

Sl. No	Variables	Alignment No-1	Alignment No-2
1	Topography	Forest And Nap land	Forest And Nap land
2	Length of Road	2.180 Km	2.480 Km
3	Bridging requirement No. and Length	1 no., 60 m	1 no., 60 m
4	Geometric	1:1000 level	1:1000 level
	(a) Gradients	1:1000, 1:1500, level	1:1000, 1:1500, level
	(b) Curves	4	7
5	Existing Means of communication, mule path, jeep, Tracks etc.	Mule path and kuccha jeep Tracks	Mule path and kuccha jeep Tracks, Forest Land
6	Right of way, bringing out. construction on account of built up areas, monuments and other structures.	1.526hact 7.00m	1.736hact 7.00m
7	(a) Terrain & Soil Condition.	Plain & clay, sandy	Plain & clay, sandy
	(vi) Cliffs and gorges. (vii) Drainage characteristics of the area including supceptibility to flooding. (viii) General elevation of the road indicating maximum and minimum height negotiated by main ascends and discends. (ix) Variations extants and types.	Drainage is Fair	Drainage is Fair
8	Climate Condition:	Max 45°C Min 6°C	Max 45°C Min 6°C
	(a) Temperature Monthly max. & min. reading.		
	(b) Rainfall data average annual peak intensities monthly distribution (to the extent available) .	Not available	Not available
	(c) Snowfall data average annual peak intensities monthly distribution (to the extent available)	Not available	Not available
	(d) Wind direction and velocities.	S/w	S/w
	(e) Fog Condition.	In Rainy Season	In Rainy Season
	(f) Exposure to sun.	Almost full day	Almost full day
	(g) Unusual weather condition like cloud Brust etc.	Almost rainy Season	Almost rainy Season

G.K. KAC

JA AE

Sl. No	Variables	Alignment No-1	Alignment No-2
9	Facilities resources.		
	(a) Landing ground.	-	-
	(b) Dropping Zone.	-	-
	(c) Food stuffs.	-	-
	(d) Labour local availability and need for import.	40% Outside & 60% Local	40% Outside & 60% Local
	(e) Construction material (Timber, Bamboo, Sand, Stone, Shingle etc. extent of their availability and lead involved.	All construction material will have to be cartage form local quarry etc.	All construction material will have to be cartage form local quarry etc.
10	Value of land, agricultural land, Irrigated land, bult up land, forest land etc,	Agriculture development will increase	Agriculture development will increase
11	Approximate Const. Cost.	Rs 581.04 Lac	Rs 597.62 Lac
12	Access point indicating possibility of induction of equipment.	Rudrapur, Haldwani, Ghaziabad etc.	Rudrapur, Haldwani, Ghaziabad etc.
13	Period required for construction.	1 year	1 year
14	Strategic Consideration.	-	-
15	Important villages, towns and markets centres to be connected.	Nanak Matta and Khatima	Nanak Matta and Khatima
16	Recreational potential.	-	-
17	Economic Factors:		
	(a) Population served by the alignment.	780	780
	(b) Agricultures and economic potential of the area.	Construction of Road will facilitate the carriage of agricultural production will vegetables and fruits to market	Construction of Road will facilitate the carriage of agricultural production will vegetables and fruits to market
18	other major development projects being taken up electric projects etc.	-	-
19	(i) Misc. Such as camping sites	-	-
	(ii) Law and other problem	No	No
	(iii) Royalty	Yes	Yes
	(iv) Availability of contractors for collection and carriage of construction material	Available	Available
	(v) working period available for construction of work.	Whole year except rainy season	March to June & October to December
20	Total No. of trees to be removed and Affected Forest land	Nil- trees 0.980 hact	5 (tree) 1.19hact
21	Average Density of forest cover.	Nil	


G. M. K.


J. A. E.


Sl. No	Variables	Alignment No-1	Alignment No-2
22	Total No. of Merits	In the Alignment number 1 which is proposed for Construction the forest land affected is 0.980 Hect. number of trees affected is NIL, length of road is 1.40 Km and Number of curves is 4. this is geologically more stable hence this alignment is chosen for construction of Road	In the Alignment number2 which is proposed for Construction the forest land affected is 1.19Hect. number of trees affected is 5, length of road is 1.70 Km and Number of curves is 8. this is geologically not stable hence this alignment is not suitable for construction of Road
23	Total No. of Demerits	Nil	In the Alignment number 2 which is rejected, the forest land affected more than alignment no-1 is 1.19Hect. number of trees affected is 5, length of road is 1.700 Km and Number of curves is 8. this is geologically Less stable as Compared to alignment Number 1 hence alignment number 2 is rejected.

