

**STATEMENT OF CASE FOR INCLUSION OF WORK UNDER URGENT/EMERGENT POWER OF DGBR IN AWP BE 2019-20: FOR CARRYING OUT SUB SOIL INVESTIGATION (SSI), PROOF CHECKING, FINALISING OF BRIDGE SCHEME, DESIGN AND CONSTRUCTION OF 130 M SPAN (PSC BOX GIRDER) MAJOR PMT BALINI BRIDGE WITH APPROACHES AT KM 15.661 OVER BALINI RIVER ON JAMMU - SRINAGAR ROAD UNDER 52 RCC / 35 BRTF PROJECT BEACON IN J & K STATE**

**INTRODUCTION**

1. The Jammu-Srinagar road (NH-1A/NH-44) was included in BRDB Programme in 1963 for development of road to National Highway double lane specifications. The const/impvt and maintenance of this road was entrusted to BRO, Project Beacon. The improvement of the Highway to NHDL specifications had been completed and various improvement works were being undertaken by Project Beacon regularly.
2. Meanwhile, due to increase in traffic intensity and for the development of the Jammu & Kashmir State, the complete Jammu-Srinagar road (NH-44) were planned for four laning traffic and the responsibility for the same awarded to NHAI.
3. Based on the proposed road alignment and work plan of NHAI, the road stretches between Km 0.00 to Km 4.49, Km 9.31 to Km 9.96, Km 18.87 to Km 54.569, Km 67.00 to Km 130.00 and Km 130.00 to Km 187.00 of existing NHDL specifications Jammu-Srinagar road (NH-44) has been handed over to NHAI in different phases for its further development to four lanning traffic.
4. The responsibility of remaining road stretches of existing Jammu-Srinagar road (NHDL specifications) between Km 4.49 to Km 9.31, Km 9.96 to Km 18.87 and Km 54.569 to Km 67.00 is still under BRO for its routine maintenance and accordingly the road is being maintained.

**PROPOSAL**

5. It is proposed to obtain sanction of competent authority for inclusion of work in AWP 2019-20 for "Carrying out sub soil investigation (SSI), proof checking, finalising of bridge scheme, design and construction of 130 m span (PSC box girder) major pmt Balini bridge at Km 15.661 over Balini river on Jammu-Srinagar road" through execution contract under urgent/emergent power of DGBR.

**SCOPE OF WORK**

6. The AE has been prepared with the following scope of works: -

S.No	Item of Work	A/U	Qty
1	Earth work in Embankment	cum	9261.08
2	T/Wall 8.00 x 1.50 mtr	mtr	20.00
3	R/Wall 8.00 x 2.00 mtr	mtr	20.00
4	R/Wall 8.00 x 3.50 mtr	mtr	30.00
5	R/Wall 8.00 x 4.00 mtr	mtr	40.00
6	R/Wall 8.00 x 4.50 mtr	mtr	255.00
7	R/Wall 8.00 x 5.00 Mtr	mtr	85.00
8	Parapet Wall	mtr	440.00
9	Preparation of subgrade in SMB	10 sqm	282.00
10	GSB 15 cm thick	10 sqm	282.00
11	GSB 10 cm thick	10 sqm	282.00
12	WMM 75 mm thick,(2 Layers)	10 sqm	564.00
13	DBM 75 mm thick	10 sqm	282.00
14	BC 40 MM thick	10 sqm	282.00

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**DETAILED JUSTIFICATION**

7. The Balini Bridge was constructed by PWD on Jammu-Srinagar Highway (NH-44) at Km 15.661 prior to 1960. It is 100 m long IRC CI-40R RCC Bridge having five spans. The substructure is open foundation and superstructure is RCC T-beam girder. Foundations of all the piers and abutments rest on soft rock / SMB.

8. During rain fall in the month of Sep 2011 and further heavy rain fall during Jan 2012 in Jammu region, scouring occurred on the foundation of far bank (Srinagar side) Abutment (A2) and Pier (P-4) and the safety of the bridge was endangered. Subsequently, the load classification of the bridge was downgraded from CI-40 to CI-24 and traffic was restricted to one vehicle at a time. To restore the line of communication, the essential restoration / protective works to Abutment (A2) and Pier (P4) was taken under IRMD Job No. 208/1561 and completed on 20 Jan 2013. The required restoration / protective works to Pier (P1), (P2) & (P3) were also taken up against SRMD Job No. 208/1555 and completed on 20 Dec 2013.

