

**RECONNAISSANCE GEOLOGICAL REPORT OF PROPOSED SITE OF
SHRI KUNWAR SINGH S/O SHRI THEPAD SINGH FOR THE CONSTRUCTION
OF OWNER DRIVEN CONSTRUCTION FOR HOUSING (ODCH)
VILLAGE-KHAMUNDIMALLI, TEHSIL- BARKOT, DIST.- UTTARKASHI
KHASARA NO – 1620, 1622 & AREA – 0.008 ha, 0.006ha**

Date of Inspection: 24-12-2013

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. District Uttarkashi is one of them where the undersigned took traverses and collected field geological observations 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 Khajan Singh Aswal, Revenue Sub-Inspector, Khamundimalli. The site is 60km approximately from Tehsil Barkot, District Uttarkashi, Uttarakhand by NH-123 (Delhi-Yamunotri National Highway) via Damta-Kandari-Khamundimalli Road and then 200-250m on bridle path from road. It falls on coordinates – N 30°38.718' E 78°05.268' and elevation 1786m. The site is highly populated.



A view from SE direction of the proposed site.



A side view from NE direction of the proposed site.

The proposed site is situated on a hill slope in the centre of the Village Khamundimalli surrounded by numerous houses from all sides. The overburden thickness in the proposed site is about 5-10m approximately and is colluvial in nature. The uphill slope

from the site is 25°-30° towards East direction and the downhill slope of the site is approximately 20°-25° towards East direction. A Nala is present about 200-250m from the site in South direction and is flowing in SE direction. The proposed site is less vegetated.

The remains of the previously damaged house are present on the site which must be removed before starting of the new construction. The soil is yellow color with silty clay material. No in-situ rocks found at the proposed site.

RECOMMENDATIONS:

Based on above surface geological observations of the proposed area the following remedial measures for construction of a geologically suitable house are recommended:

1. The depth of foundation of the house must be as per the compactness of the overburden material.
2. An inclined retaining wall of 3m must be constructed in NW direction of the proposed site with proper weep holes at specific distance for enhanced stability of the plot.
3. The weep-holes passage should be clear to discharge subsurface water to maintain stability of foundation of the house.
4. The back, sides and premises of the houses must be made cemented to prevent subsurface seepage and a proper drainage system needs to be developed.
5. As the area falls in Lesser Himalayan earthquake zone IV, light weight and slanting roof, framed structure, and single or double storied house construction is preferable.

CONCLUSION:

Prima-facie, the proposed site of Shri Kunwar Singh S/o Shri Thepad Singh, is geologically feasible for the proposed construction, with the implementation of the above mentioned recommendations.

Anupriya

(Anupriya Shah)
Consultant Associate Geologist

Date: 5th Jan. 2014
Place: Camp Uttarkashi

Deepak

(Deepak Singh)
Consultant Geologist

D/S

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

नक्शा मोजा (कठुणा मला पर्य-जोड १६० नडकोट
 मध्ये विर विरासि के पंपडासिह म् (कठुणा मला
 १६० कचेर मध्ये उर म्मि का म् श्री-केसिदर
 मदन रिमार्क डे म्प्लासि डे


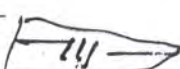




॥
 पमाना
 ६५॥२॥५॥



संकेत -

चीट्टी

- ॐ मारु भूमि 
- ॐ वंजु भूमि 
- ॐ रस्ता 
- ॐ आवाही 
- ॐ म्प्लासि भूमि

- ॐ पूर्वदिशा - मोहनलाल का म्बान
- ॐ पश्चिमदिशा - मुख्यालसिह का म्बान
- ॐ उत्तरदिशा - वंजु भूमि
- ॐ दक्षिण दिशा - रस्ता

1620
 1620

सत्यासिह दिवा
 म् १६०
 २०११६

ॐ दिशा
 ३५
 २०३० १६० म्प्लासि
 ७/१२/१३

ॐ
 २५/१२/१७

सौजा पक्षों उस भूमि को जो है (कुवरासिंह) 10 प्रस्तावित
 पक्षों: जौहर तहसील - बड़कोट जिला - 3 तरफों
 वाले 3 भाग प्रो. फेब्रिकेड भवन निर्माण हेतु प्रस्तावित है,

क्र. सं.	क्षेत्र	खेती/पट्टा नं.	भूलेखन की नाम पिता/पति का नाम	विवरण
1,	2,	3,	4	5,
620	0.008	10	जनाईन कुंरासिंह	महोदय, प्रस्तावित भूमि कुंरासिंह
622	0.006	10	श्री. रवमुष्मी मल्ल पति - जौहर पति - बड़कोट	श्री. रवमुष्मी मल्ल के हिस्से की है जो प्रो. फेब्रिकेड भवन निर्माण हेतु प्रस्तावित है,
कुल	00.11	-		

~~सत्यापित किया~~
 स. न. म.
 कनौड़ गड

~~31~~
 20/30 की वसुंधरा
 2/12/2013

~~31~~
 32 की वसुंधरा
 24/12/13