June 2023 Uttarakhand Disaster & Accident Synopsis (UDAS) Monthly Reports

Social Development for Communities (SDC) Foundation Dehradun, Uttarakhand

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About UDAS Monthly Reports

Uttarakhand Disaster & Accident Synopsis (UDAS) is a monthly initiative by Dehradun-based environmental action and advocacy group, Social Development for Communities (SDC) Foundation. The goal of the UDAS reports is to document disasters and accidents in Uttarakhand, leading to human and ecological casualties. UDAS is based on media reports in respectable publications in English and Hindi newspapers, as well as news portals. UDAS neither attempts nor claims to document all disasters and all accidents in Uttarakhand; its focus instead is to document major casualties and non-casualty events on a regular basis.

We strongly believe that with the perils of inclement climate and unabated disasters, the ecologically fragile and earthquake-prone state of Uttarakhand needs to take many more steps to increase its disaster preparedness. We, therefore, see UDAS as a document that highlights attention towards the urgent need of a holistic disaster management and accident minimization policy framework in Uttarakhand.

It is our earnest hope that UDAS will spur political leadership, policy makers, bureaucracy, research and academic institutions, businesses, civil society organisations, media and the citizenry at large to initiate inclusive, regular and action-oriented conversations on the subjects of resilience, mitigation and adaptation in Uttarakhand. With mainstreaming and a greater focus on the issue, there is likely to be an improvement in the process of planning of climate actions and disaster management in Uttarakhand.

Summary of Key Uttarakhand Human Casualties in June 2023:11

1. June 2023 update: Joshimath "sinking"

Locals & experts have expressed apprehension about further geological instability in the town with heavy rains during monsoon. They have raised concerns that rainwater would percolate deep into the fissures, building pressure in them and increasing the chances of geological instability. There are over 4,000 structures in Joshimath town with over 868 having developed cracks.

Atul Sati, convenor of Joshimath Bachao Sangharsh Samiti (JBSS), a citizens collective said on 2 June, 2023 that with the monsoon arrival nearing, the state government is yet to make public the report of the technical institutions. He added that they had been demanding that the authorities declare Joshimath land subsidence a national disaster, but the same has not been done.

Nain Singh Bhandari, president of Joshimath Vyapar Mandal said that earlier the government had said that 2,000 temporary structures will be built for the affected people but so far only 15 temporary structures have been built and no one has gone to live in those temporary structures. During monsoon when the town would receive heavy rainfall, there is the possibility that the situation could further worsen.

Chamoli District Magistrate Himanshu Khurana said the district administration has held preparatory meetings and all stakeholders have been told to remain alert, keeping in mind the upcoming monsoon season. According to Chamoli district administration, so far 868 structures have developed cracks with 181 being declared unsafe as on June 2, 2023.

Locals fear widening of cracks in Joshimath during monsoon

HT Correspondent

DEHRADUN: With house cracks and ground fissures in Joshi-math in Chamoli district due to land subsidence, locals and experts have expressed appre-hensions about further geologi-cal instability in the town with heavy rains during monsoon. They have raised concerns that rainwater would percolate deep into the fissures, building pressure in them and increasing the chances of geological instability.

There are over 4,000 structures in Joshimath town, with

over 868 having developed

Atul Sati, convenor of Joshimath Bachao Sangharsh Samiti (JBSS), said with the monsoon arrival nearing (monsoon arrives in the state on average by the end of the third week of June), the state government is yet to make public the report of the technical institutions.

"During monsoons rainwater can percolate down into the ground fissures and cracks, aggravating the geological dis-turbances beneath the ground in Joshimath. There are over 4,000 structures located on the ancient landslide material in Joshimath and when monsoon rains will seep into the ground on a continuous basis, we don't know how it will affect the frac-

know how it will affect the frac-tured terrain of the town. Cracks have already widened in some houses in the Singh Dhar area here," Sati said.

"The government is yet to share the data on what caused the problem here. We have been demanding that the authorities declare Joshimath land subsi-dence a national disaster but the same has not been done." he e has not been done," he

Nain Singh Bhandari, president of Joshimath Vyapar Man-



A woman (left) shows cracks in her house in Joshimath; and a local

dal, said that earlier the government had said that 2,000 temporary structures will be built for the affected people. "So far only 15 temporary structures have been built and no one has gone to live in those temporary structures. During monsoon, when the town would receive heavy rainfall, there is the possibility that the situation could further worsen."

