86 hospitals, 2084 Sub- centres, 91 CHC's/RH, 576 PHC's, with available bed capacity of 12527. Similarly, there are 33 Ayurvedic hospitals, 1175 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 22.1 per 1000 and 7.2 per 1000 respectively (statistical Year Book of H.P.-2017-18).

Roads and Bridges:

As per 207-18 data, the state has total road length of 37131 Kms in which motor able double lane is 2453 km, single lane is 32940 Km, Jeep able 369 Km and less than Jeep able 1396 Km and there are 1365 bridges. About 18156 villages are connected with roads.

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	2,170,70	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 Stats.

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

Small and Marginal Farmers

Current Disaster

LOSS CAUSED DUE TO HEAVY SNOWFALL/RAINFALL, SNOW AVALANCHE, LANDSLIDE AND FIRE, 2022.

Himachal Pradesh suffered major loss and damage in the winter season due to heavy snowfall, avalanches, landslides, and heavy rains. The State has experienced 6 Spells of Heavy snowfall in the month of January and February causing huge losses to the public & private properties. Based on MHA Relief Norms, the State has assessed losses and damages amounting to Rs 256.81crore. The details of the same areas under:

Extent of damages:

The damages are detailed here under:

- 1. Human lives lost:** During this winter season 194 peoples lost their lives due to landslides, lightening, fire and accident etc. Ex-gratia payment @ Rs.4.00 Lacs per head in this regard has been assessed at Rs. 7.74 Cr. Details of 194 Nos deaths & 365 Nos peoples seriously injured due to various disasters is available is at **Annexure – I**. Total loss on this account has been assessed **Rs. 7.74 Crore**.
- 2. Animals Husbandry :** A total **92** animals died; which includes sheep, goats, cows, horses and buffaloes etc. In the State had different incidents happened with lightening, Landslide etc. Besides 20 Hens had died due to landslide. In this season, the loss has been assessed as **Rs. 0.13 Cr (Appendix-VI)**.
- 3. Structures damaged:** Due to the peculiar Monsoon on various disaster, a number of houses and others assets suffered moderate to severe damages. The details are as under:-
 - Fully damaged Kaccha and Pucca houses - **32**
 - Severely damaged Kaccha & Pucca houses - **97**
 - Cowshed, gharats, shops and labor sheds – **89**
 - Total** - **218**Loss on this account has been assessed as **Rs. 2.09 Cr.**

4. Damage to roads:

During rain and snow in winter season in the State, heavy snow and prolonged rainfall continued almost till the end of February, 2022, the roads in the state got damaged extensively and except for clearance/opening of closed road through mechanical and manual mode, other major repair works could not be attended on priority due to rains. The cross drainage structures and drains got blocked at lots of locations and many of these could not be cleared immediately because of various limitations which resulted in overflowing of water on to the road surface causing extensive damages to the road crust, retaining and breast walls, culverts and other road infrastructure etc. Further, most of the roads run along rivers and their tributaries. The flash floods and cloud bursts in the region further aggravated the damages to the roads especially which run along the rivers, particularly falling in the catchment area of major rivers like Satluj, Beas, Giri, Markanda, Pabbar and Ravi etc. Even at many locations long stretches of roads were washed away or settled requiring immediate intervention and construction of temporary diversions. For flow of traffic.

The Public Works Department took up the restoration works of roads on war footing for which machinery like Dozers and Excavator-cum-Loaders (JCB) were deployed, besides its labour force to clear the blockade.

Directions were issued to all field units to hire private machinery for opening of blockades, where departmental machinery was inadequate.

The staff and officers of the Public Works department worked round the clock to restore the damages and for opening of roads. All the field staff were asked not to avail any kind of leave during monsoon season. The restoration work was daily monitored at Govt. level and by all the senior officers of the department. In fact the active participation of the officers and staff of PWD provided good results this year and the blockades from most of the roads were removed immediately and the roads were not allowed to remain blocked for long period. Immediately after winter season, the department expedited the repair & maintenance activities of the damaged

roads on war footing and made all efforts to complete the restoration process on priority for convenience of general public.

The State Public Works Deptt. assessed the total amount of damages caused by heavy rains and snow as Rs.146.83 Crores (except NH). The State Govt. made available funds amounting to Rs. 39.85 Crores from State Disaster Relief funds, (instead of Rain and Snow damages i.e. Rs.649.94+146.83=796.77) besides advising the PWD field units to take up restoration works by utilizing the normal maintenance funds available with them. Consequently, the department has already spent Rs. 35.50 Crores on restoration of damages caused to the Roads & Bridges, with a result that as on today the PWD has been able to remove slips from most of the roads besides repairing damaged walls and culverts and carrying out heavy patch work on the roads. In addition, the works about to Rs. 106.98 crores are in progress and are being executed for which payments are yet to be made and the pending bills yet to be cleared as and when the additional funds are made available.

(Rs. 146.84 Crore)
(Annexure-II)

5. Damage to Irrigation and water supply schemes:

There had been heavy snow fall/rain fall in various parts of the State during the winter season-2021-2022. Heavy loss to the Government infrastructure as well as to the Jal Shakti Schemes in the State has been reported. The heavy snowfall/rain fall have led to huge/extensive damages to the Water Supply and irrigation schemes of the Department.

Jal Shakti Department is maintaining 9526 Water Supply, and 2669 Irrigation schemes in Rural and Urban areas of the State. During the current winter season a total 3488 schemes (2808 Water supply, 661 Irrigation, 6 Flood Control and 13 Sewerage schemes) were damaged and total loss in terms of money has been estimated as Rs.90.87 Cr.

The Circle wise details of schemes affected/damaged due to heavy snow fall/rains is as under:-

(Rs. In Crore.)

District-wise details of schemes damaged due to heavy rains during current Monsoon-2021			
Sr. No.	District	No. of schemes affected/damaged	Amount
1.	Chamba	371	15.66
2.	Dharamshala	0	0.00
3.	Nurpur	89	4.15
4.	Sunder Nagar	727	15.67
5.	Kullu	182	13.02
6.	Una	92	3.66
7.	Bilaspur	102	3.12
8.	Hamirpur	0	0.00
9.	Reckon Peo	1283	10.01
10.	Rohru	215	7.48
11.	Shimla-9	176	5.60
12.	Solan	74	2.20
13.	Nahan	177	10.30
	Total:-	3488	90.87

Since water supply falls under essential service, first priority has been given to restore Water Supply promptly and all the damaged water supply schemes have been restored temporarily so that people are not put to inconvenience.

In order to repair /restore the damaged Water Supply and irrigation schemes permanently funds amounting to Rs. 90.87 lakhs shall be required for permanent restoration of all damaged schemes.

Total loss has been estimated till date as **Rs. 90.87 Crore.**

(Annexure-III)

6. **Electric Infrastructure:** The total loss has been assessed at **Rs. 9.13 Cr.** On this account, the details are at **Annexure-IV**

Cumulative Losses – Rs. 256.81 Crore

Sr. No.	Sectors	Losses(Rs In Crore)
1.	Human Loss	7.74
2.	Animal Loss	0.13
3.	Structure Loss	2.09
4.	Roads	146.84
5.	Water Supply Scheme	90.87
6.	Electric Infrastructure	9.14
Total		256.81

In view of large scale damages and losses, the allocation of Fund under SDRF for the year 2021-22 is insufficient to meet restoration of damages and losses. For current financial year, allocation of Rs. 363.00 crores has been made to State under SDRF, out of which 50% funds need for Covid-19 pandemic. Besides, 20% and 10% funds are also earmarked for Mitigation Fund and Capacity Building respectively. Actual funds available for relief and restoration works remains 20% which are highly insufficient

keeping in view the extent of damages and losses sustained during Winter Season-2022.

In view of the above, additional funds are needed out of NDRF to carryout necessary relief and restoration work of the damaged infrastructure in the hilly State.

Preparatory measures taken to prevent/reduce losses from disasters during this period:

- Hon'ble Chief Minister, Chief Secretary, Principal Secretary (Rev-DM) and Special Secretary (Rev-DM) monitored the Winter situation on daily basis.
- Winter Preparedness meeting held on 18-11-2021 under the Chairmanship of Chief Secretary, Himachal Pradesh with line departments and Deputy Commissioners.
- The State has released the SDRF funds to mitigate the disasters.
- The DEOCs were monitoring and reporting incidents/losses and damages regularly and the State EOC generated cumulative loss reports on daily basis.
- Control Rooms at SEOC/DEOCs are functioning round the clock.
- Weather forecast & early warning was regularly disseminated to all stakeholders by different means.
- Do's and Don'ts were broadcasted through electronic media about winter preparedness measures.

Appendix-VI

Animal Husbandry (Replacement of animals)

Sr. No.	Name of the 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. 30,000/-/Rs. 3000/- per animal and draught Animals @ Rs 25,000 and Rs. 16,000/- per animal)				Total
		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	
1.	BILASPUR					-	-	-	-					
2.	CHAMBA	7	12			-	-	-	-	2.1	0.36			
3.	HAMIRPUR					-	-	-	-					
4.	KANGRA	2		1	1	-	-	-	-	0.6		0.25	0.16	
5.	KULLU	17				-	-	-	-	5.1				
6.	KINNAUR					-	-	-	-					
7.	LAHAUL & SPITI					-	-	-	-					
8.	MANDI	2		1		-	-	-	-	0.6		0.25		
9.	SHIMLA	1	4			-	-	-	-	0.3	0.12			
10.	SIRMAUR	7		1		-	-	-	-	2.1		0.25		
11.	SOLAN					-	-	-	-					
12.	UNA		36			-	-	-	-		1.08			
	Total	36	52	3	1					10.8	1.56	0.75	0.16	

20 Hens @ 0.001 Lakhs

(Says Rs 0.1327 Crore)

Appendix-VII

Assistance sought for repair/restoration of damaged houses.

