

RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF SHRI DURGU S/o SHRI KANSRU FOR THE CONSTRUCTION OF OWNER DRIVEN CONSTRUCTION FOR HOUSING (ODCH) TOK CHANDI, VILLAGE DADGANGAON, TEHSIL- MORI- DISTRICT UTTARKASHI, UTTARAKHAND
KHASARA No. – 1417 & AREA – 0.010 ha.

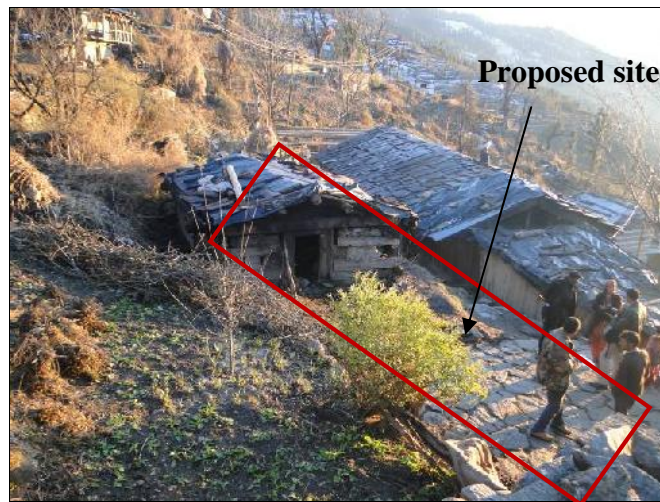
Date of Inspection: 19/01/14

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 Jaipal Singh, Homeguard. It is 22Km approx from Tehsil Headquarter Mori, Uttarkashi, Uttarakhand and the site is 1.5Km approx from Mori-Naitwad-Haltadi motarmarg through Dadgangaon-Haltadi village bridle path. It falls on coordinate – N 31^o 04'05.1" E 78^o 07'31.5" El. 1992m. The site is in Tok Chandhi of village Dadgangaon, which is densely populated.

The proposed site is on mix colluvial overburden material varying in thickness range from 1.5-2m approx at places, man-made cultivated terraces are present. The uphill slope is 27^o-29^o and the downhill slope is 30^o-32^o sloping in SW direction. Around the proposed site location moderate mix Pine, Banjh, etc., vegetation is present.



Close view of the proposed site


As the site is on overburden material thus no in-situ rocks are found, blackish brown clayey soil with quartz fragments of size 1-5cm is found. The soil is consolidated; the rate of infiltration is low making the soil water saturation low. At the proposed site location the water seepage is low. A retaining wall in the NE uphill side boundary is already present.


RECOMMENDATIONS:


1. The retaining wall in the NE uphill boundary of the site should be re-developed with proper inclination and depth of foundation more than the foundation depth of the proposed construction and also drainage between the backside retaining wall and the wall of the house should be constructed.
2. At the SW toe boundary a retaining wall should be developed with greater depth of foundation and provisions of weep holes at specific distances.
3. 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 in south direction along a channel.
4. The foundation depth of the houses must be as per the compactness of the overburden material at the proposed site.
5. 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.
6. The soak pits and toilet foundations must be quiet away in south side from the house so that the foundations are not directly affected from subsidence due to excessive seepage.
7. The 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 Durgu S/o Shri Kansru 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.

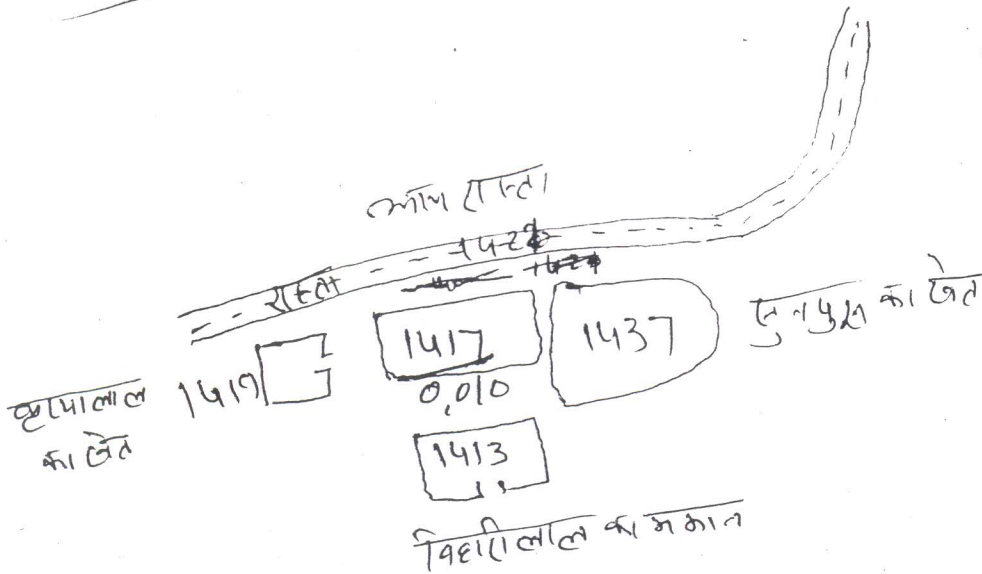

(Shashank Sharma)
Consultant Associate Geologist
Place: Camp Uttarkashi


(Vijai Kr. Sen)
Consultant Geologist


(Dipender Singh Chand)
Assistant Geologist
Mob: 8192802331
Email id: agddn-dgm-uk@nic.in

नौली नकशा ग्राम देहातगाव
x

धरणी - कुई आं कसल देहातगाव



जालरा नं० 1417 रकम 0.010 हे० कुई का जेत

- धरणी -
- ① उत्तर दिशा के जालरा नं० 1420 रास्ता
 - ② पश्चिम दिशा के जालरा नं० 1413 विद्यालाल का भकात
 - ③ उत्तर दिशा के जालरा नं० 1419 कृष्णलाल का जेत
 - ④ दक्षिण दिशा के जालरा नं० 1437 सुतयुक्त का जेत

खसरा

कुई आं	कुई खां	उत्तरांकल	कुई
1417	0.010	0.010	

सुतयुक्त का जेत
5/12/013