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YP Sundriyal, a geologist Frinagar, said heavy monsoon rains can seep into ground fissures and cause further instability in the area. "The problem is not occasional rains but continuous rains during monsoons." uous rains during monsoons which can increase the pressure in the fissures," Sundriyal said. in the fissures, "Sunaryan sara," The best option at present is to keep people away from such areas. The government can't stop geological instability or heavy rains in Joshimath. They have to focus their attention on

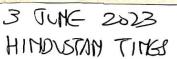
er house in Joshimath; and a local
the safety of people and take
measures accordingly."
Chamoli district magistrate
Himanshu Khurana said the
district administration has held
preparatory meetings with officials concerned and all stakeholders have been told to
remain alert, keeping in mind
the upcoming monsoon season.
"An integrated control room
has been set up here which is
keeping a tab on the developments and will respond quickly
whenever required. State Disaster Response Force and
National Disaster Response
Force personnel are also
deployed in and around Joshimath. We are not only keeping
watch on the areas where
ground fissures and cracks have
been reported, but in other
areas of the Joshimath as well.
Officials have been deputed
ward-wise who are looking into
all these aspects"
Khurana said the administra-

tion is also discouraging people from returning to their homes. Uttarakhand receives an average annual rainfall of 1162.7 mm, but Chamoli reports 1230.8 mm annual rainfall. During last year's monsoon when the state received 1128.0 mm rainfall (June -September), Chamoli was one of the two districts among the state's 13 districts, which received the highest rainfall. Chamoli received 1196.4 mm of rainfall. As a larger part of Chamoli district is situated on the southern slopes of the outer Himalayas, monsoon currents penetrate through trenched valleys, with rainfall reaching its maximum in the monsoon season that spans between June and September.
Chamoli district, where Joshimath falls, has a history of extreme rainfall events. Indian Meteorological Department IMD rainfall data for hundred years (1901-2000) show that

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Chamoli received 537.9 mm rainfall in July 2013, which was the second highest recorded rainfall in the district since 1901-2000 and 2008-2013. The maximum rainfall of 860.7 mm in the 100-year period was reported in September 1924. The February 2021 Chamoli tragedy near Raini village, which is just 20 km from Joshimath, shows how vulnerable the area is to disasters. The flash floods had killed 204 people, with only 92 bodies recoyple, with only 92 bodies recovered so far. These flash floods in Alaknanda River, flowing at the base of the Joshimath town, had eroded the toe at the base of the town, with locals claiming that it could be one of the causes of instability of Joshimath's land

According to Chamoli district administration, so far 868 struc-tures have developed cracks in Joshimath, with 181 being declared unsafe.



Construction work resumed on the key Helang-Marwari bypass after a five month gap on 5 June, 2023 according to Border Roads Organization (BRO) officials. The construction on the bypass and a nearby hydroelectric plant run by NTPC was suspended on 5 January, 2023 days after land subsidence hit Joshimath with residents blaming blasting and tunnelling work on these two projects for the cracks.

पाच माह बाद हलग बाइपास मार्ग का निर्माण

मिली अनुमित : जोशीमठ भू-धंसाव के चलते पांच जनवरी को निर्माण पर लगा दी

संवाद न्यूज एजेंसी

जोशीमठ। हेलंग बाईपास मार्ग का निर्माण कार्य करीब पांच माह बाद फिर से शुरू हो गया है।

जोशीमठ भू-धंसाव के चलते स्थानीय लोगों की मांग पर जिला प्रशासन ने पांच जनवरी को बाईपास मार्ग के निर्माण कार्य पर अग्रिम आदेशों तक रोक लगा दी थी। शासन से हरी झंडी मिलने के बाद बीआरओ (सीमा सड़क संगठन) ने सोमवार से काम शरू कर दिया है। मजदुर और मशीनों से बाईपास मार्ग का निर्माण कार्य किया जा रहा है। बदरीनाथ हाईवे पर हेलंग से



हेलंग बाईपास मार्ग के निर्माण में जुटी मशीन। संवाद

बाईपास मार्ग का निर्माण 2022 में शुरू हुआ। चीन से सटे सीमा क्षेत्र तक सेना की आवाजाही को सुगम

बाईपास के निर्माण को हरी झंडी दी। इसके लिए बीआरओ को 185 से मारवाड़ी तक 6.50 किलोमीटर