Sr .N o	Name of affected district	No. of houses damaged											
		Fully damaged Pucca houses @ Rs.1,01,900 per houses		Fully damaged kutcha houses @ Rs. 1,01,900 per house		Severely/ Partially damaged Pucca houses @ Rs.1,01,900 per houses		Severely/ Partially damaged kutcha houses @ Rs.1,01,900 per house		Cowsheds/ Gharats/ Business Premises@ Rs. 10,000 per Unit		Labor Sheds @ Rs.4100 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							3	3.06	5	0.5		
2.	CHAMBA			7	7.14	2	2.04	51	52.02	40	4.0		
3.	HAMIRPUR			1	1.02	2	2.04	2	2.04	5	0.5		
4.	KANGRA									1	0.1		
5.	KULLU	2	2.04	5	5.1	3	3.06	3	3.06	7	0.7		
6.	KINNAUR							1	1.02				
7.	LAHAUL & SPITI												
8.	MANDI	1	1.02	8	1.02	2	2.04	11	11.22	7	0.7		
9.	SHIMLA	3	3.06	2	2.04	1	1.02	5	5.1	4	0.4	1	0.04
10.	SOLAN	1	1.02					2	2.04	3	0.3		
11.	SIRMOUR			1	1.02	1	1.02	7	7.14	13	1.3		
12.	UNA			1	1.02	0	0	1	1.02			3	0.12
	TOTAL	7	7.14	25	18.36	11	11.22	86	87.72	85	8.5	4	0.16
Grand Total: Rs. 2.096 (or say 2.09 Cr)													

Appendix - XIII

Monthly Statement of expenditure from SDRF/NDRF*Year: 2022

1. Opening balance at the beginning of the Month (as on 08-10-2021)	:Rs. 10.20
2. Releases during the Month, if any, from SDRF	:Rs. 359.92
2.1 Central Share	:Rs 327.20
2.2 State Share	:Rs. 32.72
3. Release during the Month , if any, from NDRF	: 0
4. Interest on investments (as on 31-03-2022)	: Rs. 1.40
5. Total Availability of Funds(Sum of 2 to 4)	: Rs. 361.32
6. Expenditure incurred during the month (from 01-04-2022)	: Rs. 361.32
7. Closing balance at the end of month(5-6)	: Rs. 0

(Rupees 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	100.00 Crore											
(a)	Ex-Gratia Payment to families of deceased persons												
	(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												

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	-											
	(ii) outside the norms	-											
	(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												
	(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												
	(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												
	(ii) outside the norms												
	(iii) Total no. of beneficiaries												
(b)	Air dropping of essential supplies												
	(i) as per SDRF/NDRF norms	-											
	(ii) outside the norms	-											
	(iii) Total no. of beneficiaries	-											
(c)	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													
	(ii) Outside the norms													
	(iii) Total eligible area(Ha.)													
	(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	-												
(C)	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	12.00 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
(C)	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	-											
(c)	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												
(i)	Replacement of milch animals drought animals or animals used for haulage.												
(ii)	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No. of beneficiaries												
(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.)												
	(i) 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
6.	Animal husbandry-Assistance to small and marginal farmers												
(i)	Replacement of milchanimals drought animals or animals used for haulage.												
(ii)	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No. of beneficiaries												
(iii)	Provision of fodder/feed concentrate cattle camps												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
(iv)	Water supply in cattle camps												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
(v)	Additional cost of medicines and vaccine.												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
(vi)	Transport of fodder to cattle outside cattle camps												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
(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.)												
	(iv) 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 30.00 Crore												
(a)	Fully damaged/destroyed houses												
(i)	Pucca house												
	(i) as per SDRF/NDRF norms(Crore)												
	(ii) outside the norms												
	(iii)Number												
(ii)	Kuchha House												
	(i) as per SDRF/NDRF norms(Crore)												
	(ii) outside the norms												
	(iii)Number												
(b)	Severely damaged housed												
(i)	Pucca House												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)Number												
(ii)	Kutcha 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
(c)	Partially damaged housed-both pucca/kuccha (other than huts)where the damage is at least 15 %												
	(i) as per SDRF/NDRF norms(Crore)												
	(ii) outside the norms												
	(iii)Number												
(d)	Damaged/destroyed huts:												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)Number												
(e)	Cattle shed attached with house												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)Number of cattles												
10.	Infrastructure												
	Repair /restoration (of immediate nature) of damaged infrastructure												
(1)	Road & bridges 93.00 Crore												
(a)	Roads & Bridges(Crores)												
	(i) as Per SDRF /NDRF norms												
	(ii) Outside the norms												
	(iii) Cumulative length of roads repaired												
(b)	Drinking water supply works and irrigation 60.20 Crore												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)Total of schemes	3161											
(c)	Irrigation As per Col(B) above.												
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii) Total no. of schemes	1040											
(d)	Power(only limited to immediate restoration of electricity supply in 26.00 Crore												
	(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
(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 panchayat	29.20 Crore											
	(i) as per SDRF/NDRF norms												
	(ii) outside the norms												
	(iii)No of Community assets repaired												
11.	Procurement -												
	Cost of equipment's procured. --	10.92 Crore											
	Gross Total:-	Rs. 361.32											

**(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 WINTER SEASON

Sr.No.	District	Road Accident	Thunderstorm/ Lightening	Landslide	Drowning	Fire	Snake Bite	Electric Shock	Fall From Roof/Building/cliff	Other*	Total Deaths
1	BILASPUR	7	0	2	0	0	0	0	2	1	12
2	CHAMBA	10	0	2	0	0	0	0	7	1	20
3	HAMIRPUR	1	0	0	0	0	0	0	0	0	1
4	KANGRA	0	1	0	0	0	0	0	0	2	3
5	KINNAUR	5	0	0	0	0	0	0	0	0	5
6	KULLU	10	0	1	1	0	0	0	3	1	16
7	L & S	0	0	1	0	0	0	0	0	0	1
8	MANDI	21	0	0	0	2	0	0	11	7	41
9	SHIMLA	22	0	1	0	0	0	1	4	2	30
10	SIRMAUR	15	0	3	1	0	0	0	6	1	26
11	SOLAN	14	0	1	0	0	0	0	0	0	15
12	UNA	8	0	0	2	12	0	0	0	2	24
	Total	113	1	11	4	14	0	1	33	17	194

Other Incident: Suffocation (1 Death at Chamba, 1 Death at Sirmour), Construction (2 Death at Una), Food Poisoning (7 Deaths District Mandi), Hypothermia (2 Deaths District Kangra), (2 Deaths due to tree fallen District Shimla), Slippage (1 Death at Kullu), (1 Deaths due to tree fallen District Bilaspur).

ANNEXURE-II

CIRCLE WISE ABSTRACT OF LOSSES CAUSED BY RAINS & SNOW FOR THE WINTER -2021-22 IN RESPECT OF HPPWD (06-01-2022 to 15-02-2022)

Sr No.	Name of Circle	Total length of roads affected (in kms)	Length of Pucca Roads affected (in kms)			Length of Kacha Roads affected (in kms)			Amount Rs. In Crores					Total amount required (in crores)								
			VR	MDR	SH	VR	MDR	SH	Amount required for repair of Damaged/ washed away bridge (in crores)	Amount required for (OR,PR & B/Walls, (in crores)	Amount required for repair of culverts (in crores)	7	8		9							
		4			5			6					7			8			9			
1	2	3	VR	MDR	SH	VR	MDR	SH	6					7			8			9		
Shimla Zone																						
1	3rd Circle Solan	285.250	145.000	55.000	0	64.220	21.030	0	0.00	2.16	0.15	2.31										
2	4th Circle Shimla	3150.000	1668.500	439.000	0	1042.500	0	0	0.00	21.36	0.00	21.36										
3	11th Circle Rampur	1701.930	799.980	65.500	0	836.450	0	0	0.50	9.70	0.25	10.45										
4	12th Circle Nahan	979.611	634.513	303.325	0	41.773	0	0	0.00	8.21	0.00	8.21										
5	14th Circle Rohru	1216.690	595.590	24.000	0	527.100	70.000	0	0.00	9.29	1.65	10.94										
	Total	7333.481	3843.583	886.825	0	2512.043	91.030	0	0.50	50.72	2.05	53.27										
Mandi Zone																						
6	1st Circle Mandi	1725.580	907.310	255.320	0	451.450	111.500	0	0.20	18.62	1.21	20.03										
7	6th Circle Kullu	1.430	1.150	0.280	0	0	0	0	0.00	8.00	0.10	8.10										
8	Jogindernagar	179.200	111.400	9.600	0	58.200	0.000	0	0.00	3.46	0.94	4.40										
	Total	1906	1019.860	265.200	0	509.650	111.500	0	0.20	30.08	2.25	32.53										
Hamirpur Zone																						
9	8th Circle Hamirpur	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00										
10	10th Circle Bilaspur	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00										
11	15th Circle Una	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00										
	Total	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00										
Kangra Zone																						
12	5th Circle Palampur	182.300	149.300	30.000	0	3.000	0.000	0	0.00	0.95	0.00	0.95										
13	7th Circle Dalhousie	1633.500	885.500	182.000	0	556.000	10.000	0	0.00	54.90	5.18	60.08										
14	9th Circle Nurpur	0.000	0.000	0.000	0	0.000	0.000	0	0.00	0.00	0.00	0.00										
	Total	1815.800	1034.800	212.000	0	559.000	10.000	0	0.00	55.85	5.18	61.03										
	G. Total	11055.491	5898.243	1364.025	0	3580.693	212.530	0	0.700	136.650	9.480	146.830										