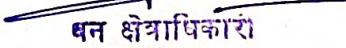
RECOMMENDATIONS:

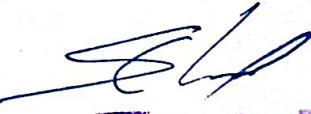
Alignment no. (1) Recommended for approval being more economical, useful & technically feasible.


Junior Engineer
PWD Khatima
Udham Singh Nagar


Assistant Engineer
PWD Khatima
Udham Singh Nagar


Executive Engineer
PWD Khatima
Udham Singh Nagar


वन क्षेत्राधिकारी
दक्षिणी जीलाभाल
बराई पूर्वी वन प्रभाग इन्द्रावती.


वन प्रशासकीय क्षेत्राधिकारी
सितारगंज
बराई पूर्वी वन प्रभाग इन्द्रावती.

प्रस्तावित स्थल :- माननीय मुख्यमंत्री जी की धोपणा संख्या 38/2018 के अन्तर्गत जनपद उधमसिंह नगर के विधानसभा क्षेत्र नानकमत्ता के अन्तर्गत ग्राग देवीपुरा से ज्ञानपुरा गोढ़ी मोटर मार्ग के किमी 0 2 मे वहने वाली निहाई नदी पर 60.00 मीटर स्पान का आर0सी0सी0 पुल का निर्माण कार्य।

निर्माण हेतु कार्य स्थल :- नानकमत्ता

स्थल :- उधमसिंह नगर

कार्य हेतु कार्य स्थल पर दो स्थानों का सर्वेक्षण किया गया, जिनकी आख्या
निम्न प्रकार है :-

स्थल संख्या 1:- प्रस्तावित स्थल मार्ग एवं नदी के मानचित्र में विकल्प-1, लाल रंग द्वारा दर्शाया गया है, जो देवीपुरा से ज्ञानपुरा गोढ़ी मोटर मार्ग के किमी 0 2 मे वहने वाली निहाई नदी के वर्तमान में चल रहे कच्चे मार्ग के मे अवस्थित है। इस स्थान पर नदी का प्रवाह रुकने तथा पहुँच मार्ग के लगभग सीधे होने के कारण सेतु का निर्माण किया जाना उचित प्रतीत होता है। अतः इस स्थान पर सेतु का स्पान 60.00 मीटर आता है, पहुँच मार्ग के लगभग सीधे होने के कारण व्यय भी कम होगा। इस स्थान पर सेतु निर्माण एवं एप्रोच मार्ग का सुरक्षात्मक कार्यो सहित अनुमानित लागत 500.00 लाख आएगी।

स्थल संख्या 2:- प्रस्तावित स्थल मार्ग एवं नदी के मानचित्र में विकल्प -2, नीले रंग द्वारा दर्शाया गया है, जो देवीपुरा से ज्ञानपुरा गोढ़ी मोटर मार्ग के किमी 0 2 मे वहने वाली निहाई नदी के वर्तमान में चल रहे कच्चे मार्ग के समरेखण मे अवस्थित है। इस स्थान पर नदी का प्रवाह रुकने तथा पहुँच मार्ग के सीधे न होने के कारण सेतु का निर्माण किया जाना उचित प्रतीत नहीं होता है। इस स्थान पर सेतु का स्पान भी अधिक, 70.00 मीटर आता है, तथा पुल का सुरक्षात्मक कार्यो पर व्यय भी अधिक होने की सम्भावना है। इस स्थान पर सेतु निर्माण की लागत एवं सुरक्षात्मक कार्यो सहित अनुमानित लागत 550.00 लाख आएगी।

उपरोक्त तथ्यों को दृष्टिगत रखते हुए संलग्न मानचित्र में स्थल संख्या 1 जो विकल्प-1 लाल रंग द्वारा दर्शाया गया है, जिसमे सेतु का स्पान 60.00 मीटर आता है, का स्थल चयन किया जाना उचित होगा।

