

**RESTRICTED**  
**APPROXIMATE ESTIMATE**  
**PART-I**

Name of Area/state : JAMMU & KASHMIR  
Name of unit/TF/Project : 56 RCC/32 BRTF/Beacon  
Name of work : CONSTRUCTION OF 45 MTR SPAN STEEL SUPERSTRUCTURE THROUGH TYPE PERMANENT BRIDGE OVER GURAI NALLAH WITH APPROACHES AT KM 66.00 ON BANDIPUR-GUREIZ ROAD TO BE EXECUTED THROUGH CONTRACT UNDER 56 RCC/32 BRTF/ PROJECT BEACON IN JAMMU & KASHMIR (JT)

S/No	Description	Land Acquisition (Rs.)	Approach road (Rs.)			Pmt Bridge (Rs.)	Total amount (Rs.)
			Frm work amt (Rs.)	Pmt work amt (Rs.)	Surf work amt (Rs.)		
<b>(A) WORK ASSESSED AS PER DGBR SSR-2012</b>							
(i)	Cost of work	0.00	595442.00	3029473.00	2609257.00	48150000.00	54384172.00
(ii)	Road lift charges	0.00	8614.00	778406.00	182451.00	0.00	969471.00
(iii)	Extra transportation charges for stone and sand	0.00	0.00	130371.00	98485.00	0.00	228856.00
(iv)	Extra lpt charges for ready mix from HMP to work site	0.00	0.00	0.00	56800.00	0.00	56800.00
(v)	Add cost of Proof checking @ 3%	0.00	0.00	0.00	0.00	1444500.00	1444500.00
(vi)	Deduct cost of bridge as per Bridge SSR 2019	0.00	0.00	0.00	0.00	-48150000.00	-48150000.00
(vii)	Credit for deployment of PNR	0.00	-3458.00	-105470.00	-39738.00	0.00	-148666.00
(viii)	Credit for deployment of GP Tradesmen	0.00	-28242.00	-218650.00	-30064.00	0.00	-276956.00
<b>Total (A)</b>		<b>0.00</b>	<b>572356.00</b>	<b>3614130.00</b>	<b>2877191.00</b>	<b>1444500.00</b>	<b>8508177.00</b>
<b>(B) Add Escalation Charges</b>							
(i)	Add escalation charges @ 15.44% for 2020-21, 2021-22, 2022-23	0.00	88372.00	558022.00	444238.00	0.00	1090632.00
<b>Total (B)</b>		<b>0.00</b>	<b>88372.00</b>	<b>558022.00</b>	<b>444238.00</b>	<b>0.00</b>	<b>1090632.00</b>
<b>Total (A) + (B)</b>		<b>0.00</b>	<b>660728.00</b>	<b>4172152.00</b>	<b>3321429.00</b>	<b>1444500.00</b>	<b>9598809.00</b>
<b>(C) Add following charges</b>							
(ii)	Physical contingency charges @ 5%	0.00	33036.00	208608.00	166071.00	0.00	407715.00
(iii)	Road side Accn @ 2%	0.00	13215.00	83443.00	66429.00	0.00	163087.00
(iv)	Add QCC @ 1%	0.00	6607.00	41722.00	33214.00	0.00	81543.00
<b>Total (C)</b>		<b>0.00</b>	<b>52858.00</b>	<b>333773.00</b>	<b>265714.00</b>	<b>0.00</b>	<b>652345.00</b>
<b>Total (A) + (B) + (C)</b>		<b>0.00</b>	<b>713586.00</b>	<b>4505925.00</b>	<b>3587143.00</b>	<b>1444500.00</b>	<b>10251154.00</b>
<b>(D) Cost of Contract material</b>							
(i)	Cost of contract for execution of bridge proper	0.00	0.00	0.00	0.00	48150000.00	48150000.00
(ii)	QCC @ 1%	0.00	0.00	0.00	0.00	481500.00	481500.00
<b>Total (D)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>48631500.00</b>	<b>48631500.00</b>
<b>Total (A) + (B) + (C) + (D)</b>		<b>0.00</b>	<b>713586.00</b>	<b>4505925.00</b>	<b>3587143.00</b>	<b>50076000.00</b>	<b>58882654.00</b>
				41094.00	41317.00	41094.00	123505.00
(E)	Add Royalty charges	0.00	713586.00	4547019.00	3628460.00	50117094.00	59006159.00
<b>G/TOTAL (A) to €</b>		<b>0.00</b>					

Station : C/o 56 APO  
Dated: 13 Oct 2020

RESTRICTED

(Anirudh Kumar)  
AE (Civ)  
Offg Officer Commanding

**RESTRICTED  
APPROXIMATE ESTIMATE  
PART-II**

Area/State : JAMMU & KASHMIR  
Unit/TF/Project : 56 RCC/32 BRT/Beacon  
Name of work : CONSTRUCTION OF 45 MTR SPAN STEEL SUPERSTRUCTURE THROUGH TYPE PERMANENT BRIDGE OVER GURAI NALLAH WITH APPROACHES AT KM 66.00 ON BANDIPUR-GUREIZ ROAD TO BE EXECUTED THROUGH CONTRACT UNDER 56 RCC/32 BRT/ PROJECT BEACON IN JAMMU & KASHMIR (UT)

