

Jammu and Kashmir Pollution Control Committee

Parivesh Bhavan, Forest Complex || Silk Factory Road
Transport Nagar, Jammu, 180 006 || Rajbagh, Srinagar, 190 008
Tel - 0191-2476927; mail - membersecretaryjkpcb@gmail.com

**The Consultant Judicial,
Hon'ble National Green Tribunal,
Principal Bench,
New Delhi.**

No: JKPCC/NGT/OA 642-2024/3777-78

Date:-13-09-2024

Sub:- Compliance Report of Jammu and Kashmir Pollution Control Committee in compliance to Hon'ble National Green Tribunal directions dated 30.05.2024 passed in OA No. 642 of 2024 titled News Item titled "Land Sinking: A new environmental challenge in J&K" appearing in greaterkashmir.com dated 29.04.2024.

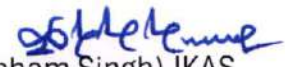
Sir,

In compliance to the directions of Hon'ble National Green Tribunal, Principal Bench, New Delhi order **dated 30.05.2024 passed in OA No. 642 of 2024**, the Compliance Report of the J&K Pollution Control Committee is submitted herewith.

It is therefore, requested that the Compliance Report may kindly be taken on record and placed before the Hon'ble NGT for consideration.

Your faithfully,

Encl:- As Above


(Ghansham Singh) JKAS
Member Secretary 13.9.24
J&K PCC

Copy to the:-

- 1) Sh. G. M Kawoosa, Additional Standing Counsel for UT of Jammu and Kashmir, New Delhi for information and necessary action.

**Before the Hon'ble National Green Tribunal
Principal Bench, New Delhi**

Original Application No. **642 of 2024**

IN THE MATTER OF

News Item titled "Land Sinking: A new environmental challenge in J&K" appearing in greaterkashmir.com dated 29.04.2024.

Compliance Report of Jammu and Kashmir Pollution Control Committee in compliance to Hon'ble National Green Tribunal directions dated 30.05.2024 passed in OA No. 642 of 2024 titled **News Item titled "Land Sinking: A new environmental challenge in J&K" appearing in greaterkashmir.com dated 29.04.2024.**

Background:

That the Hon'ble National Green Tribunal was pleased to pass following directions vide order dated **30.05.2024** in **OA No. 642 / 2024:-**

1. *"The news item raises substantial issue relating to compliance of the environmental norms."*
2. *"Issue notice to the above respondents for filing their response at least one week before the next date of hearing."*

In compliance to the Hon'ble National Green Tribunal directions dated 30-05-2024 in **OA No. 642 of 2024**, a three member committee comprising of the following officers was constituted vide this office No. JKPC / NGT / OA/642/2024/162-167; dated 13-06-2024 (**Copy enclosed as Annexure-1**),



- i) Sh. J. N. Sharma, Environmental Engineer, J&KPCC.
- ii) Sh. Anupam Kaul, JEE / TO, Regional Director, PCC, Jammu
- iii) Sh. Chander Singh Kotwal, JEE, DO, PCC, Ramban

The committee was directed to visit the affected areas and furnish a comprehensive report along with recommendations of the following Terms of Reference:

- 1) To ascertain the prime reasons for subsidence of the area and its surroundings.
- 2) Details of the developmental activities undertaken in the vicinity of the site.
- 3) The total area affected and extent of damage to the agriculture and forest land and
- 4) Water sources, if any damaged as a result of subsidence and details thereof.

Similarly, Deputy Commissioner, Ramban was also requested to share the following information vide this office letter No. JKPCC/PS/MS/174-175 dated 14-06-2024 (**Copy enclosed as Annexure-2**) :

- 1) Total area affected
- 2) Extent of damage to the agricultural and forest land; and
- 3) Developmental activities taken place at the affected site.

Furthermore, Director General, Geological Survey of India was also requested to share the following information vide this office letter No. JKPCC / T/ C/24/3418 dated 21-06-2024 (**Copy enclosed as Annexure-3**) :

- i) Soil formation data of village Pernote, Ramban and adjoining areas.
- ii) Findings of your Department / report in case of land sinking of Pernote in April 2024.

gfbone

- iii) Finding of your Department / report of village Duksar, Dalma on Sangaldan – Gool road where land sinking incident happened in the year 2022-2023.
- iv) Finding of your Department / Report of village Dhalwas, where land sinking happened in March, 2020.

The Joint Committee of the officers of J&K PCC has submitted report vide No. JKPCC/EE/Report/2024/232; dated 09-09-2024 (**Copy enclosed as Annexure-4**). Highlights of the report in respect of ToRs are briefed as below:

<p>To ascertain the prime reasons for subsidence of the area and its surroundings.</p>	<ul style="list-style-type: none"> i) The weak Geology of the area consisting of Muree formation form an alternate sequence of claystone, siltstone and sandstone (Ramban formation) where claystone is the dominant lithology. ii) There is a sparse to few vegetation cover in the area for consolidation of fragmented and loose clay soil which lacks in cohesions and cohesiveness. iii) Seepage of water oozing from number of the springs which are continuously flowing led to further loosening of land mass and is a cause of number of cracks and pasteurized material / loose material as observed along the site. iv) The dip and slip of the central portion is near the toe part of the landslide is ranging from 45 degree to 80 degree (north direction) resulting into the gradual movement of land mass from toe to the top developing shear cracks along the slope and ultimately settlement of the landmass.
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Signature

	<p>Causative factors:-</p> <ul style="list-style-type: none"> i) Prolonged rain fall before the day of land subsidence led to the settlement of soil landmass along slope having a dip of 50 to 80 degree. ii) Low conductivity of soil and its permeability results in a reduction of the share strength of the soil mass along the slope and is cause of land slide. iii) The affected area consists of alternative layers of permeable sandstone and weal and impermeable clay. The clay being inherently weak and prone to swelling, when it absorbs rainwater, increases the piezometric / pore pressure on the free face of the sloe, contributing to instability and sinking. iv) The loose unconsolidated thick overburden material on the slopes is prove to failure under unfavourable conditions such as oversaturation and different erosion.
<p>Details of the developmental activities undertaken in the vicinity of the site</p>	<p>There was no recent development activity, like construction / industry being carried out at the time of incidence.</p>
<p>Total area affected and extent of damage to the agriculture and Forest land and water sources, if any, damaged</p>	<p>Landslide extended approximately 1.25 km in length, 650 metres in width and height of about 450-500 meter covering an area of about 0.60 sqkm with damage to approximately 35 houses. The landslide also caused massive damage to key infrastructures, including 800m stretch of the Ramban-Gool road, 300m of the Pernote</p>

	<p>link road, electric poles along the 400 KV D/C Kishenpur Wanpoh III & IV transmission line, a Power Grid Station and a water supply pipeline.</p> <p>The slopes affected by landslide are covered with overburden, i.e., debris from earlier landslide, further damaging Forest and agriculture land. Terrace cultivation was all damaged. Number of natural springs were covered by debris and water was oozing from these springs. Several cracks were observed in the slope-forming material.</p>
Other Field Observations	<p>i) The slopes are covered with thick overburden material, ranging from 1m to 30m, composed of weathered rock fragments (sandstone and siltstone) clay and silt.</p> <p>ii) This material is unconsolidated, heterogenous and lacks cohesion categorised as scree, colluvium or debris from previous landslides occurred in the Pernote area in the debris of an ancient landslide.</p> <p>iii) The slopes have sparse to very sparse vegetation in patches. The affected area is part of the Chenab River basin, with the Chenab River flowing in a northwestern direction.</p>

	<p>iv) Area being part of the Chenab River basin, the natural slope is moderately dissected as evidenced by minor streamlets that have developed on the slope exhibiting a trellis to dendritic drainage pattern, which causing erosion during the high discharge rainy season and forming rills and gullies.</p>
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Copy of the report of Geological Survey of India furnished by Mr. Parveen Kumar Superintending Geologist and Mr. Surinder Lal, Senior Geologist received through email is enclosed herewith as **Annexure-5**.

The Deputy Commissioner, Ramban after obtaining necessary details from the Chief Agriculture Officer, Ramban, Executive Engineer, PWD (R&B) division, Ramban, Tehsildar Ramban, Executive Engineer, Electric Division, JPDCL, Batote, Executive Engineer, Hydraulic Division, Jal Shakti Department, Ramban and Divisional Forest Officer, Batote Forest Division, Ramban has submitted a report vide his No. DCR/Relief/2024-25/734-36; dated 05.09.2024 (**Copy enclosed as Annexure-6**). Highlights of the report are as under:

1. Total of 1200 kanal area affected which includes 400 kanal area of agricultural land, 600 kanal of Forest land and 200 kanal of State land as reported by Tehsildar Ramban.
2. Total 126.5 kanals (Cropped area with wheat folder and vegetables) of agricultural land has been affected, which amounts to 100% damage of cropped agricultural area as reported by Chief Agriculture Officer, Ramban.

3. Road constructed by PWD (R&B) during 2007-08 having total length of 6.0 km connecting upper reaches of Pernote area, Thalwa etc. was lost due to sinking of road.
4. Loss incurred to Electricity Division has been estimated to be Rs. 48.36 lacs as reported by Executive Engineer, Electric Division JPDCL Batote.
5. Main line of HDPE 50mm dia from Garole Nallah to Axra B GSR 10000 gallons was heavily damaged / washed away and water distribution system to adjoining area of Panchayat Pernote were also heavily damaged / affected due to land subsidence. However, no water source has been damaged / affected due to land subsidence.
6. Total of 82.80 ha of Forest area has been affected with subsidence of 08 numbers of Plantation units.


The Joint Committee constituted by the J&K PCC has suggested the following recommendations:-

1. Install crack monitor in houses near the most affected zones to monitor any development of ground distress in the surrounding areas.
2. Implement proper measures to divert surface runoff away from the affected or active parts of the slope.
3. Ensure that drains within the affected slope are properly lined and maintained and the domestic sewage be channelised.
4. Prohibit any new constructions, including houses cowsheds, or civil amenities, in the affected area.
5. Consider adopting bio-restoration measures by massive tree plantation to minimize soil erosion.
6. Restore action of temporary road connectivity in the affected area, consider constructing a flexible retaining structure, such as a gabion wall, along with deep drainage holes to release sub-surface water.
7. Keeping in view the extent of slope movement and its stability concerns, a detailed geological investigation should be conducted to

determine whether the road can be restored or if realignment is necessary.

Prayer:

In the premises, it is therefore respectfully prayed that the Compliance report may kindly be taken on record before the Hon'ble National Green Tribunal for consideration.


(Ghansham Singh)
Member Secretary 13-9-24
J&K PCC

Jammu and Kashmir Pollution Control Committee

Parivesh Bhavan, Forest Complex || Silk Factory Road
Transport Nagar, Jammu, 180 006 || Rajbagh, Srinagar, 190 008

Tel - 0191-2476927; mail - membersecretaryjkspcb@gmail.com

Subject: Hon'ble National Green Tribunal, Notice dated 07-06-2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greaterkashmsir.com dated 29-04-2024 – constitution of committee, thereof.

Reference: Hon'ble NGT email dated 07-06-2024.

ORDER

Whereas, the subject case has arisen out of massive land sinking at Parnote Village in Ramban District resulting into damage to the 58 houses and led to shifting of over 500 people to safer places; and

Whereas, the Hon'ble NGT, while taking Suo-Moto cognizance of the matter and hearing the case on 30-05-2024, directed for filing of response at least one week before the next hearing in the case and the case has been listed on 17-09-2024.

Now therefore, in view of the above, a Committee of the following officers of J&K Pollution Control Committee is hereby constituted to visit the affected area and furnish a comprehensive report along with recommendations: -

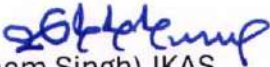
- 1) Sh. J.N. Sharma, Environmental Engineer, J&K PCC.
- 2) Sh. Anupam Kaul, JEE / TO, Regional Director, PCC, Jammu
- 3) Sh. Chander Singh Kotwal, JEE, Divisional Officer, PCC, Ramban.

Terms of References (TORs)

- 1) **To ascertain the prime reasons for subsidence of the area and its surroundings.**
- 2) **Details of the developmental activities undertaken in the vicinity of the site.**
- 3) **The total area affected and extent of damage to the agriculture and forest land.**
- 4) **Water sources, if any damaged as a result of subsidence and details thereof.**

[Handwritten Signature]

The Committee after spot visit shall furnish a comprehensive report along with photographs and specific recommendations within a week's time, positively.


(Ghansham Singh) JKAS
Member Secretary 13.6.24
J&K PCC

No: JKPCC/NGT/OA/642/2024/162-167

Date: 13-06-2024

Copy for information and necessary action to the:

1. Deputy Commissioner, Ramban.
2. Regional Director, J&K PCC, Jammu.
3. Sh. J.N. Sharma, Environmental Engineer, J&K PCC, Jammu.
4. Sh. Anupam Kaul, JEE / TO Regional Director, PCC, Jammu.
5. Divisional Officer, PCC, Ramban for information.

mailed

**Jammu and Kashmir
Pollution Control Committee**

chairman87jkspcb@gmail.com
membersecretaryjkspcb@gmail.com

0191 - 2472881, 2476925



Parivesh Bhavan, Forest Complex
Transport Nagar, Jammu, 180 006

Silk Factory Road
Rajbagh, Srinagar, 190 008

Deputy Commissioner,
Ramban.

No :- JKPC/PS/MS/ 174-175

Dt:- 14.06.2024

Subject :- Hon'ble National Green Tribunal, Notice dated 07-06-2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greaterkashmir.com dated 29-04-2024 - constitution of committee, thereof


Sir,

With regard to the above cited subject I am to convey that in OA 642/ 2024 titled "Land sinking: A new environmental challenge in J & K" appearing in greaterkashmir.com dated 29.04.2024 in suo moto hearing where Hon'ble NGT has directed to file response in the case.

In this connection you are requested to kindly share the following data with the J&K PCC, as the same is required for filing response before the Hon'ble National Green Tribunal (NGT) :-

- a) Total area affected
- b) Extent of damage to the agricultural and forest land and
- c) Developmental activities taken place at the affected site, so that committee can assess the actual situation.