Zone wise/Circle wise detail of Rain/Snow damages & machinery deployed as on 28-2-2022

Name of Zone/Circle	Total No. of roads closed	Likely date of opening of roads			Total damaged amount. (In lacs)	Detail of Machinery deployed						Total machinery deployed		
		15/2/2022				After 16-02-2022	JCB			Dozer			Tipper	
		15/2/2022	16/2/2022	16/2/2022			Deptt.	Hired	Dozer	Tipper				
2	3	4	5	6	7	8	9	10	11	12				
Shimla Zone														
3rd Circle Solan	1	0	0	1	231.15	6	0	0	0	5	11			
4th Circle Shimla	0	0	0	0	2136.00	9	0	3	14	26				
11th Circle Rampur	0	0	0	0	1044.95	4	0	3	0	7				
12th Circle Nahar	0	0	0	0	821.22	1	0	0	0	1				
14th Circle Rohru	3	0	1	2	1093.90	8	4	0	5	17				
Total of Shimla Zone	4	0	1	3	5327.22	28	4	6	24	62				
Mandi Zone														
1st Circle Mandi	3	0	3	0	2003.08	1	2	0	0	3				
6th Circle Kullu	4	1	0	3	810.00	2	0	0	1	3				
Joginder Nagar	1	0	1	0	440.35	0	1	0	0	1				
Total of Mandi Zone	8	1	4	3	3253.43	3	3	0	1	7				
Hamirpur Zone														
8th Circle Hamirpur	0	0	0	0	0.00	0	0	0	0	0				
10th Circle Billaipur	0	0	0	0	0.00	0	0	0	0	0				
15th Circle Una	0	0	0	0	0.00	0	0	0	0	0				
Total of Hamirpur Zone	0	0	0	0	0.00	0	0	0	0	0				
Kangra Zone														
5th Circle Palampur	0	0	0	0	94.94	0	0	0	0	0				
9th Circle Nurpur	0	0	0	0	0.00	0	0	0	0	0				
7th Circle Dalhousie	2	0	0	2	6008.25	1	3	0	0	4				
Total of Kangra Zone	2	0	0	2	6103.19	1	3	0	0	4				
National Highway														
SE (NH) Shimla	0	0	0	0	350.78	2	2	13	1	18				
SE (NH) Shahpur	1	0	0	1	565.40	2	4	2	0	8				
Total of CE (NB)	1	0	0	1	916.18	4	6	15	1	25				
G. Total of State	15	1	5	9	15600.02	36	16	21	26	99				

Annexure: - III

JAL SHAKTI VIBHAG																
CIRCLE WISE DETAIL																
sno.	Name of Circle	Urban Water Supply		Rural Water Supply		Irrigation Scheme		Flood Control Works		Sewerage Scheme		Hand Pump		Total (In lakh)		Status
		Affected Schemes	Amount	Affected Schemes	Amount (In Lakh)	Affected Schemes	Amount (In Lakh)	Affected Schemes	Amount (In Lakh)	Affected Schemes	Amount (In Lakh)	Affected Schemes	Amount (In Lakh)	Affected Schemes	Amount (In Lakh)	
1	Bilaspur	3	10	84	239.1	13	59.7	0	0	2	3.75	0	0	102	312.55	Approved
2	Chamba	0	0	321	1234.15	46	299.6	2	13.5	2	19	0	0	371	1566.25	Approved
3	Kullu	0	0	160	1075.59	19	201.05	0	0	3	25.7	0	0	182	1302.34	Approved
4	Nahan	0	0	143	811.06	34	219.2	0	0	0	0	0	0	177	1030.26	Approved
5	Nurpur	3	22.24	40	209.85	43	159.45	3	23.1	0	0	0	0	89	414.64	Approved
6	Recklong Peo	0	0	927	651.79	355	345.9	0	0	1	3	0	0	1283	1000.69	Approved
7	Rohruo	3	25.5	192	516.5	19	199.5	0	0	1	7	0	0	215	748.5	Approved
8	Shimla-9	2	7.2	170	537.05	4	15.5	0	0	0	0	0	0	176	559.75	Approved
9	Solan	0	0	44	142.7	30	77.25	0	0	0	0	0	0	74	219.95	Approved
10	Sundernagar	2	12.2	654	1372.03	68	176	1	2.5	2	3	0	0	727	1565.73	Approved
11	Una	2	12	58	259.25	30	90.75	0	0	2	4	0	0	92	366	Approved
	Total:	15	89.14	2793	7049.07	661	1843.9	6	39.1	13	65.45	0	0	3488	9086.66	

Power Department

Sr. No.	Circle Name	HT Damaged	Amount (In Lakh)	LT Damaged (In Km)	Amount (In Lakh)	LT Poles Damaged (In No.)	Amount (In Lakh)	DTR (In No.)	Amount (In Lakh)	Funds Required	Total Loss of Power sector (In Lakh)
1	Una	4.89	2.45	12.41	6.21	39.00	1.56	18.00	18.00	28.20	28.21
2	Bilaspur	0.00	0.00	0.25	0.13	3.00	0.12	0.00	0.00	0.24	0.25
3	Hamirpur	2.20	1.10	1.37	0.69	9.00	0.36	12.00	12.00	14.15	14.15
4	Kullu	67.40	33.70	100.89	50.45	380.00	15.20	4.00	4.00	103.35	103.35
5	Rohruo	15.00	7.50	25.20	12.60	434.00	17.36	4.00	4.00	41.46	41.46
6	Solan	6.30	3.15	40.40	20.20	145.00	5.80	21.00	21.00	50.15	50.15
7	Nahan	47.64	23.82	140.21	70.11	421.00	16.84	65.00	65.00	175.75	175.77
8	Rampur	38.80	21.50	36.25	28.09	123.00	9.26	5.00	5.00	63.85	63.84
9	Kangra	0.00	0.00	0.00	0.00	9.00	0.36	0.00	0.00	0.36	0.36
10	Dalhousie	196.85	98.43	197.70	98.85	360.00	14.40	48.00	48.00	259.68	259.68
11	Mandi	72.46	36.23	118.05	59.03	252.00	10.08	15.00	15.00	120.34	120.34
12	Shimla	22.77	11.39	55.47	27.74	352.00	14.08	3.00	3.00	56.20	56.20
	Total	474.31	239	728.20	374.10	2527.00	105.42	195.00	195.00	913.73	913.76

District Wise Detail of Landslide Events
(I.e. 01st January,2022 to 28 February, 2022)

Sr. No	Name of District	Date	Details of Landslide Incidents	Major Loss
1.	Bilaspur	17.01.2022	<p>1. DEOC Bilaspur informed that a Landslide incident has been occurred Near AIIMS Hospital Bilaspur. In the incident one person died and one person injured.</p> <p>Details of Deceased person :- Arvind Chauhan(29) S/o Krishna Chauhan R/o Roudidih PO Nabha Jaipur Thana Paatan Ruddidih Distt. Plamu Jharkhand)</p> <p>01.02.2022</p> <p>2. DEOC Bilaspur informed that a Landslide incident has been occurred at Near Jabalpur Tehsil Sadar Bilaspur. In the incident one person buried under the debris.</p> <p>Details of Deceased Person: Dharam Pal S/o Roshan Lal Vill. Nalwar, P.O. Jukhala Tehsil Sadar</p> <p>02.01.2022</p> <p>3. SDM Tissa reported a landslide incident at Village Luharog in which one person was died due to falling of stone on him. Immediate relief of 10,000/- has been given to his family.</p> <p>09.01.2022</p> <p>4. SDM Chamba reported a landslide incident at Village Bannu PO Baror Tehsil Chamba in which 1 Person buried under landslide</p> <p>Details of Deceased person :- Smt. Jai Banti Devi W/o Sh. Ruldhu Ram R/o Village Bannu PO Baror (Age 77) Immediate relief of Rs. 10,000/- given to her family</p>	<p>Human loss:- 1</p> <p>Human loss:- 1</p> <p>Human loss:- 1</p> <p>Human loss:- 1</p>
2.	Chamba	07.02.2022	<p>5. As per information received DEOC Kinnaur a Car No HP 25 B 0077 which was going from Reckong Peo to Tapri got hit by stones, falls from the hill near Karchham Dam .Due to the incident 02 persons got minor Injuries and has been sent to Sholtu Hospital for medical treatment.</p>	Injured=2
3.	Kinnaur	10.01.2022	<p>6. DEOC Kullu informed that an incident of shooting stone occurred near Wajeer Baudi , Vakya Phati & Tehsil Nirmand in which one person died.</p> <p>Details of Deceased person :- Devender S/o Billo Ram, Village Bhagna, Phati Dethava, Tehsil Nirman</p>	Human loss:- 1
4.	Kullu	13.01.2022	<p>7. DEOC Kullu informed an incident landslide reported near Vihali from Larji to Sainj road due to this road was closed. 02 JCBs were send by HPPWD Department for restoration of road.</p>	Road Closed :-1
		26.02.2022	<p>8. The SDO (C) Kullu intimated that a Land Slide had occurred at Village Nangcha Tehsil Kullu in which 1 Cowshed was partially damaged.</p> <p>Details of affected Person: Pana Lal S/o Khayalu Ram Loss amounting of Rs. 0.70 lakhs.</p>	Cowshed = 1
		27.02.2022	<p>9. As per information received from DEOC Kullu a landslide incident occurred at village Maul in Hurla to Sachani road, Tehsil-Bhuntar, District Kullu. Due to which road was blocked. Later the road was restored by HPPWD for vehicular activities.</p>	Road Closed :-1

