

**RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF SHRI
DHANDAS S/o SHRI NAINSUKH FOR THE CONSTRUCTION OF OWNER
DRIVEN CONSTRUCTION FOR HOUSING (ODCH)
VILLAGE PUJELI, TEHSIL- MORI- DISTRICT UTTARKASHI, UTTARAKHAND
KHASARA No. – 639 & AREA – 0.020 ha.**

Date of Inspection: 16/01/14

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 27Km approx from Tehsil Headquarter Mori, Uttarkashi, Uttarakhand and the site is 1.5Km approx from Naitwad-Bhitri motar marg through Pujeli village bridle path. It falls on coordinate – N 31° 06 18.2 E 78° 05 04.6 El. 1662m. The site is in village Pujeli, which is moderately populated. In north direction w.r.t. the site Dewani Khadd is present at about 500m approx distance.

The proposed site is on colluvial overburden material varying in thickness range from 1-2m approx at places, man-made cultivated terraces are present. The uphill slope is 28°-30° and the downhill slope is 30°-32° sloping in west direction. Around the proposed site location least mix vegetation of Banjh, Chulu, etc., is present at about 15-25m approx uphill and downhill side.



Close view of the proposed site

The proposed site is on colluvial overburden material thus no insitu rock is found but a few boulders of granite gneiss in eastern backside varying in size range from 10cm to 0.5m approx are found embedded in the blackish brown soil with fragments of quartz of size


1-10cm approx. The soil is consolidated; the rate of infiltration is medium making the soil water saturation medium. At the proposed site location the water seepage is low. The trees at the uphill and downhill slopes are standing straight.


RECOMMENDATIONS:


1. Inclined retaining wall of 2m approx height and 3m approx length at the eastern backside boundary and also in the western 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 NW 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 NW 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:

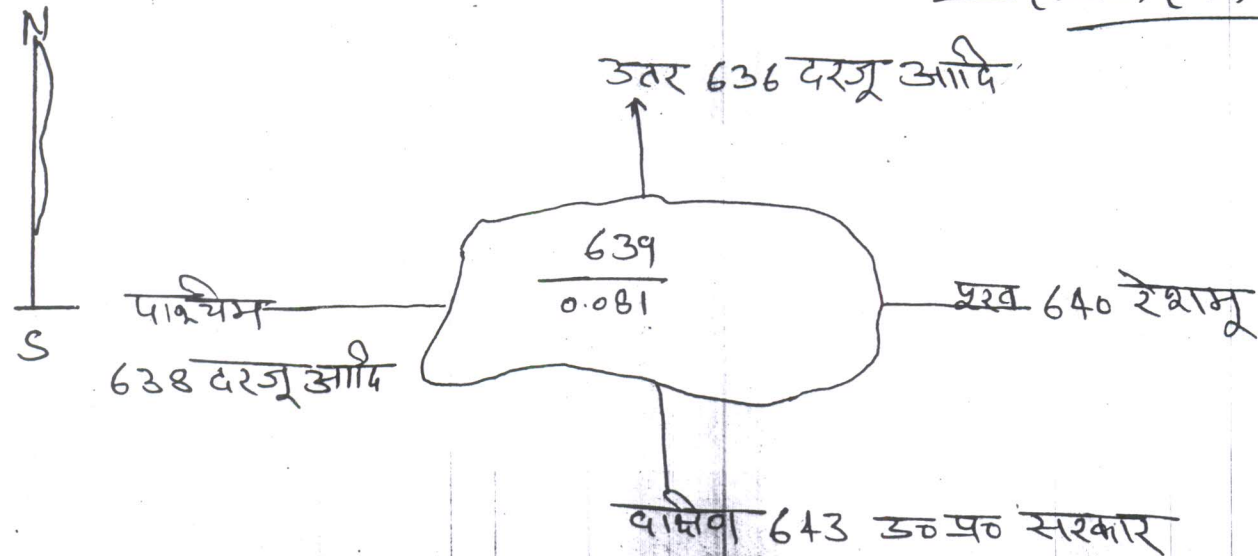
Prima-facie, presently, the proposed site of Shri Dhandas S/o Shri Nainsukh is geologically feasible for the proposed construction, only if, the above mentioned recommendations will be followed strictly, otherwise, in their contravention; geologically suitability will be deemed annulled.


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श्रील मोरी के ग्राम पुजेली में देवी आपदा के कारण पूर्ण प से क्षतिग्रस्त भवन के कारण अपने निर्जी. भूमि पर वना में जाने वाले प्रभक्ति व्यक्ति धनदास के भवन का नजदीक नम्बरा व खसरा 639 खसरा 0.081 हे. प्रस्तावित (खसरा) - 0.020 हे.



क्र. सं.	खसरा	कुल खसरा	प्रस्तावित खसरा
639 म.	0.081	0.020	

खसरा नं. 639 की चौथी निम्न प्रकार है

- (1) पूरव में खसरा नं. 640 रेशामू
- (2) पार्वचिम में खसरा नं. 638 दरजू आदि
- (3) उत्तर में खसरा नं. 636 दरजू आदि
- (4) दक्षिण में खसरा नं. 643 ऊपठ सरकार

(Handwritten signatures and marks)