तरफ से करीब 500 मीटर सड़क बनाने के लिए पहाड़ों की कटिंग करोड़ रुपये की स्वीकृति भी दी होने से जनवरी में जोशीमठ भू-बनाने के लिए केंद्र सरकार ने हेलंग र्ए। बाईपास मार्ग पर हेलंग की धंसाव शुरू हो गया। स्थानीय लोगों ओर से दो किमी और मारवाड़ी की ने बाईपास मार्ग को भी भू-धंसाव

🦱 करोड़ का वीआरओ को

हेलंग बाईपास मार्ग का निर्माणकार्य रुकने से

बीआरओ को करीब 12 करोड़ का नुकसान

झेलना पडा। बीआरओ की कमान अधिकारी

मेजर आईना ने बताया कि निर्माण पर रोक

लगने के बाद ठेकेदार की करीब 15 मशीनें

खडी हो गई। मजदुरों को भी दुसरी जगह

शिफ्ट कर दिया गया। निर्माण कार्य ठप पड़ने

से 12 करोड़ से अधिक का नुकसान हुआ है।

झेलना पड़ा है नुकसान

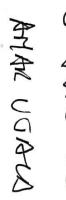
के लिए जिम्मेदार बताया। जिस पर प्रशासन ने जोशीमठ क्षेत्र के आसपास सभी निर्माण कार्यों पर रोंक लगा दी। तब से बाईपास का निर्माण कार्य लटका हुआ था।

सरकार ने आईआईटी रुडकी की ओर से सकारात्मक रिपोर्ट आने के बाद अब बाईपास मार्ग के निर्माण को स्वीकृति दे दी है। बीआरओ के कमांडर कर्नल अंकुर महाजन ने बताया कि हेलंग बाईपास मार्ग का निर्माण कार्य शुरू कर दिया गया है। मौके पर मशीनें और पर्वाप्त मजदूर भी पहुंच गए हैं। पहले दिन दीवार निर्माण का काम शुरू कर दिया गया है।







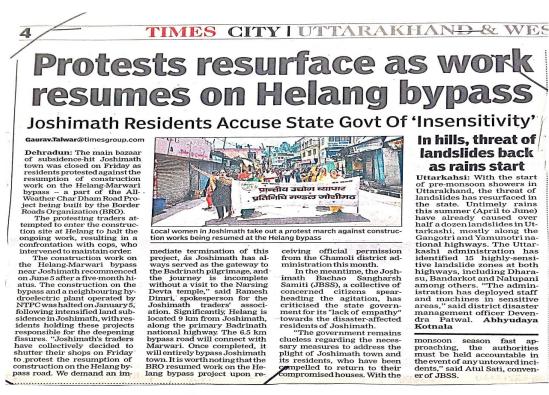


The citizens collective of JBSS has been demanding scrapping of the Helang-Marwari bypass road as well as the 520 MW NTPC hydroelectric power project on the Dhauliganga river. While stay on the second project is still in place, halt on the bypass project was ended around mid May based on reports by IIT Roorkee, PWD and the Tehri Hydro Development Corporation India Limited (THDCIL)

The residents and traders opposing the restart of the construction of the Helang-Marwari bypass road in Joshimath took out a protest march on 11 June, 2023 under the banner of Prantiy Udyog Vyapar Mandal. One of their biggest fears is that once the bypass road is

inbuilt, the pilgrims will take the same route instead of entering into the town. This will not only impact their businesses but pilgrims will also not be following the age-old traditions of stopping at Narsingh Temple on their way to Badrinath.

On 22 June, 2023; members of JBSS expressed serious concern about the safety of people residing in areas affected by land subsidence during the monsoon season. They have demanded a comprehensive package from the government and the fulfilment of promises made to the residents of Joshimath. They added that the government had agreed on 11 points, but unfortunately they have been ignored. The report on land subsidence has not been made public; and the locals have yet to receive full compensation.



24 JUNE, 2023 TIMES OF INDIA

2. 12 June, 2023: Snow avalanche hits Kedarnath valley, 6 km above temple

A snow avalanche occurred in the mountains behind Kedarnath shrine at around 8.56 AM on 12 June, 2023 although it was not as massive as the one that occurred on 8 June, 2023 in the area, said officials.

"A massive snow avalanche had hit the mountains around the Kedarnath Temple in Uttarakhand on Thursday, 8 June, 2023 but the fresh avalanche was not that big compared to the earlier one", said Anand Shukla, temple priest at Kedarnath.

