

TECHNICAL REPORT

Name of Work: - *AAA for the construction of 160 Mtr Span Pre-stressed RCC Double Lane Bridge at the take off point Jhajjar on Jhajjar Panthal road.*

Authority: - His Excellency "The Governor of J&K State".

History & Necessity:-

Katra being base camp of Shri Mata Vaishno Devi Ji Shrine has become pilgrim cum tourist destination where more than 100 lacs pilgrims visit annually for seeking blessings of divine Mata Ji. Accordingly its importance has increased many folds. The Shrine Board associated with maintenance and development of holy Shrine has added SMVD University besides Multi Specialty Hospital of international standards where number of students seeking Technical /Non-technical Education besides critical care seeking patients are likely to visit for seeking facility in nearby future. Keeping in view expected increase in number of commuters visit to these highly specialized institutions government has decided to upgrade available link road to holy Shrine Base Camp besides constructing new modernized links.

The Jhajjar-Panthal road constructed a few decades back in passing through contours of altitude varying in mounts along with sharp and blind curves which besides increasing the length of road is not safe for the smooth plying of vehicular traffic, in order to safeguard the precious lives of the commuters using road and to reduce the time consumed in traversing length of road, a necessity has been felt to construct a bridge at take off point of the road at Jhajjar on old NH-1A.

The proposed bridge is likely to benefit besides commuters visiting for SMVD University and Super Specialty Institution. Thousands of local population residing in villages enroute the road on both sides such as Chak Bhagtha, Sool, Kakaryal, Tirthi & Panthal. With the construction of this 160 Mtr Span proposed bridge, the length of road shall be reduced by 1.50 Km approximately and numerous risky sharp curves are likely to be avoided.

Thus importance of construction of bridge and necessity is justified and requires immediate construction to avoid unfortunate possible accidents due to blind and sharp curves in future.

The design parameter of bridge including its width, footpath & provision for conduit has been proposed keeping in view widening of Jhajjar Panthal road to double lane for which Detailed Project Report stands submitted with Government of India under CRF by J&K Government.

Brief Specifications:-

- Span of Bridge = 160 Mtr.
- Height of Bridge from nallah bed = 60 Mtr.
- Width of Bridge (Carriageway) = 7.5 Mtr.
- Footpath for pedestrian 1.5 Mtr each side = 3.00 Mtr.
- Provision for conduit pipe for OFC and other cables 1.0 Mtr each side = 2.0 Mtr.
- Total width = 12.00 Mtr.

Merits & benefits:-

- a) The bridge will shorten the road by almost 1.5 Kms saving in travel. Thus providing a saving in travel time.
- b) The life of commuters on the road likely to be better, safeguard due to construction of bridge and reduced length of sharp curves.
- c) Comfort to the patients:- The improved accessibility will also provide comfort to the sick people visiting the cancer hospital for their treatment.
- d) Saving in vehicles operating facility:- It will increase the saving in vehicle operating facility besides reducing wear & tear of vehicles thereby increasing the life span of vehicles operating on stretch of road.
- e) Increase in Agriculture Production:- The increased accessibility to the market will boost the Agriculture Production of the area.


- f) Saving in wastage:- The construction of the Bridge will facilitate saving in wastage of goods by improvement in transportation time.
- g) Generation of Additional Employment:- The construction of the bridge shall also provide employment to the skilled and unskilled labour.

Time & Cost: -

Total cost of road works out to **Rs. 30.00 Crores** as per general abstract of cost and shall be take **two years** for completion subject to availability of funds and key constructional material well in time.


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