

Tele No. 0194 2300868
 0194 2300237
 0194 2300237
 Fax No. E-Mail Id bro-bcn@nic.in

750803/AA/CE's Power/ /Estg

HQ 32 BRTF
 C/o 56 APO

100
102
402
Headquarters
 Chief Engineer
 Project Beacon
 C/o 56 APO

05 Mar 2020

CORRIGENDUM TO REVISED ADMINISTRATIVE APPROVAL FOR CONSTRUCTION OF
 60 M SINGLE SPAN MAJOR PERMANENT BRIDGE (CHAK NALLAH) WITH PSC BOX
 GIRDER TYPE SUPERSTRUCTURE AT KM 7.525 OVER KISHAN GANGA RIVER ON
 ROAD DAWAR-NIRU-BARUAB-CHAKWALI-KAOBAL GALI UNDER 56 RCC/
 32 BRTF/PROJECT BEACON IN J&K (UT)

1. In pursuance of the financial and administrative powers delegated to Chief Engineer vide Govt of India, Ministry of Defence (BR Wing), D (BR-1), 'B' Wing, 4th Floor, Sena Bhawan, New Delhi letter No MoD (BR) F.No.04/696/2015/D&P (BR-I) dated 11th Aug 2017, Item Ser No 2 of Annexure-I, I hereby issue the Corrigendum to Revised Administrative Approval and expenditure sanction for "Construction of 60 M single span Major Permanent Bridge (Chak Nallah) with PSC Box Girder type Superstructure at Km 7.525 over Kishan Ganga River on Road Dawar-Niru-Baruab-Chakwali-Kaobal Gali under 56 RCC/32 BRTF/Project Beacon in J&K (UT)" at an estimated cost of **Rs 674.75 lakh (Rupees six crore seventy four lakh and seventy five thousand only)** as per details in the annexure to this letter.

(a) Cost of Departmental Work	-	Rs 171.98 lakh
(b) Cost of Execution Contract	-	Rs 503.77 lakh
	Total	Rs 674.75 lakh

2. The expenditure on the work is debitible to "**MH 5054.02.337.03.00.53 Road Works OTNHs**".

3. The work has been assigned **Job No 217-B/16 (BCN)**, which may please be quoted in all future correspondence on the subject.

4. This issues with the concurrence of ACDA (P) Beacon vide Note - IV & File No ABC/185 /Concurrence /ESTG dated 29 Feb 2020.

5. This sanction supersedes the Revised Administrative Approval issued by HQ DGBR vide letter No 44001/DGBR/BCN/285/RAE/West Dte dated 30 Jan 2017 for Rs 618.23 Lakh

(J S Prakash)
 Col
 Offg Chief Engineer

Copy to:-

1. HQ DGBR/West Dte, Seema Sadak Bhawan, Ring Road, Delhi Cantt, New Delhi-10.
2. HQ ADGBR (North West), Sector 48C, Chandigarh, PIN- 160047.
3. AO (P) Beacon, C/o 56 APO.
4. AO 32 BRTF, C/o 56 APO.
5. 56 RCC, C/o 56 APO.
6. Office Copy (Case File):201308/AE/Chak-Nallah/Km 7.525/DNBCK/ ESTG.

