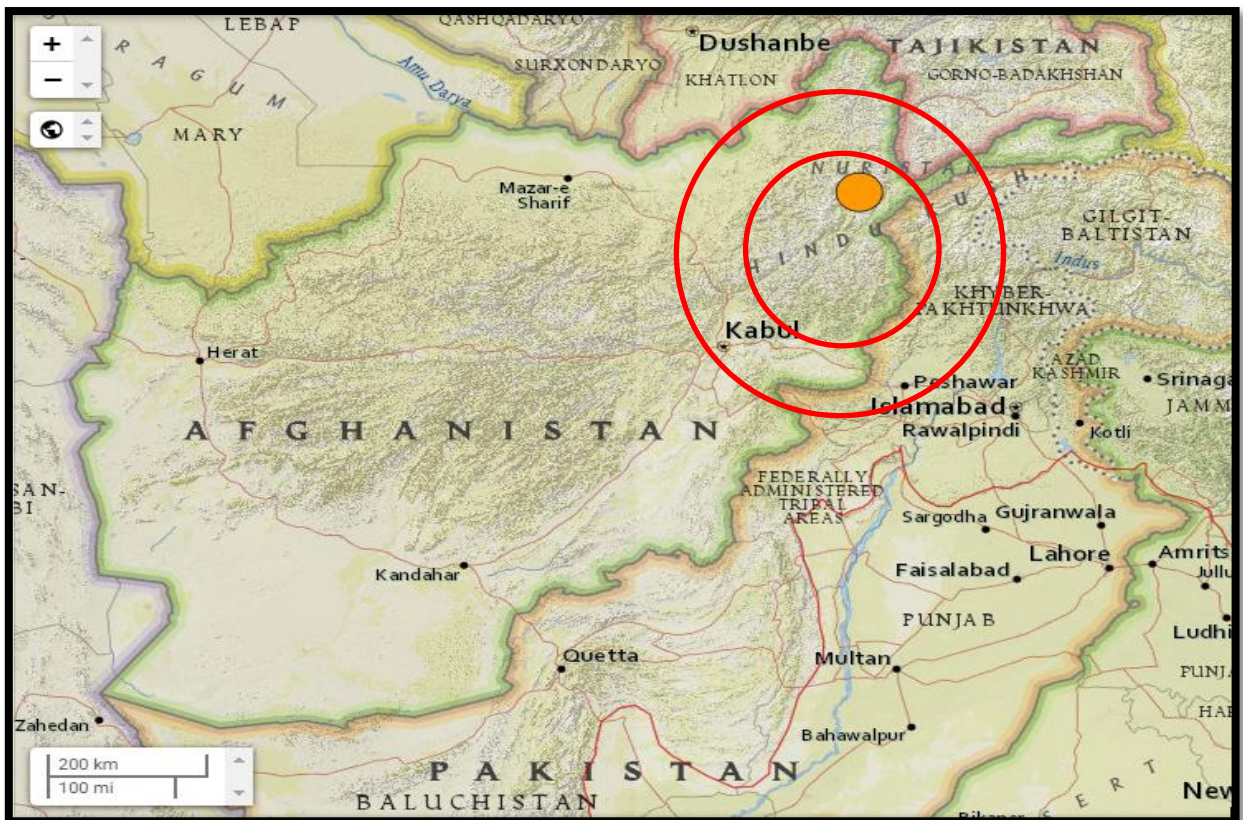


EARHTQUAKE 6.8 MAGNITUDE – HINDUKUSH REGION, AFGHANISTAN
1300HRS – 22 MARCH 2023
PRLIMINARY SITREP – NEOC

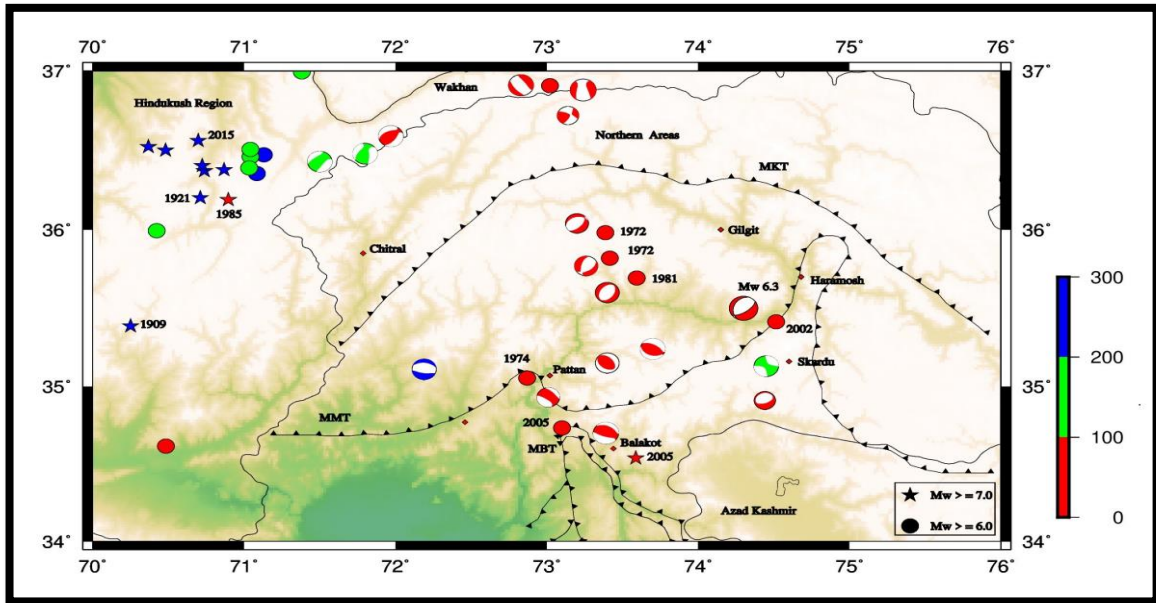
1. **General.** An earthquake of 6.8 magnitude was reported from Hindukush region of Afghanistan. Shockwaves were felt in most of the northern parts of Pakistan; including KP, GB, AJ&K, ICT and Northern Punjab with lesser degree in Northern Balochistan, central and south Punjab. The earthquake was followed by two aftershocks of 3.7 and 3.5 magnitude. The epicenter of earthquake is shown on the Map-1 below and other details are as under: -

- a. Originated on 21-03-2023 at 21:47 PST.
- b. Mag: 6.8.
- c. Depth: 181 km.
- d. Lat: 36.51 N.
- e. Long: 70.96 E.
- f. Epicenter: Hindukush Region, Afghanistan.



Map-1: Epicenter of Earthquake in Hindukush Region of Afghanistan

2. **Historical Data of Earthquakes In The Region.** As per PMD Seismic Center, the current earthquake pattern conforms with such activity in the region, recorded since 1970 and is an occurrence of Eurasian tectonic plate. In the Map-2 below, recorded data since 1970, for events greater than magnitude 6 are marked.



Map-2: Epicenter of Earthquake in Hindukush Region of Afghanistan

3. Table-1 reflects the trend of major earthquakes recorded in past 20 years. According to the recorded data an earthquake of 6.5 and greater magnitude is following a repetitive trend of 5-6 years while an event of greater than 7 magnitude is repeated approximately every 15 years.

