RESTRICTED

Headquarters
Chief Engineer
Project Beacon
C/o 56 APO

04 Jun 2021

750803/AA/CE's Power/ 05 /Estg

HQ 32 BRTF
C/o 56 APO

ADMINISTRATIVE APPROVAL

CONSTRUCTION OF 70 MTR SPAN STEEL SUPERSTRUCTURE (THROUGH TYPE) TOTA BRIDGE WITH APPROACHES INCLUDING LA/FC OVER KISHAN GANGA RIVER AT KM 66.950 ON BANDIPUR-GUREIZ ROAD UNDER 56 RCC/32 BRTF/ PROJECT BEACON IN J&K STATE (NOW 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 Administrative Approval and Expenditure Sanction for "Construction of 70 M span Steel Superstructure (Through type) Tota Bridge with approaches including LA/FC over Kishan Ganga river at Km 66.950 on Bandipur-Gureiz road under 56 RCC/32 BRTF/ Project Beacon in J&K State (now UT)" at an estimated cost of **Rs. 838.35 lakh (Rupees Eight crore thirty eight lakh and thirty five thousand only)** as per details in the annexure to this letter.

(a)	Cost of Departmental work	-	Rs 60.79 lakh
(b)	Cost of Execution contract	-	Rs 777.56 lakh
	Total	-	**Rs. 838.35 lakh**

2. The expenditure on the work is debitable to **"MH 5054.02.337.03.00.53 Road Works OTNH "**.

3. The work has been assigned **Job No. 217/20(BCN)** which may please be quoted in all future correspondence on the subject.

4. This issues with the concurrence of AO (P) Beacon vide Note No XI & File No. ABC/185/Concurrence/Wks/ESTG dated 31 May 2021.

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10/6

(I K Jaggi)
Brigadier
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): 201845/AE/Tota/B-G Rd/Km 66.950/Estg)**.

Internal:-

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

RESTRICTED

ADMINISTRATIVE APPROVAL

PART-I

of Area : Jammu & Kashmir (UT)
e of Project : Beacon/ 32 BRTF/ 56 RCC
me of work :**CONSTRUCTION OF 70 MTR SPAN STEEL SUPERSTRUCTURE (THROUGH TYPE) TOTA BRIDGE WITH APPROACHES INCLUDING LA/FC OVER KISHAN GANGA RIVER AT KM 66.950 ON BANDIPUR-GUREIZ ROAD UNDER 56 RCC/32 BRTF/ PROJECT BEACON IN J&K STATE (NOW UT)**

Job No: 217/20 (BCN)

Sl No	Description	Land Acquisition (Rs.)	Approach road (Rs.)			Pmt Bridge (Rs.)	Total amount (Rs.)
			Fmn work amt (Rs.)	Pmt work amt (Rs.)	Surf work amt (Rs.)		
(A)	**WORK ASSESSED AS PER DGBR SSR-2016**						
(i)	Cost of work (cost of bridge as per Bridge SSR 2019)	0.00	457017.00	961160.00	1807099.00	77755000.00	80980276.00
(ii)	Road lift charges	0.00	6662.00	251224.00	126776.00	0.00	384662.00
(iii)	Extra transportation charges for stone and sand	0.00	0.00	27651.00	62825.00	0.00	90476.00
(iv)	Extra tpt charges for ready mix from HMP to work site	0.00	0.00	0.00	39242.00		39242.00
(v)	Deduct cost of bridge as per Br SSR 2019	0.00	0.00	0.00	0.00	-77755000.00	-77755000.00
(vi)	Credit for GREF Pioneer	0.00	-5026.00	-30460.00	-29747.00	0.00	-65233.00
(vii)	Credit for GREF Tradesmen	0.00	-17299.00	-43247.00	-12581.00	0.00	-73127.00
	Total (A)	**0.00**	**441354.00**	**1166328.00**	**1993614.00**	**0.00**	**3601296.00**
(B)	**Add Escalation Charges**						
(i)	For FY 2020-21, 2022-23 & 2023-24 @ 15.44%	0.00	68145.00	180081.00	307814.00	0.00	556040.00
	Total (B)	**0.00**	**68145.00**	**180081.00**	**307814.00**	**0.00**	**556040.00**
	Total (A) + (B)	**0.00**	**509499.00**	**1346409.00**	**2301428.00**	**0.00**	**4157336.00**
(C)	**Add following charges**						
(i)	Physical contingency charges @ 5%	0.00	25475.00	67320.00	115071.00	0.00	207866.00
(ii)	Road side Accn @ 2%	0.00	10190.00	26928.00	0.00	0.00	37118.00
(iii)	QCC @ 1%	0.00	5095.00	13464.00	23014.00	0.00	41573.00
(iv)	Labour Cess @ 1%	0.00	5095.00	13464.00	23014.00	0.00	41573.00
	Total (C)	**0.00**	**45855.00**	**121176.00**	**161099.00**	**0.00**	**328130.00**
	Total (A) + (B) + (C)	**0.00**	**555354.00**	**1467585.00**	**2462527.00**	**0.00**	**4485466.00**
(D)	**Add Cost of Contract**						
(i)	Execution contract for bridge proper					77755000.00	77755000.00
(ii)	QCC @ 1%					*777550.00*	777550.00
(iii)	Physical contingencies @ 1%					*777550.00*	777550.00
	Total (D)	**0.00**	**0.00**	**0.00**	**0.00**	**79310100.00**	**79310100.00**
(E)	**Royalty charges**			10016.00	29311.00		***39327.00***
	G/Total (A) to (E)	**0.00**	**555354.00**	**1477601.00**	**2491838.00**	***79310100.00***	***83834893.00***
	Say in lakh	**0 lakh**	**5.55 lakh**	**14.78 lakh**	**24.92 lakh**	***793.1 lakh***	***838.35 lakh***