Internal:-

7. E2 (Wks).
8. E2 (Plg).
9. E5 (Budget).
10. E8 Sec

AA folder DNBCK/B2
 10/03

S.No.	Description	AS PER RAA			Work done during the Yr 2014-15 (Pd 01st April 2014 to 31 Mar 2015), SSR 2012, Zone-E, SCR LA-1, PNR, CPL =1:10			Work done during the Yr 2015-16 (Pd 01st April 2015 to 31 Mar 2016), SSR 2012, Zone-E, SCR LA-1, PNR, CPL =1:10			Work
		Bridge Proper	Approach Road	Total	Bridge Proper	Approach Road	Total	Bridge Proper	Approach Road	Total	
(A)	<u>Cost of Work</u>										
1	Cost of Works	18060000.00	1518897.00	739395.00	26962929.00	-	-	2167200.00	-	-	2167200.00
2	RoadLift Charges	-	276922.00	1993537.00	2021229.00	-	-	-	-	-	-
3	Credit for CP Tradesman	-	-	-	-1189294.00	-1189294.00	-	-	-	-	-
4	Extra Tpl Charges	-	-	144295.00	144295.00	-	-	-	-	-	-2167200.00
5	Deduct cost of work planned through execution contract	-18060000.00	-	-	-15060000.00	-	-	-	-	-	-2167200.00
6	Credit for retrieved stone	-	-	-	-	-	-	-	-	-	-
7	Credit for GP Tradesman	-	-	-	-	-	-	-	-	-	-
8	Credit for pioneers	-	1546589.00	8337933.00	9884522.00	-	-	-	-	-	-
(B)	<u>Escalation charges</u>										
	Add escalation @ 18.534 % for 2017-18	-	286583.00	1545019.00	1831602.00	-	-	-	-	-	-
	Add escalation @ 12.52 % for 2018-19	-	-	-	-	-	-	-	-	-	-
	Add escalation @ 15.44 % for 2019-20	-	-	-	-	-	-	-	-	-	-
	Add escalation @ 15.44 % for balance work	-	286583.00	1545019.00	1831602.00	-	-	-	-	-	-
(C)	<u>Total (A+B)</u>	-	1833172.00	9882352.00	11716124.00	-	-	-	-	-	-
(C)	<u>Add for following charges</u>										
	Add 5% for physical contingencies	-	91659.00	494148.00	585807.00	-	-	-	-	-	-
	Add labour cess charges @ 1%	-	18332.00	98830.00	11716.00	-	-	-	-	-	-
	Add 0.1% up to march 2017 and 1% for quality control charges	-	1833.00	9883.00	1171.60	-	-	-	-	-	-
(D)	<u>Total (C)</u>	-	111824.00	602861.00	714685.00	-	-	-	-	-	5916000.00
(D)	<u>Cost of contract</u>										
	Cost of Execution Contract	-	-	-	-	-	-	-	-	-	-
	Add 2% for supervision charges	-	-	-	-	-	-	-	-	-	3.40,697.00
	Add 0.1% up to March 2017 and 1% for quality control charges	-	-	-	-	-	-	-	-	-	6256697.00
	Add escalation as per CA	49300000.00	-	49300000.00	-	-	-	6256697.00	-	-	-
(E)	<u>Total (D)</u>	49300000.00	-	91945.00	91945.00	-	-	-	-	-	-
(E)	<u>Royalty Charges</u>	-	91945.00	91945.00	-	-	-	-	-	-	6256697.00
(E)	<u>Total (E)</u>	-	-	-	-	-	-	6256697.00	-	-	-
(F)	<u>TOTAL (A+B+C+D+E)</u>	49300000.00	1944996.00	10577758.00	61822754.00	-	-	-	-	-	6256697.00
(F)	<u>Obligatory payment against P & A</u>	<u>Total (F)</u>	49300000.00	1944996.00	10577758.00	61822754.00	-	-	-	-	6256697.00
	<u>Say in Lakh</u>		493.00	19.45	105.78	618.23	-	-	-	-	6256697.00

(Chandra Shekhar)

For Chief Engineer

Name of State Jammu and Kashmir
 Name of Project Beacon/32 BRTF/56RCC
 Name of Work CONSTRUCTION of 60 M SINGLE SPAN MAJOR PERMANENT BRIDGE(CHAKNALLA) WITH PSC BOX GIRDER TYPE SUPERSTRUCTURE