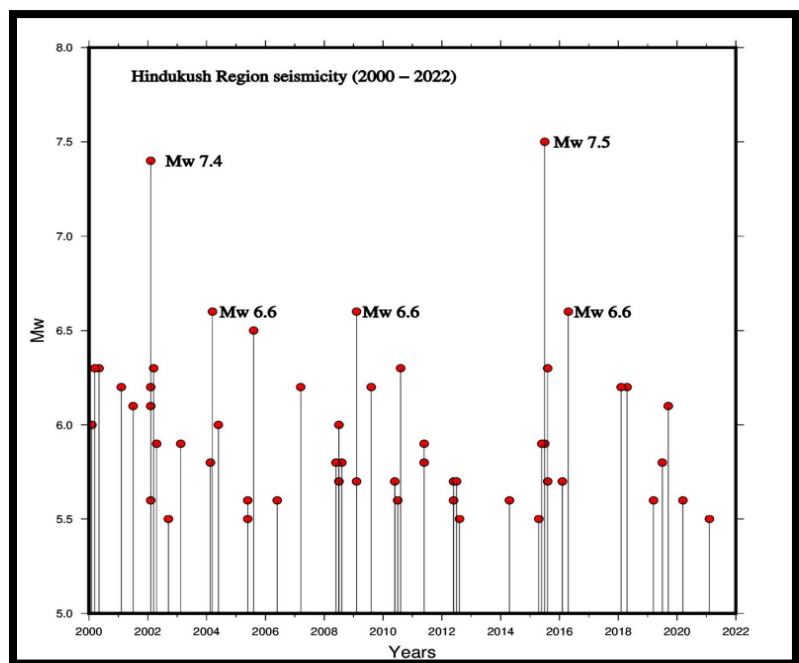


Table-1: Shows the Frequency of Earthquakes Since 2000

4. **Summary of Losses and Damages - Upto 1300 hrs 22nd March 2023: -**

Provinces	Deaths				Injuries				House Damage			Livestock	Remarks
	M	F	C	T	M	F	C	T	Partial	Full	T		
KP	5	2	2	9	17	29	12	58	26	-	26	4	
GB	-	-	-	-	-	-	-	-	2	-	2	2	
ICT	-	-	-	-	-	-	-	-	-	-	-	-	
AJ&K	-	-	-	-	-	-	-	-	-	-	-	-	
Balochistan	-	-	-	-	-	-	-	-	-	-	-	-	
Punjab	-	-	-	-	2	-	-	2	-	-	-	-	
Sindh	-	-	-	-	-	-	-	-	-	-	-	-	
Total	5	2	2	9	19	29	12	60	28	0	28	6	

NOTE: On directions of Chairman NDMA: On ground verification is being carried out and detailed reports will be submitted by all departments/ authorities to verify the reports already submitted.

5. Major Incidents from Federating Units/ Departments are enumerated below while their detailed reports are enclosed as Annexes B to F: -

a. **GB.** Following major incidents were reported from GB: -

- (1) Gilgit – Shandur Road (N-140) was blocked due to landslide near Gahkuch. GBDMA/DDMA in coordination with NHA were able to clear road and it is now open for traffic.
- (2) KKH (N-35) Attabad, Hunza Nagar at (Km 645) was blocked due to landslide which was cleared and road is now open for traffic.
- (3) Gupis: A boulder hit and damaged courtyard of under construction mosque near Gamsing RCC bridge.
- (4) Astore: Astor valley road (AVR) was closed due to landslide and clearance operation is underway to restore the closed section.
- (5) Nagar: Power supply from 200KVA community power house Kunjokushal Nagar has been suspended due to partial damage of penstock pipe, expansion joint and power channel. Repairs are underway to restore the damaged section.

b. **KP.** KKH (N-35) Chakai, Lower Kohistan at (Km 230) was blocked due to landslide which was cleared and road is now open for traffic.

c. **ICT.** Reports of cracks in apartment buildings were received, especially from E11 sector; Khudad Heights, Appolo Heights and other apartment

buildings in F-10 were surveyed by the administration and no structural damage was found. All residents were evacuated safely. No other structural collapse or endangered building is reported so far.

- d. **Pb.** Damage to commercial buildings was reported from Rawalpindi. The damage assessment has revealed that so far, no structural damage is reported from area.

6. All PDMAs/ SDMA/ GBDMA and ICT Administration are requested to undertake comprehensive damage assessment of respective areas especially of high-rise structures/ apartment buildings to ensure that there are no safety concerns. Any damaged building should only be inhabited once it is cleared from concerned authorities. NHA and FWO are requested to ensure that inspection of bridges is completed immediately to ensure safety across all communication arteries.

