

**RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF
SHRI JAWAHAR SINGH S/O SHRI POORCHAND FOR THE CONSTRUCTION OF
OWNER DRIVEN CONSTRUCTION FOR HOUSING (ODCH)
VILLAGE-DIYADI, TEHSIL- BARKOT, DIST.- UTTARKASHI
KHASARA NO – 1973, 1974 & AREA – 0.008ha, 0.008ha**

Date of Inspection: 24-12-2013

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 10th December 2013 regarding geological studies in disaster affected five districts of Uttarakhand. District Uttarkashi is one of them where the undersigned took traverses and collected field geological observations 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 Upendra Singh Rana, Revenue Sub-Inspector. The site is 63km approximately from Tehsil Barkot, District Uttarkashi, Uttarakhand by NH-123 (Delhi-Yamunotri National Highway) via Damta-Kandari Motor Marg and 200m on bridle path from road. It falls on coordinates – N 30°36.710' E 78°03.333' and elevation 1521m. The site is highly populated.

Construction already started at the proposed site



A side view from South direction of the proposed site.



A far view from SW direction of the proposed site.

The proposed site is situated on a colluvial terrace in centre of the Village Diyadi. The overburden thickness in the proposed site is about 15-20m approximately. There are fragments of phyllite and siltstone in the overburden material of approximately 5-10cm in

size. The uphill slope about 150m from the site is 50°-60° towards SW direction and the general slope of the area slope is 10°-15° in SW direction. In SE direction of the site the downhill slope is steep of 70°-80° towards SE direction. There is a perennial 'Arwan Khad' Nala about 50m in SE direction of the site and another seasonal 'Godiyan Khad' Nala about 50m in NW direction of the site which converges together at 'Ukhiyan Tok' about 150m in SW direction of the site. Already the construction of the house has started at the site and almost a single storey is been completed. The backside wall of the house is attached to the back hill slope.

RECOMMENDATIONS:

Based on above surface geological observations of the proposed area the following remedial measures for construction of a geologically suitable house are recommended:

1. A two-step inclined retaining wall of 5m on South side of the proposed site must be constructed with proper weep holes at specific distance for enhanced stability of the plot.
2. The weep-holes passage should be clear to discharge subsurface water to maintain stability of foundation of the house.
3. A cemented drainage channel must be constructed at the backside of the house to avoid seepage into the house.
4. A proper drainage system with drain pipes and discharge towards SE direction needs to be developed.
5. As the area falls in Lesser Himalayan earthquake zone IV, light weight and slanting roof, framed structure, deep column and single or double storied house construction is preferable.

CONCLUSION:

Prima-facie, the proposed site of Shri Jawahar Singh S/o Shri Poorchand, is geologically feasible for the proposed construction, with the strict implementation of the above mentioned recommendations, otherwise, in their contravention; geological suitability will be deemed voided.

Anupriya

(Anupriya Shah)
Consultant Associate Geologist

Date: *5th Jan, 2014*
Place: Camp Uttarkashi

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(Deepak Singh)
Consultant Geologist

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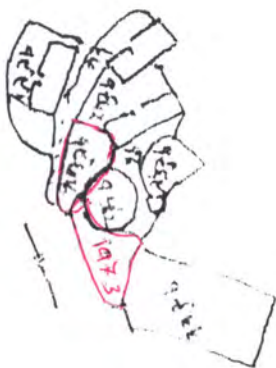
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मक्या मीजा - रिपार्डी मध्ये गीब का क्षी जगादरमिटे ७० पुरचुड ५१० रिपार्डी वीर के प्रीपेक्षित
 भवन देर प्रस्ताकिर अरि का रा० ७० नि० क्षेत्र - डामटा तदसिल - वदरोड तिली - उत्रावारी
 पैमाना ६५" = १ मील

संदेह - १) पूर्व में खूड का मीबा उभा खूड पर

- १) पश्चिम में मेहरसिंह का भवन
- २) उत्तर में मेहरसिंह का भवन
- ३) दक्षिण में जयजानासिंह का भवन
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 क्षेत्र

सरा मीजा - दिवाडी मध्ये श्री अवाहर सि ७० प्रचन्द जी प्रीप्रोपियेरेट मय लेट
 प्रस्तावित भूमि का राय उपरो क्षेत्र- ३०५ तहसील - बजरोट जिला - महाराष्ट्र

खसरा न०	रकबा हे० म०	खाल खतेत स०	खालेदार का नाम पिता/पाने का नाम एवं निवास्थान	विवरण
1	2	3	4	5
1973	0.008	22	हुकमासिंह कुन्वसिंह विक्रमसिंह कमलासिंह वीतराम, प्रचन्द १० केवलू	प्रस्तावित भूमि रकबा 1973 व 1974 प्रस्तावित व्यक्ति अवाहरसिंह व प्रचन्द के नाम संपुम्त खाले म० दर्ज कारिलेक है. जोकि अवाहरसिंह के हिसा म० दोष वर्ग गप है।
1974	0.008	23	हुकमासिंह आदिकर 48	

प्रस्तावित
 27/11/13
 R.S. Ramdas

वेमाल (35)
 27.11.13
 श्री ३३ नि० अ०