CORRIGENDUM TO RE

SNo	Ref. of SSR	Brief Specifications	AU	AS PER RAA						Work done during the Yr. 2014-15 (Pd 01 st April 2014 to 31 Mar 2015), SSR 2012.Zone-E-SCRLA-1,PNR:CPL=1:10						Work done during the Yr. 2015-16 (Pd 01 st April 2015 to 31 Mar 2016), SSR 2012.Zone-E-SCRLA-1,PNR:CPL=1:10						Work done during the Yr. 2015-16 (Pd 01 st April 2015 to 31 Mar 2016), SSR 2012.Zone-E-SCRLA-1,PNR:CPL=1:10
				Qty	Rate	Amount	Qty	Rate (Rs)	Amount (Rs)	Qty	Rate (Rs)	Amount (Rs)	Qty	Rate (Rs)	Amount (Rs)	Qty	Rate (Rs)	Amount (Rs)				
(a) CONSTRUCTION OF PSC BRIDGE																						
		Construction of major PMT Bridge complete																				
1		Add Cost of Bridge as per Contract Agreement No.CE(P)BCN/26/2014-15		Mtr	60.00	301000.00	18050000.00	-	301000.00	-	7.20	301000.00	2167200.00	15.6								
(b) FORMATION WORKS/BRIDGE APPROACHES																						
1	F-401	Rough excavation in SMB 75 % by machine & 25% by Manual	Cum	9058.98			1321705	-	-	155.81	-	-	155.81	-								
2	F-403	Rough excavation in HR 75 % by machine & 25% by Manual	Cum	-			-	-	353.79	-	-	353.79	-									
3	F-701	Earthwork in embankment filling with earth free from roots etc.	Cum	2515.52			197192.00	-	79.21	-	-	79.21	-									
		Add 47% Pay & Allowances @ 47% for the year 2017-18	Total			1518897.00																
		Road lift charges	GTOTAL (B)			0.00																
		Credit for GP Tradesman				1518897.00																
		Credit for Pioneers				27632.00																
(III) PERMANENT WORKS																						
1	P - 101	Excavn in trenches not exceeding 1.2m width and 1.5m depth in soil/soil mixed with boulders, incl dressing bottom and excavated materials laid upto 3m and lift upto 1.5m.	Cum	1188.09		38500.00	-	367.84	-	-	367.84	-	-									
2	P-107	Hard core comprising of broken metal size 5 cm graded downwards spread in layers not exceeding 15 cm including watering, ramming and finishing to required level and gradient	Cum	14.40		25084.00	-	1897.50	-	-	1897.50	-	-									
3	P - 201	Plain Cement Concrete 1:5:10 (1 cement: 5 sand: 10 stone aggregate of size 4cm graded downwards) in fdn or elsewhere(excluding the cost of shuttering/centering).	Cum	12.63		49783.00	-	4245.84	-	-	4245.84	-	-									
4	P - 202	Cement concrete (1 cement: 4 sand: 8 stone aggregate of size 4cm graded downwards) in fdn or elsewhere.	Cum	191.54		793001.00	-	4441.61	-	-	4441.61	-	-									
5	P - 203	Cement concrete (1 cement: 3 Coarse sand: 6 stone aggregate of size 4cm graded downwards) in fdn or elsewhere excluding cost of shuttering/centering.	Cum	41.69		182069.00	-	4663.21	-	-	4663.21	-	-									
6	P-208	Reinforced Cement concrete M-30 (1 cement: 1 Coarse sand: 2.25 stone aggregate of size 4cm graded downwards) excluding cost of shuttering/centering.	Cum	28.80		221154.00	-	8184.89	-	-	8184.89	-	-									