7. This preliminary SITREP of NDMA will be followed by a consolidated report in next 48 hours, which will be based on confirmation of damages reported, after on ground verification by respective authority/ department and certification that survey of the high rises/ apartment buildings is completed and the structures can be re-occupied without any threat to life.



(Muhammad Ali Khan)
Director (Response)
Tel No: 051-9030924
Fax No: 051-9030729

To: Secretary to Prime Minister, Prime Minister's Office, Islamabad
Director General, Pakistan Meteorological Department, Islamabad
Chairman, National Highway Authority, Islamabad
Director Generals, All PDMAs/ GBDMA/ SDMA
Joint Crisis Management Cell, Joint Staff Headquarters, Rawalpindi
Staff Duties Directorate, GHQ, Rawalpindi
Military Operation Directorate (MO-4), GHQ, Rawalpindi
Director (SOF & Marines), Naval Headquarters, Islamabad
Director (Ops), Air Headquarters, Islamabad
Deputy Commissioner, Islamabad

ID: DD ICT NDMA

Annexure A

PICTORIAL OVERVIEW OF DAMAGES REPORTED FROM DIFFERENT REGIONS

1. GILGIT BALTISTAN



Mosque Damaged Gamsing



Landslide – Ghizer Shandur Road



200KVA community power house Kunjokushal Nagar



2. **Khyber PakhtunKhawa**



Roof Collapse in Swabi

Earthquake Incident Report (22 March 2023)

Earthquake Activity

Origination Date 21-03-2023
Origination Time 21:47 PST
Magnitude: 6.8
Depth of Epicenter: 180 km
Epicenter Location: Jerm, Hindukush Region, Afghanistan
 Latitude 36.51 N
 Longitude 70.96 E

Damages on NHA Network

Sr.	Route	Districts	Location		Damages Occurred	Current Status
1	N-35	Lower Kohistan	Km 230	Chakai	Landslide	Slides Cleared, Road Open for Traffic
2	N-35	Hunza Nager	Km 645	Attabad	Landslide	
3	N-45	Chitral	Km 297	Buker Abad	Landslide	
4	N-140	Ghizer	Km 83	Gahkuch	Rockfall	

KKH (N-35) Chakai, Lower Kohistan (km 230)



KKH (N-35) Attabad, Hunza Nagar (km 645)



Landslide cleared and road is open for traffic

Gilgit – Shandur Road (N-140) near Gahkuch



Time: 22-03-2023 00:56
Note: GSR
RD 91+600



Rock fall occurred at various locations cleared and road is open for traffic





PDMA
Provincial Disaster Management Authority
Provincial Emergency Operation Center
Sector B-2 Phase-V Hayatabad, Peshawar, Khyber
Pakhtunkhwa
Phone: (091) 9219635, 9219636 Fax: (091) 9219637
www.pdma.gov.pk