Yours faithfully,


Gansham Singh KAS
Member Secretary 14.6.24

Copy to the Divisional Officer PCC Ramban for information and follow up action with DC Ramban.

**Jammu and Kashmir
Pollution Control Committee**

chairman87jkspcb@gmail.com
membersecretaryjkspcb@gmail.com
0191 - 2472881 2476925



Parivesh Bhavan, Forest Complex
Transport Nagar, Jammu, 180 006

Silk Factory Road
Rajbagh, Srinagar, 190 008

The Director General,
Geological Survey of India
Jammu Unit, Transport Nagar,
Narwal, Jammu.

No :- JK PCC/ T/C/24/ 3418

Dt :- 21.06.2024

Subject:- Hon'ble National Green Tribunal Order dated 30.05.2024 in O.A. 642/2024 titled 'Land Sinking A new environmental challenge in J&K' Appearing in greaterkashmir.com dated 29.04.2024.

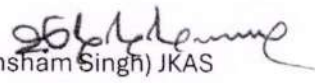
Sir,

With regard to the above cited subject, I am directed to convey that in OA 642/2024 titled 'Land Sinking A new environmental challenge in J&K' in suo moto hearing, where Hon'ble National Green Tribunal, Principal Bench, New Delhi has directed J&K PCC to file response before next of hearing.

In this connection, you are requested to kindly share the following data with J&K PCC, as same is required for filing response before Hon'ble NGT:-

- i. Soil Formation data of Village Parnote, Ramban and adjoining areas.
- ii. Findings of your department/ report in case of land sinking of Parnote in April, 2024.
- iii. Findings of your department / Report of Village Duksar, Dalma on Sangaldan - Gool road where land sinking incident happened in the year 2022-2023.
- iv. Findings of your department / Report of Village Dhalwas, where land sinking happened in March, 2020.
- v.

Yours faithfully,


(Ghansham Singh) JKAS
Member Secretary
21.6.24

Encl: NGT Order 30.05.2024
News Paper cutting



Government of Jammu and Kashmir
JK Pollution Control Committee
 Jammu

The Member Secretary,
 JK Pollution Control Committee,
 Jammu.

No:- JKPCC/EE/Report/2024/ 232

Dated:- 9-09-2024

Sub: Report on Land Sinking at Parnote-Ramban Ut Of J&K.

Ref. :- JKPCC order no. JKPCC/NGT/642/2024/162-167 dated 13.06.2024

Sir,

With reference to the subject cited above, kindly find enclosed a report of the Committee constituted vide above referred order on land sinking at Parnote-Ramban UT of J&K for information.

Encl: a/a.



Yours faithfully,

J N Sharma
 (J N Sharma) 9.9.24
 Environmental Engineer
 JK Pollution Control Committee,

Copy to PA to Chairman for information of the worthy Chairman, JKPCC, Jammu.

SC(AN)

J N Sharma
10.9.24

Item No. 09

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 642/2024

News Item titled "Land sinking: A new environmental challenge in J & K" appearing in greaterkashmir.com dated 29.04.2024

Date of hearing: 30.05.2024

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER
HON'BLE DR. AFROZ AHMAD, EXPERT MEMBER**

ORDER

1. This original application is registered *suo motu* on the basis of the news item titled "Land sinking: A new environmental challenge in J & K" appearing in greaterkashmir.com dated 29.04.2024.

2. The news item relates to the massive land sinking at Parnote Village in Ramban District of Jammu and Kashmir that destroyed more than 58 houses and led to shifting of over 500 people to safer places. As per the news item, four transmission towers besides a power receiving station and major portion of road linking Gool with Ramban town have vanished in the land subsidence. The article states that land sinking from last several years has emerged as one of the major environmental challenges in J&K. The news item highlights the plight of the people who had to see their homes and lands vanishing due to land sinking. The news item mentions that last year, a panel of the National Green Tribunal, after conducting studies had recommended banning civil construction in the land subsidence-hit area in Doda District (OA No. 93/2023). Many other areas in J&K including Budgam District, Duksar Village in Ramban District are also prone to land sinking.

3. The news item further states that increasing human activities and haphazard construction are to be blamed for triggering the soil erosion and land sinking. Massive construction activities, including road expansions and construction of tunnels in eco-fragile zones in various areas of J&K are the cause behind the abovementioned issue. It states that development of buildings and settlements on unconsolidated materials, moraines, and narrow valleys in the tectonically active zones is going on unabated. Deforestation, unscientific road construction and terracing, and encroachment on steep hill slopes have increased intensity of the landslides. The news item mentions that if these activities are conducted without Environmental Impact Assessment (EIA), these are bound to disturb eco-system. The news item discloses that Doda and Ramban Districts are among the most eco-fragile areas in J&K due to unique geoclimatic conditions. Chenab Valley housing huge dams on Chenab including Dul Hasti in Kishtwar, Baglihar in Ramban, is also prone to natural disasters. The Srinagar-Jammu National Highway frequently gets closed due to landslides, especially in Ramban district.

4. The news item raises substantial issue relating to compliance of the environmental norms.

5. Power of the Tribunal to take up the matter *suo-motu* has been recognized by the Hon'ble Supreme Court in the matter of "*Municipal Corporation of Greater Mumbai vs. Ankita Sinha & Ors.*" reported in 2021 SCC Online SC 897.

6. Hence, we implead the following as respondents in the matter:

- (1). Chief Secretary, J&K, R. No. 2/7, 2nd Floor Main Building, Civil Secretariat, Jammu-180001.

- (2). J&K Pollution Control Committee, through its Member Secretary, Parivesh Bhawan, Forest Complex, Gladni, Narwal, transport Nagar, Jammu, Jammu and Kashmir-180004.
- (3). Central Pollution Control Board, through its Member Secretary, Parivesh Bhawan, East Arjun Nagar, Delhi-110032.
- (4). Wadia Institute of Himalayan Geology Dehradun, Through its Director, 33, General Mahadev Singh Rd, Sewla Kalan, Majra, Dehradun, Shewala Kala, Uttarakhand 248171.
- (5). Govind Ballabh Pant National Institute of Himalaya and Environment, Almora, through its Director, Kosi-Katarmal, Almora-263 643, Uttarakhand, India.
- (6). Ministry of Environment, Forest and Climate Change, Regional Office, IWDP Complex, Gladin, Narwal, Near J&K Pollution Control Board, Jammu 180006.
- (7). District Magistrate, Ramban, District Administration Complex Maitra, Ramban, J&K.

7. Issue notice to the above respondents for filing their response at least one week before the next date of hearing.

8. List on 17.09.2024.

Prakash Shrivastava, CP

Arun Kumar Tyagi, JM

Dr. Afroz Ahmad, EM

May 30, 2024
Original Application No. 642/2024
DV

Jammu and Kashmir Pollution Control Committee

Parivesh Bhavan, Forest Complex || Silk Factory Road
Transport Nagar, Jammu, 180 006 || Rajbagh, Srinagar, 190 008

Tel - 0191-2476927; mail - membersecretaryjkspcb@gmail.com

Subject: Hon'ble National Green Tribunal, Notice dated 07-06-2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greaterkashmsir.com dated 29-04-2024 – constitution of committee, thereof.

Reference: Hon'ble NGT email dated 07-06-2024.

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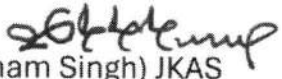
- 1) Sh. J.N. Sharma, Environmental Engineer, J&K PCC.
- 2) Sh. Anupam Kaul, JEE / TO, Regional Director, PCC, Jammu
- 3) Sh. Chander Singh Kotwal, JEE, Divisional Officer, PCC, Ramban.

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- 4) Water sources, if any damaged as a result of subsidence and details thereof.

[Handwritten Signature]

The Committee after spot visit shall furnish a comprehensive report along with photographs and specific recommendations within a week's time, positively.


(Ghansham Singh) JKAS
Member Secretary 13.6.24
J&K PCC

No: JKPCC/NGT/OA/642/2024/162-167

Date: 13-06-2024

Copy for information and necessary action to the:

1. Deputy Commissioner, Ramban.
2. Regional Director, J&K PCC, Jammu.
3. Sh. J.N. Sharma, Environmental Engineer, J&K PCC, Jammu.
4. Sh. Anupam Kaul, JEE / TO Regional Director, PCC, Jammu.
5. Divisional Officer, PCC, Ramban for information.

**Jammu and Kashmir
Pollution Control Committee**

chairman87jkspcb@gmail.com
membersecretaryjkspcb@gmail.com
0191 - 2472881, 2476925



Parivesh Bhavan, Forest Complex
Transport Nagar, Jammu, 180 006

Silk Factory Road
Rajbagh, Srinagar, 190 008

ARA

Deputy Commissioner,
Ramban.

Dt:- 14.06.2024

No :- JKPC/PS/MS/174-175

Subject :- Hon'ble National Green Tribunal, Notice dated 07-06-2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greaterkashmir.com dated 29-04-2024 - constitution of committee, thereof'

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- b) Extent of damage to the agricultural and forest land and
- c) Developmental activities taken place at the affected site, so that committee can assess the actual situation.

Yours faithfully,

Gansham Singh KAS
Gansham Singh KAS
Member Secretary 14.6.24

Copy to the Divisional Officer PCC Ramban for information and follow up action with DC Ramban.

37
124



Union Territory of Jammu and Kashmir

OFFICE OF THE DEPUTY COMMISSIONER RAMBAN

Tel No.01998266789

Fax No. 01998-266906

Member Secretary
J&K Pollution Control Committee,
Jammu.

Sub: Hon'ble National Green Tribunal, Notice dated 07.06.2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greater Kashmir.com dated 29.04.2024-constitution of committee, thereof.

Ref: Your Office Communication No. JKPC/PS/MS/174-75 dated 14.06.2024

Sir,

Kindly refer to the subject and reference captioned above. In this connection, I am directed to submit the requisite information in respect of District Ramban (copy enclosed) for onward submission to the higher authorities.

Yours faithfully,

**Assistant Commissioner,(Rev)
Ramban**

~~EE~~
20/06/24
13.8.24.

No. DCR/Relief/2024-25/378-B1

Dated: 25.06.2024.

Copy to:

- 1. Divisional Officer PCC Ramban, for information.
- 2. Addl. Deputy Commissioner, Ramban for information.
- 3. PA to Deputy Commissioner Ramban for information to the Deputy Commissioner.

St. Anupam Kaul (Member Council)
D. Pradyumn Singh

adl
17/8/24



GOVT OF INDIA
UNION TERRITORY OF JAMMU & KASHMIR
DEPARTMENT OF AGRICULTURE PRODUCTION AND FARMERS WELFARE
OFFICE OF THE CHIEF AGRICULTURE OFFICER RAMBAN
Email ID: caoramban@gmail.com



Addl. Deputy Commissioner,
Ramban.

No: PLS/CAO/Rbn/2024-25/ 1004-05.

Dated: 24 Jun 2024

Sub: Hon'ble National Green Tribunal, Notice dated 07.06.2024 in OA No 642/2024 titled "Sinking: A new environmental challenge in J&K" appearing in greater Kashmir.com dated 29.04.2024 constitution of committee, thereof.

Ref: Your office letter No DCR/Relief/2024-205/370-77 dated 21.06.2024.

Sir,

Apropos to the subject and reference cited above, the desired information regarding the subsidence of crop wise Agriculture land at village Pernote is hereby mention below:-

S No	Crop	Total Area effected	Extent of damage Agriculture Land
1.	Wheat	83K 05M	100%
2.	Fodder	29K 06M	
3.	Vegetables	13K 14M	
Total		126K 05M	

Yours Sincerely

(Signature)
24.06.24
(Ram Gopal Sharma)

Chief Agriculture Officer
Ramban

Copy to: -

1. District Development Commissioner, Ramban for favour of kind information please.



**OFFICE OF THE EXECUTIVE ENGINEER PWD(R&B) DIVISION
RAMBAN**

The Addl. Deputy Commissioner,
Ramban.

No:- EE/R&B/RBN/3065-67 Dated: 24-06-2024

Subject: Hon'ble National Green Tribunal Notice dated 07.06.2024 in OA No 642/2024 titled "land sinking: a new environmental challenge in J&K" appearing in greater Kashmir.com dated 29-04-2024- constitution of committee, thereof.

Ref: Your office letter No: DCR/Relief/2024-25/370-77 Dt 21-06-2024.

Sir,

Kindly refer to your office letter No cited above in this connection the details sought regarding "Development activities taken place at the affected site" in respect of this Division is given as under:

S.No	Agenda	Reply
3	Developmental activities taken place at the affected site, so that committee can assess the actual situation in respect of PWD(R&B) Division Ramban	The PWD road viz Pernote to Thalwa was constructed by this Department during 2007-08 having a total length of 6.00 kms (BT status) connecting upper reaches of Pernote area, Thalwa etc effected due to sinking of land in Km 3 rd RD 100-500 due to which the road connectivity has been lost in the above said areas.

Hence report is submitted for kind information please.

Yours faithfully

Executive Engineer

PWD(R&B) Division Ramban

Copy to the:-

District Development Commissioner Ramban for favour of kind information
please
HA/CC



GOVERNMENT OF JAMMU AND KASHMIR (UT)
OFFICE OF TEHSILDAR RAMBAN

Email: tehsildar-ramban@jk.gov.in

Addl. Deputy Commissioner,
Ramban

No: TR/OQ/2024-25/Misc/ 346-47

Dated: 24.06.2024

Subject: Hon'ble National Green Tribunal, Notice dated. 07.06.2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greater Kashmir.com dated. 29.04.2024 - constitution of committee, thereof.

Ref: Office Communication No. DCR/Relief/2024-25/370-77 dated. 21.06.2024

Sir,

Your good self's kind attention is invited towards the above-captioned subject. In this connection, the requisite information is tabulated as under:

S.No.	Point	Reply
1	Total Area Affected	1200 Kanal
2	Extent of damage to the agricultural land	400 Kanal
3	Extent of damage to the forest land	600 Kanal (Forest land) + 200 Kanal (State land)- Total- 800 Kanal.
4	Developmental activities taken place at the affected site, so that committee can assess the factual position	Does not pertain to this office.

Hence report is submitted for kind information please.

