

RECONNAISSANCE GEOLOGICAL REPORT OF SHRI JAGDEESH PRASAD S/o
SHRI VISHAMBHER DUTT FOR THE PROPOSED CONSTRUCTION OF OWNER
DRIVEN CONSTRUCTION HOUSING (ODCH)
VILLAGE-GORSARA, TEHSIL- DUNDA, DIST.- UTTARKASHI
KHASRA No.-465 & AREA-0.015 ha.

Date of Inspection: 23-12-2013

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, 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. Pyar Singh Chauhan, Revenue Sub-Inspector, Dhauntri. The proposed construction site is located 66km away from district headquarter Uttarkashi, 100m hill side by foot away from Uttarkashi-Lamgaun motor road, and of falls on alluvial fan deposits. At 500m horizontal distance in the west direction Jalkur Gad is present. The area is low populated and proposed site is low vegetated. It falls on the coordinates N 30°32'40.3" E 78°30'1.5" and El. 1394m from msl.

The proposed site situated on the overburden which is manmade flat hill terrace. At 500m horizontal distance in the west direction Jalkurgad present, about 0.5-1m thickness of overburden, in overburden fragments of quartzite and phyllite are varying 2-6cm and 1-2m boulders in size with fine grained brownish clayey soil matrix. The proposed site is cultivated and low vegetated. General slope of the proposed site is 20°-25°, about 30m hill side from proposed site slope trending 40°-45° eastward and valley side slope is trending 50°-55° moderate to steep in west direction towards Jalkurgad.

The proposed site is located on ridge of the rocky manmade flat hill, surrounding house and wall is safe before 5 years and no effect in this rainy season.



Close view of the proposed 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. A inclined retaining wall at the back side; with provisions of weep holes and sufficient gap of about 0.5-1.0m in between the backside retaining wall and the proposed construction should be constructed and also, proper drainage system between the retaining wall and the wall of house should be developed.
2. The surface drainage should be properly planned through lined drain/pipe, so both, rain water from uphill side as well as waste water from the existing houses to be release safe place at down-hill along a channel with more dimensions than that of maximum possible volume of water.
3. The foundation depth of the houses must be as per the compactness of the overburden material in the proposed site.
4. 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.
5. Framed structure with 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.


CONCLUSION:

Prima-facie, presently, the proposed site of Shri Jagdish Prasad S/o Shri Vishamber Dutt 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 canceled.

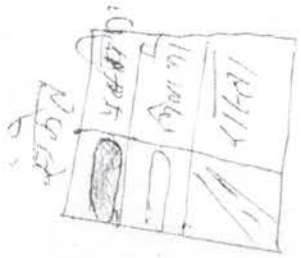

(Vivek Sahu)
Consultant Associate
Geologist

Date:
Place: Uttarkashi

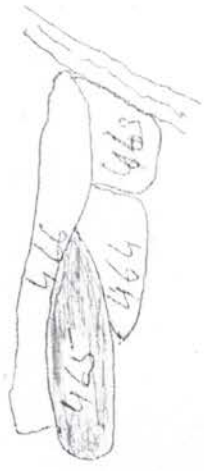

(Kailash Chandra Sati)
Consultant Geologist


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

Box 1
1179 1414 226 1104 503
10133 P 110115 1311
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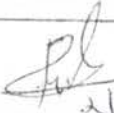


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