No. PDMA/PEOC/SR/2023/Mar-E-21-25

Date: 22/03/2023

EARTHQUAKE REPORT 22-03-2023 AT 07:30 AM**INFRA/ HUMAN INCIDENTS**

DISTRICT	NATURE OF INCIDENT	CAUSE OF INCIDENT	HUMAN LOSSES/ INJURIES								CATTLE PERISHED	INFRASTRUCTURE DAMAGES									
			DEATH				INJURED					HOUSES			SCHOOLS			OTHERS			
			Male	Female	Child	Total	Male	Female	Child	Total		Fully	Partially	Total	Fully	Partially	Total	Fully	Partially	Total	
Mardan	Earthquake	Wall Collapse	0	0	0	0	2	0	0	2	0	0	1	1	0	0	0	0	0	0	0
Swabi	Earthquake	Roof Collapse	0	0	0	0	2	0	3	5	0	0	1	1	0	0	0	0	0	0	0
Charsadda	Earthquake	Wall Collapse	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Khyber	Earthquake	Other Damages/Room Collapse	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Bajaur	Earthquake	House Collapse	3	0	0	3	1	0	0	1	0	0	3	3	0	0	0	0	0	0	0
Buner	Earthquake	House Collapse	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	0	1	1
Lower-Chitral	Earthquake	Wall Collapse	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
Lower Dir	Earthquake	House Collapse/Wall Collapse	0	1	1	2	5	17	3	25	0	0	5	5	0	0	0	0	0	0	0
Shangla	Earthquake	Other Damages	0	0	0	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0
Swat	Earthquake	House Collapse	1	1	0	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
Abbottabad	Earthquake	Other Damages	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haripur	Earthquake	Wall Collapse	0	0	0	0	0	0	0	0	1	0	5	5	0	0	0	0	0	0	0
Dera Ismail Khan	Earthquake	Wall Collapse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Kurram	Earthquake	Wall Collapse	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0
Total(s)			5	2	2	9	19	21	7	47	2	0	19	19	0	0	0	0	2	2	

INCIDENTS DETAIL

DISTRICT	DETAIL OF INCIDENT	RESPONSE	SOURCE
Abbottabad	On 21-03-2023, due to earthquake the following incidents were reported: 1. child namely Saman Abdul Waheed d/o Muhammad Waheed constable died.		DDMU Abbottabad
Bajaur	On 21-03-2023, due to earthquake, the following incidents were reported: 1. One Male injured due to wall collapsed. 2. 1 person died due in salarzi 3. Said Munir aged 70 years got died in Barani Kandao, Khar		Rescue 1122
Buner	On 21-03-2023, due to earth quake the following incidents were reported: 1. Yar Zaman aged 75 years got died in Khar DHQ. 2. House partially collapsed in Loc Mamund. On 21-03-2023, due to earthquake the following incidents were reported: 1. Roof of a mud house of Bakht Zada r/o Gagra, Bajkata collapsed. Resultantly, Muhammad Bakht Zada got head injuries 2. Roof damaged at Mouza Dagar Dingan, one Mst. Sumaira (7 years) got injured 3. Collapse of cattle shed in Danga Maira, mandanr, one cattle perished.		Deputy Commissioner Office Buner
Charsadda	On 21-03-2023, due to earthquake 1 child got injured in Akhun Dheri, charsadda		DDMU Charsadda
Dera Ismail Khan	On 21-03-2023, The boundary wall of Police station Paharpur collapsed due to an earthquake but no human loss was reported.		Reporting Officer DI Khan Division
Haripur	On 21-03-2023, due to earthquake the following wall collapsed were reported in tehsil Khanpur: 1. Saeed s/o Hameed 2. Nawazish s/o Meer Dad 3. kamran s/o Ghulam 4. Shafiq 5. Adnan along with 1 cattle perished		Rescue 1122
Khyber	One Female injured due to room collapsed. On 21-03-2023, due to top earthquake, one person got died due to heart attack.		Rescue 1122 DDMU Khyber
Kurram	On 21-03-2023, due to earthquake, 08 were minor injured.	The injured persons were shifted to the hospital, first aid was provided, and discharged from DHQ.	DDMU Kurram
	1. 01 Female died 2. 19 persons got injured. 3. Wall Collapsed 4. 1 Child died due to trauma in adan zai On 21-03-2023, due to earthquake the following incidents were reported:		ADC (R&HR) Dir Lower

