

कार्यालय प्रभागीय वनाधिकारी, उत्तरकाशी वन प्रभाग, उत्तरकाशी

पत्रांक- 641 / 12-1, कोटबंगला, दिनांक 31 / 08 / 2022

सेवा में,

वन संरक्षक,
भागीरथी वृत्त, मुनिकीरेती,
उत्तराखण्ड।

विषय :- प्रोजेक्ट संख्या FP/UK/ROAD/40975/2019 विकास खण्ड चिन्यालीसौड़ के अन्तर्गत चिन्यालीसौड़-जोगथ मोटर मार्ग से पुजारगांव भडेश्वर मन्दिर तक मोटर मार्ग।
सन्दर्भ:- अपर प्रमुख वन संरक्षक एवं नोडल अधिकारी, वन संरक्षक इन्दिरानगर फारेस्ट कालोनी देहरादून का कार्यालय पत्रांक संख्या 1660 / FP/UK/ROAD/40975/2019, दिनांक 10.01.2022।

महोदय,

उपरोक्त विषयक सन्दर्भित पत्र से उक्त प्रकरण पर लगाई गई ऑनलाइन आपत्ति का निराकरण कर प्रयोक्ता एजेन्सी द्वारा अपने कार्यालय पत्रांक संख्या 945/3 एल0ए0, दिनांक 29.07.2022 द्वारा इस कार्यालय में प्रस्तुत किया गया है। प्रस्तुत निराकरण आख्या परियोजना पर स्वीकृति हेतु निम्नानुसार अग्रसारित की जाती है।

क्र०सं०	आपत्ति	आख्या
1	राज्य सरकार द्वारा आनलाइन पोर्टल पर पार्ट-1 में अपलोड किये गये सभी दस्तावेज सही तरीके से Scanned नहीं है। अतः राज्य सरकार से अनुरोध है कि सभी दस्तावेज की original प्रति सही प्रकार से scan कर अपलोड करने का कष्ट करें।	आनलाइन पोर्टल पर पार्ट-1 में सभी दस्तावेज की original प्रति सही प्रकार से scan कर अपलोड कर दी गयी है।
2	राज्य सरकार द्वारा अपलोड की गयी KML फाइल से प्रतीत होता है कि ग्राम पूर्व में ही मार्ग से जुड़ा हुआ है। अतः आपसे अनुरोध है कि इस सम्बन्ध में अपना स्पष्ट प्रतिवेदन प्रस्तुत करने का कष्ट करें।	उक्त ग्राम पूर्व में किसी भी मार्ग से नहीं जुड़ा है।
3	उपलब्ध समस्त road network को KML पर दर्शाते नहीं किया गया है। अतः आपसे अनुरोध है कि उपलब्ध समस्त road network को KML पर दर्शा कर अपलोड करने का कष्ट करें।	समस्त road network को KML पर दर्शा कर अपलोड कर दिया गया है।
4	प्रस्ताव के अवलोकन के उपरान्त यह प्रतीत होता है कि alternatives का भी उचित परीक्षण कर पूर्ण जानकारी प्रेषित करने का कष्ट करें।	Alternatives Alignment में ग्रामवासियों द्वारा विवाद किया जा रहा था, जिस कारण Alignment 1 को प्राथमिकता दी गयी है।

संलग्नक- उपरोक्तानुसार।

भवदीय,

(पुनीत तोमर)

प्रभागीय वनाधिकारी
उत्तरकाशी वन प्रभाग, उत्तरकाशी।

कार्यालय प्रमुख अभियन्ता एवं विभागाध्यक्ष
उत्तराखण्ड लोक निर्माण विभाग,
देहरादून

सू-गर्भीय निरीक्षण आख्या ए0जी0-- 33/सड़क/पुल/सम्बन्ध/उत्तराखण्ड/गढ़वाल--2016

Geological assessment of 2 km long alignment corridor
proposed for the construction of motor road joining
Bhadeshwar mandir in Pujargaon with the Chinyalisaur-
Jaugath motor road, Chinyalisaur block, Distt. Uttarkashi

25 फरवरी .2017

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Jaugath motor road, Chinyalisaur block, Distt. Uttarkashi

Shiv Kumar Rai

25.02.2017

1- Introduction:- The Provincial Division, Public Works Department, Chinyalisaur vide G.O. No. 333/III(2)/14-46/2013 dated 21.01.2014 has been entrusted for the construction of 2 km long motor road (Actual length is 1.825 km on the hill slope) joining Bhaeshwar mandir in Pujargaon with the Chinyalisaur-Jaugath motor road, Chinyalisaur Block, Yamnoutri Constituency, Distt. Uttarkashi. On the request made by Er. D.K. Bisht, Executive Engineer I carried out the geological Assessment of the proposed alignment corridor on 13.01.2017. Er. P.K Aggarwal, Asstt. Engineer also accompanied the site visit.

