

Report No. 53 / TFO-U (Dis)-Rehabilitation/2013-14

RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF SHRI VIMAL DEV SEMWAL S/O LATE VISHAMBHAR DUTT FOR THE CONSTRUCTION OF PRE-FABRICATED HOUSE

VILLAGE LADADI, TEHSIL- BHATWARI- DISTRICT UTTARKASHI, UTTARAKHAND

KHASARA NO - 70, AREA - 0.008 ha

DATE OF INSPECTION- 09/12/2013 and 12/12/2013

The inspection of the site was carried out as per speaking order of District Magistrate. It was carried out in the presence and co-operation of Ranbir Singh Panwar Revenue Sub-Inspector. Shri Vijai Kr. Sen, Consultant Geologist and Shri Shashank Sharma, Consultant Associate Geologist assisted in collection of required field data. The proposed site falls in Village Ladadi (Near Akashvani Colony), Tehsil- Bhatwari, 3 Km approx from District Headquarter Uttarkashi, Uttarakhand and on coordinate - N 30° 43.543' E 78° 26.100' elevation 3846 feet. The approach to the site is 50 m from Ladadi-Bhelura Motar marg on the left bank of river Bhagirathi and is about 500 m approx horizontal distance and 200 m approx vertical distance from the river bank. A 1.5x0.5 feet approx dimension irrigation canal 'Ladadi-Semakoti Canal' passes from nearby at about 10-12 feet distance. The area is densely populated.

The proposed site is on generally colluvial & some alluvial mixed type of ancient river course deposited materials. Presently, antecedent river Bhagirathi is flowing > 250m horizontal distance. The size of boulders of 1-3 m size. The area shows little vegetation cover, flat land with a gentle slope and a thin soil cover with small rounded to sub-rounded rock matrix. And >50m vertical distance. The slope of the hill with a general amount ranges 20° to 25° northerly. In-situ rocks are present and dipping obliquely to the hill slope on down contour level.

RECOMENDATIONS

1. The depth of the foundation must be assessed as varying size colluvial and fluvial boulders are lying beneath the medium thin soil cover.
2. Proper drainage system must be developed within premises, so that instability may not arise to downhill already constructed houses.

CONCLUSION

The proposed site of Shri Vimal Dev Semwal S/O Late Shri Vishambhar Dutt is geologically suitable for construction of prefabricated house with the implementation of above mentioned recommendations.

Date: 13/12/2013

Place: Camp Ladari, Uttarkashi

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