Yours faithfully,


 Tehsildar
 Ramban

Copy to:

1. PA to Deputy Commissioner, Ramban for kind information of Deputy Commissioner.

ضلع عالی

گزارش خدمات صیقلیہ سرکار ضلع بالا سربراہی
 DCR/Relief/2024-25/370-77 Dated 21-06-2024
 ایوارڈ لسٹ افغان زراعتی دستکارت دافع حریف ایوارڈ ایوارڈ
 دھن زمین بیل ہے۔

پیر صیقلیہ سرکار 25 اپریل 2024 کو حریف ایوارڈ میں اچانک
 زمین دھن لکھنے کا سلسلہ شروع ہوا = حریف ایوارڈ میں زراعتی
 دستکارت کو افغان ایوارڈ دھن زمین ہے

(I) حریف ایوارڈ میں کل رقم 200 لاکھ / دھن ایوارڈ میں
 400 لاکھ کل رقم زراعتی ہے =

(II) کل رقم سرکار 200 لاکھ دستکارت 200 لاکھ یعنی زمین لکھنے / دھن
 سے تباہ سرکار ہے =

بذرا حریف بڑا ہرگز مناسب گزارش خدمت ہے

24/6/2024

Remiz Raja Ghani
 P/H Permatang

Office of the Executive Engineer
Jammu Power Distribution Corporation Ltd. (JPDCCL)
Electric Division, Batote

Email: jk.pdd.ramban@jk.gov.in, pddbatote@gmail.com Website: www.jkpdd.gov.in

Telephone No: 01998 -244231 Fax: 01998 -244231

CIN No:- U40300JK2013SGC003898

**District Development Commissioner,
Ramban.**

NO.ED/BTT/ 436-39


Dated 27/4/2024

Sub. Damage Report as on 25.04.2024 due to Sinking of Land Kanga (Ramban)

Sir,

As desired kindly find enclosed herewith information regarding the Damaged Report due to Sinking of Land at Village Kanga (Ramban) as on 25.04.2024 an Amount to Rs 48.36 Lacs as per prescribed format in respect of this division for favour of further necessary action at your end please.

Yours Faithfully


Executive Engineer,
Electric Division JPDCCL
Batote


Copy to the.

1. Chief Engineer, Distribution JPDCCL, Jammu for Kind Information.
2. Superintending Engineer Circle Batote JPDCCL for Kind Inf. .
3. Assistant Executive Engineer Sub Division JPDCCL Ramban for Inf.

DETAIL OF DAMAGES DUE TO SINKING OF LAND AT KANGA (RAMBAN) AS ON 25.04.2024 IN RESPECT OF ELECTRIC

DIVISION Batote

S.NO	Name of Sub-Division	Name of Receiving Station	Name of Feeder	ST Poll 9 mtr (Nos)	LT Poll 8 mtr (Nos)	Weasel Cond. KM	HT Poll tided Nos	LT Poll tided Nos	Sub Station of Transformer complete Damaged	Disc Insulator Nos	Shackle Insulator Nos	Pin Insulator Nos	11KV Horn Gap Switch/11K V G.O Set/Link Set/LA Station	Guy Rod Nos
1	SD-Ramban	Kanga (3.15 MVA)	Pernot	12	65	30	30	40	2 Nos 25 KVA 63 KVA	30	200	36	5	40
2			Gandhari	30	8	12	20	30	0	90	32	90	3	25
3			Tanger	8	5	8	25	25	0	24	25	24	2	20
			Total	50	78	50	75	95	0	144	257	150	10	85
		Rate		15789	10984	36612	700	500	2.52+3.99	506	50	211	6000	5137
		Gross Amount		789450	856752	1830600	52500	47500	651000	72864	12850	31650	60000	431508
													4836674.00	
													Say Rs.	48.36 Lacs


 Executive Engineer
 Electric Division JPDCL
 Batote

GOVERNMENT OF JAMMU AND KASHMIR
OFFICE OF THE EXECUTIVE ENGINEER JALSHAKTI (HYDRAULIC) DIVISION
RAMBAN
E-mail ID: - hydlysramban@gmail.com

Addl. Deputy Commissioner
Ramban

No: - JS/HYD/D/R/1992

Dated: - 24-06-2024.

Subject: - Hon'ble National Green Tribunal, Notice dated 07-06-2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greater Kashmir com dated 29-04-2024 reply thereof.


Reference: - Your office letter no. DCR/Relief/2024-25/370-77 Dated: - 21-06-2024.

Sir,

In reference to the above cited subject and reference It is submitted that work of laying and fitting of G.I/HDPE pipes, construction of GSRs and SSFPs under various JJM Schemes is undergoing in the vicinity of effected area. Furthermore, due to subsidence of Land in Pernote area Gravity main line of HDPE 50mm dia from Garole Nallah to Axra B GSR 10000 gallons was heavily damaged and distribution system from Axra B reservoirs (Old and new) to adjoining area of Panchayat Pernote A were also heavily damaged/washed away. Also it is submitted that no water source has been damaged/effected due to land subsidence.

The report is Submitted for your kind perusal and necessary action please.

Yours Faithfully,


(Er. Rajeev Ghai)
Executive Engineer
Jal Shakti Hydraulic Division
Ramban.



GOVT OF JAMMU & KASHMIR
OFFICE OF THE DIVISIONAL FOREST OFFICER, FOREST DIVISION BATOTE
Tel/Fax- 01998-244981/244224 email- dfo-batote@jk.gov.in, dfobatote@d, dfobatote711@gmail.com

The Deputy Commissioner
Ramban

No. DFO/BTT/24-25/ 1221-22

Dated :- 25/06/2024

Subject:- Hon'ble National Green Tribunal, Nootice dated 07.06.2024 in OA No. 642/2024 titled "Land Sinking : A new environmental challenge in J&K" appearing in greater Kashmir.com dated 29-04-2024 constitution of committee, thereof.

Reference:- Your office No. DCR/Relief/2024-25/370-77 dated 21-06-2024

Sir

On the above captioned subject and reference, it is submitted that as reported by the concerned Range Officer Gandhri vide his No. 194/GR dated 25-06-2024, the requisite information in respect of Batote Forest division is reproduced as under :-

S.No.	Point	Reply
1	Total area affected	Pertains to higher authorities.
2	Extent of damage to the agriculture and forest land	82.80 Hectare forest area affected
3	Developmental activities taken place at the affected site, so that committee can assess the actual position.	08 Nos of plantation units established under various schemes are sunk under the slide.

Hence submitted for favour of information and necessary action at your end please.

Yours faithfully,

(Signature)
(Abinav Ramyotra) SFS
Divisional Forest Officer
Batote Forest Division
Batote

Copy to Range Officer, Gandhri for information. This is in reference to his aforementioned letter

A-1

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24.29.04.2024

Land sinking: A new environmental challenge in J&K

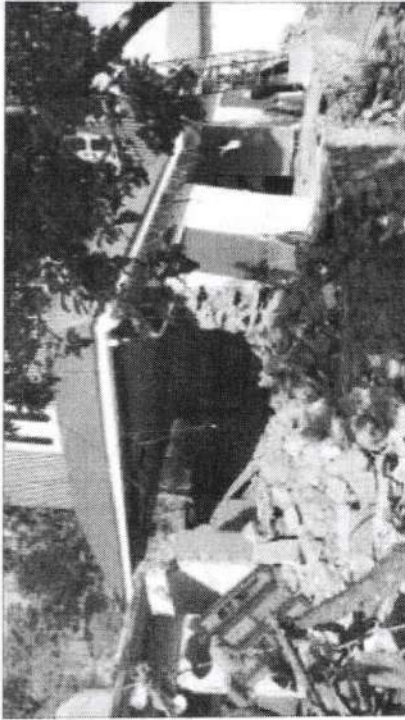
Conduct EIA and strictly adhere to SOPs before executing developmental projects in eco-fragile areas



Eco-Watch

Arif Shafi Wani

arifscribe@gmail.com



Massive land sinking at Parnote village in Jammu's Ramban district has wreaked havoc in the picturesque mountainous region. So far 58 houses have been destroyed due to land subsidence in the last three days and more than 500 people have been shifted to safer places.

Four transmission towers besides a power receiving station and major portion of road linking Gool with Ramban town have vanished in the land subsidence. The miseries of the inhabitants continue as there is no let up to land sinking. Imagine their pain when they see their houses and agricultural fields vanishing! It is like a nightmare.

A team of geologists has been conducting surveys of the

affected area, and have taken soil samples for tests. Land sinking from last several years is emerging as one of the major environmental challenges in J&K. In February last year, cracks in several houses in the hilly Nai Basti area of Thathri in Doda district of Jammu created panic among the residents. The situation was linked with Joshimath, a hilly town in north Indian state of Uttarakhnad a few months ago where over 1000 houses cracked, crumbled, and caved in, rendering dozens of families homeless.

Last year, a panel of the National Green Tribunal, after conducting studies had recommended banning civil construction in the land subsidence-hit area in Doda

district. The NGT's directive was based on a report of a nine-member panel headed by Chief Secretary which gave a slew of recommendations to prevent land subsidence. Last year, Duksar village in Ramban district also witnessed land subsidence causing extensive damage to houses.

Many areas in J&K including in Budgam district in Kashmir are prone to land sinking. Experts mince no words to blame increasing human activities and haphazard constructions for triggering soil erosion and land sinking. We have been witnessing massive constructional activities including road expansions and construction of tunnels in eco-fragile zones in various areas of

J&K. If these activities are conducted without Environmental Impact Assessment (EIA), these are bound to disturb eco-system! Doda and Ramban districts are among the most eco-fragile areas in J&K due to unique geoclimatic conditions. The twin districts are prone to earthquakes, landslides and land sinking. Chenab Valley housing huge dams on Chenab including Dul Hasti in Kishtwar, Baglihar in Ramban, is also prone to natural disasters. The Srinagar-Jammu National Highway frequently gets closed due to landslides, especially in Ramban district. Experts said that the landslides are triggered mainly due to construction works and use of heavy machines.

Experts have been shouting that Himalayas are one of the most fragile ecosystems and need adequate safeguards against the onslaught to protect their fragility. Notwithstanding the calls, development of buildings and settlements on unconsolidated materials, moraines, and narrow valleys in the tectonically active zones is going on unabated.

For full text visit [greaterkashmir.com](https://epaper.greaterkashmir.com)

Author is Executive Editor, Greater Kashmir

Full Page (https://)

About

**A REPORT ON LAND SINKING
AT
PARNOTE-RAMBAN
UT of J&K**



J&K Pollution Control Committee

2024

CONTENT TABLE

S.No	Item	Page No.
1.0	Introduction	1
1.1	Seismicity of the area	1-2
1.2	Background Incident of land sinking	2-3
2.0	JKPCC constituted Team	3
2.1	Terms of Reference (TORS)	3
3.0	Observation of the committee during the visit at site	3-4
3.1	Extent of damage to agricultural & Forest Land & Water source	4
3.1.1	Photographs of the site	4-9
3.2	Field Observation of the site	10
3.3	Developmental activities in the area	10
3.4	Reasons of subsidence of the area & surroundings	10-11
4.0	Recommendations	11-12
	Annexure: Report in greaterkashmir.com dated 29-04-2024 Hon'ble NGT order dated 30-05-2024 JK PCC Committee Order dated 13-06-2024 Member Secretary, JKPCC Letter dt. 14.06.2024 Deputy Commissioner, Ramban Letter dt.25.06.2024	A-1 A-2 A-3 A-4 A-5

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1.0 Introduction:

The village Parnote which is affected area is in Ramban district, UT of J&K, India. And its geo-coordinates are **(33°14'32.46"N, 75°12'28.76"E)**. The area of Ramban is located on the Chenab River's banks in the Chenab Valley along National Highway-1A (now NH-44) and it lies approximately 120 km from Jammu and 130 km from Srinagar. The average elevation of Ramban district is about 747 meters (3792 feet). The district is bordered by Patnitop to the south, Assar to the east, Gool to the west, and Banihal to the north. The ongoing conversion of the Jammu-Srinagar National Highway to four lanes will likely enhance connectivity and development in the area.

- **Administrative Divisions:** The district includes seven Tehsils: Banihal, Khari, Pogal Paristan, Ramban, Rajgarh, and Gool. It also comprises four community development blocks: Banihal, Gool, Ramban, and Ramsoo.
- **Population:** According to the 2011 census, Ramban town has a population of 3,596, with 1,873 males and 1,723 females.
- **Panchayats:** There are 142 panchayat halqas in the district.

1.1 Seismicity of the area

The fact that Parnote, Ramban lies in Seismic Zone IV, as per the seismic zonation map of India (IS-1895, part-2), is indeed significant. Seismic Zone IV is characterized by a high level of seismicity, where earthquakes of magnitude 7 or higher are anticipated. This classification underscores the region's vulnerability not only to landslides but also to potentially devastating seismic events.

Given this high seismic sensitivity, the recent landslide incident in Parnote is a reminder of the compounded risks in such areas. The interaction between seismic activity and landslides is particularly concerning because earthquakes can trigger landslides, especially in regions with pre-existing geological weaknesses.

This emphasizes the need for:

1. **Seismic-Resistant Infrastructure:** Construction practices in this region should strictly adhere to seismic-resistant standards to minimize damage during earthquakes.

2. **Geotechnical Surveys:** Detailed geological and geotechnical surveys should be conducted to assess the stability of slopes and the risk of landslides, particularly in the wake of seismic activity.
3. **Emergency Preparedness:** Enhanced disaster preparedness and response plans are essential, including community awareness programs about the dual risks of earthquakes and landslides.
4. **Monitoring Systems:** Implementation of early warning systems for both seismic activity and landslides could provide critical time for evacuation and other emergency measures.