5.	Lahaul Spiti	29.01.2022	10.DEOC Lahaul Spiti informed that an incident of Landslide occurred at SKTT Road, (approx. 6 km ahead of Tindi towards Pangri) due to which road was blocked. Expect damaged to road no other loss reported in the incident.	Road Closed :-1
		15.02.2022	11.DEOC Lahaul Spiti informed that an incident of Landslide occurred on SKTT road at near Bhibhag in Sub Division Udaipur, due to which the road is blocked. Later the road was restored for vehicular activities.	Road Closed :-1
		22.02.2022	12.DEOC Lahaul Spiti informed that an incident of Landslide occurred at (SH-26) SKTT route at KM 74 nearby Tindi. Later the road restored for vehicular activities. 13.As per information provided by DEOC L&S that due to rock and debris slide near the Jungle camp, the GREF dozer operator and his helper working for road clearance at the incident site got seriously injured. After being referred to PHC Tindi, he was declared dead. The deceased body is being brought for Post-mortem at Udaipur Hospital. Details of Deceased person :- Sh. Devi Chand, age 47, S/o Srikanth village Lohani, Tindi Tehsil Udaipur District Lahaul, Details of Injured person :- Arjun Kumar S/O Sh. Ram Singh R/O Vill. Bhadha Tindi	Human loss:- 1
6.	Mandi	27.01.2022	14.DEOC Mandi informed that an incident of Landslide occurred at 7 Mill at Pandoh District Mandi in which NH-21 Mandi to Kullu blocked for all kind of vehicular movement. Later the road was restored for vehicular activities.	Road Closed :-1
		17.01.2022	15.DEOC Sirmour informed that a shooting stone (Landslide) incident occurred Near Menus Road NH-707. In the incident three persons are died. Details of Deceased persons :- i. Sh. Kahan Chand S/o Fakir R/o Sainj PO Atal Tehsil Tiyuni Distt. Dehradoun Uttarakhand. ii. Sh. Jitender Singh S/o Sh. Khem Singh Rathor R/o Girwar Tehsil Hurda Distt Behlwarra Rajasthan. iii. Sh. Ashok S/o Sh. Late U.B. Sharma Village Rajgarh Distt Churu Rajasthan. Immediate Relief given Rs.10,000/-	Human loss:- 3
7.	Sirmour	20.01.2022	16.DEOC Sirmour intimated an incident of landslide occurred at Paonta Sahib Shillai Gumma Hatkotti road NH-72B (new NH-707) km. In the incident NH-707 (National Highway) blocked and Traffic was diverted via Haripurdhar/Rohnat link road. Expect damaged to road no other loss reported in the incident.	Road Closed :-1
		23.01.2022	17.DEOC Sirmour informed that an incident of Landslide occurred at Rajban Paonta Sahib District Sirmour in which NH-707 damaged and blocked for all kind of vehicular movement later the road restored vehicular movement.	Road Closed :-1
		23.02.2022	18. DEOC Sirmour has informed an incident of Landslide occurred at BBRC Road	Road Closed :-1

			(Baneti Baghthan Road) district Sirmour in which road was blocked.	
8.	Solani	19.01.2022	19.DEOC Solan informed that an incident of Landslide occurred at Kasauli at under Construction site (building) of Smt. Shilpa Sharma D/o Jitender Sharma R/o Ghatti Patwar Circle Gulhari Teh. Approx. Loss:- 7,00,000/-	Structure loss:- 1 House = 1
		29.01.2022	20.DEOC Solan informed that an incident of Landslide occurred at Vill Lavi Khurd Panchayat Dangri, Sub division Solan. In the incident one House was damaged.	
Total Events Reported			20	Total Human Loss :09 Road Closed :- 06 Structure Loss:- 02

District Wise Detail of Fire Incident
(I.e. 01st January,2022 to 28 February, 2022)

Sr. No	District	Date	Details of Fire Incidents	Major Loss
1.	Chamba	25.01.2022	1. DEOC Chamba informed an incident of Fire at Village Kuraha partially damaged due to fire incident in which 7 goats were died due to suffocation.	Cattle Loss = 07 (Goats)
		27.01.2022	2. DEOC Chamba informed that an incident of fire occurred at Dogra Bazar, Chamba. In the incident one shop was damaged. Property Loss: 30.15 Lakh	Shop =1
		27.02.2022	3. SDM Dalhousie informed that an incident of fire caused damage to 5 Shops of Name of the affected: Sh. Raman Talwar S/O Sh. Chaman Lal in Mall Road, Dalhousie (Near Gandhi Chowk). Loss is approx.Rs. 150.00 Lacs	Shop =5
2.	Kangra	24.01.2022	4. DEOC Kangra informed an incident of Fire in tehsil Dehra, District Kangra in which 2 buffalo and 1 calf died.	Cattle loss:- 03
3.	Kullu	01.01.2022	5. Deoc Kullu informed that an incident of Fire at 16 Mil, Manali district Kullu in which 5 rooms and one Store room were burnt. In the incident 7 cylinder were exploded. Name of the affected: I. Smt. Kamla devi w/o Babu ram village Ligan Tehsil Manali II. Mr. Pintu, village Ligan Tehsil Manali	House = 1
		02.01.2022	6. DEOC Kullu informed that an incident of fire taken place at Basaul GP Muhan, Anni Block. In the incident 2 Kuccha House were Full damaged (18- Rooms) due to which 4-families were affected. Relief Details:- Rs.35,000/-	House = 2
		29.01.2022	7. DEOC Kullu informed that an incident of fire occurred at, Phati , Karshai Gad Kothi Ragupur Tehsil Anni District Kullu in which 01 Kucha house was Partially damaged, Loss amounting to Rs. 30.00 lacs.	House = 1
3.	Kullu	30.01.2022	8. DEOC Kullu informed that an incident of sudden fire was reported at Chalathar Village, Panchayat Karshaigad, Tehsil Anni, District Kullu due to which 01 Kaccha house (Wooden structure) damaged. Except damage to the wooden house, no any other kind of loss reported by the field officials. Details of the affected: Sh.Gyan Chand, Chalathar Village, Panchayat Karshaigad, Tehsil Anni, District Kullu.	House = 1
		31.01.2022	9. DEOC Kullu informed that an incident of House Fire (Kacha) reported at Village Pankot Hallan -2 Tehsil Manali Distt. Kullu in the incident one house was servely damaged. Details of the affected: I. Tara Chand R/o Village Hallan -2 Tehsil Manali Distt. Kullu Property Loss : Rs 25 Lakh approx.	House = 1
3.		02.02.2022	10. DEOC Kullu has informed that fire caused damage to a House (3 Story	House = 1

		residential Building 12 rooms) Details of the affected: I. Mr. Om nath S/o late Durga Singh R/o Riyaldha, Bhuter Estimated Property Loss-Rs 1.0 Cr. 11. DEOC Kullu has informed that an incident of fire has been reported at Hanogi Dhaba near District Hospital Kullu in which one shop was fully damaged and Estimated loss Rs 3.0 lakh	Shop = 1
	05.02.2022	12. DEOC Kullu has informed that an incident of Fire reported in Electricity Rest House at Shadabai District Kullu due to which documents kept in the rest house had been burnt to ashes. Except damaged to the building, no other kind of loss reported by the field.	Rest House = 1
	17.02.2022	13. DEOC Kullu has informed that an incident of Fire occurred at Vashist Tehsil Manali District Kullu in which one pucca house was fully damaged. There has been no loss of life reported in the incident.	House = 1
	18.02.2022	14. DEOC Kullu has informed that an incident of Fire occurred at Village Shogi GP Dalasni District Kullu in which two cow were brunt and a cowshed was fully damaged.	Cowshed=1 Cattle loss= 2 (Cow)
	19.02.2022	15. DEOC Kullu informed an incident of Shop Fire occurred near New Bus Stand Kullu. In this incident shop was completely damaged. Estimated loss 25,00,000.	Shop =1
	26.02.2022	16. The SDO (C) Anni intimated that a fire incident had occurred at Village Digehar Phati Vishladhar Tehsil Anni at 6:30 PM in which 01 Pucca house was Fully damaged, Estimated loss Rs. 30.00 lakhs. Immediate relief of Rs. 10,000/-	House = 1
	27.02.2022	17. As per information received from DEOC Kullu a fire incident occurred at Village Digehar, Phati Vishladhar, Tehsil Anni, District Kullu. In the arson two-and-a-half story residential house damaged. Details of the affected: Sh. Devi Singh's S/o Sh. Kehar Sing Estimated Loss: Rs 30 lakhs Immediate relief Rs 10,000	House = 1
	28.02.2022	18. The SDO (C) Banjar intimated that a fire incident had occurred at Village Majhan Phati Gadaparli, Tehsil Sainj, District Kullu in which 01 Kucha house was fully damaged Details of the affected: Sh. Mehar Chand S/o Sh.Chamaru Ram R/oMajhan Phati Gadaparli, Tehsil Sainj, Estimated loss Rs.10 .00 lacs. Immediate relief Rs. 3,500/-	House = 1
	04.01.2022	19. DEOC Mandi informed that an incident of Fire reported at Vill. Gidhi, Tehsil Sunder Nagar, District Mandi in which one House burnt. In the arson one person is died. Property Loss: 4 Lakh	Human = 1 House = 1
4.	30.01.2022	20. DEOC Mandi informed that an incident of Fire occurred at Mahakam near Janjahli Sub Division Thunag Distt. Mandi due to which two story cowshed completely damaged. Fire is under control. No human & cattle loss reported... Property Loss : Rs 5 Lakh approx.	Human =1 Cowshed = 1