SNo	Ref.of SSR	Brief Specifications		AU	As Per RAA			Work done during the Yr 2014-15 (Pd 01 st April 2014 to 31 Mar 2015), SSR 2012,Zone-E,SCRLA- 1,PNR:CPL=1:10	Work done during the Yr 2015-16 (Pd 01 st April 2015 to 31 Mar 2016), SSR 2012,Zone-E,SCRLA- 1,PNR:CPL=1:10	Work done (Pd 01 st SSR 1		
		Qty	Rate		Amount	Qty	Rate (Rs)	Amount (Rs)	Qty	Rate (Rs)	Amount (Rs)	Qty
7	P-209	Centering and shuttering including strutting, propping and removal of formwork	10 Sqm	3.70	25691.00	-	6988.52	-	6988.52	-	-	-
8	P-505	Random or polygonal rubble walling in cement mortar (1:6) brought to course 45 Cm high , well bounded with through/bond stones evenly spaced at 02 nos per sqm of wall face (Material & providing hooks overlaps etc bars above 12 mm (labour only)	Cum	903.04	473305.00	-	5554.17	-	5554.17	-	-	-
9	P-302	Laying of reinforcement including cutting, bending, binding, providing hooks overlaps etc bars above 12 mm (labour only)	100 kgs	23.67	71850.00	-	3120.71	-	3120.71	-	-	-
10	MP-12	Cost of steel	Kgs	2367.28	118932.00	-	50.24	-	50.24	-	-	-
11	P - 601	Filling of stone(selected materials inlayers well packed behind retaining walls, breast walls, abutment/wing walls of bridges or culverts/labour and material)	Cum	299.91	300461.00	-	1102.46	-	1102.46	-	-	-
12	T003	Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail/70 cm above road /ground level , fixed on ISMC series channel vertical post, 15x75x5mm spaced 2 mtr C/C , 1.8 high, 1.1 mtr below ground/road level ,all steel parts and fitments to be galvanised by hot dip process, all fittings to confirm to IS 1367 and IS : 1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150x75x5 mm ,330 mm long complete as per clause 8/10 of MoSRT&H specifications.	Mtrs	225.00	463005.00	-	2075.10	-	2075.10	-	-	-
		Total of Pmt Works			7383395.00							
		Add 47% Pay & Allowances @ 47% for the year 2017-18			0.00							
		Total (C)			7383395.00							
		Road lift charges			1993537.00							
		Extra tpt charges (Stone &Sand)			144295.00							
		Credit for C.P Tradesman			-1189294.00							
		Credit on Retrieved stone			-							
		Credit for GP Tradesman			-							
		Credit on Pioneers			-							
		Total			8337933.00							0.00
		Royalty charges			91945.00							-
		Deduct cost of bridge as Br SSR 2003			-18060000							
		Add cost of bridge as per contract rate			49300000							


T L Suresh
Lt Col
SO-I (Esg)
For Chief Engineer

STATEMENT OF CASE

FOR

CORRIGENDUM TO RAA FOR CONSTRUCTION of 60 M SINGLE SPAN MAJOR PERMANENT BRIDGE(CHAK NALLAH) WITH PSC BOX GIRDER TYPE SUPERSTRUCTURE AT KM 7.525 OVER KISHAN GANGA RIVER ON ROAD DAWAR-NIRU-BARUAB-CHAKWALI-KABOL GALI UNDER PROJECT BEACON IN J&K STATE (JOB NO-217-B/16)

INTRODUCTION

1. Road Dawar-Niru-Baruab-Chakwali-Kaobul Gali is an extension of the existing road Bandipur-Gureiz. The road alignment connects the far-flung border villages like Dangidhar, Gujran, Abdulan and Chakwali village and the Chakwali is very adjacent to the line of control. This alignment is also very important for providing logistic support to the troops deployed in the various Border posts situated in the vicinity.
2. The road alignment passes through steep mountainous terrain and barren/ cultivated land. This alignment falls at an altitude, ranging from 2401-2700 mtr and experiencing heavy snowfall during winter and accumulation of snow varies from 5 to 8 mtr.
3. To replace this existing 110' DSRBB, a 60 Mtrs Single Span Major Permanent Bridge (CHAK NALLAH) with PSC BOX Girder Type Superstructure has been sanction under Job No 217-B/16 vide HQ DGBR letter No.30204/DGBR/16316/J&K dt 02 Nov 2012 for ₹ 248.18 lacs (cost of department work ₹ 27.92 Lacs and cost of bridge work through execution contract ₹ 220.26 Lacs) based on DGBR SSR 2009. Accordingly, a contract for construction of Pmt bridge was concluded vide HQ CE (P) Beacon CA No CE (P) BCN/27/2014-15 for ₹ 493.00 Lacs. Further, corrigendum to AA was issued by HQ Dte GBR vide their letter No 30204/DGBR/BCN/16316/J&K Dte dated 26 Nov 2014 for ₹ 526.20 lacs (cost of departmental work ₹ 33.20 Lacs and cost of bridge work through execution contract ₹ 493.00 Lacs). Subsequently, Revised Adm Approval was issued by HQ Dte GBR vide their letter No 44001/DGBR/BCN/285/West Dte dated 30 Jan 2017 for ₹ 618.23 lacs (cost of departmental work ₹ 125.23 Lacs and cost of bridge work through execution contract ₹ 493.00 Lacs) due to change in DGBR SSR 2009 to SSR 2012 .
4. The Bridge proper works for Construction of 60 Mtrs Single Span Major Permanent Bridge(CHAK NALLAH) with PSC BOX Girder Type Superstructure under CA No CE (P) BCN/27/2014-15 for ₹ 493.00 Lacs is under progress and present physical progress of the job is 31.90% and financial progress is 46.42%.

