

Report No. 54 / TFO-U (Dis)-Rehabilitation/2013-14

**RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF SHRI PARESHWAR PRASAD SEMWAL S/O LATE VISHAMBHAR DUTT FOR THE CONSTRUCTION OF PREFABRICATED HOUSE VILLAGE LADADI, TEHSIL- BHATWARI- DISTRICT UTTARKASHI, UTTARAKHAND**

**KHASARA NO - 702, AREA - 0.044 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° 43.540' E 78° 26.102' elevation 3842 feet. The approach to the site is 45-50 m from Ladadi-Bhelura Motar marg on the left bank of river Bhagirathi and is about >300 m horizontal distance from the river bank. There is a temporary fence on one side of the proposed site. A 1.5x0.5 feet approx dimension irrigation canal 'Ladadi-Semakoti Canal' passes from nearby at about 10-15 feet distance. The area is densely populated.

Bhagirathi is flowing westerly at the horizontal distance > 250m and vertical >50m distance. The size of boulders of quartzite are 1-3 m dimensions. 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. A retaining wall of 2.5 m approx height with provisions of weep holes, at specific A inclined, stepped retaining wall with provisions of weep holes with appropriate distances about 3.0m height should be constructed
2. The foundation must be assessed the compactness of soil cover over different sizes of alluvial deposits.

**CONCLUSION**

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

**Date: 13/12/2013**

**Place: Camp Ladari, Uttarkashi**

*C/W 13/12/2013*  
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