

Name of Work : Nangar Phurbee Rcc bridge
 Location : Nangar (Pharbee), Chumey Gewog.
 Agency : Chumey Gewog, Bumthang Dzongkhag Administration
 BOQ
 Estimated amount:Nu:8030325.1/-

Sl #	Item Code	Subject	Qty	Unit	Rate in figure	Rate in words	Amount
Earth work							
1	EW0031	Earth work in excavation of existing river bed and widening of approach road of RIGHT 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 studing site condition. All efforts required for achieving at site have to be included in the rates. with or without blasting.					
			438.50	M ³			
2	EW0106	Excavation in foundation trenches and storing the useful materials close to the abutments and foundations. This materials will be used as backfilling for road and foundations.					
		abutment	162.00	M ³			
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 instruction of site engineer and in layers not more than 300mm thick and compacted well with earth rammer or compactor. The filling materials should transported form designated area as per instruction.					
		foundations	43.68	M ³			
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 rollar . The filling materials should be transported from designated area. As per instruction of site engineer.					
		approach road	960.00	M ³			
5	SM0072	Providing and laying course gravel (filter type) behind the abutment and wing walls , Thickness = 500 mm. The filter materials to be approved by the client.					
		abutments	12.00	M ³			
RCC and Concrete Work							
6	CW0008	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering All work upto plinth level. 1:4:8 40mm aggregates. Mixing by manually is not allowed.					
			5.40	M ³			
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). Mxing by manually is not allowed.					
			408.35	M ³			
Formwork							

9	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork Foundation and plinth etc.					
			33.60	M ²			
10	RC0093	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork Columns, pillars, post, struts etc.					
			553.87	M ²			
Steel Reinforcement							
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					
			13500.00	kg			
Wing walls/Stone Masonry							
12	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					
		Wing walls	160	M3			
13	SM0072	Providing and laying Hand packed stone filling or soling with stones					
			40	M3			
14	CW0005	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level.-1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)					
			16	M3			
12	SM0005	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth, In cement mortar 1:4					
		wing walls					
		parapet wall on top of wing walls					
			430.08	M ³			
13	CW0003	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering All work upto plinth level. 1:2:4, 20mm aggregates.					
			1.54	M ³			
16	PO0008	Providing & laying G.I. pipes including G.I. fittings (excluding trenching, refilling & thrust block). 80mm dia. Railing					
			80.00	M			
Painting works							
17	PT0042	Providing and applying finishing coats Acrylic washable distemper, two coats on new work, including cement primer coat					
			231.52	M ²			
18	PT0020	Providing & applying white or colour washing, White washing with lime new work three coats					
			231.52	M ²			
19	PL0040	Providing & laying 20mm cement plaster C.M 1:3					
			254.56	M ²			

22	Nil	Providing and laying to the correct line and level, as per the relevant drawings, steel reinforced elastomeric bearings of the size, thickness and shape shown in the relevant drawings.						
			4.00	Pcs				
23	Nil	Providing and fixing Sign Board as per design drawings.						
			1.00	l/sum				
24	nil	Providing and laying strip seal type expansion joints as per the details shown in the drawing.						
			8.40	m				
25	RW0248	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						
			40.00	m				
			Total amount					