PROPOSAL

5. It is proposed to obtain sanction for corrigendum to RAA for construction of 60 Mtrs Single Span Major Permanent Bridge(CHAK NALLAH) with PSC BOX Girder Type Superstructure with Approach work at Km 7.525 on DNBCK Road due to change of DGBR SSR from SSR 2012 to SSR 2016, & linking of Pay & Allowances 47% of GREF Personnel during the year 2017-18 and de-linking of same after 01 April 2018.

JUSTIFICATION

6. The subject work was sanction under job No. 217-B/16 vide HQ DGBR letter No.30204/DGBR/16316/J&K Dte 02 Nov 2012 for ₹ 248.18 lacs (cost of department work ₹ 27.92 Lacs and cost of bridge work through contract execution contract ₹ 220.26 lacs) based on DGBR SSR 2009 . Accordingly, a contract for construction of Pmt bridge was concluded vide HQ CE (P) Beacon vide CA No CE (P) BCN/27/2014-15 for ₹ 493.00 Lacs. Further, corrigendum to AA was issued by HQ Dte GBR vide their letter No 30204/DGBR/BCN/16316/J&K Dte dated 26 Nov 2014 for ₹ 526.20 lacs (cost of departmental work ₹ 33.20 Lacs and cost of bridge work through execution contract ₹ 493.00 Lacs). Subsequently, Revised Adm Approval was issued by HQ Dte GBR vide their letter No 44001/DGBR/BCN/285/West Dte dated 30 Jan 2017 for ₹ 618.23 lacs (cost of departmental work ₹ 125.23 Lacs and cost of bridge work through execution contract ₹ 493.00 Lacs) due to change in DGBR SSR 2009 to SSR 2012 .

7. Job No. 217-B/16 could not be completed in stipulated time and within sanctioned amount due to less working season available 4 to 5 month in this heavily snow bounded area. Hence, the balance work will be taken up on priority in coming FY year 2020 -21 on downward.

8. Due to changes of DGBR SSR from SSR 2012 to SSR 2016 and subsequent linking of Pay & Allowances 47% of GREF Personnel during the year 2017-18 and de-linking of same on onwards year ,it is necessary to initiate Corrigendum to RAA of the subject work . Hence Corrigendum amounting to ₹ 619.89 Lacs is framed.

SCOPE OF WORK

9. There is no change scope of work for construction of 60 Mtr Single Span Major Permanent Bridge (CHAK NALLAH) with PSC BOX Girder Type Superstructure with Approach work at Km 7.525 on D-N-B-C-K Road. The present Corrigendum to RAA amounting of ₹ 619.89 Lacs has been prepared with the scope for construction of 60 Mtrs Single Span Major Permanent Bridge(CHAK NALLAH) with PSC BOX Girder Type Superstructure at km 7.525 on DNBCK Road.

POSITION OF JOB

10. Position of job is as under as on 20 Nov 2019:-

(a) Cost of work as per Revised Adm Approval	- ₹ 618.23 Lacs.
(b) Cost of work as per this Corrigendum to RAA	- ₹ 619.90 Lacs.
(c) Cost of work done up to 20 Nov 2019 (As per Corrigendum to RAA part-I)	- ₹ 197.20 Lacs.(31.90%)
(d) Financial progress up to 20 Oct 2019 (Including liability)	- ₹ 289.00 Lacs.(46.42%)

11. Contract Provision. CA No CE (P) BCN/27/2014-15 for ₹ 493.00 Lacs is under progress for execution of bridge proper work.

FINANCIAL EFFECT

12. The net financial effect for Corrigendum to RAA for the subject work would be (+) ₹ 1.67 Lacs. (₹ 619.90 Lacs - ₹ 618.23 Lacs = ₹ 1.67 Lacs)

INCLUSION OF WORK IN AWP BE 2019-20 AND TARGET

13. The work has been included in approved AWP BE 2019-20 at Srl No. 37 with a target ₹ 10 Lacks pmt works and Major Pmt Bridge 8.00 Mtr.

