

RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF SHRI HARDEV SINGH S/o SHRI JAYENDRA SINGH FOR THE CONSTRUCTION OF OWNER DRIVEN CONSTRUCTION FOR HOUSING (ODCH) TOWN AREA BARKOT, TEHSIL- BARKOT- DISTRICT UTTARKASHI, UTTARAKHAND
KHASARA No. – 1280(b) & AREA – 0.008 ha.

Date of Inspection: 27/01/14

In a 'World Bank' funded programme, Government of Uttarakhand has provided teams of Consultant Geologists and Consultant Associate Geologists to Director, Geology and Mining Unit, Uttarakhand for geological studies in proposed sites for Owner Driven Construction For Housing (ODCH) in disaster affected districts of Uttarakhand.

Director, Geology and Mining Unit, Directorate of Industries, Uttarakhand has issued an Office Order No.1612 Aa. Pra./Bhu.Ni./Bhu.Khani.E./2013-14 dated 10thDecember 2013 regarding geological studies in disaster affected five districts of Uttarakhand, Uttarkashi is one of them. Thus, undersigned have taken geological observation during traverses and collected field geological data under the management of cosignatory departmental 'Assistant Geologist'.

In the above mentioned questioned area, the reconnaissance geological investigation was carried out in the presence and co-operation of Shri H. S. Aswal, Revenue Sub-Inspector. It is 2Km approx from Tehsil Headquarter Barkot, Uttarkashi, Uttarakhand and the site is 250m approx from Barkot-Uttarkashi Road through Town area-Barkot gaon bridle path. It falls on coordinate – N 30^o 48'41.8" E 78^o 12'38.1" El. 1289m. The site is in left bank of Yamuna river flowing east to west and is in town area which is highly populated and least vegetated. At the proposed site foundation work is already under progress.

The proposed site is on river born material varying in thickness range from >30m approx. The site is in town area and thus is a flat land urban area. The hill slope is about 250-300m having slope 35^o-40^o sloping in NW direction.



Close views of the proposed site

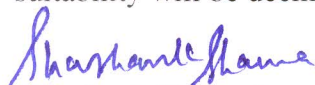
The proposed site is on river born material thus no insitu rock is found. Man-made terraces and flat land are present with brown colour silty clay soil having quartz fragments of size 0.3-5cm mix in the soil matrix. The soil is consolidated; the rate of infiltration is medium making the soil moist. At and around the proposed site location the water seepage is low.

RECOMMENDATIONS:

1. The surface drainage should be properly planned through lined drain/pipe, so both rain water as well as waste water from the existing houses to be release safe place.
2. The foundation depth of the houses must be as per the compactness of the overburden material at the proposed site.
3. Framed structure with deep column and light roof must be constructed as the area falls in the earthquake zone IV, so it is essential that the house must be constructed with latest earthquake resistive techniques.
4. The soak pits and toilet foundations must be away from the house so that the foundations are not directly affected from subsidence due to excessive seepage.
5. The foundation and premises of house must be made 'pukka' in order to avoid excessive seepage of the surface water.

CONCLUSION:

Prima-facie, presently, the proposed site of Shri Hardev Singh S/o Shri Jayendra Singh is geologically feasible for the proposed construction, only if, the above mentioned recommendations will be followed strictly, otherwise, in their contravention; geologically suitability will be deemed annulled.


(Shashank Sharma)

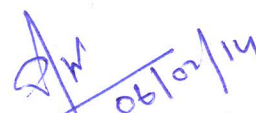
Consultant Associate Geologist



(Deepak Singh)

Consultant Geologist

Place: Camp Uttarkashi


06/02/14

(Dipender Singh Chand)

Assistant Geologist

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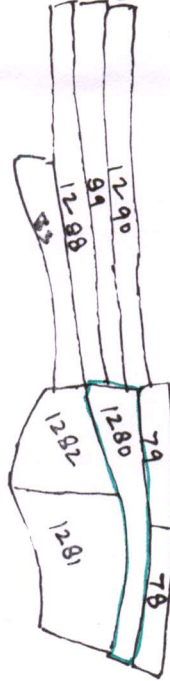
द्वेष नक्शा मौजा - बड़का 2

पन्नी - बड़कोट तहसील - बड़कोट

जिला - उत्तरकाशी,

पैमाना 64" = 1 मील

खण्ड नं० 1280 का चौहकी



पूर्व दिशा - 1279 खण्ड नं० गिरीश आदि

पश्चिम दिशा - खण्ड नं० 1282 अजय सिंह

उत्तर दिशा - खण्ड नं० 1189, 1190 देवेन्द्र सिंह

दक्षिण दिशा - खण्ड नं० 1280 का चौहकी आदि

संकेतक

 नाप शीत

प्रस्तावित स्थल O.D.U.

27/1/14
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 05/1/14

सिविल इंजीनियर
 बड़कोट, बड़कोट
 उत्तरकाशी