

NAME OF WORK:- Construction Of 240 Mtr Span PSC Double Lane Bridge at km 3.00 of Thano-Bhogpur Motor Road.

## BRIDGE SITE SELECTION REPORT

### Comparative Statement

Sl. No.	Description	Site-1	Site-2
1	Main Features (Description of Site)	Construction Of 240 Mtr Span PSC Double Lane Bridge at km 3.00 of Thano-Bhogpur Motor Road.	Construction Of 360 Mtr Span PSC Double Lane Bridge at km 3.00 of Thano-Bhogpur Motor Road.
2	Population Served By the Bridge	App-	App-
3	General Details of Bridge		
	Span	240 m	360 m
	Width	12.00 m	12.00 m
	Type of Traffic	Light & Medium	Light & Medium
4	Type and Suitability of the Bridge	A" Class Loading 70R Bridge	A" Class Loading 70R Bridge
5	Geological Appreciation	Suitable for Bridge Construction	Not Suitable due to long span of river
6	Suitability of Founding Strata	Soil Followed By Bolder Stata At Founding Level	Soil Followed By Bolder Stata At Founding Level
7	Type of Foundation	Well Foundation	well Foundation
8	Climate Conditions		
	Temperature Maximum & Minimum	10 degrees to 30 degrees Celsius in the months of winter.	10 degrees to 30 degrees Celsius in the months of winter.
	Rainfall Data Average Annual Peak intensity, monthly distribution of the available road length covered by Snow (Average and Period)	2136.7 mm	2136.7 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	Good Drainage (Escape Channel)	Good Drainage (Escape Channel)
9	Hydrological Details		
	General	Discharge -943 Cumec	Discharge -943 Cumec
	Total Water Way	240 Mtr.	360 Mtr.
10	Free Board	2.25 m	2.25 m
11	Approach Road		
	Length	85 m and 160m Total 245 m Both Side	50 m and 240m Total 290 m Both Side
	Width	7.5 m +Footpath+Crush Barrier+Raling	7.5 m +Footpath+Crush Barrier+Raling
	Grade	Gradient within norms	Gradient within norms
12	Recreational Potential / Potential for Tourism Development	Yes (Mussoorie hill station)	Yes (Mussoorie hill station)
13	Extent Of Forest	Nil	Nil
14	Period Required For Construction	18 months	18 months
15	Facilities & Resources		
	Landing Ground	Construction Site is Accessible	Construction Site is Accessible
	Dropping Zone	Not Required	Not Required
	Food Stuffs	Nil	Nil
	Labour locally available or need of import	50 % locally available	50 % locally available
	Construction materials	Stone, Sand is locally available	Stone, Sand is locally available

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डोईवाला देहरादून

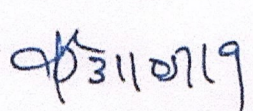
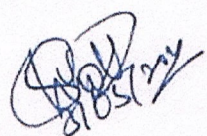
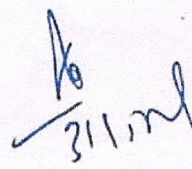
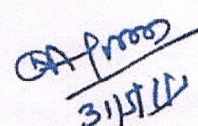



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	Timber, Bamboo, Sand, Shingle, grit etc. extent of their availability & lead involved	Available within 45 km	Available within 45 km
	Quarry Position / Location	As Per PWD Approved Quarry	As Per PWD Approved Quarry
	Average Lead	As per Block DPR	As per Block DPR
16	Access point indicating possibility of equipment	Accessible Thano-Bhogpur Motor Road (Heavy Earth Moving Equipment)	Accessible Thano-Bhogpur Motor Road (Heavy Earth Moving Equipment)
17	Merits & Demerits		
	Merits	Short Span Less Protection Works	
	Demerits		Longer Span High Protection Works Increased Approach Road
18	Safety Measures	Protection Works such as Plumb Concrete, Wire Crates Provided	Heavy Protection Works such as Plumb Concrete, Wire Crates Provided
19	Cost of Bridge	Rs. 1980 Lakhs <del>Rs. 1921.71 Lakhs</del>	Rs. 2520 Lakhs
20	Any other useful information viz. Other important projects being taken in the area required for proper completion of the work	NIL	NIL
21	Recommendation of Executive Engineer	Site-1 Recommended Due to Suitability of Span and site stability as also advised by geologist indicated Red ink in Survey Sheet.	Site-2 Is not recommended due to more cost and skew as indicated Blue ink Survey Sheet.


  
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