2- Location:- The proposed alignment corridor of the above said motor road originates from the Bhadeshwar mandir of Pujargaon and ultimately joins with the Chinyalisaur -Jaugath motor road comprising 2 HP bend at Chainage 0/27 and 0/35 of 1.825 km across the hill slope.

3- Geological Assessment:- Chinyalisaur and its surrounding areas including the alignment corridor geologically forms a part of Garhwal Lesser Himalayan Belt. This area is represented by the rocks quartzites, phyllites, shales/slates belonging to Nathuakhan and Betal Ghat formation of Ramgarh Group and the Berinag quartzite of Jaunsar Group. The terrain containing this alignment is characterized by the hill slopes including gently between 30° - 35° . Most of this alignment corridor comprised the thick cover of overburden material and scant outcrops of bed rocks. The rocky slopes are exposed in isolated stretches of irregular pattern. The rock quartzites exposed along this alignment corridor are interbedded by thin bands of slates. Generally the rocks exposed along the alignment are slightly weathered, moderately hard and dissected by many numerous joint sets. The joint planes are linear and tight. According to the estimation made manually at the site the "Uniaxial Compressive Strength" of the rock masses exposed on the cross slopes of this alignment was found ranging between 80 M Pa to 100 M Pa. At places where the rock masses are sheared, shattered, tectonized and distressed in nature these values could not be obtained. This may be due to the affect of the Srinagar Thrust (ST) and a located fault presenting the surrounding vicinity.

The overburden material deposited on the cross slopes of this alignment is naturally dense, hard, compact in nature and it is comprised of the isolated rock fragments embedded in the sandy silty clayey matrix. Huge boulders are also exposed on the cross slope which indicate that this area undergone a sliding activity in ancient time. The soils are mostly clayey and good cohesive in nature. The overburden material deposited on the cross slopes of this alignment do not contain any soft/dispersive soils. These soils exhibits good physical competence in dry state. According to the assessment made at the site the "Undrained Shear Strength" of the composite soils exposed along this alignment was found ranging between 3350 K Pa to 450 K Pa.

The terraces developed on these slopes which are adjacent to the corridor are undeformed and do not manifest signatures related to the downward and outward movements. The entire visible ground in and around this alignment corridor do not bear signatures related to the ground subsidence and nowhere sink/pot holes were encountered during the walkover survey.

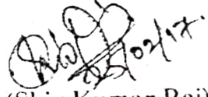
By and large the cross slopes of this alignment are stable and free from any recent landslides and any other mass wasting activities.

On the basis of above geological inspection, study carried at the site following recommendations are being made for the construction of the proposed motor road failing to these recommendations this report will be treated automatically as cancelled.

6- Recommendations:

- 1- Form the road by half cut and half fill technique and compact the fill material by dynamic compaction.
- 2- Do not throw the excavated waste on the lower slope otherwise it will damage the houses located lower slope and lead hill slope stability.
- 3- In order to maintain the overall stability of the hill slopes and the road construct suitably designed retaining walls/ brest walls all along the road.
- 4- Construct large hill side lined/concrete drain all along the road and make adequate cross drainage arrangements.
- 5- Make adequate arrangements to dispose the waste water on the safe/ stable ground.
- 6- All the construction activity must be carried out as per the Indian standards codes of practice and norms prescribed by the BIS.

- 7- **Conclusion:** On the basis of the geological / geotechnical studies carried at the site and with the above recommendations, the proposed 2 km long alignment corridor (actual length is 1.825 km across the hill slope) was found suitable for the construction of motor road joining Bhadeshwar mandir in Pujargaon with the Chinyalisaur-Jaugath motor road comprising 02 HP bénd, Chinyalisaur Block, Yamnourti Constituency, Distt. Uttarkashi.


(Shiv Kumar Rai)

Astt. Geologist
Office of the Engineer in Chief
PWD, Dehradun