

**Name of Project: Construction of Bailey Bridge Abutment, Wing Wall and Improvement/Widening Of Approach Road**

**Location: Pharikha, Haa Chhu, Katsho Geog**

**Detail: Bill Of Quantity**

Sl.no	BSR reference	Description of item(specification)	Quantity	Unit	Rate in Figure	Rate in Words	Amount
		<b>Earth work</b>					
1	EW0030	Earth work in excavation of existing river bed and widening of approach road of LEFT BANK by Excavator including stacking of excavated earth at required height along the river bank. Excavation may be below or above water level, which the contractor has to ascertain after studying site condition. All efforts required for achieving at site have to be included in the rates. with or without blasting.	1450	Cum			
2	EW0105	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10 sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift- Ordinary Soil (abutment and wing wall)	399.16	Cum			
3	EW0197	Backfilling around and behind the foundations, abutments and wing walls. Handling, loading, offloading, transportation, watering and all necessary works shall be included in the rate. The back filling should be done as per the instruction of site engineer and in layers not more than 300mm thick and compacted well with earth rammer or compactor. The filling materials should be transported from designated area as per the instruction. (abutment and wing wall back fillings)	1741.00	Cum			
4	EW0096	Earth embankment for the approach road construction with 70% boulders and 30% earth in layers not more than 300mm thick and compacted well by 8 tone road roller. The filling materials should be transported from designated area as per the instruction of site engineer. -approach road	1125.00	Cum			
5	SM0072	Providing and laying course gravel (filter type) behind the abutment and wing walls, thickness=500mm. The filter material to be approved by the client. (abutment and wing wall)	44.00	Cum			
6	CW0005	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work up to plinth level. -1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size) -lean concrete	30.06	Cum			

7	RC0001	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work 1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)-abutment footings	60.00	Cum				
8	RC0005	Providing & laying in position reinforced cement concrete work in walls (any thickness) including attached pilasters buttresses, piers, abutments etc. upto floor five level excluding the cost of centering, shuttering and reinforcement-1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)-main abutment	110.26	Cum				
9	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork-Foundation and plinth etc.(footings)	44.00	Sqm				
10	RC0093	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork-Columns, pillars, post, struts etc.-abutment	167.22	Sqm				
11	RC0083	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	7040.32	Kg				
12	SM0005	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth-In cement mortar 1:4 (wing wall)	469.83	Cum				
13	SM0072	Providing and laying Hand packed stone filling or soling with stones	21.33	Cum				
14	CW0003	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level.-1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)-parapet wall	2.88	Cum				
15	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork	24.00	Sqm				
16	PT0020	Providing & applying white or colour washing-White washing with lime-new work-three coats	24.00	Sqm				
17	PL0041	Providing & laying 20mm cement plaster-C.M 1:4	24.00	Sqm				
18	DR0092	Providing & laying NP2 class R.C pipes, including collars, jointing in cement mortar 1:2 including testing of joints etc. complete-450mm dia.	5.00	m				
19	PO0021	Providing & laying H.D.P.E pipes, 10 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block)-90mm	46.80	m				

20	RW0246	Construction of gabion wall as per drawings with dry stone masonry ( hammer dressed facing) including excavation of foundation in all types of soils , sides and backfilling, delivery of machine woven gabion mesh (Hexagonal mesh of size 90mm x 100mm with a minimum of 3 twists) with GI wire 3.25mm(10 swg) dia, fixing of selvedged wire 4.06mm (8 swg) dia, binding/lacing wire 2.64mm (12 swg) dia complete-Height up to 2.0m					
		Height up to 2.0m	20.00	m			
		Height up to 1.0m	50.00	m			
		<b>Total Nu=</b>					