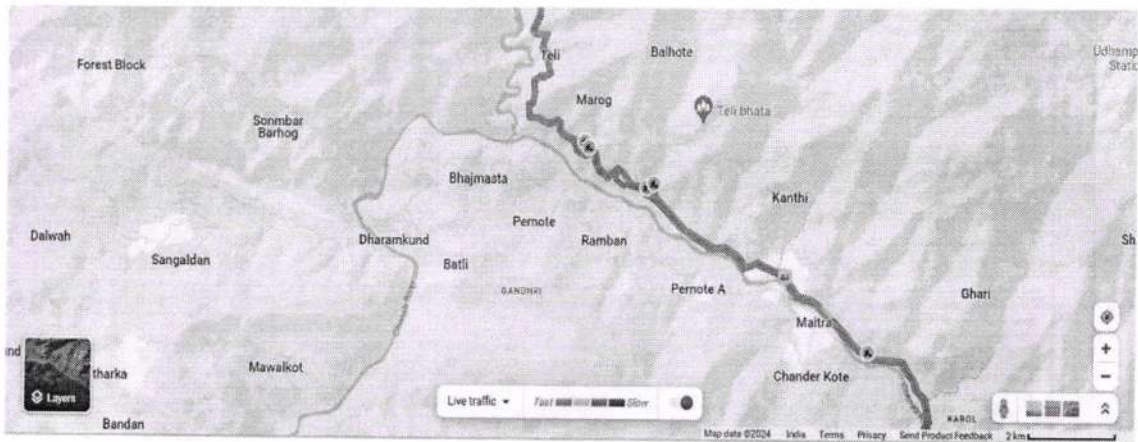
The combination of high seismic sensitivity and recent land instability makes this area particularly hazardous, warranting careful attention from both local authorities and residents.

1.2 Background of Incident of land Sinking:

This incident of land-sinking occurred on **25th April, 2024** in Parnote village, Ramban district, Jammu and Kashmir, having geographical coordinates (**33°14'32.46"N, 75°12'28.76"E**). This area, located about 120 km from Jammu and 5 km from Ramban, is part of a region known for its challenging terrain and susceptibility to landslides, especially during the rainy season or after seismic activity.

The landslide in the area occurred due to sinking of land which has caused extensive damage to the area including infrastructure, homes, roads, 400 KV power transmission line, four transmission towers, a power grid station and a water supply pipeline, damage to approximately 35 houses, sections of the Ramban-Gool Road, the Parnote village link road. As reported by the local administration of Ramban whose officials also accompanied the team that the prompt relocation of approximately 55 families is done by the local administration and saved lives, as in effective disaster response measures.





2.0 JKPPCC Constituted Team: -

In compliance to Hon'ble NGT directions, JKPC authorities issued Order No. JKPC/NGT/OA/642/2024/162-167 dated 13-06-2024, whereunder a committee of technical officials was constituted to assess the landslide-affected area. The committee comprised of following officers

Shri J.N. Sharma, Environmental Engineer, JKPC (Technical Head);

Shri Anupam Kaul, Technical Officer, Regional Office PCC, Jammu;

Shri Chander Singh, Divisional Officer, PCC Ramban.

The committee was directed to visit the affected area and submit a comprehensive report along with recommendations.

2.1 Terms of References (TORs):

- i) *To ascertain the prime reasons for subsidence of the area and its surroundings.*
- ii) *Details of the developmental activities undertaken in the vicinity of the site.*
- iii) *The total area affected and extent of damage to the agriculture and forest land.*
- iv) *Water sources, if any damaged as a result of subsidence and details thereof.*

3.0 Observation of Committee during visit at site: -

In compliance to above referred JKPC order, the committee constituted inspected the affected site on **24.06.2024** and observations made are here as under: -

(Handwritten signature)

3.1 Extent of damage to Agriculture & Forest land and Water Sources.

The committee observed that on the evening of **April 25th, 2024**, a massive landslide struck Parnote village in the Ramban district of Jammu and Kashmir, causing extensive damage. The committee observed that the landslide extends approximately ± 1.25 km in length and ± 650 meters in width, with a height of about 450-500 meters covering **an area of about 0.60 sq km has caused significant destruction, with damage to approximately 35 houses along the affected slope length.**

The landslide also impacted key infrastructure, including an 800-meter section of the Ramban-Gool Road, a 300-meter portion of the Pernote link road, electric poles along the 400 KV D/C Kishenpur Wanpoh III & IV transmission line, a power grid station, and a water supply pipeline.

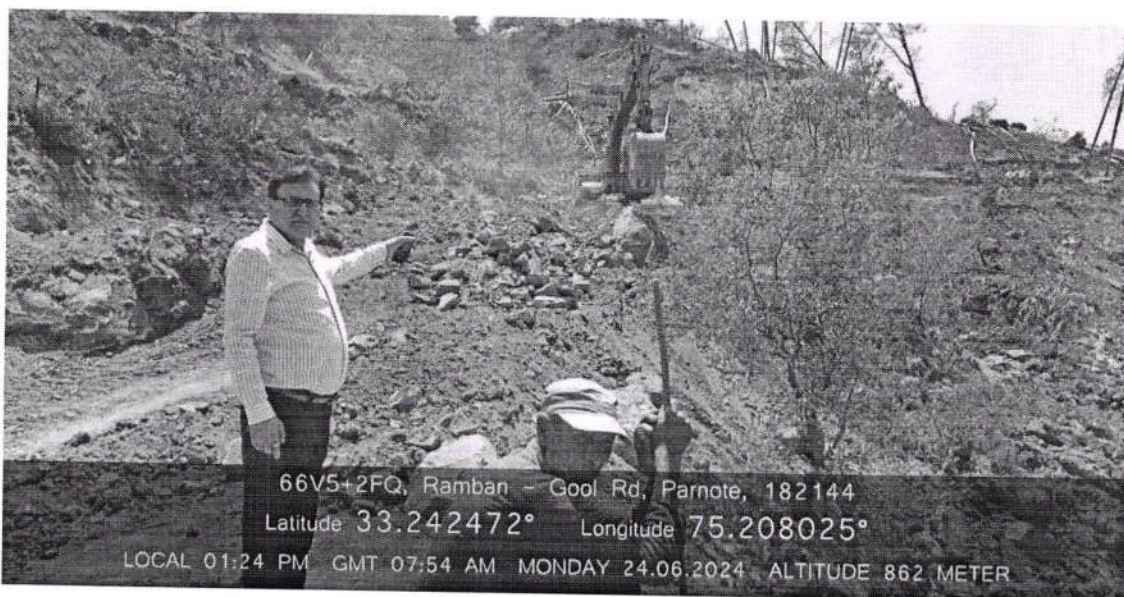
The slopes affected by the landslide are covered with overburden material, primarily consisting of debris from landslides. Several cracks were seen developed in the slope-forming material, further damaging agricultural and forest land. The orientation of these cracks varied across the slope, with transverse cracks striking between NW-SE and E-W, while longitudinal cracks trended NE-SW and N-S. These cracks were observed to vary locally as the slope aspect changed, with dimensions ranging from a few centimetres to 30 centimetres in width and a few meters to tens of meters in length. **It is observed that slopes have sparse vegetation patches. The Committee observed number of natural springs (4-5) oozing water, which were covered by debris and water was seeping down the slopes. Terrace cultivation is also observed during the inspection and found damaged.**

Photographs of the affected area:



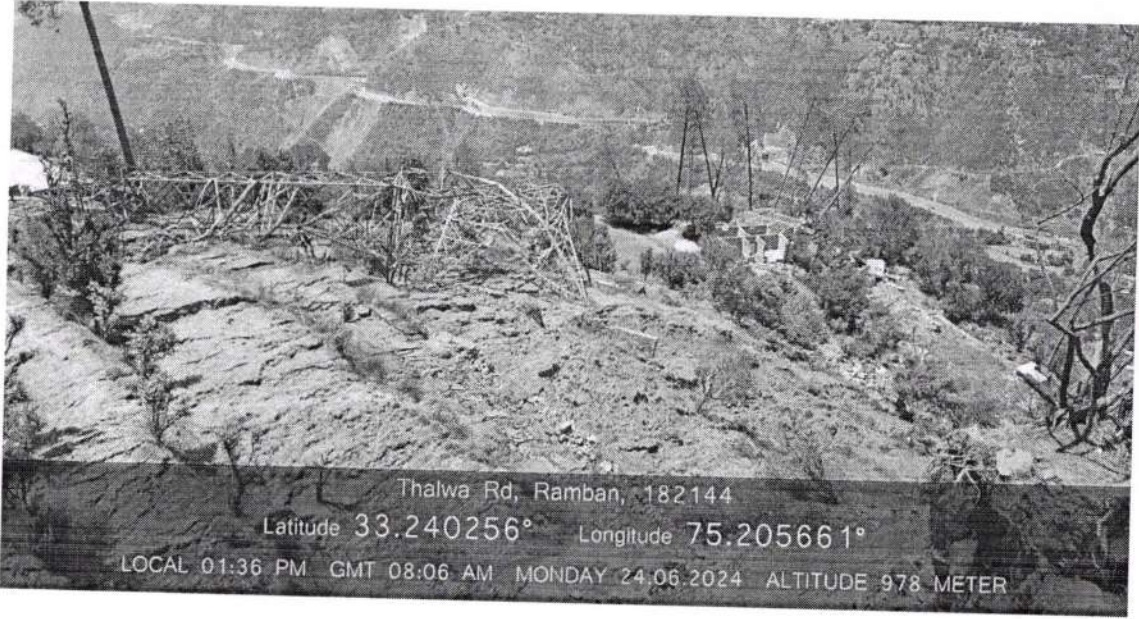


Pic-1: JKPCC Committee along with representatives of District Administration Ramban.



Pic-2 Land Sinking at Ramban-Gool Road at Parnote.

CSH



Pic-3 Damaged Transmission line Tower.



Pic-4: Damaged Parnote-link Road at Parnote.

CSH



Pic-5: Damaged Houses.

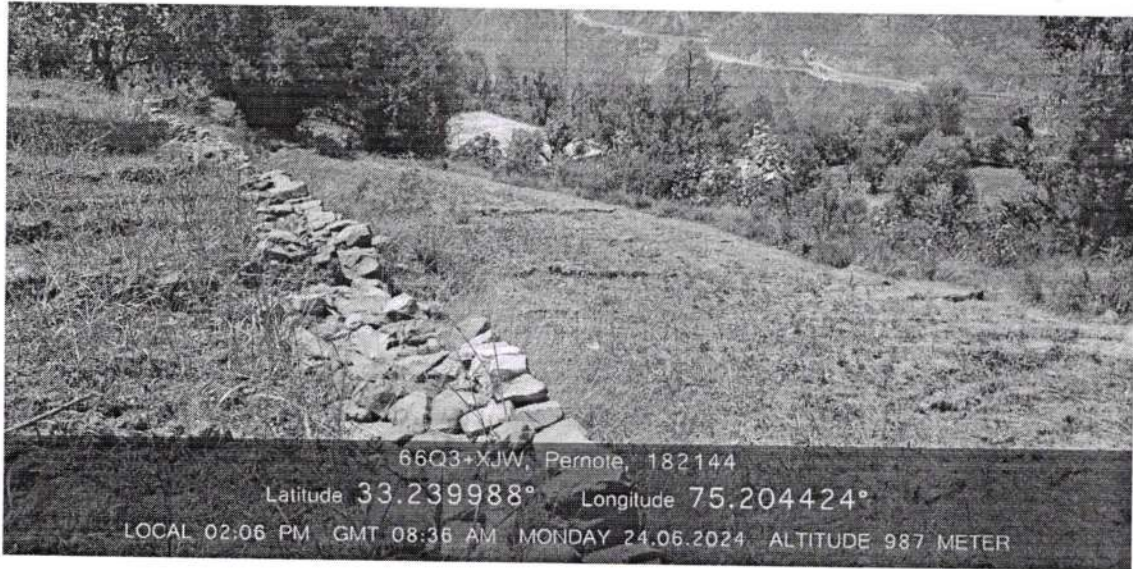


Pic-6: Damaged Houses.

Csh



Pic-7: Damaged structures.

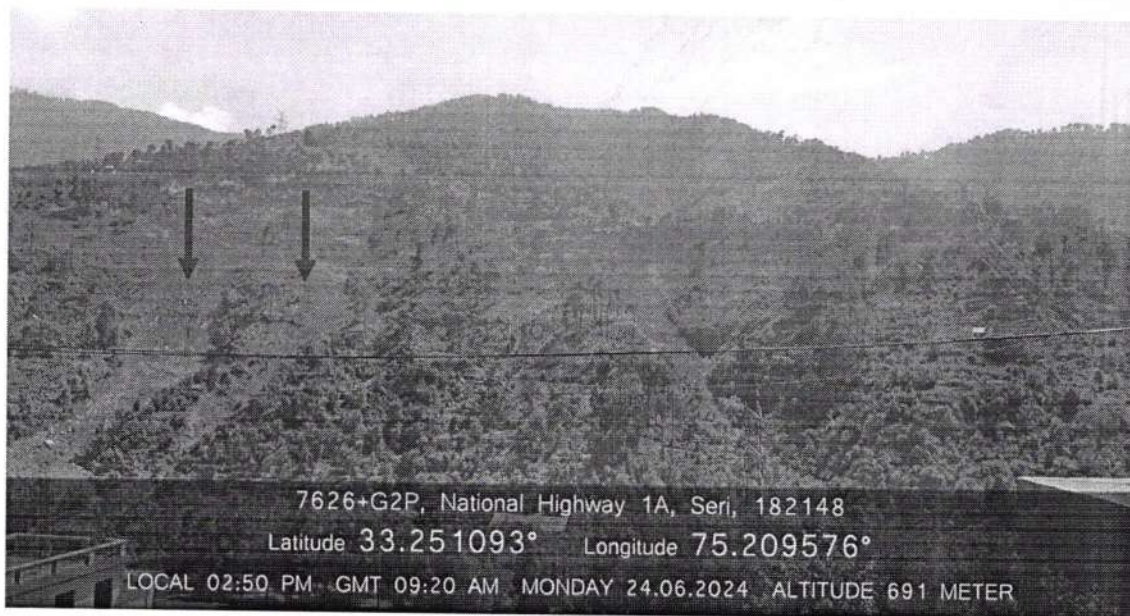


Pic-8: Cracks developed in agricultural fields.

Csh d 12



Pic-9: Cracks developed in agricultural fields.



Pic-10: View of Land Sinking site from NH-144 A.