SSR 2016, Zone-"J"  
Alt'd Bet 2401-2700 m

S/No.	Name of Work	SSR 2016 item No.	Brief description of SSR items				A/U	Qty	Rate (Rs.)	Amount (Rs.)
(A)	<b>Formation works of approach road</b>									
	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	1656.95	359.36	595442.00
			<b>Total (A)</b>							<b>595442.00</b>
			Credit for deployment of GP Tradesmen							<b>-28242.00</b>
			Credit for PNR							<b>-3458.00</b>
			Road Lift charges Fmn works							<b>8614.00</b>
(B)	<b>Bridge works</b>									
(i)	Bridge Proper	BR SSR 2019	45 m span steel superstructure through type bridge				Mtr	45.00	1070000.00	48150000.00
(C)	<b>LAND ACQUISITION</b>									
	No provision for compensation of land acquisition has been made in this AE as Govt land is available for construction of bridge as per HQ DGBR letter No. 21831/LA/DGBR/Vol-9/16/TP (Pig) dated 26 Aug 2020. No provision for compensation of land acquisition has been made in this AE as State Land is available for construction of bridge as intimated vide Office of the Sub Divisional Magistrate, Gureiz letter No.SDM/G/2020/830-31 dated 16 Oct 2020 21831/LA/DGBR/Vol-9/16/TP (Pig) dated 26 Aug 2020 (Copy enclosed).						Ha	0.00	1794000.00	0.00
(D)	<b>Permanent works of approach road</b>									
	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	549.72	436.36	239875.00
	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	97.69	4162.38	406606.00
	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	11.50	4475.19	51465.00
	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	218.53	4486.59	980451.00
	P 501		Walling of rubble stone laid dry, well bonded, faced with selected stones and built with bond or through stone evenly spaced @ 2 nos per sq meter of wall face.				Cum	179.90	3578.18	643729.00
	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	163.43	1212.96	198234.00
	P 209		Centering/Shuttering (Steel) including strutting, propping and removal of formwork (considering 10 times to be used).				10 Sqm	14.04	5955.26	83612.00
	P 206		Reinforced cement concrete M-20 nearly corresponding to nominal mix 1 cement 1.5 sand 3 stone aggregate of size 20 mm graded downwards (excluding cost of reinforcement & centering shuttering)				Cum	28.80	7777.05	223979.00
	P 107		Hardcore comprising of broken road metal size 5 cm graded downwards spread in layers not exceeding 15 cm including watering, ramming and finishing to required level and gradient including cost of stone metal				Cum	13.68	2017.73	27603.00
	P 302		Laying reinforcement including cutting bending binding providing hooks overlaps etc bars up to 12 mm (labour only)				100 kg	23.67	2029.67	48042.00
	MP 12		Cost of steel				Kg	2367.00	53.18	125877.00
			<b>Total (D)</b>							<b>3029473.00</b>



No.	Name of Work	SSR 2016 item No.	Brief description of SSR items		AU	Qty	Rate (Rs.)	Amount (Rs.)
			Credit for deployment of GP Tradesmen					-218650.00
			Road lift charges for permanent works of approach road					778406.00
			Credit for PNR					-105470.00
			Extra transportation charges					130371.00
			Royalty Charges for stone and sand					41094.00
(E)	Surfacing works of approach road							
		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	103.761	488.15		50651.00
		S917	Non Frost Susceptible Stone Base (NFSSB) 15 cm thick	10 sqm	207.522	4650.36		965052.00
		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	96.075	5248.01		504203.00
		S809	Providing and applying prime coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying primer @ 7.50 Kg per 10 sqm. (using BPD with manual labour)	10 sqm	96.075	747.18		71785.00
		S810	Providing crushed stone aggregate (75 mm ), depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 405 of MoSRT&H specifications to form a layer of sub-base/base. (2 layers)	10 sqm	199.836	2616.28		522827.00
		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	192.15	166.99		32087.00
		S513	Providing and laying 40 mm thick BC on bituminous concrete layer with precoated stone chips grading conforming to Table:500-17 and mix satisfying the physical requirement 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	96.075	4815.53		462652.00
			Total (E)					2609257.00
			Credit for deployment of GP Tradesmen					-30064
			Credit for PNR					-39738
			Road lift charges for surfacing works					182451.00
			Extra Tpt Charges for stone and sand					98485.00
			Extra Tpt Charges for ready mix from HMP to work site					56800.00
			Royalty Charges					41317.00

Station : C/o 56 APO

Dated: 19 Oct 2020

**RESTRICTED**

(Anirudh Kumar)  
AE (Civ)  
Ofg Officer Commanding