Lower Dir	1. Nora D/o Bawar khan 20 years old got minor injured in Tehsil balambat, odigram Nursing collage due to fall from roof 2. A female sumira aged 20 fell unconscious due to fear of shocks Shifted to DHQ hospital 3. Mohib s/o Habib age 55 adress Samarbagh gawar dish fall head injury shifted from Samarbagh hospital to DHQ Hospital 4. Side wall collapes, Azimullah age 22 year left leg freacture shifted from Cat D Mayar to DHQ Timergara 5. side wall collapse, Adil age 2y mouth injury shifted from Cat D Mayar to DHQ Timergara 6. Side wall collapes, Anila age 6y femer freacture shifted from Mayar cat D to DHQ Timergara	Rescue 1122
Lower-Chitral	One Female injured due to wall collapsed.	Rescue 1122
Mardan	On 21-03-2023, due to earthquake the following incidents were reported: 1. One Male injured due to wall collapsed. 2. One person injured due to stone fallen	Rescue 1122
Shangla	On 21-03-2023, due to earthquake the following injuries were reported due to trauma: 1. Noor Ullah (45 years) 2. Bakhte Saba (28 years) 3. Bakht Bibi (70 years)	Rescue 1122
Swabi	On 21-03-2023, at 9:47pm, due to earthquake the following injuries were reported: 1. Roof of the house collapsed, Resultantly Qasir s/o Anas khan got injured. 2. Dil Raz s/o Shad Ali Khan (50 years) 3. Salwa d/o Murad (5 years) 4. hamdan s/o Murad (8 years) 5. Hamad s/o Murad (4 years)	Rescue 1122
Swat	One female death due to house collapse. 100 shifted to hospital due to minor injury and trauma 1 Death reported	Reporting Officer Malakand Division

ROADS BLOCKAGE			
DISTRICT	SITUATION	RESPONSE	SOURCE
Swat	Maidan Road was blocked due to land sliding.		Reporting Officer Malakand Division

Endst. of Even No. & Date:**Copy forwarded for information to the:**

1. Minister for Information Department, Govt. of Khyber Pakhtunkhwa
2. Principal Secretary to Chief Minister, Govt. of Khyber Pakhtunkhwa
3. Secretary, Information Department, Govt. of Khyber Pakhtunkhwa
4. All Divisional Commissioners in Khyber Pakhtunkhwa
5. Coordinator PMRU, Chief Secretary Office, Khyber Pakhtunkhwa
6. The Colonel GS, 11 Corps
7. HQ 10 Corp, IS Control
8. Director Response, NDMA Islamabad
9. PSO to Chief Minister's, Khyber Pakhtunkhwa
10. PSO to Chief Secretary, Khyber Pakhtunkhwa
11. Chairman Federal Flood Commission, Ministry of Water Resources, Islamabad
12. Operation Room CPO, Peshawar
13. Incharge Tourism Information Center, Tourism Department, Khyber Pakhtunkhwa
14. PS to Senior Member Board of Revenue, Govt. of Khyber Pakhtunkhwa
15. PS to Secretary Irrigation Department, Govt. of Khyber Pakhtunkhwa
16. PS to Secretary C&W Department, Govt. of Khyber Pakhtunkhwa
17. PS to Secretary LG&R Department, Govt. of Khyber Pakhtunkhwa
18. PS to Secretary RR&S Department, Khyber Pakhtunkhwa
19. PA to Director General PDMA, Khyber Pakhtunkhwa
20. PA to Director Relief PDMA, Khyber Pakhtunkhwa
21. PA to Director Complex Emergency Wing PDMA, Khyber Pakhtunkhwa


Incharge PEOC, PDMA



GOVERNMENT OF GILGIT BALTISTAN
OFFICE OF THE DIRECTOR GENERAL GILGIT BALTISTAN DISASTER MANAGEMENT AUTHORITY (GBDMA)
 Phone: 05811-922030 Fax: 05811-920874


Earthquake Update

Reporting Date: March 22, 2023
Update Time: 1030 Hrs.

