

## स्थल चयन आख्या

कार्य का नाम:- जनपद नैनीताल के विधानसभा क्षेत्र ओखलकांडा में विश्व बैंक की योजना के अर्न्तगत भवाली-खुटानी -धानाचूली-ओखलकांडा -खनस्यूं पतलोट मोटर मार्ग को जोड़ने हेतु तितड़ा गाड़ के ऊपर 42 मी० मोटर सेतु का निर्माण ।

विश्व बैंक UDRP- 2 Additional Funding के अर्न्तगत जनपद नैनीताल के विधानसभा क्षेत्र ओखलकांडा में भवाली-खुटानी -धानाचूली-ओखलकांडा -खनस्यूं पतलोट में मोटर सेतु प्रस्तावित किया गया है जोकि HPC (हाई पावर कमेटी) द्वारा भी अनुमोदित किया जा चुका है।

उपरोक्त मोटर सेतु के स्थल चयन हेतु निम्न अधिकारियों ने भाग लिया:-

- 1- ई० डी०एस०नबियाल, अधीक्षण अभियन्ता ,द्वितीय वृत्त ,लो०नि०वि० ,नैनीताल ।
- 2- ई० वी०एन०पाण्डे, अधीक्षण अभियन्ता ,विश्व बैंक वृत्त ,लो०नि०वि० ,पिथौरागढ़ ।
- 3- ई० सतीश चन्द्र आर्य, अधिशासी अभियन्ता, विश्व बैंक खण्ड, लो०नि०वि० ,नैनीताल ।

उक्त अधिकारियों द्वारा दिनांक 04.10.2017 को मोटर सेतु का निरीक्षण किया गया । मोटर सेतु के निर्माण हेतु अधिशासी अभियन्ता विश्व बैंक खण्ड लो०नि०वि० नैनीताल द्वारा बेली सेतु के समीप स्थल का चयन किया गया, जिसे स्थल निरीक्षण के उपरान्त लाल रंग से दर्शाया गया है। सेतु निर्माण हेतु उपयुक्त पाया गया स्थल में स्थानीय लोगों की सहमति है क्योंकि इसमें नाप भूमि नहीं पड़ती है एवं वन भूमि हस्तान्तरण की आवश्यकता नहीं पड़ेगी। भूगर्भवेत्ता द्वारा इस स्थल का निरीक्षण 11.10.2017 को किया गया उनके द्वारा भी स्थल को उपयुक्त पाया गया इसलिए स्थल चयन कमेटी द्वारा स्थल का चयन 42 मी० स्पान के मोटर सेतु निर्माण हेतु किया जाता है।

स्थल जो कि उपयुक्त पाया गया है मानचित्र में लाल रंग से दर्शित है। सेतु निर्माण हेतु चयनित किया जाता है ।

(ई० सतीश चन्द्र आर्य)  
अधिशासी अभियन्ता  
विश्व बैंक खण्ड, लो०नि०वि०,  
नैनीताल ।