CSH *DL*

3.2 Field Observation of the Site:

- **Overburden Material:** The slopes are covered with thick overburden material, ranging from 1 meter to 30 meters, composed of weathered rock fragments (sandstone and siltstone), clay, and silt. This material is unconsolidated, heterogeneous, and lacks cohesion, categorized as scree, colluvium, or debris from previous landslides. The overburden is thicker on the right and center parts of the slide compared to the left.
- **Topography and Vegetation:** The topographic impression and distribution of slope-forming material suggest that the Parnote landslide occurred in the debris of an ancient landslide (paleo-landslide). The slopes have sparse to very sparse vegetation in patches, and terrace cultivation, parallel to the topographic contour, was previously practiced on the slope-forming material.
- **Drainage and Erosion:** The affected area is part of the Chenab River basin, with the Chenab River flowing in a northwestern direction. The natural slope is moderately dissected, as evidenced by minor streamlets that have developed on the slope, exhibiting a trellis to dendritic drainage pattern. The average slope angle is about 25 degrees, slanting towards the north. First and second-order streams dissect the slopes, causing erosion during high-discharge rainy seasons and forming rills and gullies.

3.3 Developmental Activities in the area: -

As per PWD Dept (R&B) Division Ramban there is no developmental activities except PWD road i.e. Parnote to Thalwa constructed in 2007-08 having a total length of 06 kms connecting upper reaches of Parnote area, Thalwa etc which has been affected due to sinking of land at km 3rd RD 100-500 due to which road connectivity has been affected.

Further, PCC Team also observed that no industrial activity or any other developmental activity exists near the land of subsidence area & No Railway or Infrastructure Project found at the site of affected area.

3.4 Reasons of subsidence of the area and surroundings: -



Cause of land subsidence observed during the inspection of the affected area:

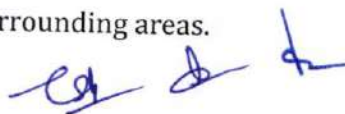
As observed the geology of the affected area consists of the lower **Muree formation form an alternate sequence of claystone, siltstone and sand stone, and slates/phyllites (Ramban Formation) where claystone is the dominant lithology.** There is a sparse to few vegetation cover in the area for the consolidation of fragmented and loose clayey soil which lacks in cohesions and cohesiveness. Further, seepage of water oozing from number of springs, which are continuously flowing has led to further loosening of land mass and is a cause of number of cracks and pasteurized material / loose material as observed along the site.

Moreover, the dip and slip of the central portion is near the toe part of the landslide is ranging from 45° to 80° (North direction) which has resultant into the gradual movement of land mass from toe to top, developing shear cracks along the slope and ultimately settlement of land mass. Further other causative factors have also led to sinking as under: -

- i) **Prolonged rainfall before the day of land subsidence i.e. 25th of April, 2024 has led to settlement of soil land mass along slope having a dip of 50-80 degree. Low conductivity of soil and its permeability results in a reduction of the shear strength of the soil mass along slope and is cause of land slide.**
- ii) **The affected area consists of alternating layers of permeable sandstone and weak, impermeable clay. The clay, being inherently weak and prone to swelling when it absorbs rainwater, increases the piezometric/pore pressure on the free face of the slope, contributing to instability and sinking.**
- iii) **As explained earlier, the loose, unconsolidated thick overburden material on the slopes is prone to failure under unfavourable conditions such as oversaturation and differential erosion**

4.0 Recommendations:

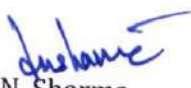
- i) Install crack monitor in houses near the most affected zones to monitor any development of ground distress in the surrounding areas.



- ii) Implement proper measures to divert surface runoff away from the affected or active parts of the slope.
- iii) Ensure that drains within the affected slope are properly lined and maintained and the domestic sewage be channelised.
- iv) Prohibit any new construction, including houses, cowsheds, or civil amenities, in the affected area.
- v) Consider adopting bio-restoration measures by massive tree Plantation to minimize soil erosion.
- vi) Restore action of temporary road connectivity in the affected area, consider constructing a flexible retaining structure, such as a gabion wall, along with deep drainage holes to release sub-surface water.
- vii) Keeping in view the extent of slope movement and its stability concerns, a detailed geological investigation should be conducted to determine whether the road can be restored or if realignment is necessary.


Chander Singh
DO PCC Ramban


Anupam Kaul
Tech Officer PCC Jammu


J.N. Sharma
Environmental Engineer

References:

1. Preliminary Geological Assessment of Landslide at Parnote area of Ramban District, (*Department of Geological Survey of India*).
2. Land Susceptibility modelling in the Doda, Kishtwar, Ramban (DKR) region of J&K using Remote Sensing & GIS (*University of Jammu*).
3. Sinking of Land: 12 families shifted as houses develop cracks, road get damaged in J-Ks Ramban (*The Times of India, 26-04-2024*)
4. Land Subsidence in Sangaldhan-Parnote (*Daily Excelsior, 05-05-2024*)
5. Subsidence in Chenab Valley -More than 60 houses damaged in Ramban area of Jammu (*Down to Earth,06-05-2024*)
6. Doda Land Subsidence: Improper drainage system main cause, say geologists, (*Down to Earth,06-02-2023*)

**Note on Preliminary Geological Assessment of Landslide at Pernote area of Ramban District,
UT: Jammu & Kashmir**

Geological Survey of India, Jammu

Parveen Kumar, Superintending Geologist
Surinder Lal, Senior Geologist

Introduction

On the evening of April 25th, a landslide struck Pernote village, Ramban district, Jammu and Kashmir. The incident caused significant damage to approximately 35 houses, sections of the Ramban-Gool road, the Pernote village link road, a 400 KV transmission line, four transmission towers (three completely destroyed and one partially damaged), a power grid station, and a water supply pipeline. In response to the disaster, the local administration relocated around 55 families from the affected area to ensure their safety. Following an email received on April 26th from the UT: Jammu & Kashmir Administration (SDMA/DMRRR), and with the approval of competent authorities within the Geological Survey of India (GSI), a team of geologists comprising Shri Parveen Kumar, Superintending Geologist, and Shri Surinder Lal, Senior Geologist, from the GSI, Jammu, conducted a preliminary geological assessment of the Pernote landslide from April 27th to 29th, 2024.

Location and Accessibility

The study area falls in Survey of India Toposheet number 43O/04, and the geographical coordinates are $33^{\circ}14'32.46''\text{N}$, $75^{\circ}12'28.76''\text{E}$ (Figure-1). The area of investigation is located about 130 km from Jammu and 05 km from Ramban, UT: Jammu and Kashmir. The nearest railway station and airport are located in Sangaldan and Jammu, respectively.

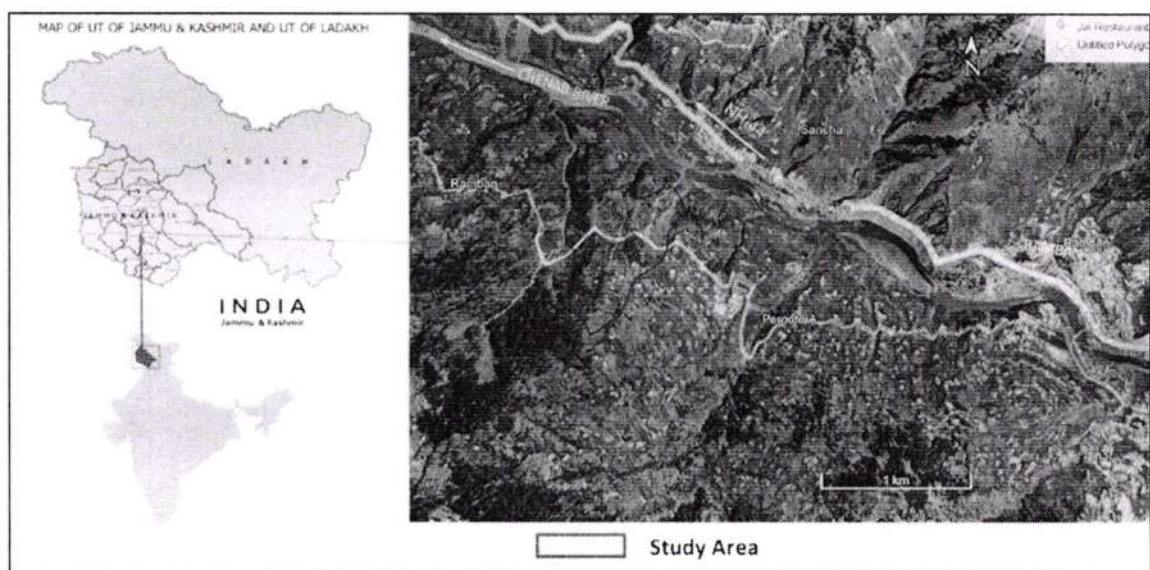


Figure-1: Location map of the study area.

Acknowledgement:

The authors are grateful to Shri P.S. Misra, Deputy Director General, UT: J&K & UT: Ladakh, GSI, Jammu for providing administrative support, supervising, guiding and reviewing the work done. The authors are highly thankful to the Deputy Commissioner, Ramban and Tehsildar, Tehsil Ramban for providing all the facilities for carrying out the assessment of the site.

Regional Geology of the area

The area exposes rocks of Ramban Formations of Neoproterozoic age belonging to Parautochthonous belt, rocks of Murree Group of Upper Eocene to Lower Miocene and Undifferentiated Quaternary deposits of Pleistocene to Holocene age. Ramban Formation comprising a thick sequence of platy to thinly bedded limestone and carbonaceous shale/slate/phyllite in the basal part, grey phyllitic slate with bands of quartzose sandstone and graywacke in the middle part and grey, green and purple shale/slate, micaceous sandstone, lenticular bands of diamictite and quartzite in the upper part. Lower Murree of Murree Group is dominantly an argillaceous assemblage comprising thick bands of deep chocolate brown to purplish shale, siltstone with subordinate alternations of grey, brownish grey and greenish grey, generally fine grained micaceous and thinly bedded, hard and compact sandstone with impersistent interbeds of concretionary clay, clay, conglomerate, pseudo conglomerate, argillaceous limestone/marlstone. Murree rocks are delimited in the north by the Murree Thrust along which the rocks of Parautochthonous belt are juxtaposed against the Murree strata. (Geology and Mineral Resources of Jammu and Kashmir State, Misc. Publication 30, Part- X).

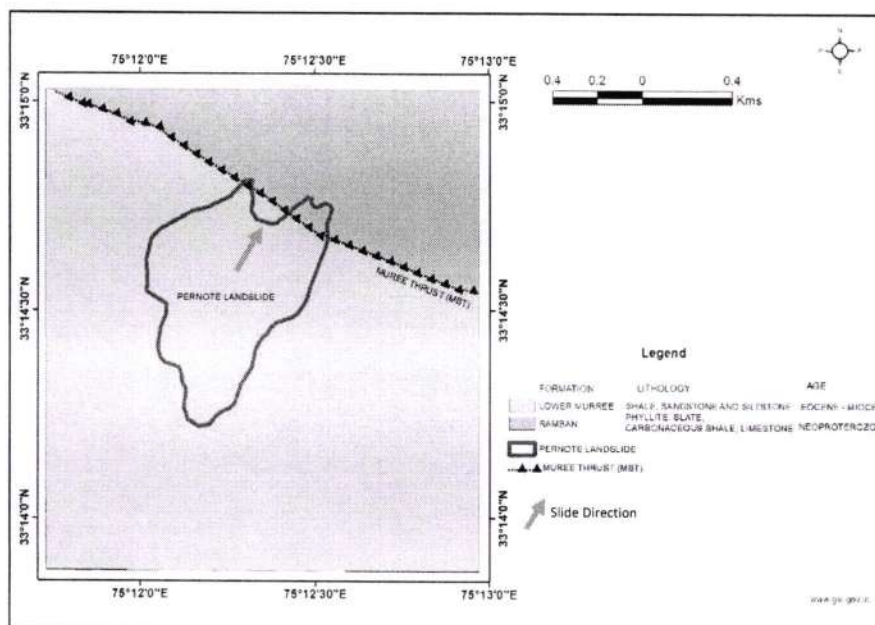


Figure-2: Geological map of the study area (GSI).

Seismicity of the area

As per the seismic zonation map of India (IS-1895, part-2), the Pernote, Ramban lies in the Zone-IV, where events of magnitude ≥ 7 are anticipated. Therefore, the study area is assessed as having high seismic sensitivity.

Geology at the Site

Geologically the area exposes rocks of Lower Murree of Murree Group belonging to Late Eocene to Early Miocene age. The rocks of the Ramban Formation are exposed near the toe part of the slide while the landslide affected area is totally covered with the thick overburden material or debris of the paleo-landslides. The Lower Murree Formation form an alternate sequence of claystone, siltstone and sandstone of which claystone is the dominant lithology (Figure-3 and Figure-4). The discontinuities observed in the study area are given below in table-1

Table-1: Recorded joint data at the site

S. Nos.	Joint	Left fringe of landslide		Near toe part of the landslide	
		Dip Amount	Dip Direction	Dip Amount	Dip Direction
1	J1	32°-40°	N10°-25°	30°	N225°
2	J2	65°	N160°	70°	N135°
3	J3	45°-60°	N135°	80°	N25°
4	J4	80°	N65°		

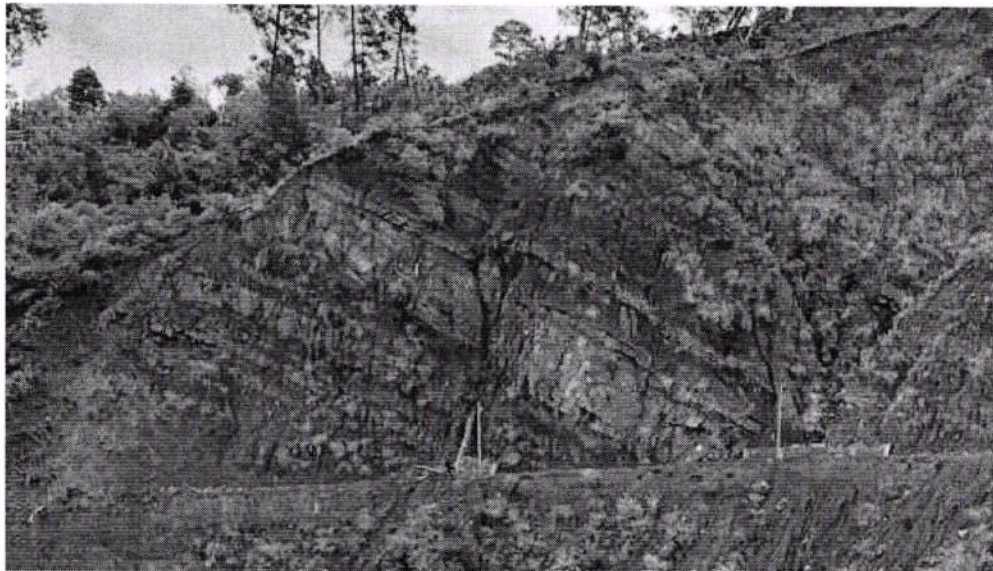


Figure-3: Alternate sequence of claystone, siltstone and sandstone



Figure-4: Slates/phyllites of Ramban Formation

Damage Scenario

On the evening of April 25th, a landslide struck Pernote village, Ramban district, Jammu and Kashmir. This event caused significant damage to approximately 35 houses located in the central part of the affected slope. Additionally, the landslide impacted infrastructure, damaging an 800-meter section of the Ramban-Gool road, a 300-meter portion of the Pernote link road, electric poles along the 400 KV D/C Kishenpur Wanpoh III & IV transmission line, a power grid station, and a water supply pipeline (as seen in Figure-5 to 9). The slopes affected by the landslide are covered with overburden material, primarily debris from past landslides. The development of several cracks in the slope-forming material further damaged agricultural and forest land.



