

Report No. 64 / TFO-U (Dis)-Rehabilitation/2013-14

RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF SHRI CHATTER SINGH S/O SHRI SHANKAR SINGH FOR THE CONSTRUCTION OF PRE-FABRICATED HOUSE VILLAGE SADAG, TEHSIL- BHATWARI- DISTRICT UTTARKASHI, UTTARAKHAND
KHASARA No. - 409, AREA - 0.023 ha.

DATE OF INSPECTION- 14/12/2013

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 Jagmohan Singh, Revenue Sub-Inspector. Shri Deepak Singh, Consultant Geologist and Ms. Anupriya Shah, Consultant Associate Geologist collected the required field data. The proposed site falls in Village Sadag, Tehsil- Bhatwari, 20 Km approx from District Headquarter Uttarkashi, Uttarakhand and on coordinate - N 30° 42.407' E 78° 27.857' elevation 1414 m. The approach to the site is 100 m approx from Uttarkashi-Dhatory-Lamgaon motar marg through bridle path on the right bank of river Indrāvati and is about 500 m approx distance from the bank of river. The proposed site is moderately populated.

The terrace is colluvial with a thickness of 10-15 m approx of overburden material. The site location is, a consolidated landmass and the downhill slope is 20-25° towards southwest for almost 20 m and then there is sudden fall of 60 m with a 80° slope angle. The uphill slope is 50-55° towards NE direction. There is a Gudagnami Nala at 60 m distance in southeast direction from the proposed site. There is insitu rock found 20 m vertically above the site in north direction with interbedding of quartzite and phyllite.

Bedding: Dip Amount- 15°, Dip direction- N 20°, Strike- N 110°

Joint: Dip Amount: 80°, Dip Direction- East, Strike- N-S

The area shows little vegetation cover and is a cultivated land.

RECOMENDATIONS

1. Inclined retaining wall with a slope of 1:3 on the backside in NE direction and on the downhill side in SW direction of the proposed site with provisions of weep holes, at specific distances should be constructed.
2. For the proposed site the depth of the foundation should be estimated according to the compactness of overburden, for the sustainability of the pre-fabricated house.
3. The premises of the house should be made cemented with proper drainage system along with proper channels to be developed to discharge rain water from uphill side and water to be discharged towards the Gudagnami Nala.

CONCLUSION

Prima-facie, the proposed site of Shri. Chatter Singh S/o Shri. Shankar Singh is geologically suitable for construction of prefabricated house with the implementation of above mentioned recommendation.

Date: 14/12/2013

Place: Camp Ladari, Uttarkashi

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