

**RECONNAISSANCE GEOLOGICAL REPORT OF SMT. ANITA W/o SHRI
SAKALCHAND FOR THE PROPOSED CONSTRUCTION OF OWNER DRIVEN
CONSTRUCTION HOUSING (ODCH)
VILLAGE-DHYORA, TEHSIL- PUROLA, DIST.- UTTARKASHI
KHASRA No.- 448 & AREA - 0.023 ha.**

Date of Inspection: 28-12-2013

In a 'World Bank' funded programme, Government of Uttarakhand has teams for geological studies in sites proposed for Owner Driven Construction House (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 Kamleshwar Prasad Nautiyal, Revenue Inspector, Purola. The proposed construction site is located 4km away from district headquarter Purola and 150m valley side in east direction from Purola-Mori motor road. It falls on coordinate – N 30^o54'30.9"E 78^o05'4" and El.1477m from msl.

The proposed site situated on the overburden which is man-made flat colluvial terrace with low vegetation around. At 200m horizontal distance in the west direction on the right bank of Kamal River, at 100m in north direction Dhyora Khadd perennial Nala is present at about 200m in south direction Sumati Khadd is present. 1-2m approximate thickness of overburden with phyllite fragments 1-5cm in size with fine grained black-brown clayey soil matrix. Bedrock has not been found at the proposed site.

General slope of the proposed site is 15^o-20^o and the uphill slope is 20^o-25^o & downhill slope is 10^o-15^o towards E direction. At the site old damaged structure is present. In the surrounding area there is no problem of water seepage.



Close view of the propose site


RECOMMENDATIONS:

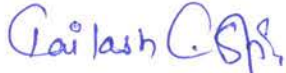
Based on above surface geological observations, the proposed area seems geologically suitable for the proposed building construction. The following remedial measures are recommended for safety:

1. The foundation depth of the house must be as per the compactness of the overburden material in the proposed site.
2. The backside retaining must be reconstructed with proper inclination and should be provided with screening material to keep the weep-holes passage clear for discharge of subsurface water to maintain stability of foundation of the house.
3. The soak pits and toilet foundations must be quiet away from the house so that the foundations are not directly affected from subsidence due to excessive seepage.
4. A minimum distance of 1-1.20m should be maintained in between the backside retaining wall and the back wall of the house to avoid seepage into the house.
5. As the area falls in Lesser Himalayan earthquake zone IV, light weight roof, deep column, framed structure, and single or double storied house construction is preferable.

CONCLUSION:


Prima-facie, presently, the proposed site of Smt. Anita W/o Shri Sakal Chand is geologically feasible for the proposed construction, only if, the above mentioned recommendations will be followed strictly, otherwise, in their contravention the geological suitability will be deemed void.

(Vivek Sahu) 
Associate Consultant Geologist


(Kailash Chandra Sati)
Consultant Geologist

Date:

Place: Uttarkashi


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नाममात्र मीजा ~~आ~~ द्याशा लागत (सुनाल) तहसील पुणेला ग्रहण
 नसून ग्रामि का जिस पर सीमा अनिष्ट पली सुकल वस्तु
 का आवासीय भवन बना या जो देवी आपदा ~~अ~~ व्यक्ति
 से पूर्ण व्यक्तिप्रस्त हूँ, जिस ग्रामि पर प्रभावित महिला
 पुनः भवन निर्माण करना - वादी हूँ

नाममात्र मीजा



प्रस्तावक
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राज्य कायदा विभाग के अधीन स्थित जिला प्रशासनिक सेवा आयोग द्वारा

प्रश्न 1 कायदा विभाग के अधीन स्थित

BBZ 01023 01012

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