Figure-5: Showing damaged house



Figure-6: Showing damaged house

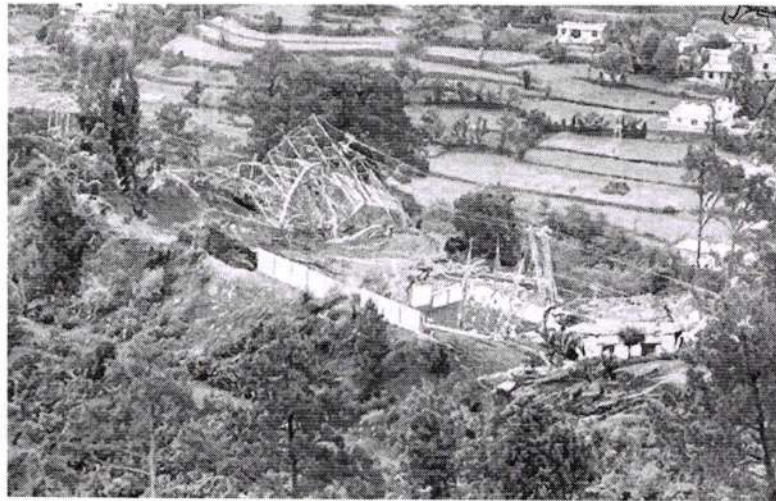


Figure-7: Showing damaged transmission tower and power grid

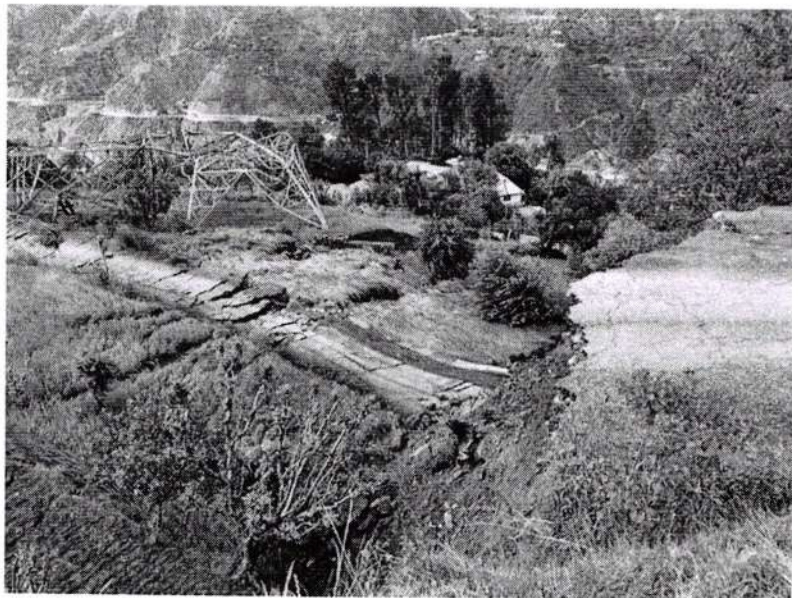


Figure-8: Showing damaged transmission tower and road



Figure-9: Showing damaged house (Courtesy: <https://www.greaterkashmir.com>)

The orientation of the cracks in the slope was observed from multiple locations, with the transverse nature of the cracks varying in strike between NW-SE and E-W (and the longitudinal nature of the cracks varying in trend NE-SW and N-S (Figure-10 and 11). As the slope aspect of the area changes, these cracks are found to be locally varying in the strike. The dimensions of the cracks were observed to vary from a few centimetres to 30 cm in width, a few meters to tens of meters in length.



Figure-10: Showing transverse cracks developed near crown



Figure-11: Showing transverse cracks developed near crown

Geological Observations:

To assess the impact of the Pernote landslide on socio-economic and environment, preliminary geological assessment has been done. The geological appraisal of the landslide is as follows-

- Demarcation/outlining of the Pernote landslide was done with the help of GPS and from the open source Google imagery. It is estimated that the slide extends in length for ± 1140 m and in width for ± 720 m and having height ± 440 m. Pernote landslide covers an area of approximately 0.51 square kilometres (Figure-12). The central portion may be deeper than 30 meters, although the exact depth is unknown. The crown and toe of the landslide is tentatively inferred at an elevation ± 1110 m and elevation ± 670 m respectively on the basis of geomorphology, distribution of slide debris and other field evidences.

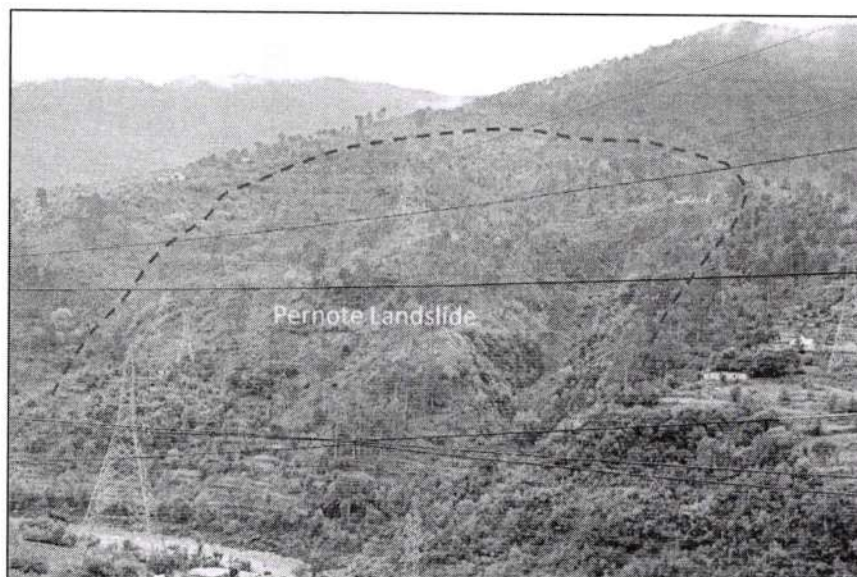


Figure-13: Panoramic view of Pernote landslide

- The landslide area consists of alternating layers of claystone (dominant), siltstone, and sandstone (Lower Murree Formation) and slates/phyllites (Ramban Formation). Rock outcrops are visible on the left edge of the landslide at road level and at the toe portion. The Main Boundary Thrust (MBT) runs through the area, separating Murree Group rocks from Parautochthonous rocks. The study area lies in the MBT's footwall, where the thrusting has resulted in highly fractured, shattered, and folded rock masses. The swerving in dip of foliation plane in Ramban slates indicates folding of the strata.
- The slopes are covered in thick overburden material (ranging from 1 meter to 30 meters) composed of weathered rock fragments (sandstone and siltstone), clay and silt. This material is unconsolidated, heterogeneous, and lacks cohesion. It can be categorized as scree, colluvium, or debris from old landslides. The overburden is thicker on the right and center sides of the slide compared to the left.
- Topographic impression and distribution of slope forming material suggests that the Pernote landslide occurred in the debris of paleo-landslide.
- The slopes have sparse to very sparse vegetation in patches.
- Terrace cultivation parallel to the topographic contour used to done on the slope forming material. Slopes are covered with very sparse to sparse vegetation in patches.
- The water table is shallow in the study area, with water oozing out as springs, seepages, and puddles in several locations (Figure-13 and 14).

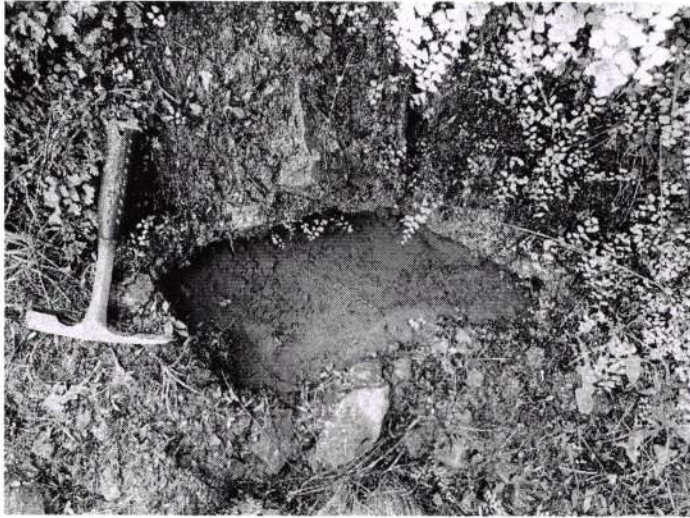


Figure-13: Water seepage in the form of spring



Figure-14: Showing formation of puddles

- The study area forms the part of the Chenab river basin. The Chenab River is flowing in the northwestern direction. The natural slope is moderately dissected as evidenced by minor streamlets developed on the slope and exhibiting trill to dendritic drainage pattern (Figure-15). An average slope in the study area is slanting at moderate angle 25° (Figure-16) with average north direction (Figure-17). First and second order streams dissect the slopes, causing erosion during high-discharge rainy seasons and forming rills/gullies.