(ई० वी०एन० पाण्डे)  
अधीक्षण अभियन्ता  
विश्व बैंक वृत्त लो०नि०वि०  
पिथौरागढ़ ।

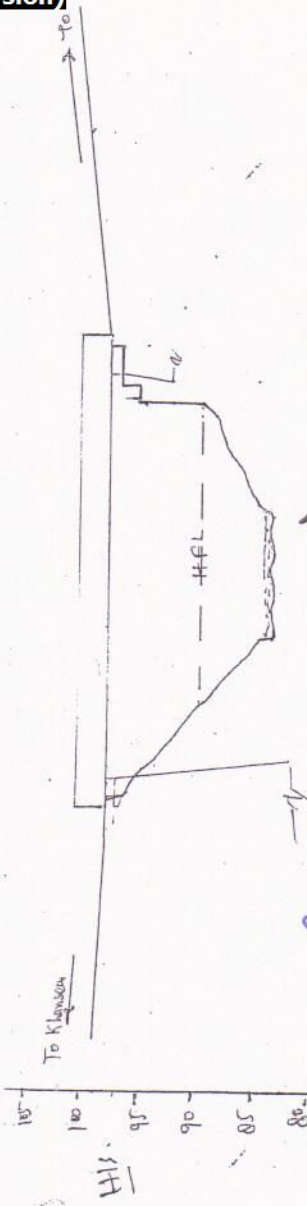
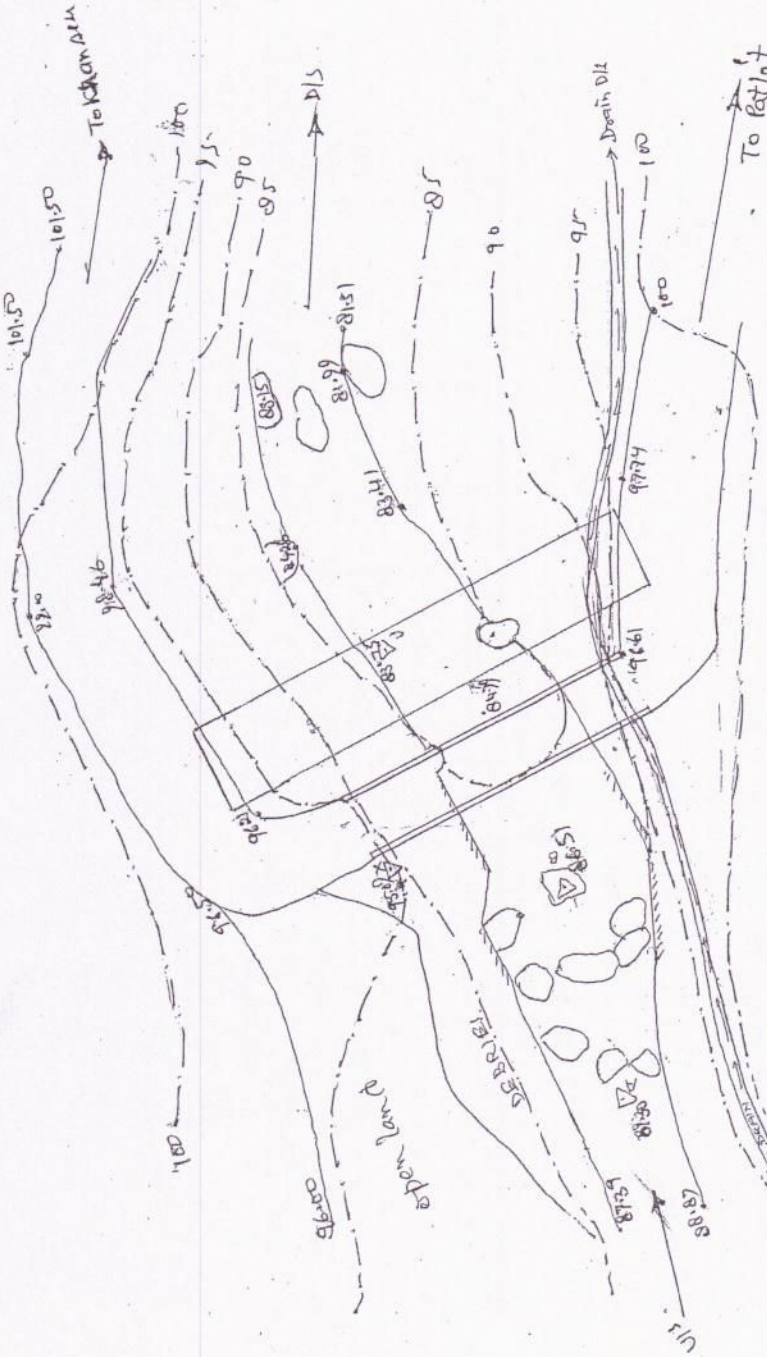
सहायक अभियन्ता  
विश्व बैंक खण्ड  
लो०नि०वि०, नैनीताल

