

RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF
SHRI AMI DAS S/o SHRI PYAR DAS FOR THE CONSTRUCTION OF
OWNER DRIVEN CONSTRUCTION FOR HOUSING (ODCH)
TOK JAKHURI, VILLAGE GHAINCHUWAN, TEHSIL- MORI- DISTRICT
UTTARKASHI, UTTARAKHAND
KHASARA No. – 3200(a) & AREA – 0.020 ha.

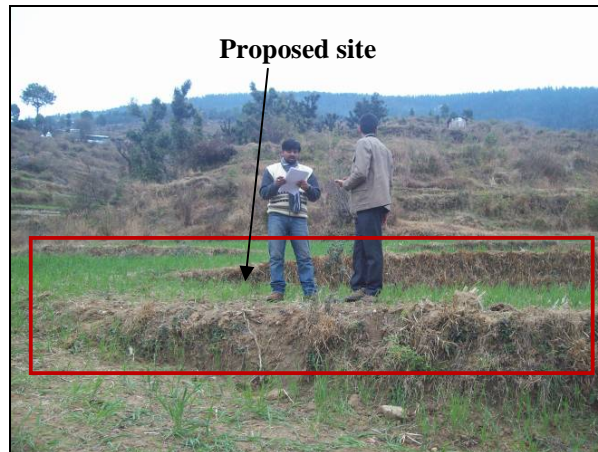
Date of Inspection: 04/02/14

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 Raj kumar Pandey, S.D.M., Purola, Uttarkashi. It is 15Km approx from Tehsil Headquarter Mori, Uttarkashi, Uttarakhand and the site is 250m approx on Devra-Ghainchuwan motar marg through bridle path. It falls on coordinate – N 31^o 03'29.5" E 78^o 06'17" El. 1539.5m. The site is in Tok Jakhuri of village Ghainchuwan, which is least populated.

The proposed site is on colluvial overburden material varying in thickness range from >3m approx at places, man-made cultivated terraces are present. The uphill slope is 20^o-25^o and the downhill slope is 15^o-20^o sloping in west direction. Around the proposed site location least mix vegetation of Banjh, Chulu, etc., is present at about 70m-75m approx in uphill side. A seasonal flow is passing from NE side at about 40m-45m approx flowing in NW direction.



Close view of the proposed site

The proposed site is on colluvial overburden material thus no insitu rock is found but a few boulders varying in size range from 0.5m to 2m approx are found embedded in the brownish soil with fragments of quartz and gneiss of 2cm-7cm approx size. 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. The trees at the uphill slopes are standing straight.

RECOMMENDATIONS:

1. Inclined retaining wall of 2m approx height and 3m approx length at the SE backside boundary and also in the NW toe boundary of the site of 3m approx length, with provisions of weep holes and sufficient gap of about 2-3feet 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 as well as waste water from the existing houses to be release safe place in NE direction along a channel.
3. The foundation depth of the houses must be as per the compactness of the overburden material at the proposed site.
4. 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.
5. The soak pits and toilet foundations must be quiet away in NE side from the house so that the foundations are not directly affected from subsidence due to excessive seepage.
6. 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 Ami Das S/o Shri Pyar Das 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.

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2/11/14 02/02/2014

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तहसील मोरी के ग्राम ~~कलाप~~ ^{खसरा} में माह जून 2013 कीद्वी आपदा में पूर्णरूप से क्षतिग्रस्त भवन के कारण अपनी निजी भूमि पर बनाये जाने वाले प्रभावित व्यक्ति श्री अमीदास पुत्र/पत्नी एनार दास ग्राम कलाप के भूमि का नजरी नक्शा व खसरा



प्रस्तावित खसरा नंबर 3200sq की चौहदी

1. पूरब में खसरा नं० 3199sq रजजान हिंद का क्षेत्र
2. पश्चिम में खसरा नं० 3225 विमोदे हिंद आदि का क्षेत्र
3. दक्षिण में खसरा नं० 3200sq जैन हिंद का क्षेत्र
4. उत्तर में खसरा नं० 3200sq एनार दास का क्षेत्र

खसरा नं० 3200 कुल रकबा 0.080 हे० मध्य प्रस्तावित रकबा 0.020 हे०

R. V. Pandey
उपनिर्वाहक
अधीक्षक

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