MODE OF EXECUTION

14. The subject work except Bridge proper work (for which CA No CE (P) BCN/27/2014-15 for ₹ 493.00 Lacs is under progress) has been proposed through departmental execution.

MISCELLANEOUS INFORMATION

15. Land Acquisition. No provision for compensation of land acquisition has been made in this Corrigendum to RAA, as the land is already available.

16. **Rates Adopted** : The present Corrigendum to RAA has been priced based on DGBR SSR 2016 Zone "I" for balance work for altitude from 2401-2700 Mtr.

17. **Road Lift charges** : Road lift charges for all stores have been catered for as per DGBR letter No.F-63(21)/BRDB/90/P-II dated 22nd Apr 1993 .

18. **Extra Tpt Charges** : Stone & sand is available within initial lead, hence no extra TPT charges for stone & sand are catered in this Corrigendum to RAA.

19. **Physical contingency charges**: Provision of physical contingency charges has been made @ 5% on Sectt BRDB letter No. F-62/Gen/Proj/CCC dated 08 Apr 1993.

20. **Royalty charges** : Royalty charges for stone and sand have been catered in this corrigendum to RAA as per Govt of Jammu & Kashmir, Deptt of Geology and Mining letter SRO-03 dated 06 Jan 2016.

21. **Escalation Charges**.

(a) **Bridge proper**. The balance work are Planed during 2020-21 through execution contract, hence nil escalation charge has been considered in this Corrigendum to RAA.

(b) **Approach work**. Provision of escalation charges @ 15.44% on SSR 2016 for FY 2019-20 and Balance work has been catered for in this corrigendum to RAA .

22. **Quality Control Charges** :- Quality Control Charges have been provisioned @ 1% as per general rules of DGBR SSR 2016 sub para (i) of Para 5 after 31 Mar 2017.

23. **Credit for Retrieved Materials**:- Retrieved quantity of stone for the pmt works from hard rock formation cutting have not been considered in this Corrigendum to RAA.

24. **Labour Cess Charges** :- Labour Cess Charges have been provisioned @ 1% in this Corrigendum to RAA as per HQ Dte GBR letter No.30204/DGBR/EC/172/WP Coord (T) dated 12 Jan 2011.

CERTIFICATE

25. It is certified that:-

(a) All the quantities included in this Corrigendum to RAA are based on detailed calculation sheets and drawings.

(b) No portion of the work catered for in this Corrigendum to RAA is covered under any other job sponsored / sanctioned earlier.

(c) All the arithmetical calculations have been checked and found correct.

(d) All appendices and annexure are authenticated.

(e) The works proposed are essential and minimum inescapable requirement and the design thereof is adequate taking absolute technical necessity.

(f) The work proposed in this corrigendum to RAA are technically sound and essential.

(g) No lump sum provisions have been made in this corrigendum to RAA.

Contd--P/4

RECOMMENDATIONS

26 The subject Corrigendum to RAA has been thoroughly checked and workout to ₹ 619.90 Lacs for construction of 60 Mtrs Single Span Major Permanent Bridge (Chak Nallah) with PSC BOX Girder Type Superstructure at km 7.525 on DNBCK Road. Considering the necessity and strategic importance of the road the subject Corrigendum to RAA is to be processed and sanctioned at the earliest for completion of balance work.

Station: C/o 56 APO

Dated: 04 Jan 2020


(RC Pandey)
AE(CIV)
Offg Officer commanding


HILL SIDE

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VALLEY SIDE

PLAN OF EXISTING AND PROPOSED
PMT BRIDGE AT KM 7.525 ON
DNBCK ROAD UNDER 56 RCC

PROPOSED STRUCTURE

1. NIRU SIDE

a) R/W 40X 4.0 m (CM)
 b) R/W 40X 2.50 m (CM)
 c) R/W 20X 2.0 m (CM)
 d) B/W 32X 4.0 m (CM)
 e) B/W 24X 3.0 m (CM)

2. DAWAR SIDE

a) R/ω 24 x 4 m (cm)
b) R/ω 24 x 3 m (cm)

(Praveen Koshy)
Major
Officer Commanding