

BILL OF QUANTITIES

A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices provided in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered on the basis of %age Above/Below on Bill of Quantities. Rates quoted on Bill of Quantities shall be considered as final and no separate Premium/Rebate letters shall be accepted.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
6. General directions and description of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 58.2 of Part I, General Conditions of Contract.
8. %age and final bid amount must be quoted in figures as well as in words, non-compliant bids in this regard may become non-responsive.

BILL OF QUANTITIES**REDECKING OF TWO DAMAGED BRIDGES AT KM 442+000
AND KM 458+000, ON MCH, N-10****CONTRACT NO. BR-WM-2016-17-01**

Item No.	Description	Unit	Quantity	Rate	Amount
202i	Aggregate Base Course (with Grader)	CM	27.20	2,431.46	66,135.71
401di	Concrete Class D1	CM	403.97	20,747.03	8,381,073.97
401f	Lean Concrete	CM	14.88	8,127.80	120,941.66
404b	Reinforcement as per AASHTO M-31, Grade-60	Ton	90.00	242,393.83	21,815,444.70
	20% cost of salvaged steel from the deck slab, barrier and approach slab.	Tons	(90.00)	(48,478.77)	(4,363,088.94)
608h1	Pavement marking Reflective CR Paint for lines of 15cm width	M	423.00	60.63	25,646.49
SP-1	Dismantling and disposal of structures and obstruction using additional machinery / generator & concrete breakers (inclusive of everything). Breaking existing deck slab, approach slab and railing is very specialized work it will be done using hand held concrete breakers or chiselling. Heavy jack hammers are strictly prohibited.	CM	345.84	3,669.92	1,269,205.13
SP-2	Digital topographical survey of the existing bridge minimum 600mm along the road (300mm along the road on either side of the bridge) and along Nullah upto 100 meter stream & downstream showing all aspects including detailed survey of bridge showing dimension of the element of the Superstructure	PS	2.00	120,000.00	240,000.00
NSI-I	150mm dia PVC for Utility (inclusive of everything)	LM	250.00	336.72	84,180.00
NSI-2	29mm PVC sleeve pipe with anchor.	LM	14.40	344.88	4,966.27
NSI-3	Polystyrene sheet	SM	148.80	217.20	32,319.36
NSI-4	Angle Reflector @ 3000mm c/c/	Each	83.33	276.00	23,000.00
	50mm Expansion Joint-Indigenous Type 15mm Thick two Vertical Steel Plates Welded 10mm Thick Round Steel Bars Local (Pakistan Made). PSQCA Certified.	LM	65.10	41,699.88	2,714,662.19
607aii	Traffic Sign Cat Iiii-120 cm sign board in high intensity reflective sheet laminated on 1.8 mm thick G.I. sheet with G.I. Pipe dia 3" and thickness 8 guage.	Each	8.00	27,221.85	217,774.80
NSI-5	High Density PVC pipe 100 Ø for drainage (inclusive of everything)	LM	50.00	307.32	15,366.00
NSI-6	SBR Latex modified concrete for 40mm wearing course.	Sq.m	1,198.50	2,668.00	3,197,598.00
NSI-7	Cost difference between SR cement and OPC	Bags	3,769.61	50.00	188,480.25
NSI-8	Additional admixture chermite 520 (ABS) or equivalent 1.25% by weight of Cement w/c ratio must not exceed 0.32-0.35 and slump should not be more than 160 mm	Liters	2,356.00	114.00	268,584.36

NSI-9	Additional Admixture silica fumes 6% by weight of Cement.	Kg	11,308.82	100.80	1,139,928.55
	Compaction of natural ground	Sq.m	10,650.00	27.41	291,916.50
201	Granular Sub Base Course	CM	3,135.00	1,940.74	6,084,219.90
	Aggregate base course (with grader)	CM	3,135.00	2,431.46	7,622,627.10
NSI-10	Maintenance of Diversion from start to completion of work including provision of proper safety and diversion items and machinery, water tank, dozer, statics tandem roller, sign/warning boards, sand bags, Lights, safety jackets, Warning Tapes, Safety Cones etc and flagmen on 24/7 basis lightening & machinery to pull away breakdown loaded vehicles from diversion. Complete in all respect as per instructions of the Engineer in charge.	Job	2.00	400,000.00	800,000.00
107d	Net Granular Back Fill	CM	261.44	1,812.20	473,781.57
202ii	Aggregate Base Course (with Grader)	CM	60.00	2,431.46	145,887.60
501f	R.C.C. Pipe culvert AASHTO-M 170 Class-II Dia 910 mm	M	80.00	16,998.41	1,359,872.80
SP-3	Provide Equip & Furnish Residential Accommodation (Rental Basis) for the Employer & Engineer's Representative and staff.	Month	4.00	45,000.00	180,000.00
SP-4	Maintain employer and Engineer's representative and staff residential accommodation	Month	4.00	38,000.00	152,000.00
SP-5	Provide Vehicle for the Employer & Engineer's representative 1 Double Cabin (with AC) Rental Basis	Vehicles Month	4.00	65,000.00	260,000.00
SP-6	Maintain vehicles of the employer & engineer's including Driver, Fuel, Lubricants, tyres, tuning, repairs, insurance etc. complete in all respects	Vehicles Month	4.00	80,000.00	320,000.00
			Gross Total:		53,132,524.00

Note: "The bidder will quote % above/below (i.e. premium or rebate) on the estimated amount displayed in Bill of Quantities (BOQ) on the e-Bidding System. The system will automatically calculate the BID PRICE based on quoted percentage rebate or premium on the estimated amount."