

Report No. 63 / TFO-U (Dis)-Rehabilitation/2013-14

**RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF SHRI SUNDER SINGH
S/O SHRI DHYAN SINGH FOR THE CONSTRUCTION OF PRE-FABRICATED HOUSE
VILLAGE JASPUR, TEHSIL- CHINYALISAUR- DISTRICT UTTARKASHI, UTTARAKHAND**

KHASARA NO - 1809 and 1810

AREA - 0.0024 ha & 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 Dinesh Singh Rawat, 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 Jaspur, Tehsil- Chinyalisaur, 50 Km approx from District Headquarter Uttarkashi, Uttarakhand and on coordinate - N 30°37'16.4" E 78° 20'29.8" elevation 1375 m. The approach to the site is through 4 km bridle path from Dharasu H.E.P. HRT Road on the left bank of river Bhagirathi and is about 400 m approx distance from the river bank. The area is less populated.

In the area the in-situ rock is dominantly phyllitic exposure of greenish grey colour. The outcrop is moderately weathered and highly jointed and fractured. The proposed site is covered by overburden having thin layer of soil with sub-angular to angular fragments of phyllite of varying size from 2-10 cm in soil matrix. The area show poor vegetation of pine trees. The detailed structural component of the in-situ rock is as follows:

Dip Dir. of the In-situ rock- N 50° W

Dip amount of In-situ rock- 32°

There were 3 prominent joint sets with orientation direction as N 10° E, S 30° W, N 50° 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 10°-15° uphill slope and 35°-40° downhill slope, sloping in S 60° W.

RECOMENDATIONS

1. A retaining wall of atleast 10 m length and 4 m height approx with a good foundation at the toe of the proposed site is strongly recommended.
2. To manage the flow of surface and sub-surface water discharge, a proper drainage control has to be developed within premises.

CONCLUSION

Prima-facie, the proposed site of Shri. Sunder Singh S/O Shri. Dhyan Singh is geologically suitable for construction of prefabricated house with the implementation of above mentioned recommendation before the onset of monsoon.

Date: 11/12/2013

Place: Camp Ladari, Uttarkashi

D.S.Chand
11/12/2013

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