A similar snow avalanche on 4 June, 2023 en route to Hemkund Sahib, the revered Sikh shrine which was opened for devotees on 20 May, 2023 had resulted in the death of one pilgrim while five of them were rescued by a team of State Disaster Relief Force (SDRF).

Earlier this year also, snow avalanches/glacier breakages have been reported in the higher Himalayan valleys.

On 3 May, 2023 Kuber glacier broke off on the 16-km Kedarnath Dham trek route, 3 km ahead of the Kedarnath shrine. SDRF personnel rescued four Nepalese porters who were trapped in the glacier breakage area. On 4 May, 2023 again a glacier broke off at Bhairav Padav, nearly 3 km ahead of the shrine in Rudraprayag district.

On 7 May, 2023 a glacier broke off in Darma Valley of Pithoragarh district blocking the road in the area. On 30 April, 2023 a snow avalanche triggered by overnight rain and a fresh spell of snow was reported near snow-clad Neelkanth peak in Chamoli district.

There are over 1000 glaciers in Uttarakhand. These glaciers, coupled with extreme local weather events and changes in terrain, can lead to lake outbursts, or lake formation due to the rockfall or landslides in the valleys or on slopes. According to experts, only around 10 or so glaciers are being monitored in Uttarakhand. The ones that are being studied include Gangotri glacier, Chorabari glacier, Dunagiri glacier, Dokriyani glacier and Pindari glaciers. One major reason is the location of these glaciers in remote snowy areas and lack of enough funding for their regular monitoring, which requires the setting of observatories, sensors and other equipment in the valleys downstream, apart from regular ground surveys.



3. 22 June, 2023 Ten killed in road accident in Pithoragarh

Ten people were killed in Uttarakhand's Pithoragarh district on 22 June, 2023 morning after the vehicle they were travelling in fell in a 500-metre-deep gorge, officials said. The victims

were on their way from Bageshwar district to a temple near Hokara in the Pithoragarh district.

Lalita Negi, media in-charge, SDRF said all ten bodies were recovered from the gorge. She said "In the morning, the local SDRF unit was informed by the District Control Room, Pithoragarh that a vehicle had fallen into a gorge near Hokara, nearly 100 km from Pithoragarh town. Immediately, the SDRF rescue teams from Askot and Kapkot left for the accident site. The rescue teams recovered all the ten bodies by 3 PM with the help of local people and handed them to the police," she said.

Negi said that upon reaching the spot, the team came to know that a Bolero vehicle had fallen into the 500-metre-deep gorge with 10 people in it. "These ten people from the Shama area of Bageshwar district were going to a temple at Hokara to offer their prayers there," she said. A villager from Hokara village said boulders and debris had fallen on the road in the area due to heavy rains last night, creating traffic bottlenecks.

Last year 1,042 people were killed in 1,674 road accidents in Uttarakhand, with an accident severity of 62.24%. Accident severity means the number of persons killed per 100 accidents.

In 2021, 820 people were killed while 1,091 were injured in 1,405 accidents, with an accident severity of 59.94. In 2020, 674 people were killed, and the injured tally stood at 854 people with an accident severity of 64.75%, while in 2018, with 1,468 accidents and 1,047 dead, the accident severity was 71.30%.

There is no let up in the road accidents despite the improvement in the condition of roads in Uttarakhand. The major cause of the accidents cited by experts is defective roads, over-speeding drunk driving, overloading, poor visibility, the inexperience of drivers, use of cell phones and defects in vehicles. One of the major reasons for road accidents in the state is the increasing traffic pressure on the roads.



4. 25 June, 2023: Death of 400 goats due to lightning

In the Kapkot Tehsil of Bageshwar district, 400 goats died after being struck by lightning on 25 June, 2023. District disaster management officer Shikha Suyal said that the goats were

struck by lightning at Jhuni Pankhutop. Personnel of Animal Husbandry and Revenue departments reached the spot and inspected the loss.

2 dead in separate incidents, 400 goats killed in lightning

Abhyudaya Kotnala & Gaurav Talwar | TNN

Uttarkashi/Dehradun/Bageshwar: With the onset of southwest monsoon, incessant rain wreaked havoc in parts of Uttarakhandon Sunday, leaving at least two persons dead and three injured.