(Chaman Lal)
SE (Civ)
Dir (Br & Estg)
for Chief Engineer

RESTRICTED

ADMINISTRATIVE APPROVAL
PART-II

Job No: 217/20 (BCN)
SSR 2016, Zone-"J"
Altd Bet 2101-2400 m

of Area : Jammu & Kashmir (UT)
e of Project : Beacon/ 32 BRTF/ 56 RCC
me of work :**CONSTRUCTION OF 70 MTR SPAN STEEL SUPERSTRUCTURE (THROUGH TYPE) TOTA BRIDGE WITH APPROACHES INCLUDING LA/FC OVER KISHAN GANGA RIVER AT KM 66.950 ON BANDIPUR-GUREIZ ROAD UNDER 56 RCC/32 BRTF/ PROJECT BEACON IN J&K STATE (NOW UT)**

Sl No	Name of Work	SSR 2016 item No.	Brief description of SSR items	A/U	Qty	Rate (Rs.)	Amount (Rs.)
(A)	**Bridge Proper**						
	Bidge Proper	BR SSR 2019	70 m span steel superstructure through type bridge	Mtr	70.00	1110785.71	**77755000.00**
(B)	**Approach Road**						
(i)	**Fmn works**						
		F 702	Earth work in embankment including excavation of earth and filling with earth work free from roots etc spreading in layers not exceeding 30 cm including watering rolling & finishing to required slope and level not exceeding 1.5 m above the base in plain area and for approaches to bridge in ordinary soil excluding cost of soil. (By manual means).For lead exceeding 6.00 m add item C-101 or C-102 as applicable.	Cum	1121.38	353.37	396262.00
		F 403	Rough Excavation in HR 75% Machine & 25% manual	Cum	184.23	329.78	60755.00
			Total (i)				**457017.00**
			Road Lift charges				6662.00
			Credit for GREF Tradesmen				-17299.00
			Credit for GREF Pioneer				-5026.00
(ii)	**Pmt works**						
		P 101	Excavation in trenches not exceeding 1.2 m width and 1.5 m depth in soil/soil mixed with boulders (SMB), including dressing bottom and sides getting out and disposing all excavated material lead upto 6 m and lift upto 1.5 m. (by manual means)	Cum	72.90	406.14	29608.00
		P 202	Plain cement concrete 1:4:8 (1 cement: 4 sand: 8 stone aggregate of size 4cm graded downwards) in foundation or elsewhere (excluding the cost of centering/shuttering).	Cum	11.82	3972.07	46950.00
		P 203	Plain cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 stone aggregate size 4cm graded downwards) in foundation or elsewhere (excluding the cost of centering/shuttering).	Cum	6.08	4285.58	26056.00
		P 204	Plain cement concrete 1:2:4 (1cement: 2 coarse sand: 4 stone aggregate size 4cm graded downwards) in foundation or elsewhere (excluding the cost of centering/shuttering).	Cum	12.31	6948.36	85534.00
		P 505	Random or polygonal rubble walling incement mortar (1:6) brought to course 45cm high, well bonded with through/bond stones evenly spaced at 2 Nosper Sqm of wall face (material and Labour)	Cum	49.68	4226.27	209961.00
		P 501	Walling of rubble stone laid dry, well bonded, faced with selected stones and bult with bond or through stone evenly spaced @ 2 nos per sq meter of wall face.	Cum	8.76	3338.74	29247.00
		P 601	Filling of stones/selected material in layers well packed behind retaining walls, breast walls, abutment/wing walls of bridges or culverts as per drawing specification (labour and material).	Cum	31.32	1130.89	35419.00
		P 209	Centering/Shuttering (Steel) including strutting, propping and removal of formwork (considering 10 times to be used).	10 Sqm	6.28	5577.96	35030.00
		P 208	Reinforced Cement concrete M-30 nearly corresponding to nominal mix, 1 cement: 1.1 sand: 2.25 stone aggregate of size 20 mm graded downward. (excluding the cost of reinforcement & centering/shuttering)	Cum	32.40	7828.54	253645.00
		P 107	Hardcore comprising of broken road metal size 5 cm graded downards spread in layers not exceeding 15 cm including watering, ramming and finishing to required level and gradient including cost of stone metal	Cum	10.90	2074.69	22614.00