अतः सेतु निर्माण हेतु स्थल 1 (विकल्प-1) का चयन किया जाना ही उचित होगा।

निर्माण हेतु कार्य स्थल

अभिियन्ता

नि० खण्ड लो०नि०वि०

खटीमा

अधिशारी अभियन्ता
नि० खण्ड लो०नि०वि०
खटीमा

NAME OF WORK:-Construction Of Class A Loading 60 Mtr Span RCC Bridge over Nihai River At Km 2 Of Devipura To Gyanpura Godi M/Road in Nanakmatta Constituency of U.S.Nagar in Ultrakhand State.

BRIDGE SITE SELECTION REPORT

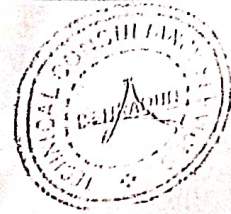
Comparative Statement

Description	Site-1	Site-2
General Features (Description of Bridge)	Construction Of Class A Loading 60 Mtr Span RCC Bridge over Nihai River At Km 2 Of Devipura To Gyanpura Godi M/Road in Nanakmatta Constituency of Distt. U.S.Nagar in Ultrakhand State.	Construction Of Class A Loading 70 Mtr Span RCC Bridge over Nihai River At Km 2 Of Devipura To Gyanpura Godi M/Road in Nanakmatta Constituency of Distt. U.S.Nagar in Ultrakhand State.
Population Served By the Bridge	App-20000	App-20000
General Details of Bridge		
Span	60 m	70 m
Width	7.50 Mtr + Crash Barrier	7.50 Mtr + Crash Barrier
Type of Traffic	Light, Medium & Heavy	Light, Medium & Heavy
Type and Suitability of the Bridge	A" Class Loading PSC Bridge	A" Class Loading PSC Bridge
Geological Appreciation	Suitable for Bridge Construction	Suitable for Bridge Construction
Suitability of Founding Strata	Sandy Soil	Sandy Soil
Type of Foundation	Well Foundation	Well Foundation
Climate Conditions		
Temperature Maximum & Minimum	0 to 40 degree Centigrates	0 to 40 degree Centigrates
Rainfall Data Average Annual Peak intensity, monthly distribution of the available road length covered by Snow (Average and Period)	1800 mm	1800 mm
Wind direction & velocity	North East to West(40Kmph).	North East to West(40Kmph)
Fog conditions	Nil.	Nil.
Exposure to sun	Sunny Face.	Sunny Face.
Drainage Characteristics of the area indicating susceptibility to damage	Poor Drainage and River Having Tendency of Mandering.	Poor Drainage and River Having Tendency of Mandering.
Hydrological Details		
General	Bridge Is Proposed on Nihai River	Bridge Is Proposed on Nihai River
Total Water Way	56.78 Mtr.	65.40 Mtr.
Free Board	5.00 m	3.00 m
Approach Road		
Length	(183+167) m Both Side	(180+195) m Both Side
Formation Width	7.50 Mtr	7.50 Mtr
Grade	Gradient within norms.	Gradient within norms.
12 Recreational Potential / Potential for Tourism Development	Yes Due To Two Famous Gurudwara (Chami Patshahi and Shri Nanakmatta Sahib) & Nanak Sagar Dam	Yes Due To Two Famous Gurudwara (Chami Patshahi and Shri Nanakmatta Sahib) & Nanak Sagar Dam
13 Extent Of Forest	Nil	Nil
14 Period Required For Construction	12 months	12 months

[Signature]
D.M.

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D.M.

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D.M.



NAME OF WORK:- Construction Of Class A Loading 60 Mtr Span RCC Bridge over Nihai
 At Km 2 Of Devipura To Gyanpura Godi M/Road in Nanakmatta Constituency of
 Dist. S Nagar in Ultrakhand State.