A man, in his early 20s, identified by his first name, Abhishek, was killed and three others injured after being struck by lightning near Kandiyal village of Purola block in Uttarkashi district on Sunday. Two other villagers are critical, officials said. Purola SDM, Devanand Sharma, announced a compensation of Rs 4 lakh for Abhishek's family. Lightning strike also left an estimated 400 goats dead in Kapkot area of Bageshwar district. District disaster management officer Shikha Suyal said that the goats were found dead after a thunderstorm in Jhuni Pankhutop area of Kap kot tehsil on Saturday evening.



A crane removes the car crushed by a boulder, killing the driver

In a separate incident, a shuttle taxi driver -- plying between Gaurikund and Sonprayag near Kedarnath -- was killed after a boulder hit his vehicle and crushed it on Sunday. District disaster management officer, NK Rajwar, said that "the driver, Anil Bisht, died on the spot." Landslides triggered by incessant rains brought traffic to a halt in several parts of Garhwal. Rajwar added that the Kedarnath yatra "remained suspended for some time on Sunday."

(with inputs by Pramod Dalakoti)



TIMES OF INDIA

5. The temple sinking at Gopinath, Gopeshwar, Chamoli District

Temple sinking reports have emerged from the Gopinath Mandir that is located in Gopeshwar in Chamoli district. Vyapar Sangh members and the head priest of the temple have escalated the matter to the Archaeological Survey of India (ASI) and district authorities. ASI has refuted the tilting but agreed that some stones in the temple have been sinking and these would be replaced. Apart from this, the drainage system will be improved.

AMAR VJALA JUNG 29,2023

बदले जाएंगे गोपीनाथ मंदिरें के। धंसे पत्थर, सुधरेगा ड्रेनेज सिस्टम

संरक्षक सहायक ने विभाग को भेजी प्राथमिक रिपोर्ट

संवाद न्यूज एजेंसी

गोपेश्वर। पुरातन विभाग गोपीनाथ मंदिर के झुकने को लेकर इन्कार कर रहा है। हालांकि विभाग का कहना है कि कुछ पत्थरों के धंसने की बात सामने आ रही है। इन पत्थरों को बदला जाएगा। साथ ही मंदिर में पानी टपकने को लेकर यहां के डेनेज सिस्टम को सधारा जाएगा।

गोपेश्वर के गोपीनाथ मंदिर के हकहक्कधारियों ने पुरातत्व विभाग और जिला प्रशासन से मंदिर के झुकने को लेकर पत्र भेजा था। पुरातत्व विभाग की ओर से मंदरान्य को संख्यक सहायक को गोपेश्वर भेजा गया। उन्होंने मामले को लेकर प्राथमिक रिपोर्ट तैयार कर विभाग के उच्चधिकारियों को भेज दी है। हालांकि विभाग ने रिपोर्ट का खुलासा तो नहीं किया, लेंकिन मंदिर के झुकने की बात से विभाग इन्कार कर रहा है। विभाग इस बात को स्वीकार कर रहा है कि

विभाग मंदिर के झुकने से कर रहा इनकार, पत्थर धंसने की बात आ रही सामने



कैनोपी निकालने से बनी आशंका

इन दिनों पुरातन विभाग की ओर से मंदिर के आगे के हिस्से में लगी पुरानी लकड़ी की कैनोपी बदली जा रही है। जिसके बाद मंदिर का स्वरूप कुछ बदला नजर आ रहा है। मंदिर के जिस जगह पर पत्थर धंसने की बात सामने आ रही है वह कैनोपी के पीछे का हिस्सा है। कैनोपी निकालने से यह हिस्सा खाली हो गया।

जल्द निरीक्षण के लिए आएंगे अधीक्षण अभियंता

पुरातन विभाग के अधीक्षण अभियंता मनोज सक्सेना का कहना है कि मंदिर अपने पुराने स्वरूप में ही है। इसमें किसी तरह का कोई बदलाव नहीं हुआ है। कुछ पत्थरों के धंसने की बात सामने आ रही है। जल्द मंदिर का निरीक्षण किया जाएगा। जहां भी जरूरत होगी पत्थरों को बदला जाएगा। मंदिर के ड्रेनेज सिस्टम को भी सुधारा जाएगा। उनका कहना है कि कैनोपी निकालने के बाद मंदिर कुछ बदला नजर आ रहा है, इसलिए यह आशंका बनी है। मंदिर का पूरा निरीक्षण किया जाएगा। जो भी जरूरी होगा वह कदम उठाए जाएंगे।

मंदिर के कुछ पत्थर धंसे हुए हैं पानी आने की जांच कर ड्रेनेज जिनको बदला जाएगा। मंदिर में सिस्टम सुधारा जाएगा।

6. The sinking of Mastadi village, Uttarkashi District

After Joshimath, residents of Mastadi village in Uttarkashi district are getting alarmed as fresh cracks have appeared in numerous houses, suspected to be caused by land subsidence following heavy rain.

