

Report No. 61 / TFO-U (Dis)-Rehabilitation/2013-14

RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF SHRI SHOBENDRA SINGH S/O SHRI VIJENDRA SINGH FOR THE CONSTRUCTION OF PRE-FABRICATED HOUSE

VILLAGE TIPRI, TEHSIL- CHINYALISAUR- DISTRICT UTTARKASHI, UTTARAKHAND

KHASARA NO - 1246

AREA - 0.015 ha

DATE OF INSPECTION- 10/12/2013

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 Parmanand Nautiyal, Revenue Sub-Inspector. Shri Kailash Chandra Sati, Senior Consultant and Vivek Sahu, Associate Consultant Geologist assisted in collection of field data. The proposed site falls in Village Tipri, Tehsil- Chinyalisaur, 75 Km approx from District Headquarter Uttarkashi, Uttarakhand and on coordinate - N 30°39'22.3" E 78° 14'13.5" elevation 1416 m. The proposed site is just uphill side from road. The area is less populated.

In the area, the in-situ rock is dominantly phyllitic exposure of grey colour. The outcrop is highly weathered and highly jointed and fractured (fused flaky). The proposed site is covered by overburden having thin layer of soil with sub-angular to angular fragments of phyllite of varying size from 2-5 cm in soil matrix. The area show poor vegetation. The detailed structural component of the in-situ rock is as follows:

Dip Dir. of the In-situ rock- N 20° E

Dip amount of In-situ rock- 40°

There were 3 prominent joint sets with orientation direction as vertical, N 20° E, N 20° W and a random joint set and with joint spacing varying from 2-5 cm. The rocks are highly fractured, folded and thinly foliated.

The proposed site is on overburden material. The proposed site is flat land on slopes with 35°-40° uphill slope and 30°-35° downhill slope, sloping in N 30° E.

RECOMENDATIONS

1. A retaining wall of atleast 10 m length and 2 m height approx with a good foundation at the road side of the proposed site is strongly recommended.
2. Proper drainage control channels have to be developed for flow of surface and sub-surface water discharge.

CONCLUSION

Prima-facie, the proposed site of Shri. Shobender Singh S/O Shri. Vijender Singh is geologically suitable for construction of prefabricated houses with the implementation of above mentioned recommendation.

Date: 11/12/2013

Place: Camp Ladari, Uttarkashi

D.S.Chand
11/12/2013

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Assistant Geologist

Dept of Mines and Geology