		SSR 2016 item No.	Brief description of SSR items	A/U	Qty	Rate (Rs.)	Amount (Rs.)
		P 302	Laying reinforcement including cutting bending binding providing hooks overlaps etc bars up to 12 mm (labour only)	100 kg	25.96	1889.09	49041.00
		MP 12	Cost of steel	Kg	2596.00	53.18	138055.00
			Total (ii)				**961160.00**
			Road lift charges				251224.00
			Extra transportation charges				27651.00
			Credit for GREF Tradesmen				-43247.00
			Credit for GREF Pioneer				-30460.00
			Royalty Charges for stone and sand				10016.00
(iii)	**Surf works**						
		S101	**Preparation of sub-grade in SMB** by excavating upto 20 cm avg depth, dressing excavated earth to required camber or super elevation and consolidating with power roller incl watering & disposal of surplus earth within a lead of 30 mtr.	10 sqm	80.27	465.39	37357.00
		S109	**GSB 15 cm thick (compacted)** with stone aggregate conforming to grading No 1 as per Tables-400-1 of MORT&H specifications for Road and Bridge Works including supply of material, watering and compaction all complete.	10 sqm	160.55	3889.15	624403.00
		S511	Providing and laying **50 mm thick DBM** layer, precoated stone aggregate physical requirements/grading/mix composition requirement as per Table - 500-8/9/10 respectively of MORT&H specifications for road and bridge works with 4.250% asphalt VG-10 penetration grade as per MoSRT&H data book and rolled to the required specification.	10 sqm	73.63	5193.17	382373.00
		S809	Providing and applying **prime coat** with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer @ 7.50 Kg per 10 sqm. (using BPD with manual labour)	10 sqm	73.63	726.68	53505.00
		S402	**WBM 75 mm** consolidated thickness of stone metal size 63 mm to 45 mm, grading No 1, as per Table-400-9 with type 'A' screening as per Table 400-10 and satisfying the physical requirement as per Table-400-8 of MORT&H specifications, spread, rolled, hollow made up to form true surface blinded and compacted to gradient and camber required all as specified.	10 sqm	157.23	2212.72	347906.00
		S814	Providing and applying **tack coat** with bitumen emulsion using emulsion pressure distributor @ 2.5 Kg/10 Sqm on prepared bituminous/granular surface cleaned with mechanical broom, all complete as per clause 503 of MoSRT&H specifications.	10 sqm	73.63	166.40	12252.00
		S513	Providing and laying **40 mm thick BC** on bituminous concrete layer with precoated stone chips grading confirming to Table:500-17 and mix satisfying the physical requirementt of table 500-16 of MORT&H specifications, mixed with 5% binder asphalt VG-10 penetration grade by weight of total mix and 2% cement by weight of mix (for filler) all as specified as per MoSRT&H data book.	10 sqm	73.63	4744.03	349303.00
			Total (iii)				**1807099.00**
			Road lift charges				126776.00
			Extra Tpt Charges for stone and sand				62825.00
			Extra Tpt Charges for ready mix from HMP to work site				39242.00
			Credit for GREF Tradesmen				-12581.00
			Credit for GREF Pioneer				-29747.00
			Royalty Charges				29311.00

(Ajay Kumar Chikhale)
EE (Civ)
SO-I (Estg)
for Chief Engineer