(ई० डी०एस०नबियाल)  
अधीक्षण अभियन्ता  
द्वितीय वृत्त लो०नि०वि०  
नैनीताल ।

Horizontal Attachment-2A SCALE- 1:500

INDEX

- EXISTING BRIDGE
- PROPOSED BRIDGE



सहायक अभियन्ता  
विश्व बैंक खण्ड  
ज्यो, नैनीताल

अविशाली अभियन्ता  
विश्व बैंक खण्ड  
ज्यो, नैनीताल

अविशाली अभियन्ता  
निर्माण खण्ड, लो० नि० विभाग  
नैनीताल,

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Item	Green	Site No. 2 (Shown in Red)
(iii) GEOLOGICAL DATE		
13. A brief note regarding the nature of the soil and rock stub up to bed material debris may be given for each proposed/alternative bridge sites. In addition the following information may also be furnished as possible.	-	RHS. Bank on rock and LHSs bank on debris & soil
14. Indicate whether of the proposed bridge site rocks are exposed on either banks or disintegrate rocks, debris or gravel is present on the both bank ore the rocks are exposed on one side only.	-	
(A) In case the abutments foundation is proposed to be laid over rocks which are exposed on both banks state the direction of inclination/dip of Rocks beds. Is it towards river or hill side or up stream or down stream side. Are their any open joints cracks and fissures present in the rocks?	-	RHS Abutment to be laid on rock , and LHS Abutment to lay on River bed, material composed of sand & gravel.
(B) In case no rocks are exposed on the banks indicate the probable depth is under lying rocks. Are they present at reasonable depth? The pit may be dug if considered necesari to find out the position of the under lying rocks.	-	-
15. The hill slope below the proposed bridge abutmenst and behind proposed bridge is steep moderate or mild, Is the hill slope cover with disintegrated rocks or debris? Are these boulders of bad rock pieces seem scattered over slope? Is there any seepage water over the slope is there any active slip or rock falls on the slopes.	-	LHS bank is on gentle slope of soil & Debris and RHS Bank on rocky strata.
16. Whether the river water is seen in normal days and during rains the banks at the proposed bridge site and close to it up stream side or it flows in straight path in the area. Also state if there is any indication of existence or susceptibility or of any landslide or heavy river erosion on up-stream side near the proposed bridge site.	-	Perennial river and no chance of land slide
17. Whether the bridge site falls below the hill slopes susceptible for avalanches, rock fall, slip etc.	-	NO
18. Whether the appoach road is liable to cross or falls below or falls above the active stream.	-	NO
19. Does the propsed site falls at the confluence mouth of nala or dry nala? If so what will be expected direction of its water during rains? Will it effect the stability of the proposed bridge abutment?	-	NO
20 Magnitude of earthquake in the area & instability of the side earthquake disturbances.	-	Zone IV
21. Any other information the geoogical features which may reflect the stability of the site during construction and in future.	-	The whole area is in stable zone, the nothing specific
IV) GENERAL INFORMATION		
22. A brief description of the reasons for selection of a particular site for the crossing accompanied, if necessary with cross section of the channel at alternative site investigated, rejected.	-	One Abutment is on rock and other is on river bed as in sand, boulder which is preferred by Geologist .
23. A note stating whether larger trees and rolling debris etc. are likely to float down the channel at the proposed bridge site.	-	Large free flo in river clearance provided 8.00mtr.
24. Any other additional information which may be considered essential for complete and proper appreciation of the project.	-	Abutment are in river side and no any objection by villagers. Site is prepered by Geologist .

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विश्व बैंक खण्ड  
लो०नि०वि०, नैनीताल

अभिशासी अभियन्ता  
अस्थाई खण्ड, लो० नि० वि०  
भवाली (नैनीताल)



Name of work - Khutani-Bhawali-Dhanachuli-Okhalkanda-Khansyu-Patlot Motor Road.  
Bailey Bridge in Km-85 of Khansyu, State Road No. 64 Proposed Span of New Bridge - 42.00 mtr.

Item	Site No. 1 (Shown in Green)	Site No. 2 (Shown in Red)
<b>(i) INDEX MAP</b>		
A index map to suitable small scale/topo sheets scale 1 cm. to 500m. Or 1/50,000 or district map do in most cases, showing the proposed location of the bridges the alternative sites investigated and rejected the existing means of communications the general topography of the country and the important towns etc. in the vicinity.	-	Attached
<b>(ii) SITE PLAN</b>		
A site plan to a suitable scale showing details of the site selected and extending not less than 100 meters up stream and down stream from the centre line of the proposed crossing and covering the approaches to a sufficient distance which in the case of the large bridge, shall not be less than 500m. on either side of the channel. the following information shall be indicated on the site plan.	-	Attached
1. The name of the channel or bridge and of the road and the Identification mark allotted to the crossing with the location in kilometers of the centre of the crossing	-	Titara (Nala) gad.
2. Direction of flow of water and maximum discharge and if possible the extent of deviation of lower discharge.	-	North East - South west
3. The alignment of existing approaches and of the proposed crossing and its approaches	-	Motor Bridge
4. The angle and direction of skew if the crossing aligned on a skew.	-	Right Angle
5. The name of the nearest inhabited identifiable locality at either ends of the crossing on the road leading to site.	-	Khansyu, Kalagarhi
6. The line and identification numbers of the cross section taken with in the scope of the site plan, and the exact location of their extreme points.	-	No. 1 shown in Red.
7. Portion of main fissures/cracks/joints etc. in the rocks at the proposed bridge site.	-	River (Gad) bed.
8. The location of all nallahs, buildings, walls, out crop of rocks and other possible obstructions to a road alignment.	-	Water Drain (Gool) will cross to RHS. Bank
9. Cross section of the channel at the site of the alternative proposed crossing. At the proposed site two other cross sections at suitable distance one on up stream and other on down stream may also be prepared having same vertical and horizontal scale range 1 cm. to 1 meter and 1cm. to 10meter depending on the dimension of the site. The following information indicated may also be shown on the cross section.	-	Attached
10. The bed levels up to the tops of the banks and the ground levels to a sufficient distance beyond the edge of the channel with levels at internal sufficiently close to river a clear outline of marked by uneven feature of the bed or ground showing right and left banks and name of villages on each side.	-	shown on cross section
11. The nature of the existing surface of soil in bed banks and approaches and the location and depth of trial pits or boring including their respective identification number.	-	Boulder, pabbles, sand & soil intermixed
12. The highest flood level and low water level.	-	90.00M & 84.00 M

*[Signature]*

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लो0नि0वि0, नैनौताल

*[Signature]*  
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