			<p>21. DEOC Mandi informed that an incident of Fire occurred at Ramnagar Mandi Sub Division Sadar Distt. Mandi In which 10 Persons injured. All injured persons are referred to Medical College Hospital Nerchowk for the treatment.</p> <p>22. DEOC Mandi has informed an incident of fire occurred at Chanholi sub. Tehsil Bhandrota, Sarkaghat. In the incident 01 Pucca house (2 Storey,7 Rooms) was fully damaged. Approx. loss of Rs. 8 lakh..</p>	Injured = 10 House = 1
			<p>23. DEOC Shimla informed that an incident of fire taken place at Lailu Sainj Theog District Shimla. In the arson 01 Pump house (IPH) was fully damaged.</p> <p>24. DEOC Shimla informed that an incident of fire has been reported at Village Chivna PO Chambi Sub Division Chopal District Shimla due to which 01 pucca house damaged. Immediate relief Rs.5000/-</p>	1 IPH Pump House = 1
6.	Shimla	<p>25. DEOC Shimla informed that an incident of fire taken place at Village Diyudi, Chidgaon, RohruDistrict Shimla in which one was Cowshed burnt. In the incident 01 Cow, 03 Sheep's and; 20 Hens died.</p> <p>26. DEOC Shimla informed that an incident of fire taken place at Village Mihani tehsil Kalbog District Shimla.in which one House Burnt.</p> <p>27. DEOC Sirmaur informed that an incident of fire occurred at VRO Mainland Sub Division Nahan District Sirmour. In which 01 Shop Damaged due to Short circuit. Property Loss : Rs 22 Lakh approx</p>	Animal Loss = 4 Hens = 20 House = 1	
7.	Sirmaur	<p>28. DEOC Sirmour has informed that an incident of Fire occurred Near Income tax office Nahan, in the arson 01 Govt. Accommodation was partially burned.</p> <p>29. DEOC Sirmour has informed an incident of industrial fire reported at Jaman Ki Ser (Sarhan), District Sirmour.</p>	Shop =1 Govt. House =1 Factory=1	
8.	Una	<p>30. DEOC Una has informed an incident of fire at Industrial Area Bathri Tehsil Haroli Distt. Una. The fire broke out due to the explosion in the firecracker factory Bathdi in the industrial area. In the arson 12 persons died and 8 persons were got major injuries who were taken to the nearby Sian Hospital Bathri.</p>	Factory=1 Human Loss:- 12	
Total Events Reported			<p>Total Human Loss :08 Total House Damaged :13 Total shop Damaged :09 Cowshed:- 01 Animal Loss:- 12 Factory:-02</p>	

District Wise Detail of Earthquake Events
(I.e. 01st January,2022 to 28 February, 2022)

Sr. No	District	Date/Timing	Details of Earthquake Incidents
1.	Chamba	04-01-2022 22:45:51 IST	Lat, Long:- 32.83, 75.87 Magnitude: 4.3 Depth : 5 km DEOC Chamba has not been reported any kind of loss due to earthquake
		17.01.2022 10:28:06 IST	Lat, Long 32.25, 76.18 Magnitude, M: 2.8 , Depth D: 5km DEOC Chamba has not been reported any kind of loss due to earthquake
		27.01.2022 21:21:08 IST	Lat, Long 32.79, 76.35 Magnitude, M: 3.4, Depth D: 5km DEOC Chamba has not been reported any kind of loss due to earthquake
		02.02.2022 11:54:24 IST	Lat, Long 32.47, 76.22 Magnitude, M: 2.7, Depth D: 5km DEOC Chamba has not been reported any kind of loss due to earthquake
		2022-02-17 18:04:28 IST	Lat, Long 32.31, 76.26 Magnitude, Depth M: 2.7 , D: 10km DEOC Kangra has not been reported any kind of loss due to earthquake
		25.02.2022 12:59:03 IST	Lat, Long 32.25, 76.34 Magnitude, Depth M: 3.4 , DEOC Kangra has not been reported any kind of loss due to earthquake
3.	Kinnaur	03-01-2022 00:29:05 IST	Lat, Long:- 31.89, 78.66 Magnitude: 2.8 Depth : 5km DEOC Kinnaur has not been reported any kind of loss due to earthquake
		06-02-2022 11:27:34 IST	Lat, Long:- 31.53, 78.17 Magnitude: 4.1 Depth : 10km DEOC Kinnaur reported an incident of Rockslide occurred on NH-05 near Urni Dank due to Earthquake. There is no loss of life. Now road is open for all type of vehicles
		12-02-2022	Lat, Long:- 31.67, 77.99 Magnitude: 2.9 Depth : 10km

		19:16:59 IST	DEOC Kinnaur has not been reported any kind of loss due to earthquake
4.	Lahaul Spiti	<u>03-01-2022</u> 02:22:29 IST	Lat, Long:- 32.07, 78.49 Magnitude: 2.5 Depth : 10km DEOC Lahaul Spiti has not been reported any kind of loss due to earthquake
		<u>28-12-2021</u> 11:07:12 IST	Lat, Long:- 31.49, 77.62 Magnitude: 2.3 , Depth : 10km DEOC Kullu has not been reported any kind of loss due to earthquake
4.	Shimla	<u>2022-02-17</u> 02:55:13 IST	Lat, Long 31.35, 78.01 Magnitude, Depth M: 2.5 , D: 10km DEOC Shimla has not been reported any kind of loss due to earthquake
		<u>23.02.2022</u> 09:58:26 IST	Lat, Long 31.35, 77.75 Magnitude, Depth M: 4.0 - D: 7km DEOC Shimla has not been reported any kind of loss due to earthquake
Total Events Reported			13

District Wise Detail of Drowning Events
(I.e. 01st January,2022 to 28 February, 2022)

Sr. No	District	Date	Details of Drowning Incidents	Major Loss
1.	Kullu	08.02.2022	<p>1. As per information received from DEOC Kullu an incident of Drowning reported at Village Shaad (Tipari), Phati Kashavari, Tehsil Bhunter, District Kullu in which one person fall into Parvati river (Manikaran)</p> <p>Details of the Deceased Person: Smt. Divya D/o Jagdish Kumar, Shaad (Tipari), Phati Kashavari, Tehsil Bhunter,</p>	Human loss :-01
2.	Sirmaur	09.02.2022	<p>2. As per information received from DEOC Sirmour an incident of drowning occurred at Runn river near Radhakrishan factory, Sirmour. In the incident one school going child was died while he was taking salfie.</p> <p>3. Details of the Deceased Person: Master Vansh S/o Sh Omprakash R/o Kadasan Tehsil Naraingarth State Haryana</p>	Human loss :-01
3.	Una	19.01.2022	<p>4. DEOC Una informed an incident of drowning at Village Chatarad Tehsil Bangana Distt. Una in which achild while playing near the water tank was falls into the tank.</p> <p>Details of the Deceased Person: Karana (5 Years Old) S/o Dinesh Kumar Village Chatarad Tehsil Bangana</p> <p>5. DEOC Una informed the incident of drowning in which 01 Causality due to drown into the Govindsagar lake at place Lathinai Ghat, Tehsil Bangana dated as on 19-01-2022 at 03:00 PM</p> <p>Details of the Deceased Person: Master Kartik Sharma S/o Pritam Chand Distt. Hamirpur</p>	Human loss :-02
Total Events Reported			04	04

District Wise Avalanche
(I.e. 01st January,2022 to 28 February, 2022)