According to local residents, land subsidence activity had started in the region after the earthquake of 1991. Satyanarayan Semwal, the Gram Pradhan of Mastadi village, said, "It is distressing to witness fresh cracks appearing in multiple houses. We are worried about what lies ahead."

He added, "The government should take some action. At the very least, families residing in the approximately 30 severely affected houses should be relocated." A team of geologists had surveyed the village way back in 1997 and advised immediate measures to counter the issue of land subsidence. However, "no concrete action has been taken to address the problem to date", local residents said.

Devendra Patwal, Uttarkashi district disaster management officer said that they will send a team of geologists to survey the affected areas. Based on the report provided by the experts, necessary actions will be taken.



Now, cracks appear in Uttarkashi village houses

Area Witnessing Subsidence Since Earthquake In 1991, Say Locals

Uttarkashi/Dehradun:

Uttarkashi/Dehradun: After Joshimath, now residents of Mastadi village in Uttarkashi are getting alarmed as fresh cracks have appeared in numerous houses, suspected to be caused by land subsidence following heavy rain.

According to local residents, land subsidence activity had actually started in the region after the earthquake of 1991. Satyanarayan Semwal, the gram pradhanof Mastadi village, said, 'It is distressing to witness fresh cracks appearing in multiple houses. We are worried about what lies ahead."

He added, "The government should take some action. At the





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very least, families residing in the approximately 30 severely affected houses should be relocated. "A team of geologists had surveyed the village back in 1997 and advised immediate measures to counter the issue of land subsidence. However, "no concrete action has been taken to address the problem to date", local residents said.

Meanwhile, Devendra Patwal, district disaster management officer, said,

"We will send a team of geologists to survey the affected areas. Based on the report provided by the experts, necessary actions will be taken."
In addition to concerns about land subsidence, locals residing land subsidence, locals residing near the Alaknanda river, between Tripkund and Narayanpurit temple, said they are facing a threat of landslides due to the ongoing riverfront work carried ng riverfront work carried under the Badrinath master

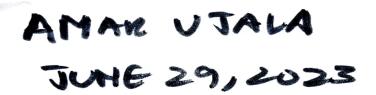
TIMES OF INDIA Jung 30,2023

7. Landslide threat on many buildings in Badrinath

With work underway on the riverfront under the Badrinath Master Plan, risks of landslides have appeared for many buildings. Land/ground is sinking below the buildings and the risks have been exacerbated due to the start of the monsoon season. The foundations of the buildings were shaken by the excavation of the riverfront, the ground slipping from under the buildings.

The Project Implementation Unit has stated that since Hari Nivas Puri is completely impacted due to landslides, it will be dismantled. In the second phase of the master plan, construction works up to 75 metres around the Badrinath temple are being demolished. Shops and houses of priests on the Badrinath old road on the Alaknanda river have been completely demolished. Here the work of the riverfront is also going on in full swing.

Houses and dharamshalas located on the banks of the river are now coming under the grip of landslides. Jamuna Prasad Raiwani, President of Master Plan Sangharsh Samiti said that 40 houses from Taptakund to Narayanpur temple have been hit by landslides. He added that excavation work is being done on the banks of the river with big machines due to which the foundations of the houses have been shaken. Though complaints have been shared many times, yet no action is being taken by state or district authorities.





About Social Development for Communities (SDC) Foundation

SDC Foundation is a Dehradun-based environmental action and advocacy group engaged in communication, citizen engagement and capacity building in the Himalayan state of Uttarakhand. The foundation works in partnership with the institutions of Government of India, Government of Uttarakhand and other stakeholders such as research & academic institutions, community groups, civil society, media partners, NGOs, businesses & trade bodies, schools & colleges in the state.

Climate and environment conservation, waste management, sustainable urbanisation and a basket of sustainable development issues are key focus areas of the foundation.

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