Sr. No	DISTRICT	ROAD STATUS	INCIDENT/DAMAGES REPORTED	RESPONSE	Source
1.	Gilgit	Open	No incident Reported	HR & Machinery on High Alert	AD DDMA Gilgit
2.	Ghizer	Open	Shandur Road blocked, & Sandi Yasin bridge slightly damaged. 1 cattle shed & boundary wall of a house in Phander reportedly damaged. While water channel of Power house at Bathrate Nullah got damaged. Electricity supply has been restored.	NHA machinery has been mobilized, and road is open for all type of traffic.	AD DDMA Ghizer
3.	Hunza	Open	No incident reported	HR & Machinery on High Alert	AD DDMA Hunza
4.	Nagar	Open	No incident Reported	HR & Machinery on High Alert	AD DDMA Nagar
5.	Astore	Open	Reportedly Astore valley road is blocked.	Work in Progress	AD DDMA Astore
6.	Diamer	Open	KKH was blocked at <u>Harban</u> .	Road is clear for all type of traffic.	AD DDMA Diamer
7.	Skardu	Open	No incident reported	HR & Machinery on High Alert	AD DDMA Skardu
8.	Shigar	Open	No incident reported	HR & Machinery on High Alert	AD DDMA Shigar
9.	Ghanche	Open	No incident reported	HR & Machinery on High Alert	AD DDMA Ghanche
10.	Kharmang	Open	No incident reported	HR & Machinery on High Alert	AD DDMA KMG



**AZAD GOVERNMENT OF THE STATE OF JAMMU & KASHMIR
STATE DISASTER MANAGEMENT AUTHORITY
MUZAFFARABAD**

Ph: 05822-921536, Fax: 05822-921537 www.sdmagok.pk Email: info.sdma@gmail.com



No. SDMA/Ops/492-500/2023

Date: 22-03-2023

SDMA Situation Report of Earthquake
(Dated 21-03-2023)

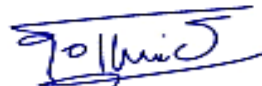
The seismic network of Pakistan Meteorological Department (PMD) has reported following earthquakes on 21st March 2023.

Sr	Region	Time	Magnitude	Depth	Latitude	Longitude
1	Hindukush Region, Afghanistan	09:47 pm	6.8	181 km	36.51 N	70.96 E

Preliminary Losses / Damages Reported

- As per DDMA Sudhnoti 02 houses are reported (partially damaged) in Tehsil Palandri, 01 cattle shed (partially damaged) and 02 cattle head are perished in Tehsil Mang District Sadhnuti

Sr.	District	Died		Injured		House Damaged		Shelter House	Shops	Cattle Head Perished	Other Losses
		M	F	M	F	Fully	Partially				
1	Sudhnoti	-	-	-	-	-	2	-	-	01 buffalo, 01 goat	01 cattle shed
Total		-	-	-	-	-	2	-	-	-	1
Grand Total		-	-	-	-	-	2	-	-	2	1


(Syed Shahid Akbar)
 Assistant Director (Operation)

Cc:

- Principal Secretary to the Prime Minister, GoAJ&K.
- PSO to the Chief Secretary, GoAJ&K.
- PS to the Secretary Relief, Disaster Management & Civil Defence, GoAJ&K.
- PS to the Secretary Information, Tourism & Information Technology, GoAJ&K.
- The Director Operations/Admin, SDMA, GoAJ&K.
- Regional Director National Highway Authority, with the request to monitor land slide situation from Kohala to Chakothei road.
- President TV Journalist Association AJK, for broadcasting on News Channels.
- Station Director AJK. Radio, Muzaffarabad for broadcasting on radio.

CONSOLIDATED REPORT OF INCIDENTS DUE TO EARTHQUAKE

Incident Date: 21-03-2023
Call Time: 2151 to 2350 hours
Vehicle Participated: 12
Motorbike Ambulance (02) RB-419, RB-453
Ambulance: (07) (RA-01, TXA-04, RA-29, RA-37, RA-40, RA-46, GKA-04)
Rescue Vehicles: (02) RR-02, RR-03
Fire Trucks: (01) RF-13

Summary of Incidents:

راولپنڈی میں زلزلے کے باعث اب تک 9 افراد متاثر ہوئے ہیں، جس پر ریسکیو 1122 ایمبولینس، ریسکیو ویکل اور فائر ویکل موقع پر پہنچی، مریضوں کو ابتدائی طبی امداد فراہم کرتے ہوئے ہسپتال منتقل کیا گیا۔