Sr. No	District	Date	Details of Avalanche Incident	Major Loss
1.	Chamba	26.02.2022	1. DEOC informed that an incident of Avalanche was occurred at Nayagra Nalla District Chamba due to which flow of Ravi River blocked for 5 hours. After some time flow of water became normal.	Ravi River blocked
		10.01.2022	2. DEOC intimated that incident of avalanche occurred at of Atal Tunnel Rohtang North Potal, in Sub Division Lahaul . However, in the incident Chandra River was blocked, and after some time flow of water became normal. 3. As per information provided by DEOC avalanche incident occurred at Rashel Village in Sub division Lahaul in the incident no human loss reported.	Chandra River blocked
		18.01.2022	4. DEOC intimated that incidents of Avalanches reported at Ropsang Nallah and Mooling Bridge district Lahaul & Spiti . In the incident NH-03 was blocked. The said road restored for traffic after some time. 5. DEOC intimated that incidents of Avalanches reported at Ropsang Nallah and Mooling Bridge district Lahaul & Spiti . In the incident NH-03 was blocked. The said road restored for traffic after some time.	2 -Road Blocked
		19.01.2022	6. DEOC Lahaul & Spiti intimated that an incident of Avalanche avalanches has occurred near Tindi in sub division Udaipur. In this incident road has been blocked and restoration work is under process. The mention route was restored for traffic after some time.	Road Blocked
2.	Lahaul Spiti	20.01.2022	7. DEOC intimated that an incident of Avalanche was reported at Kahdu Nullah in sub division Udaipur . In this incident road has been blocked and restoration work is under process. The mention road was restored for traffic after some time.	Road Blocked
		24.01.2022	8. DEOC informed that an incident of Avalanche was occurred at NH-03 near Mooling Bridge in this incident NH - 03 is closed due to accumulated snow. The mention road was restored for traffic after some time.	Road Blocked
		24.01.2022	9. DEOC Lahaul & Spiti informed that an incident of Avalanche occurred at Mayar Valley Road District LS in this incident Mayar valley route at 3 km towards Mayar has been closed later the road has been through for all type of vichles.	Road Blocked
		29.01.2022	10. DEOC Lahaul & Spiti informed that an incident of Avalanche occurred at Udaipur- Mayar road nearby village Karpat due to which road has been blocked. Restoration of route is under process. Later the road has been through for all type of vichles.	Road Blocked
		03.02.2022	11. DEOC informed that an incident of Avalanche occurred at Pangmo Nullah on	Road Blocked

		Kaza to Lassar road, in Sub Division Spiti at around 02:00pm. In this incident road was blocked. Except road no other loss was reported in the incident.	
04.02.2022	12.	DEOC informed that an incident of Avalanche was occurred at NH 03 near Mooling , in Sub Division Lahaul at around 10:30am. In this incident road was blocked. Except road no other loss was reported in the incident. The mention route was restored later.	Road Blocked
07.02.2022	13.	As per information received from DEOC Lahaul Spiti that an incidents of avalanche was occurred nearby Darcha in Sub Division Lahaul. In this incident road has been blocked.Except road no other loss was reported in the incident. The mention route was restored later.	Road Blocked
07.02.2022	14.	As per information received from DEOC an incidents of avalanche was occurred Nearby Petrol Pump Tandri Sub Division Lahaul . In the incident NH-03 road was blocked. The mention route was restored later.	Road Blocked
07.02.2022	15.	As per information received from DEOC an incident of avalanche was occurred nearby Kadhu Nallah in Sub Division Udaipur . In this incident (SH-26) road was blocked.	Road Blocked
10.02.2022	16.	DEOC informed an incident of Avalanche was occurred nearby Darcha-Shrinkula road in Sub Division Lahaul . In the incident road was blocked. Except road no other loss was reported in the incident. The mention route was restored later.	Road Blocked
20.02.2022	17.	As per information received from DEOC that an incident of avalanche was occurred near Darcha Bridge on NH-03 in sub division Lahaul . In the incident road was blocked. Except road no other loss was reported in the incident. The mention route was restored later.	Road Blocked
23.02.2022	18.	DEOC informed an incident of Avalanche was occurred at Beeling Nullah on NH-03 in sub division Lahaul . In this incident road was blocked. Except road no other loss was reported in the incident. The mention route was restored later.	Road Blocked
23.02.2022	19.	DEOC informed an incident of avalanche was occurred near triloknath in sub division Udaipur . In the incident some Airtel poles were damaged and road was been blocked. Except road and poles damage no other loss was reported in the incident.	Road Blocked
25.02.2022	20.	DEOC informed an incident of avalanche was occurred at Pyaso Nullah, Div Lahaul , due to which the Bhaga River was blocked , at around 6:00pm in the evening, the water made its own way by cutting the avalanche debris and gradually the water level has come to normal.	Bhaga River Blocked
28.02.2022	21.	DEOC informed an incident of Avalanche was occurred at Khadu Nallah near Tindi/ Sub Division Udaipur District Lahaul &Spiti in which 94RCC(BRO) GREF, (SH26) SKTT route was blocked due to landslide and avalanches at multiple locations. Machineries have been deployed. The mention road has been restored later.	Road Blocked

3.	Shimla	23.02.2022	<p>22. DEOC informed an incident of accumulated snow in the uphill fall on a vehicle no HP 06A 6203 due to which the vehicle Roll down towards the gorge Near Bathnal Thanedar from Narkanda District Shimla. In the above mentioned vehicle 4 no. of persons were traveling which was rescued by the locals.The mention road was restored later.</p>	<p>Road Blocked Human Injured :-04</p>
Total Events Reported			22	<p>Total Road Disrupted = 17 Human injured:-04</p>

District Wise Lightning
(I.e. 01st January,2022 to 28 February, 2022)

Sr. No	District	Date	Details of Lightning Incident	Major Loss
1.	Sirmour	12.01.2022	As per report received from Distt. Sirmour 01 Cowshed damaged , 04 Cow & 01 buffalo died due to lightening. Details of the affected: Sh. Om Dutt. S/o SH. Jagat Ram R/o Manr ya Patwar Circle Nehar Swar.	01 Cowshed 04 Cow & 01 buffalo
2.	Bilaspur	25.02.2022	As per report received from Distt. Bilaspur one cowshed damaged due to sky lightening at village Dagech Gram Panchayat, Patwar Circle & Sub-Tehsil Namhol . In the incident a cowshed was fully damaged.	01 Cowshed
Total Events Reported			02	Cow Shed =02 Animal Loss= 05



Government of India
Ministry Of Earth Sciences (MOES)
India Meteorological Department
Meteorological Centre, Shimla

Dated: 31st January, 2022
Time of Issue: 1300, IST

Monthly weather report

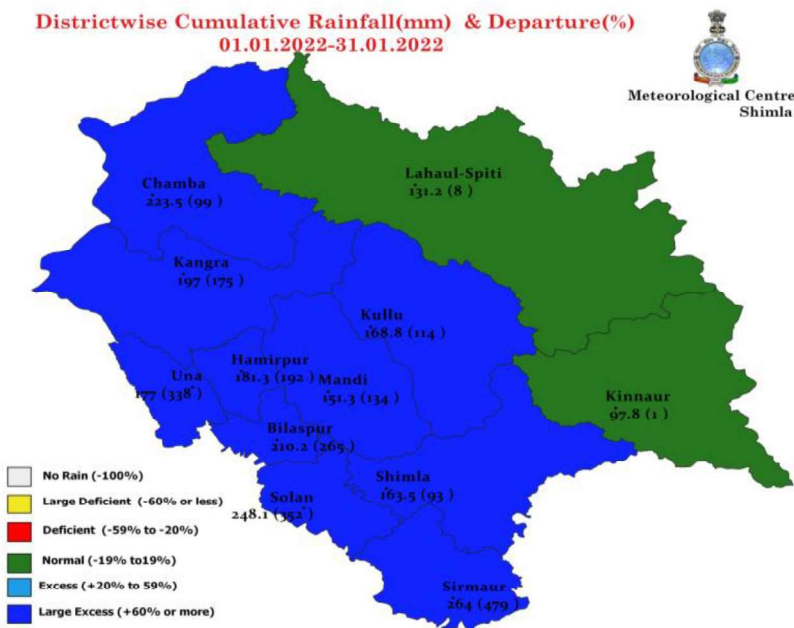
Weather summary

Three western disturbances affected the State of HP during January month and there were 2 active spells of precipitation during the period. Two Western Disturbances (WDs) in succession affected Northwest India during 05th- 10th January. The first WD caused widespread rainfall with isolated heavy rainfall over the State of HP on 06th and the second WD caused widespread rainfall with isolated hailstorm and isolated heavy to very heavy rainfall during 07th-10th January.

An active Western Disturbances (WDs) affected Northwest India during 22nd -24th January. The WD caused widespread rainfall activity with isolated heavy snowfall over the State of HP over the State of HP on 23rd and 24th January

Monthly rainfall and departure

State received excess rainfall in Himachal Pradesh during January month from 01.01.2022 to 31.01.2022. District Lahaul-Spiti and Kinnaur received Normal rainfall. There were two active spells of rainfall in this month 1st from 3rd January to 12th January and 2nd from 21st January to 24th January. District wise rainfall and departures are given in the map below.



Actual Rainfall and percentage departure during past 10 years

Year	Actual	% Dep
2012	121.9	32
2013	75.6	-18
2014	66.3	-28
2015	67.2	-27
2016	18.7	-81
2017	157.6	62
2018	9.0	-91
2019	86.1	-4
2020	124.5	47
2021	37.6	-58
2022	173.2	93

Color code -



Above data shows that there is large excess rainfall this year with 93% departure and this is ever highest for past 10 years.