BRIDGE SITE SELECTION REPORT

Comparative Statement

1. Facilities & Resources	Construction Site is Accessible	Construction Site is Accessible
2. Ground	12 months	Not Required
3. Access Road	Nil	Nil
4. Materials Locally available or need	50 % locally available	50 % locally available
5. Construction materials	Sand is locally available	Sand is locally available
6. Timber, Bamboo, Sand, Shingle, etc. in extent of their availability	Available within 45 km	Available within 45 km
7. Quarry Position / Location	As Per PWD Approved Quarry (Gola / Lal Kunwa)	As Per PWD Approved Quarry (Gola / Lal Kun)
8. Bridge Lead	As per Block Rates	As per Block Rates
9. Access point indicating	Accessible through Motor Road	Accessible through Motor Road
10. Feasibility of equipment	(Heavy Earth Moving Equipment)	(Heavy Earth Moving Equipment)
11. Merits & Demerits	Short Span, Almost Perpendicular To The Stream	Nil
12. Merits		
13. Demerits	Nil	1. More Construction Cost Than Option - 1 Due To Higher Span . And More Length Of Approach Road. 2. Less, Free Board. 3. Extra Land Required For Approach.
14. Safety Measures	Protection Works will Be Required To Channelised the Stream	Protection Works will Be Required To Channelised the Stream
15. Cost of Bridge	Rs. 425.00 Lakhs	Rs. 495.00 Lakhs
16. Any other useful Information	NIL	NIL
17. Other important projects being taken in the area required for proper completion of the work		
18. Recommendation of Executive Engineer	Site-1 Recommended Due to Suitability of Span and low cost as indicated Red ink in Survey Sheet.	Site-2 Is not recommended due to more cost as indicated Blue ink Survey Sheet.



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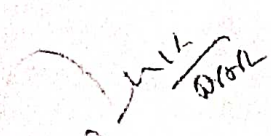
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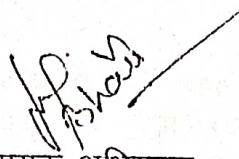
प्रमाण पत्र

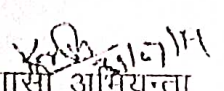
माननीय मुख्यमंत्री जी की घोषणा संख्या 19/2018 के अन्तर्गत जनपद उधम सिंह नगर के विधानसभा क्षेत्र नानकमत्ता के अन्तर्गत ग्राम देवीपुरा रो ज्ञानपुरा मोड़ी मोटर मार्ग के किमी 2 में स्थित निहाई नदी पर 60.00 मीटर स्पान के 200सी0सी0 सेतु का निर्माण कार्य।

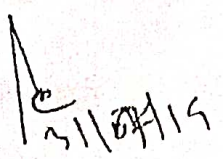
अनाणित किया जाता है, कि उपरोक्त मोटर पुल के प्रस्तावित दोनों समरेखनों का निरीक्षण पर नीचे दर्शाये गई तिथि को स्थल निरीक्षण किया गया, जिसमें प्रस्तावित स्थल निरीक्षण एवं तकनीकी दृष्टि से उचित है।

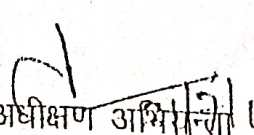
सहायक अभियन्ता, नि0ख0,लो0नि0वि0,खटीमा द्वारा निरीक्षण की तिथि	18-07-2019
सहायक अभियन्ता, नि0ख0,लो0नि0वि0,खटीमा द्वारा निरीक्षण की तिथि	18-07-2019
सहायक अभियन्ता, नि0ख0,लो0नि0वि0,खटीमा द्वारा निरीक्षण की तिथि	31-07-2019
अधीक्षक अभियन्ता चतुर्थ वृत्त,लो0नि0वि0, रुद्रपुर द्वारा निरीक्षण की तिथि	31-07-2019
अधीक्षक अभियन्ता रा0गा0 वृत्त,लो0नि0वि0, हल्द्वानी द्वारा निरीक्षण की तिथि	31-07-2019


सहायक अभियन्ता
नि0ख0,लो0नि0वि0,खटीमा
(उधम सिंह नगर)


सहायक अभियन्ता
नि0ख0,लो0नि0वि0,खटीमा
(उधम सिंह नगर)


अधीक्षक अभियन्ता
नि0ख0,लो0नि0वि0,खटीमा
(उधम सिंह नगर)


अधीक्षक अभियन्ता
चतुर्थ वृत्त,लो0नि0वि0
रुद्रपुर(उधम सिंह नगर)।


अधीक्षक अभियन्ता
रा0गा0 वृत्त,लो0नि0वि0
हल्द्वानी।