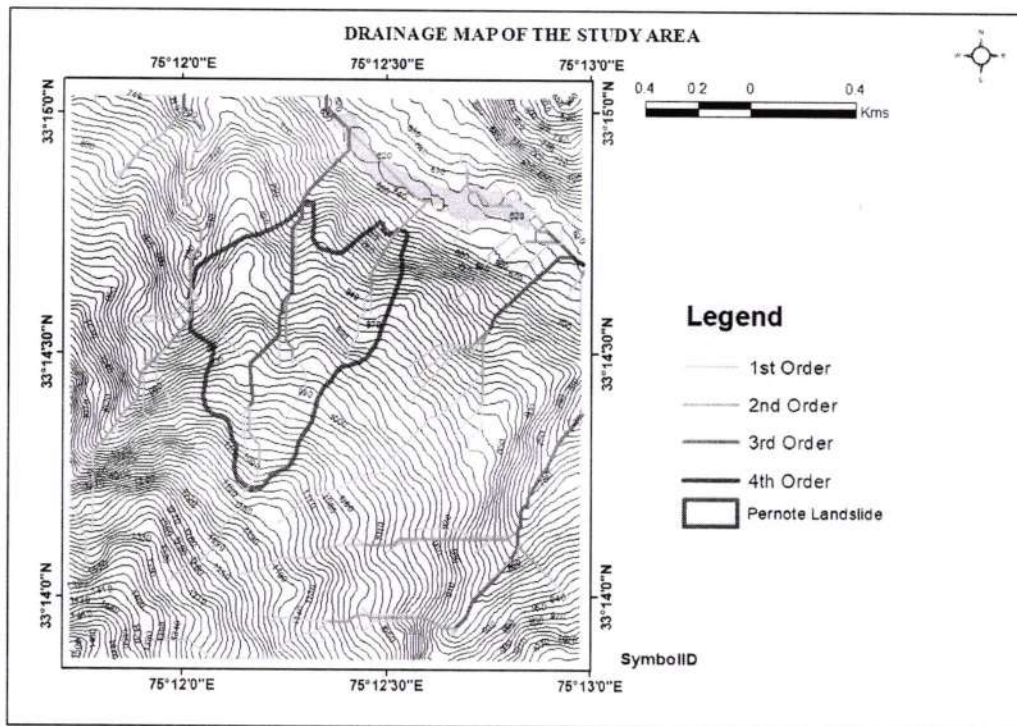


Figure-15: Drainage map of study area

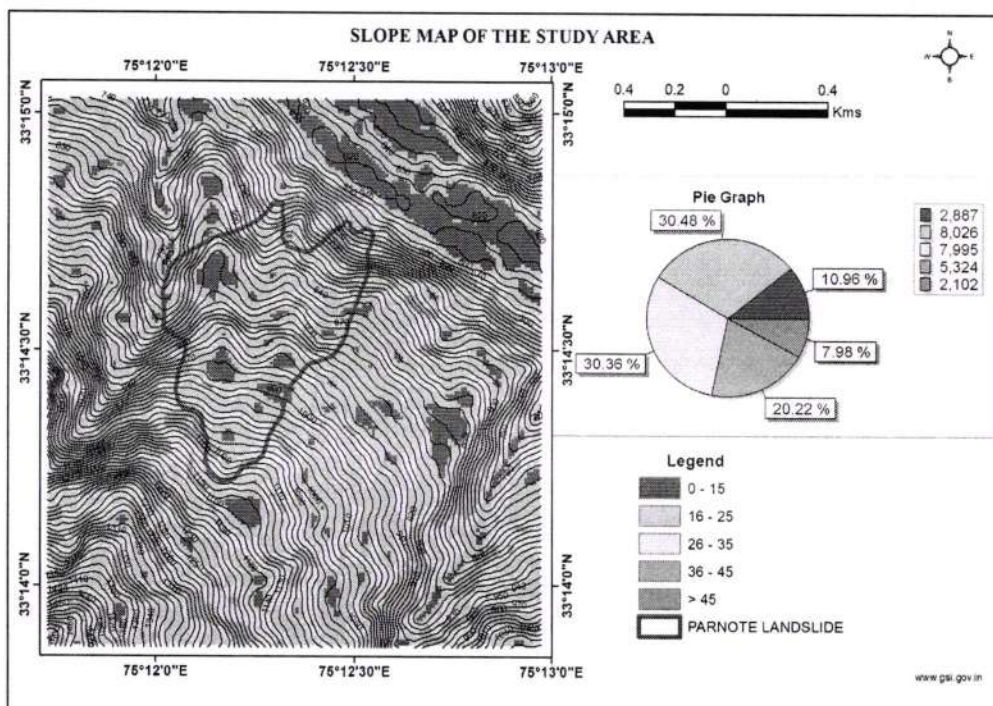


Figure-16: Slope map of study area

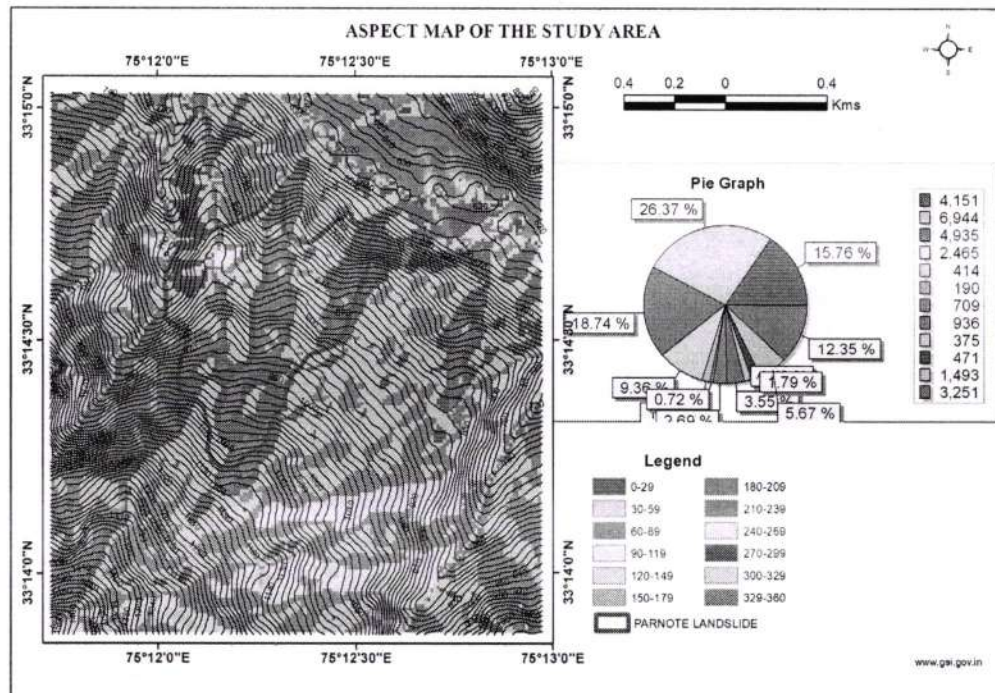


Figure-17: Aspect map of study area

Geological Assessment:

- Field observations** suggest the slip plane originates in the overburden (weathered rock and soil) and extends into the underlying rock mass. This is typical of debris slides, where loose material on the slope initiates the movement (Figure-18). **Multiple surface ruptures** observed on the ground indicate a rotational type of movement. In rotational landslides, the displaced material rotates along a curved surface. Downward movement and thrust of the moving mass formed hummocky structure in the main body of the slide as a result of compression and accumulation of the slope forming material.



Figure-18: Showing slip plane of the landslide

- Development of tension cracks in the crown portion, suggests that the landslide is retrogressive in nature. From the ground condition, it has been estimated that this slide is more than 25 m deep and can be categorized as a deep rotational landslide.
- A number of cracks, both transverse and longitudinal in nature are observed to be developed in the ground.
- In the study area, the ground water conditions are discernible in the form of springs, puddle, water from the stream, water charged zone and wet zones which are continuously recharging the slope forming material. The rate of discharge of sub surface water was assessed from multiple locations and is found to be of 0.5L/minute to 1.5L/Minute or even more at places.
- During rains the ingress of surface runoff through these cracks may have developed the pore pressure, thus inducing the instability in the slope. The pore pressure acts as an active stress parameter on the free face of the slope which is an adverse condition for the stability of the slope.
- The oversaturation of slope forming material due to prolonged intense rainfalls over a long period of time played a significant role in the occurrence of the landslide in multiple slips which causes the knocking down of pine trees, uprooting of trees, tilting/falling of electric poles, damaging grid station, destroying houses, agricultural land, forest land and damaging part of Ramban-Gool road and local road etc. The length of the time required for the pore pressure to change depends on the permeability of the slope forming material. Although the matrix permeability of clayey soil is usually very low, clay masses surprisingly show high secondary permeability due to cracks, fissures and portion of more permeable material enhanced the secondary permeability in the soil. Heterogeneity, un-consolidation and loose nature of overburden provide the possibility of high permeability (secondary) to the slope forming material. During the prolonged rainfall the low permeability may recharge the claystone slowly but the in filtered water may preserve in the moderately permeable to high permeable jointed fractured siltstone and sandstone respectively.

Clay content is also an important property to hold/retain water for long time and swelling plays significant role to exerting the outward pressure on the free face of the slope.

Causative factor:

Main causative factors which have been worked out during the course of investigation are

- The prolonged rainfall over a longer period of time lead to increase in the pore water pressure and in the active stress component, which in turn resulted in reduction of shear parameters of slope forming material.
- Loose unconsolidated thick overburden material lying on the slopes is prone to failure on the onset of unfavourable conditions like over saturation, differential erosion by the streams etc.
- Study area comprises alternating layers of permeable sandstone and weak impermeable clay. Clay is inherently weak and incompetent in nature and gets easily swelled due to the absorption of rain water, which adds to the piezometric pressure on the free face of the slope.

Conclusions and Recommendations:

- It is observed that the surface water and spring water over the longer period of time is continuously percolating in jointed moderately weathered rock mass and loose unconsolidated overburden material. Thus, oversaturation of the slope forming material can be considered as one of the contributing factors for the slope failure.
- The appearance of cracks on the ground is an indication of distress in the part of the slope occupied by the overburden material.
- The part of the slope is unstable hence no habitation should be allowed.
- As an immediate precautionary measure, it is advised not to allow people to dwell in the houses which are in the close proximity to the slide scars or where the ground cracks are lying immediately on the back slope or front slope of any house/houses.
- It is advised to fix tell-tales in the houses which are close to the most affected zone, so as to monitor the development of ground distress, if any, in the adjoining area.
- Proper measures for diverting the surface runoff away from the affected/active part of the slope should be provided/implemented.
- Drains present in the affected slope should be lined/trained.
- No new construction of house/cowshed/civil amenity be permitted in the affected area.
- Bio-restoration measures may be adopted for minimizing the soil erosion.

- To restore the road connectivity (temporary) on the affected part of the slope, flexible retaining structure (gabion wall) may be provided along with deep drainage holes to release the sub-surface water.
- Considering the extent of the slope movement and its stability the detailed geological investigation for restoration of the road or realignment of same road if required need to be carried out.

42 POINT GEOPARAMETRIC DATA SHEET FOR PERNOTE LANDSLIDE

Sl. no	Field	Description
1	Slide No.	JK/RAM/43O04/2024/01
2	State/UT	Jammu and Kashmir
3	District	Ramban
4	Toposheet No.	43O/04
5	Name of the slide	Pernote
6	NH/SH/Locality	Road connecting Ramban and Gool
7	Latitude	33°14'32.46"N,
8	Longitude	75°12'28.76"E
9	Length	± 1140 m
10	Width	± 720 m
11	Height	± 440 m
12	Area	± 0.51 sq.km.
13	Depth	(>5 m)
14	Volume	--
15	Run out distance	± 1400 m
16	Type of Material	Overburden material
17	Type of movement	Debris
18	Rate of movement	Slow
19	Activity	Active
20	Distribution	Retrogressive
21	Style	Single
22	Failure mechanism	Deep rotational
23	History	Occurred on April 25th
24	Geomorphology	Moderately dissected slope and spur.
25	Geology	The landslide area consists of alternating layers of claystone (dominant), siltstone, and sandstone (Lower Murree Formation) and slates/phyllites (Ramban Formation). Rock outcrops are visible on the left edge of the landslide at road level and at the toe portion. The swerving in dip of foliation plane in Ramban slates/phyllites indicates folding of the strata. The slopes are covered in thick overburden material (ranging from 1 meter to 30 meters) composed of weathered rock fragments (sandstone and siltstone), clay and silt.
26	Structure	The joint data on the left fringe of landslide is recorded as J1: 32° to 40° towards N10° to N25°, J2: 65° towards N160°, J3: 45°-60° towards N135° and J4: 80° towards N65°. The joint data near the toe part of the landslide is recorded as J1:30°/N225°, J2:70°/ N135°, J3: 80°/N25°. Near the toe part of the landslide, Main Boundary Thrust (MBT) runs through the area, separating Murree Group rocks from Paraautochthonous rocks. The study area lies in

		the MBT's footwall, where the thrusting has resulted in highly fractured, shattered, and folded rock masses. The trend of the thrust plane is N110°-290°
27	Landuse/Landcover	Settlement, road, agricultural land, electric poles and water pipe line.
28	Hydrological condition	Flowing
29	Triggering Factor	Rainfall and oversaturation
30	Death of persons	NA
31	People affected	55families
32	Livestock loss	NA
33	Communication	Road
34	Infrastructure	This event caused significant damage to approximately 35 houses located in the central part of the affected slope. Additionally, the landslide impacted infrastructure, damaging an 800-meter section of the Ramban-Gool road, a 300-meter portion of the Pernote link road, electric poles along the 400 KV D/C Kishenpur Wanpoh III & IV transmission line, a power grid station, and a water supply pipeline.
35	Agriculture/ Forest/Barren	Agriculture and Forest
36	Causes	Oversaturation of thick overburden material, increasing pore water pressure causing slope failure under the influence of the gravity.
37	Remedial measures	Discussed above in the report
38	Remarks, if any	--
39	Photos/ sketch of slide	Fig: 1, 2, 3, 4 & 5
40	Summary/Abstract	Discussed in the note
41	Pdf	Attached
42	Landslide Category	I

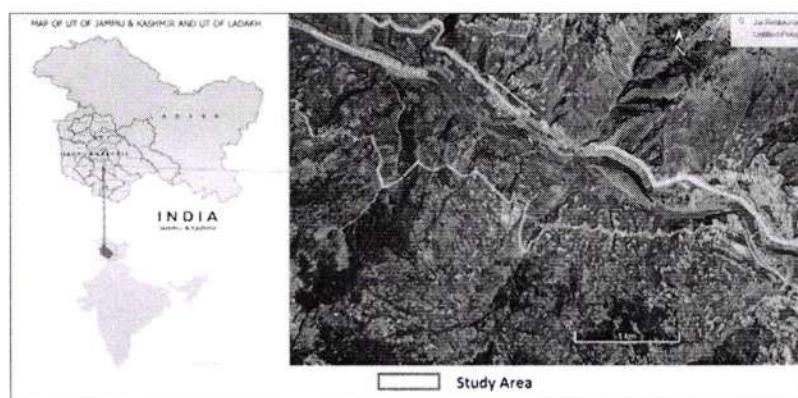


Figure-1: Location map of the study area.



Figure-2: Damaged Ramban-Gool Road due to Pernote Landslide.

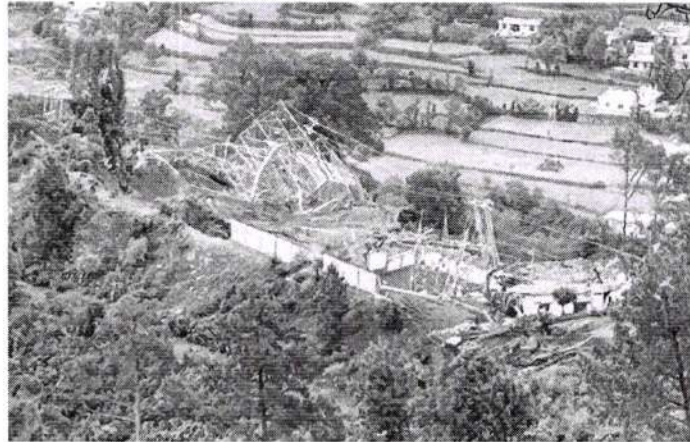


Figure-3: Showing damaged transmission tower and power grid

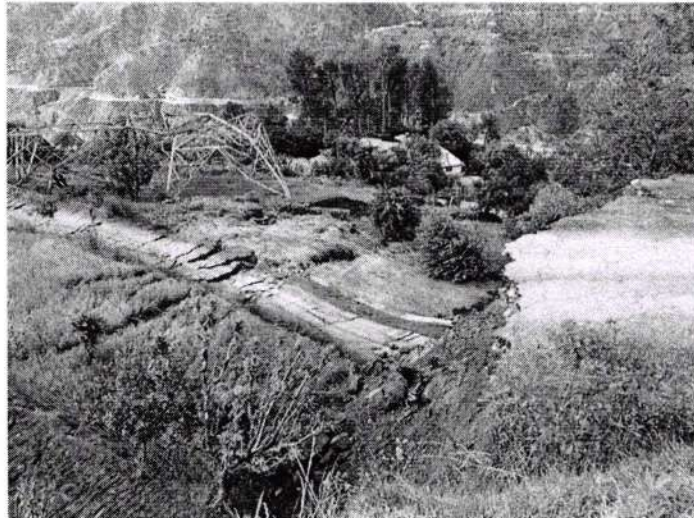


Figure-4: Showing damaged transmission tower and road



Figure-5: Showing damaged house

*****End of Report*****



Union Territory of Jammu and Kashmir
OFFICE OF THE DEPUTY COMMISSIONER RAMBAN
 Tel No. 01998266789 Fax No. 01998-266906

Member Secretary
 J&K Pollution Control Committee,
 Jammu.

Sub: Hon'ble National Green Tribunal, Notice dated 07.06.2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greater Kashmir.com dated 29.06.2024-constitution of committee, thereof.

Ref: Your Office Communication No. JKPCC/Sc/OA 642-2024/24/718 dated 27.08.2024

Sir,

Kindly refer to this office Letter No. DCR/Relief/2024-25/378-81 dated 25.06.2024, the information has already been submitted to your good office regarding the subject cited above.