Extreme Values

Temperature-

Highest Maximum: 22.5 on 02nd January in Una and 01st January in Bilaspur
Lowest Minimum: -16.7 on 28th January in Keylong

Precipitation –

Heaviest snowfall-Khadrala(Shimla): 79.8cm on 24th January
Highest rainfall-Nahan(Sirmaur): 76.6mm on 10th January

Chief amount of Snowfall(cm) –

<u>Date</u>	<u>Station</u>
05.01.2022	Koksar:33.0, kothi:20.0, Khadralla(Shimla) & Kalpa(Lahaul-spiti):17.0 each
06.01.2022	Kothi(Kullu):70.0, Hansa(Lahaul-Spiti):30.48, Manali(Kullu):20.0
08.01.2022	Gondhla: 30.0, Shimla: 14.6,
09.01.2022	Kufri, Khadralla(Shimla):55.0, Dalhousie(Chamba):30.0
10.01.2022	Bharmaur(Chmaba) and Khadralla(shimla):60.9, Ghondla(Lahaul-spiti):40.0, Manali(kullu):37.0
12.01.2022	Shillaroo(Shimla):20.0, Khadralla(Shimla):12.7, Chopal(Shimla):12.5, & Kufri(Shimla):6.0.
23.01.2022	Kufri(Shimla):62, Khadralla (Shimla):55.8, Shillaroo(Shimla):38.1, Chopal(Shimla): 30.5
24.01.2022	Khadralla: 71.1, Shillaroo:29.1, Gondhla:20, Nichar:20

Chief Amount of rainfall(mm)-

<u>Date</u>	<u>Station</u>
05.01.2022	Manali(Kullu):40.0, Dalhousie(Chamba)=40.0, Bhunter (Kullu):32.1
06.01.2022	Palampur (Kangra): 60.6, distt, Kheri(Chamba):59.2, Saloni(Chamba):51.2.
08.01.2022	Nahan(Sirmaur):44.8, and RL 1700(BBMB Bilaspur):40.6
09.01.2022	NAina devi(Bilaspur):58.4, Rajghar(Sirmaur):52.0, Chamba:49.0
10.01.2022	Kandaghat(Colan):79.8, Dhrampur(Solan):73.0, Solan, 71.0 and Jubberhatti(AMS SHIMLA):59.9
22.01.2022	Salooni(chamba):23.2. Manali(Kullu):10.0
23.01.2022	Nahan:76.6. Jatton Barrage(Sirmaur): 53.0, Berthin(Bilaspur): 48.4, Naina Devi (Bilaspur) : 42.4, Kahu(Bilaspur): 35.2, RL 1700 BBMB (Bilaspur):: 35.0
24.01.2022	Naina Devi (Bilaspur): 52.2; Sangrah (Sirmaur): 52.0; Dharamshala(Kangra):40.2; RL 1700 BBMB(Bilaspur): 40.0

Note: Forecast/Warning for any day is valid from 0830 hours IST of that day till 0830 hours IST of next day

WARNING	PROBABILISTIC FORECAST		SPATIAL		RAINFALL INTENSITY	
WARNING(TAKE ACTION)	Terms	Probability of Occurrence	DRY	No Rainfall	Light	2.5-15.5 mm
ALERT (BE PREPARED)	Unlikely	<25%	ISOLATED	1-25%	Moderate	15.6-64.4 mm
WATCH (BE UPDATED)	Likely	25-50%	FEW	26-50%	Heavy	64.5-115.5 mm
	Very Likely	50-75%	MANY	51-75%	Very Heavy	115.6-204.4 mm
NO WARNING (NO ACTION)	Most Likely	>75%	MOST	76-100%	Extremely Heavy	≥204.5 mm

With Regards
Meteorological Centre Shimla

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Government of India
Ministry Of Earth Sciences (MOES)
India Meteorological Department
Meteorological Centre, Shimla

Dated: 28th February, 2022
Time of Issue: 1300, IST

Monthly weather report

Weather summary

Twelve western disturbances affected the State of HP during winter season (January and February) and out of 12 Western Disturbances (WD), three active Western Disturbances (WD) during January which caused rainfall in two spells (5th to 12th January, 23rd to 25th) and also three active Western Disturbances (WDs) during the month of February which caused rainfall in three spells (03rd to 06th, 09th-10th, 23rd to 28th).

Monthly rainfall and departure

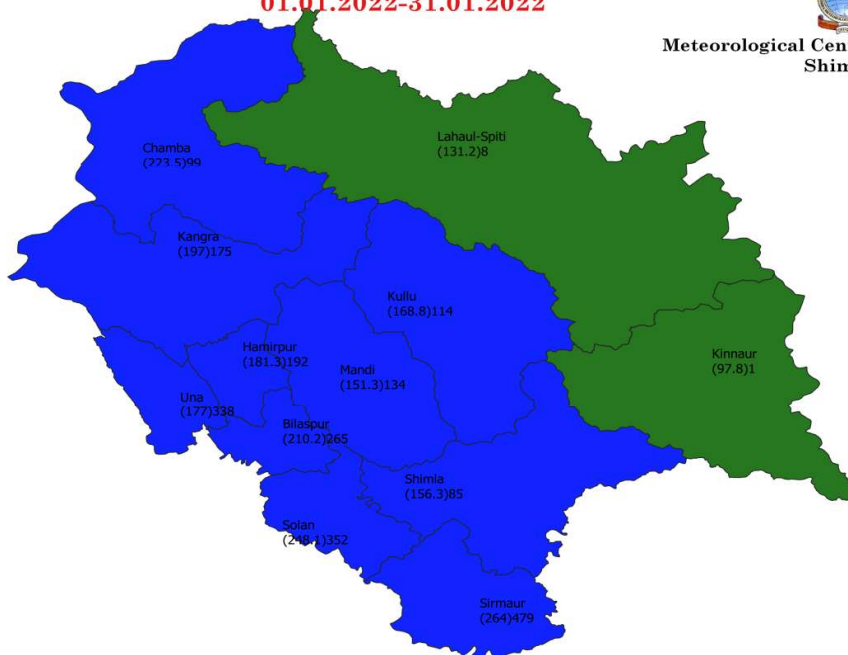
January

State received excess (92%) rainfall in Himachal Pradesh during January month from 01.01.2022 to 31.01.2022. District Lahaul-Spiti and Kinnaur received Normal rainfall. The remaining districts received large excess rainfall during the period. District wise rainfall and departures are given in the map below.

Districtwise Cumulative Rainfall(mm) & Departure(%) 01.01.2022-31.01.2022

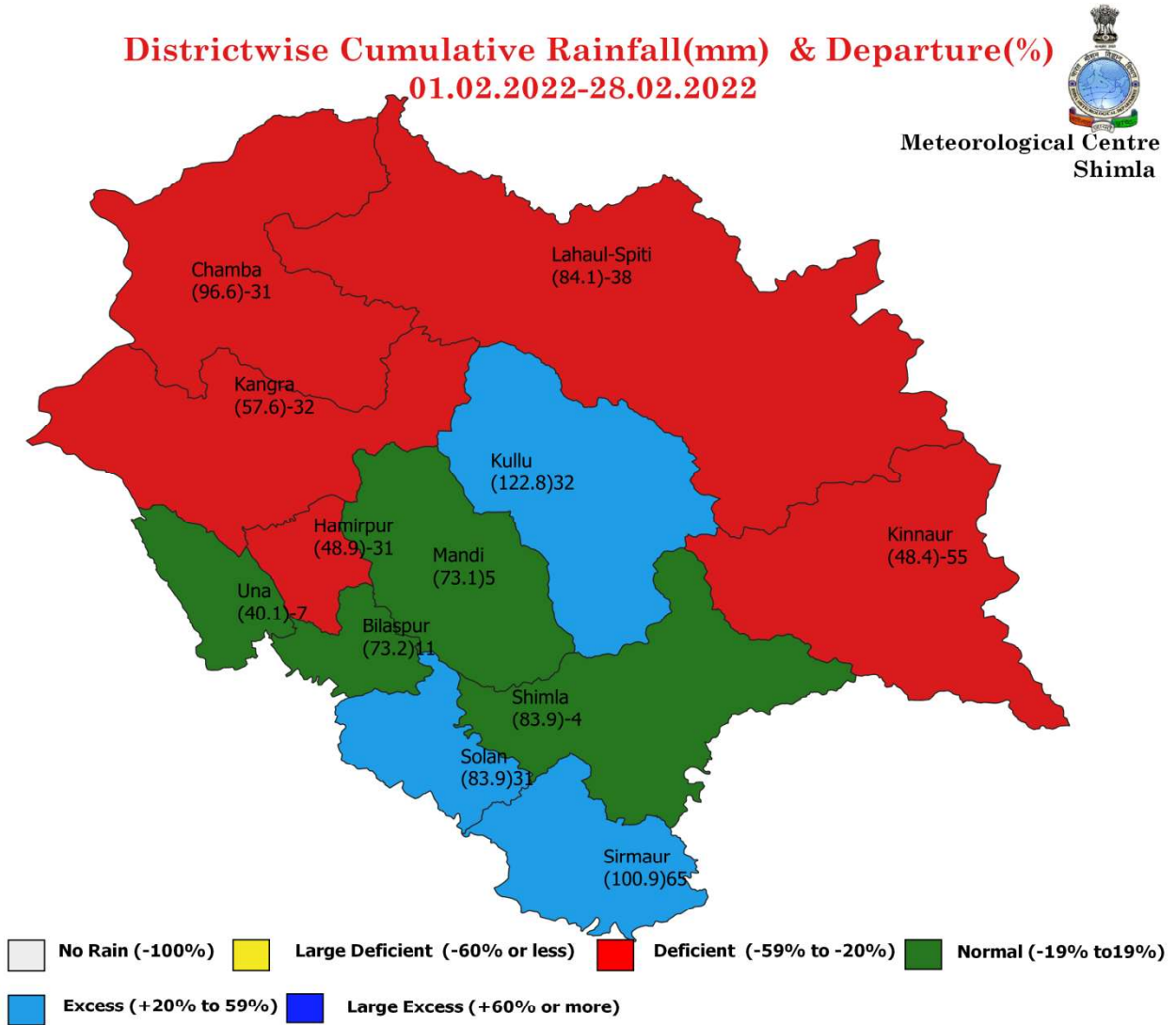


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February:

State received deficient (-24%) rainfall in Himachal Pradesh during February month from 01.02.2022 to 28.02.2022. District Kullu, Solan and Sirmaur received excess rainfall, District Una, Bilaspur Mandi, and Shimla received Normal rainfall. All remaining districts received deficient rainfall. District wise rainfall and departures are given in the map below



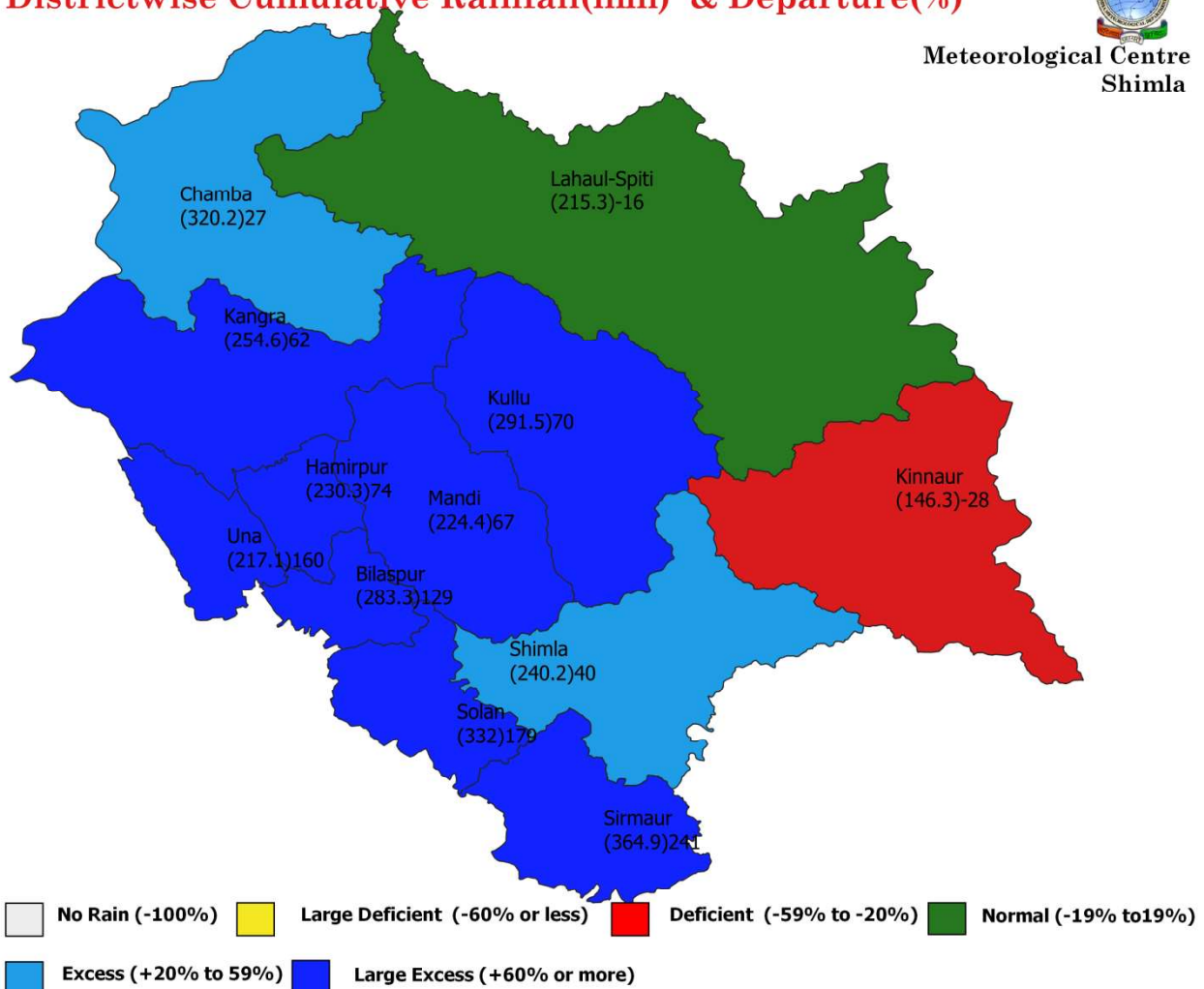
Winter season rainfall and departure

This Year State received excess rainfall (30%) in Himachal Pradesh during winter season from 01.02.2022 to 28.02.2022. District Kinnaur received deficient rainfall. Remaining districts received normal to large excess rainfall in the winter season.

Winter season : 01.01.2022-28.02.2022 Districtwise Cumulative Rainfall(mm) & Departure(%)



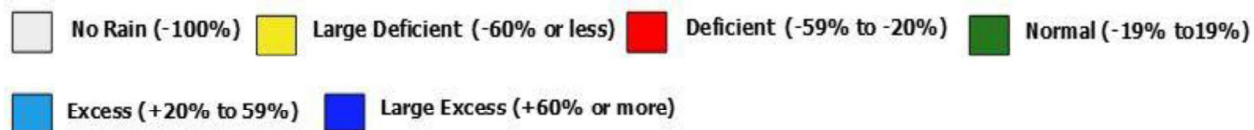
Meteorological Centre
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Actual Rainfall and percentage departure during past 19 years(2004-2022)

Year	Actual	% Dep
2004	135	-30
2005	191	-01
2006	99	-48
2007	116	-38
2008	154	-20
2009	97	-49
2010	103	-46
2011	133	-28
2012	199	08
2013	250	35
2014	185	00
2015	213	15
2016	57	-71
2017	204	04
2018	56	-72
2019	280	45
2020	307	68
2021	57	-70
2022	251	30

Color code -



Extreme Values

Temperature-

Highest Maximum: 27.6 (22nd February)

Lowest Minimum: -16.7 (28th January)

Precipitation –

Heaviest snowfall (cm)- Kothi (Kullu):70.0

Highest rainfall (mm)- 76.6 on 23rd January.

Chief amount of Snowfall(cm) –

January

<u>Date</u>	<u>Station</u>
05.01.2022	Koksar:33.0, kothi:20.0, Khadralla(Shimla) & Kalpa(Lahaul-spiti):17.0 each
06.01.2022	Kothi(Kullu):70.0, Hansa(Lahaul-Spiti):30.48, Manali(Kullu):20.0
08.01.2022	Gondhla: 30.0, Shimla: 14.6,
09.01.2022	Kufri, Khadralla(Shimla):55.0, Dalhousie(Chamba):30.0
10.01.2022	Bharmaur(Chmaba) and Khadralla(shimla):60.9, Ghondla(Lahaul-spiti):40.0, Manali(kullu):37.0
12.01.2022	Shillaroo(Shimla):20.0, Khadralla(Shimla):12.7, Chopal(Shimla):12.5, & Kufri(Shimla):6.0.
23.01.2022	Kufri(Shimla):62, Khadralla (Shimla):55.8, Shillaroo(Shimla):38.1, Chopal(Shimla): 30.5
24.01.2022	Khadralla: 71.1, Shillaroo:29.1, Gondhla:20, Nichar:20

February

<u>Date</u>	<u>Station</u>
03.02.2022	Kothi(Kullu):45.5, Khadralla(Shimla):10.0
04.02.2022	Khadralla(Shimla):48.0:Shillaroo(Shimla) and Dalhousie(Chamba):30.0, Chopal(Shimla):25.4
05.02.2022	Kufri:60.0, Chopal:45.7, Shimla:32.6,
23.02.2022	Gondla :35.0 , Kukumseri:26.0,Keylong = 26.0
25.02.2022	Kothi(Kullu):28.0,Kalpa:24.0(Kinnaur),Khadralla:17.8, Shilaroo:13.1
27.02.2022	Khadralla Shimla:30.4,Nichar:12.5 and Kalpa:9.0

Chief Amount of rainfall(mm)-

Januray

<u>Date</u>	<u>Station</u>
05.01.2022	Manali(Kullu):40.0, Dalhousie(Chamba)=40.0, Bhunter (Kullu):32.1
06.01.2022	Palampur (Kangra): 60.6, distt, Kheri(Chamba):59.2, Saloni(Chamba):51.2.
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24.01.2022	Naina Devi (Bilaspur): 52.2; Sangrah (Sirmaur): 52.0;

	Dharamshala(Kangra):40.2; RL_1700 BBMB(Bilaspur): 40.0
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February

<u>Date</u>	<u>Station</u>
03.02.2022	Bhattiyat(Chamba): 40.2, Kasol(Kullu):16.0
04.02.2022	Nahan(Sirmaur):59.4, Naina devi(Bilaspur):58.4,Una:52.6
05.02.2022	Tider(Kullu):30.5, Banjar(Kullu):28.6 , solan:24.8 Nahan(Sirmaur):24.1
23.02.2022	Salooni(chmaba): Manali(Kullu):23.0, Chamba and Dalhousie:19.0
25.02.2022	Kandaghat:26.4(Solan), Karsog(Mandi):24.2, Bhunter(Kullu):21.6
27.02.2022	Rampur(Shimla):24.4, Karsog(Mandi):22.2, Bajura(Kullu)22.5

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