اس کے ساتھ ساتھ کمرشل مارکیٹ میں ایک نجی پلازے کی بیرونی دیوار میں معمولی دراڑیں پڑ گئی ہیں، جس پر ریسکیو 1122 ٹیم کسی بھی ناخوشگوار واقعے سے نمٹنے کیلئے موقع پر الرٹ ہے۔

Patients Shifted by Rescue 1122:

Sr. No	Call Time	Nature of Emergency	Emergency Location	Name	Age	Shifted	Injury
1	21:51	Medical (Others)	KFC Committee Chowk Murree Road, Rawalpindi	Kianat D/o Muhammad Rauf Khan	15	BBH	Dizziness due to Earthquake
2	21:53	Medical (Hypotension)	Near Sareena Hostel, 6 th Road Gulshandadan Khan, Rawalpindi	Maab D/O Shahid	23	BBH	Hypotension due to Earthquake
3	21:54	Medical (Heart Problem)	Near Nimat Masjid Haroon Chowk, Kurri Road, Rawalpindi	Shahnaz bibi W/o Habib Ur Rahman	60	RIC	Old Heart Problem Nervous due to Dizziness
4	21:55	Medical (Hypertension)	Ashyana Chowk, Allahabad Road, Rawalpindi	Farhat Yaseem W/O Babar Hussian	32	DHQ	Hypertension due to Earthquake
5	22:06	Fall (Fall from Roof)	Near Prince Hotel, 6 th Road, Metro Station, Murree Road, Rawalpindi	Zia S/o Masood Khan	17	HFH	Jump from Roof Due to Earthquake
6				Naeem S/o Tahir	21	HFH	
7	22:25	Medical (Vomiting)	Gracy Lane, near F.G school, chaklala, Rawalpindi	Sohaila W/o Ibrahim	63	RIC	Panic/ Vomiting Due to Earthquake
8	23:42	Medical (Hypotension)	Saddique Chowk, 6 th Road Maryam Girls Hostel, Near ABL Bank, Rawalpindi	Ghanwa Batool D/o Nisar	19	HFH	Hypotension & Depression due to Earthquake
9	23:50	Medical (Others)	Commercial Market Near Bin Charagh, Rawalpindi	Abdul Hadi s/o Tanveer	18	BBH	Nervous due to Earthquake

AS
(CONTROL ROOM INCHARGE)

SUBJECT: CONSOLIDATED REPORT REGARDING LOSSES/DAMAGES OCCURRED DUE TO EARTHQUAKE ON 21.03.2023.

Sr.No.	District	Losses/Damages	Remarks
1.	Bahawalpur	Nil	-
2.	Bahawalnagar	Nil	-
3.	Rahim Yar Khan	Nil	-
4.	Dera Ghazi Khan	Nil	-
5.	Layyah	Nil	-
6.	Muzaffargarh	Nil	-
7.	Rajapur	Nil	-
8.	Faisalabad	Nil	-
9.	Chiniot	Nil	-
10.	Jhang	Nil	-
11.	Toba Take Singh	Nil	-
12.	Gujranwala	Nil	-
13.	Gujrat	Nil	-
14.	Hafizabad	Nil	-
15.	Mandi Baha Uddin	Nil	-
16.	Narowal	Nil	-
17.	Sialkot	Nil	-
18.	Lahore	Nil	-
19.	Kasur	Nil	-
20.	Shiekhupura	Nil	-
21.	Nankana Sahib	Nil	-
22.	Multan	Nil	-
23.	Khanewal	Nil	-
24.	Lodhran	Nil	-
25.	Vehari	Nil	-
26.	Rawalpindi	09 injured	Minor injuries. Shifted to hospital
27.	Attock	Nil	-
28.	Chakwal	Nil	-
29.	Jhelum	Nil	-
30.	Sahiwal	Nil	-
31.	Okara	Nil	-
32.	Pakpattan	Nil	-
33.	Sarghoda	Nil	-
34.	Bhakkar	Nil	-
35.	Khushab	Nil	-
36.	Mianwali	Nil	-