In this connection, I am once again directed to re-submit the requisite information in respect of District Ramban (copy enclosed) for onward submission to the higher authorities.

Yours faithfully,

[Signature]
 Addl. Deputy Commissioner,
 Ramban

No. DCR/Relief/2024-25/734-36

Dated: 05.09.2024

Copy to:

1. Divisional Officer PCC Ramban, for information.
2. PA to Deputy Commissioner Ramban for information to the Deputy Commissioner.
3. Office File.

S (A) (AN)

*Place on the Melanaruf
 file.*

[Signature]
 6.9.24

Jammu and Kashmir Pollution Control Committee

Parivesh Bhawan, Forest Complex || Silk Factory Road
 Transport Nagar, Jammu, 180 006 || Rajbagh, Srinagar, 190 008
 Tel - 0191 2426022, mail - members@ncmt.jk.pcb@jqpcc.com

Hon'ble NGT Matter
 O.A. 642/2024

Deputy Commissioner,
 Ramban

No. JKPC/Sc./OA 642-2024 /24/ 718

Date: 27-08-2024

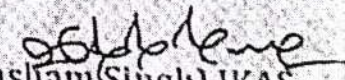
Sub: Hon'ble National Green Tribunal, notice dated 07.06.2024 in OA No. 642/2024 titled "Land sinking: A new environmental challenge in Jammu & Kashmir" appearing in greater Kashmir.com dated 29.06.2024-constitution of committee, thereof.

- Ref: i) JKPC/PS/MS/174-175; dt.14.06.2024.
 ii) JKPC/Sc./OA-642-2024/24/359-360; dt.18.07.2024.
 iii) JKPC/Sc./OA-642-2024/24/658-659; dt.12.08.2024.

Sir,

Please refer to this office Communication No. JKPC/PS/MS/174-175; dt. 14.06.2024, JKPC/Sc./OA-642-2024/24/359-360; dt.18.07.2024 & JKPC/Sc./OA-642-2024/24/658-659; dt.12.08.2024 on the subject captioned above, and to convey that the matter is being hearing by the Hon'ble NGT. The requisite information in the matter is awaited, which may be expedited and furnished to the J&KPC at the earliest.

Yours faithfully,


 (Ghanshyam Singh) JKAS
 Member Secretary 27.8.24

Copy to the Divisional Commissioner, Jammu for information.



Union Territory of Jammu and Kashmir

OFFICE OF THE DEPUTY COMMISSIONER RAMBAN

Tel No. 01998266789

Fax No. 01998-266906

Member Secretary
J&K Pollution Control Committee,
Jammu.

Sub: Hon'ble National Green Tribunal, Notice dated 07.06.2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greater Kashmir.com dated 29.04.2024-constitution of committee, thereof.

Ref: Your Office Communication No. JKPC/PS/MS/174-75 dated 14.06.2024

Sir,

Kindly refer to the subject and reference captioned above. In this connection, I am directed to submit the requisite information in respect of District Ramban (copy enclosed) for onward submission to the higher authorities.

Yours faithfully,

Assistant Commissioner, (Rev)
Ramban

No. DCR/relief/2024-25/378-B1

Dated: 25.06.2024.

Copy to:

1. Divisional Officer PCC Ramban, for information.
2. Addl. Deputy Commissioner, Ramban for information.
3. PA to Deputy Commissioner Ramban for information to the Deputy Commissioner.



GOVT OF INDIA
UNION TERRITORY OF JAMMU & KASHMIR
DEPARTMENT OF AGRICULTURE PRODUCTION AND FARMERS WELFARE
OFFICE OF THE CHIEF AGRICULTURE OFFICER RAMBAN
Email ID: caoramban@gmail.com



Addl. Deputy Commissioner,
Ramban.

No: PLS/CAO/Rbn/2024-25/ 1004-05.

Dated: 24 Jun 2024

Sub: Hon'ble National Green Tribunal, Notice dated 07.06.2024 in OA No 642/2024 titled "Sinking: A new environmental challenge in J&K" appearing in greater Kashmir.com dated 29.04.2024 constitution of committee, thereof.

Ref: Your office letter No DCR/Relief/2024-205/370-77 dated 21.06.2024.

Sir,

Apropos to the subject and reference cited above, the desired information regarding the subsidence of crop wise Agriculture land at village Pernote is hereby mention below:-

S No	Crop	Total Area effected	Extent of damage Agriculture Land
1.	Wheat	83K 05M	100%
2.	Fodder	29K 06M	
3.	Vegetables	13K 14M	
	Total	126K 05M	

Yours Sincerely


(Ram Gopal Sharma)

Chief Agriculture Officer
Ramban

Copy to: -

1. District Development Commissioner, Ramban for favour of kind information please.



**OFFICE OF THE EXECUTIVE ENGINEER PWD(R&B) DIVISION
RAMBAN**

The Addl. Deputy Commissioner,
Ramban.

No:- EE/R&B/RBN/3865-67 Dated: 24-06-2024

Subject: Hon'ble National Green Tribunal Notice dated 07.06.2024 in OA No 642/2024 titled "land sinking: a new environmental challenge in J&K" appearing in greater Kashmir.com dated 29-04-2024- constitution of committee, thereof.

Ref: Your office letter No: DCR/Relief/2024-25/370-77 Dt 21-06-2024.

Sir,

Kindly refer to your office letter No cited above in this connection the details sought regarding "Development activities taken place at the affected site" in respect of this Division is given as under:

S.No	Agenda	Reply
3	Developmental activities taken place at the affected site, so that committee can assess the actual situation in respect of PWD(R&B) Division Ramban	The PWD road viz Pernote to Thalwa was constructed by this Department during 2007-08 having a total length of 6.00 kms (BT status) connecting upper reaches of Pernote area, Thalwa etc effected due to sinking of land in Km 3 rd RD 100-500 due to which the road connectivity has been lost in the above said areas.

Hence report is submitted for kind information please.

Yours faithfully

Executive Engineer

PWD(R&B) Division Ramban

Copy to the:-

District Development Commissioner Ramban for favour of kind information
please
HA/CC



GOVERNMENT OF JAMMU AND KASHMIR (UT)
OFFICE OF TEHSILDAR RAMBAN

Email: tehsildar-ramban@jk.gov.in

Addl. Deputy Commissioner,
 Ramban

No: TR/OQ/2024-25/Misc/ 346-47

Dated: 24.06.2024

Subject: Hon'ble National Green Tribunal, Notice dated. 07.06.2024 In OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greater Kashmir.com dated. 29.04.2024 - constitution of committee, thereof.

Ref: Office Communication No. DCR/Relief/2024-25/370-77 dated. 21.06.2024

Sir,
 Your good self's kind attention is invited towards the above-captioned subject. In this connection, the requisite information is tabulated as under:

S.No	Point	Reply
1	Total Area Affected	1200 Kanal
2	Extent of damage to the agricultural land	400 Kanal
3	Extent of damage to the forest land	600 Kanal (Forest land) + 200 Kanal (State land)- Total- 800 Kanal.
4	Developmental activities taken place at the affected site, so that committee can assess the factual position	Does not pertain to this office.

Hence report is submitted for kind information please.

Yours faithfully,


 Tehsildar
 Ramban

Copy to:

1. PA to Deputy Commissioner, Ramban for kind information of Deputy Commissioner.

خواب عالی

گذشتہ خدمات صیغہ شمارہ نمبر خواب والا سربراہی
 DCR/Relief/2024-25/370-77 Dated 21-06-2024
 ایجوٹ لسٹ لفغان آرائی زرعی درجہ کلاں داؤح حوضی ایجوٹ لوہہ
 درجہ زمین بیڑ ہے۔

پہلے صیغہ حوضی 25 اپریل 2024 کو حوضی ایجوٹ میں اچانک
 زمین درجہ آگے کا سلسلہ شروع ہوا = حوضی ایجوٹ میں زرعی حوضی
 کلاں کو لفغان ہوا ہے لفغان بیڑ ہے

(I) حوضی ایجوٹ میں کلریٹہ 200 کتاں آگے / درجہ کلاں میں
 صیغہ 400 کتاں زمین زرعی ہے =

(II) کلریٹہ سرکار 200 کتاں درجہ کلاں 400 کتاں بھی زمین آگے / درجہ
 میں شاہ سرکار ہے =

یذا رورٹ یذا ہلہ مناسب گذشتہ خدمات ہے

24/6/2024

Remiz Raja Ghani
 P/H Perrotez

*Office of the Executive Engineer
Jammu Power Distribution Corporation Ltd. (JPDCL)
Electric Division, Batote*

Email: exenpdd-ramban@jk.gov.in, pddbatote@gmail.com Website: www.jkpdd.gov.in

Telephone No: 01998 -244231 Fax: 01998 -244231

CIN No:- U40300JK2013SGC003898

**District Development Commissioner,
Ramban.**

NO.ED/BTT/ 436-39

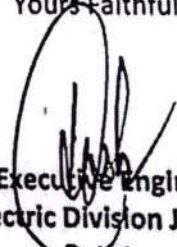
Dated 27/4/2024

Sub. Damage Report as on 25.04.2024 due to Sinking of Land Kanga (Ramban)

Sir,

As desired kindly find enclosed herewith information regarding the Damaged Report due to Sinking of Land at Village Kanga (Ramban) as on 25.04.2024 an Amount to Rs 48.36 Lacs as per prescribed format in respect of this division for favour of further necessary action at your end please.

Yours Faithfully


Executive Engineer,
Electric Division JPDCL
Batote

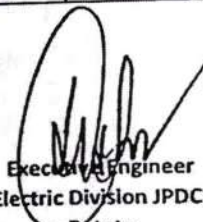
Copy to the.

1. Chief Engineer, Distribution JPDCL, Jammu for Kind Information.
2. Superintending Engineer Circle Batote JPDCL for Kind Inf. .
3. Assistant Executive Engineer Sub Division JPDCL Ramban for Inf.

DETAIL OF DAMAGES DUE TO SINKING OF LAND AT KANGA (RAMBAN) AS ON 25.04.2024 IN RESPECT OF ELECTRIC

DIVISION Batote

S.NO	Name of Sub-Division	Name of Receiving Station	Name of Feeder	ST Poll 9 mtr (Nos)	LT Poll 8 mtr (Nos)	Weasel Cond. KM	HT Poll titled Nos	LT Poll titled Nos	Sub Station of Transformer complete Damaged	Disc Insulator Nos	Shackle Insulator Nos	Pin Insulator Nos	11KV Horn Gap Switch/11K V.G.O Set/Link Set/LA Cotation	Guy Rod Nos
1	SD-Ramban	Kanga (3.15 MVA)	Pernot	12	65	30	30	40	2 Nos 25 KVA 63 KVA	30	200	36	5	40
2			Gandhari	30	8	12	20	30	0	90	32	90	3	25
3			Tanger	8	5	8	25	25	0	24	25	24	150	10
		Total		50	78	50	75	95	0	144	257	150	6000	5137
		Rate		15789	10984	36612	700	500	2.52+3.99	506	50	211	60000	431508
		Gross Amount		789450	856752	1830600	52500	47500	651000	72864	12850	31650		4836674.00
													Say Rs.	48.36 Lacs


Executive Engineer
Electric Division JPDCL
Batote

GOVERNMENT OF JAMMU AND KASHMIR
OFFICE OF THE EXECUTIVE ENGINEER JALSHAKTI (HYDRAULIC) DIVISION
RAMBAN
E-mail ID: - hyddvsnramban@gmail.com

Addl. Deputy Commissioner
Ramban

No: - JS/HYD/D/R/1992

Dated: - 24-06-2024.

Subject: - Hon'ble National Green Tribunal, Notice dated 07-06-2024 in OA No. 642/2024 titled "Land Sinking: A new environmental challenge in J&K" appearing in greater Kashmir com dated 29-04-2024 reply thereof.


Reference: - Your office letter no. DCR/Relief/2024-25/370-77 Dated: - 21-06-2024.

Sir,

In reference to the above cited subject and reference It is submitted that work of laying and fitting of G.I./HDPE pipes, construction of GSRs and SSFPs under various JJM Schemes is undergoing in the vicinity of effected area. Furthermore, due to subsidence of Land in Pernote area Gravity main line of HDPE 50mm dia from Garole Nallah to Axra B GSR 10000 gallons was heavily damaged and distribution system from Axra B reservoirs (Old and new) to adjoining area of Panchayat Pernote A were also heavily damaged/washed away. Also it is submitted that no water source has been damaged/effected due to land subsidence.

The report is Submitted for your kind perusal and necessary action please.

Yours Faithfully,


(Er. Rajeev Ghai)
Executive Engineer
Jal Shakti Hydraulic Division
Ramban.



GOVT OF JAMMU & KASHMIR
OFFICE OF THE DIVISIONAL FOREST OFFICER, FOREST DIVISION BATOTE
Tel/ Fax- 01998-244981/244224 e-mail- dfo-batote@jk.gov.in, dfobatote@d, dfobatote711@gmail.com

The Deputy Commissioner
Ramban

No. DFO/BTT/24-25/ 1221-22

Dated :- 25/06/2024

Subject:- Hon'ble National Green Tribunal, Nootice dated 07.06.2024 in OA No. 642/2024 titled "Land Sinking : A new environmental challenge in J&K" appearing in greater Kashmir.com dated 29-04-2024 constitution of committee, thereof.

Reference:- Your office No. DCR/Relief/2024-25/370-77 dated 21-06-2024

Sir

On the above captioned subject and reference, it is submitted that as reported by the concerned Range Officer Gandhri vide his No. 194/GR dated 25-06-2024, the requisite information in respect of Batote Forest division is reproduced as under :-

S.No.	Point	Reply
1	Total area affected	Pertains to higher authorities.
2	Extent of damage to the agriculture and forest land	82.80 Hectare forest area affected
3	Developmental activities taken place at the affected site, so that committee can assess the actual position.	08 Nos of plantation units established under various schemes are sunk under the slide.

Hence submitted for favour of information and necessary action at your end please.

Yours faithfully,

(Signature)
(Abinav Ramyotra) SFS
Divisional Forest Officer
Batote Forest Division
Batote

Copy to Range Officer, Gandhri for information. This is in reference to his aforementioned letter