9. Further, due to flash floods in the night of 01 Aug 2013, scouring again occurred and to restore the line of communication, immediate essential restoration works were taken up on 01 Mar 2014 against IRMD works Job No. 208/1581(P-560/04/JS/52/RCC/2013-14) and the work was completed in the month of Aug 2014.

10. HQ CE(P) Beacon vide their convening order No. 150017/CO/BOO/49/Coord dated 22 May 2012, which was amended time to time, detailed a TBOO to collect the Hydraulic data for construction of permanent bridge at Km 15.661 over Balini river on Jammu-Srinagar Road.

11. Based on the hydraulic data collected at site and submitted/approved, HQ DGBR has approved construction of 130 m span major permanent bridge over Balini river at Km 15.661 on J-S road and final bridge scheme drawing No. B-1924/B&T Dte/BCN /2017 dated 28 Aug 2017 Sheet No.1 has been received. The final bridge scheme received from Dte has been transferred on ground and found ideal and feasible.

12. However, at present no works are being sanctioned on the subject road since the road has been placed under Priority-II in revised LTRoWP approved vode MoD letter No. MoD 04/8115/2013/D (BR-I) dated 09 Aug 2018. A case for inclusion of the subject road as "Priority-I" in the LTRoWP has been fwd vide TF letter No. 2352/LTPP/225/E2 Plg dated 31 Dec 2018 (copy encl).

13. A case for inclusion of the subject work in AWP BE 2018-19 was forwarded to HQ DGBR by HQ CE (P) Beacon vide letter No. 250002/AWP/165/E2 Plg dated 11 Jun 2018. Also, a case for urgent requirement of subject work has been taken up by HQ 16 Corps with HQ Northern Comd vide their letter No. 1315/Rd Conf/GS (Plg) dated 11 Mar 2019 (copy encl) and 1315/Rd Conf/GS (Plg) dated 20 Mar 2019 (copy encl). Also, it is intimated that works on realignment of bypass stretches of road Jammu – Srinagar to be taken up through DGBR emergent power as decided in ARC meeting 2019 circulated vide HQ CE (P) Beacon letter No. 250018/ARC/98/E2 Plg dated 28 May 2019.

14. In view, of the above, it is proposed to obtain sanction of competent authority for inclusion of work in AWP 2019-20 for "Carrying out sub soil investigation (SSI), proof checking, finalising of bridge scheme, design and construction of 130 m span (PSC box girder) major pmt Balini bridge at Km 15.661 over Balini river on Jammu-Srinagar road" through execution contract under urgent/emergent power of DGBR.

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**FINANCIAL EFFECT**

15. The approximate cost of work for "Carrying out sub soil investigation (SSI), proof checking, finalising of bridge scheme, design and construction of 130 m span (PSC box girder) major pmt Balini bridge at Km 15.661 over Balini river on Jammu-Srinagar road" is worked out to **Rs1,940.44 lakhs** based on bridge SSR 2019, revised escalation charges @ 15.44% , change of zone of CPL from Zone "F" to Zone "G" and credit has been given in this estimate on account of deploying CP tradesmen as 1:1.5 and PNR&CPL ratio as 1:10 as per Beacon letter No 50901/SSR/136/E2 Estg dated 16 Aug 2019.

**RECOMMENDATION**

16. In view of above, it is strongly recommended that case for inclusion of the work for "Carrying out sub soil investigation (SSI), proof checking, finalising of bridge scheme, design and construction of 130 m span (PSC box girder) major pmt Balini bridge at Km 15.661 over Balini river on Jammu-Srinagar road under urgent/emergent power of DGBR in AWP BE 2019-20 may please be taken up with competent authority through execution contract for bridge proper and approach works through departmental resources.



  
(Mukul Vashist) 05/04/21  
EE CIV  
Officer Commanding