

RECONNAISSANCE GEOLOGICAL REPORT OF SHRI SAYBU
S/O SHRI BHAGTA FOR THE PROPOSED CONSTRUCTION OF OWNER
DRIVEN CONSTRUCTION HOUSING (ODCH)
VILLAGE-DHAMPUR, TEHSIL- PUROLA, DIST.- UTTARKASHI
KHASRA NO. -432,424 & AREA -0.010 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 proposed construction area, a reconnaissance geological investigation was carried out in the presence and co-operation of Shri Kamleshwar Prasad Nautiyal, Revenue Inspector Purola. It is located 5km away from Tehsil headquarter Purola and on road head Purola-Ghandiyargaun motor road. It falls on coordinate – N 30^o53'53.7" E 78^o05'56.1" and El. 1444m from msl.

Geomorphologically, the site is located on colluvial deposit, no in-situ rocks are exposed and around the site man-made cultivated terraces are present. The thickness of overburden is varying at places in between 1-2m approx with fragments embedded in the fine grained darkish brown soil at the proposed site. The fragments of schistose gneiss, varying in size from 2cm to 5cm approx, are found embedded in the soil matrix. The general slope of the hillock is 20^o -25^o westward. In uphill side the slope is 25^o-30^o and downhill side the slope is 20^o-25^o. The site location is covered with thick soil cover varies 1-1.5m approx. At western side of the land 7m length retaining wall is under construction.

The Propose Site
above the Purola-
Ghandiyalgaun
motor marg



3m height and 7m
length retaining wall
below the proposed site
is under construction

South-west direction view of the propose site

RECOMMENDATIONS:

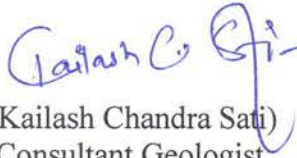
Based on above surface geological observations, the proposed area seems geologically suitable for the proposed building construction. The following remedial measures are recommended for safety:

1. The foundation depth of the house must be as per the compactness of the overburden material on depend stories of the house in the proposed site.
2. The retaining wall in eastern backside must be provided with depth of foundation more than that of the proposed construction, screening material to keep the weep-holes passage clear for discharge of subsurface water to maintain the stability of foundation of the house and the retaining wall in downhill side should be re-developed with provisions of weep holes at specific distance.
3. The surface drainage should be properly planned through lined drain/pipe, so both, rainwater from uphill side as well as waste water from the existing houses to be released to safer place at west direction along a CC channel with more dimensions than that of maximum possible volume of water.
4. The soak pits and toilet foundations must be quiet away from the house in the downhill side, so that the foundations are not directly affected from subsidence due to excessive seepage.
5. A minimum distance of 1.0m-1.20m should be kept in between the backside retaining wall and the backside wall of the house to avoid seepage in the house.
6. As the area falls in Lesser Himalayan earthquake zone IV, light weight of roof, deep column, framed structure, and single or double storied house construction is preferable.


CONCLUSION:

Prima-facie, presently, the proposed site of Shri Saybu S/o Shri Bhagta 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.

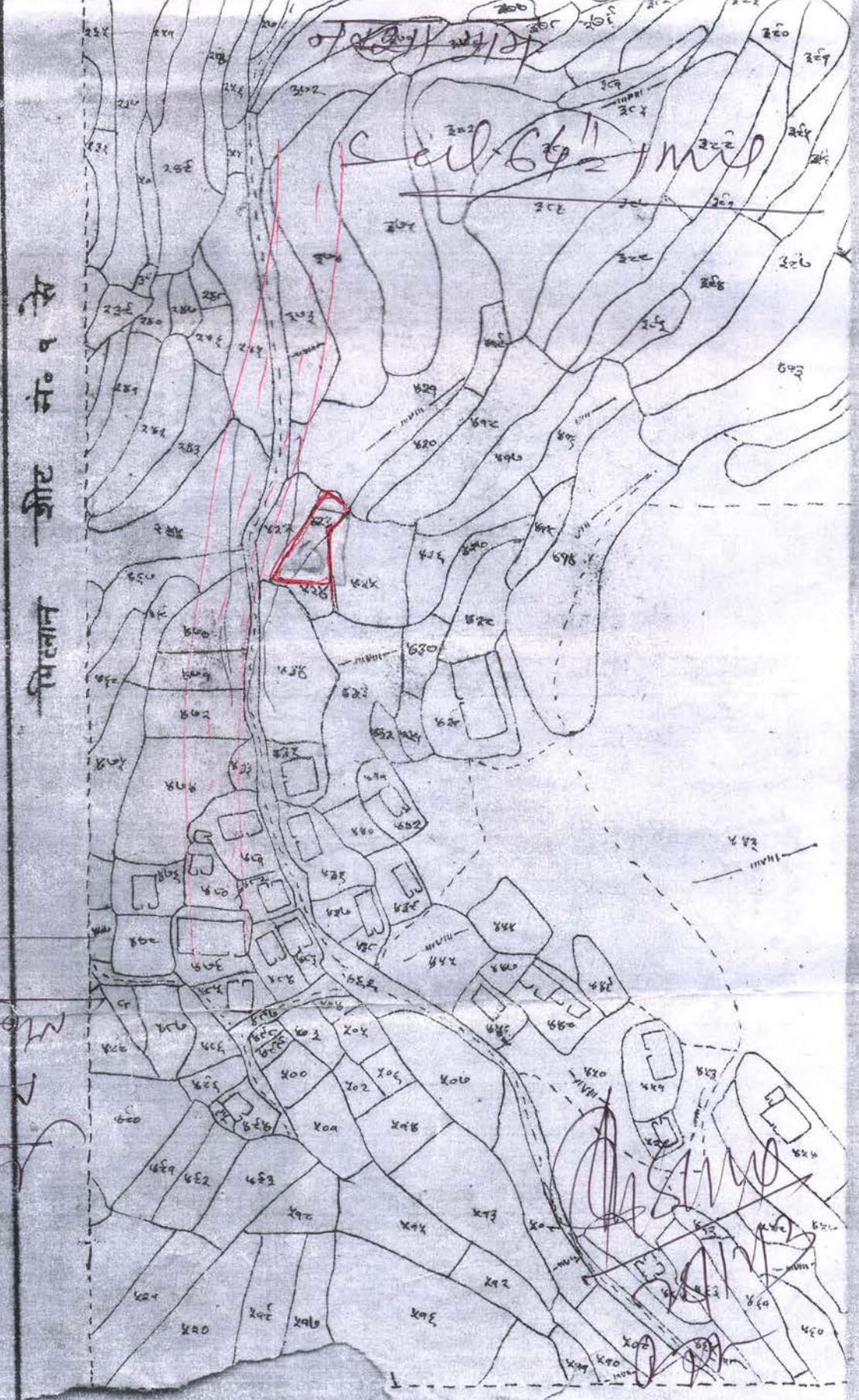

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नवश्री गाम धामपुर मध्य अरु ग्रामिणा गा आमाका
 खोलाका लागि स. मजान का भवन निर्माण हेतु प्रस्तावित



Scale 6 1/2" = 1 mile

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खोलाका लागि
 मजान का
 भवन निर्माण

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