

**BILL OF QUANTITY FOR CONSTRUCTION OF H/R CUM C/R WORK AT CH.857 & SLR BRIDGE AT CH.1261  
OF PUNASI MAIN CANAL**

Sl. No.	Item Of Work	Unit	Total Qty	Rate	Amount
1	Earthwork in excavation of foundation trenches in ordinary soil (vide classification of soil item A) and disposal of excavated earth so obtained a distance upto 50M and average lift of 1.5M including levelling, ramming the foundation trenches removing the roots or shrubs etc. all complete as per specification and direction of E/I. 7.1.27 ✓	Per M <sup>3</sup> ✓	1374.25 ✓	151.23 ✓	₹ 207,827.83 ✓
2	Extra for earth work in hard soil (Vide classification of soil item -B ) II complete as per specification and direction of E/I. 7.1.10 ✓	Per M <sup>3</sup> ✓	1299.90 ✓	15.38 ✓	₹ 19,992.46 ✓
3	Earth work in filling in canal bank (canal discharge upto 28 cumecs) as well as special repair of canal bank in ordinary soil in proper profile (vide classification of soil item-A) obtained from borrow area or any other sources free from logs, roots, or any other ingredients etc. with initial lead of 15 M and lift of 1.5 M including breaking clods to maximum 50 mm cube placing the earth in layers not exceeding 225 mm thick complete as per specification and direction of E/I. wrd 7.1.25 ✓	Per M <sup>3</sup> ✓	656.06 ✓	127.93 ✓	₹ 83,929.76 ✓
4	E/W in excavation in canal by hydraulic excavator (rock breaker) as per design section in soft rock (where blasting is prohibited) vide types of soil item-C with disposal of spoil upto 500 m with all lifts by tipper including construction and maintenance of haul road as per complete specification and direction E/I. WRD SOR 7.1.43.8 ✓	Per M <sup>3</sup> ✓	215.36 ✓	289.00 ✓	₹ 62,239.04 ✓
5	E/w in excavation in canal by the hydraulic excavator as per designed section in soft rock (where blasting is not needed) vide typ of soil item C with disposal of spoil upto 500 M with all lifts by tipper including construction and maintenance of haul road all complete as per specification and direction of E/I 7.1.43.6 ✓	Per M <sup>3</sup> ✓	505.09 ✓	139.34 ✓	₹ 70,379.24 ✓
6	Earthwork in filling foundation trenches and back filling of structures in layer not exceeding 150 mm,thick well watered, rammed and fully compacted and finely dressed with suitable earth obtained from excavation of foundation trenches and placed in a suitable profile within a lead of 30M and lift of 1.5M complete job,as per specification and direction of E/I. 7.1.31 ✓	Per M <sup>3</sup> ✓	254.81 ✓	115.41 ✓	₹ 29,407.62 ✓
7	PCC 1:3:6 in foundation (plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregates 40mm nominal size mechanically mixed , placed in foundation and compacted by vibration including curing for 14 days. (SOR RCD PART B 12.04 pg no. 477) ✓	Per M <sup>3</sup> ✓	73.12 ✓	3376.10 ✓	₹ 246,860.43 ✓
8	Plain / Reinforced cement concrete in open foundation complete as per drawing and technical specification. PCC Grade M15 using batching plant and concrete pump. (SOR RCD PART B 12.08 A case I) ✓	Per M <sup>3</sup> ✓	502.87 ✓	3541.90 ✓	₹ 1,781,115.25 ✓

Sl. No.	Item Of Work	Unit	Total Qty	Rate	Amount
9	Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications. RCC grade M20 height upto 5m using batching plant, transit mixer and concrete pump. (SOR RCD PART B 13.05 E (p)) ✓	Per M <sup>3</sup> ✓	340.90 ✓	4208.90 ✓	₹ 1,434,814.01 ✓
10	Furnishing and Placing Reinforced/ Prestressed cement concrete in super-structure as per drawing and Technical Specification RCC Grade M20 Using batching plant, transit mixer and concrete pump for solid slab super-structure height upto 5M. RCD PART 14.01 A (i)- (p) ✓	Per M <sup>3</sup> ✓	122.05 ✓	4543.50 ✓	₹ 554,534.18 ✓
11	Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications PCC grade M15 height upto 5m using batching plant and concrete pump. (SOR RCD PART B 13.05 A (p) pg Rcd-567	Per M <sup>3</sup> ✓	203.08 ✓	3746.20 ✓	₹ 760,778.30 ✓
12	Plain / Reinforced cement concrete in open foundation complete as per drawing and technical specification. RCC Grade M20 using batching plant, transit mixer, and concrete pump. (SOR RCD PART B 12.08 C case I) ✓	Per M <sup>3</sup> ✓	314.54 ✓	4273.40 ✓	₹ 1,344,155.24 ✓
13	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and technical specifications. (SOR RCD PART B 12.42) ✓	Per MT ✓	13.17 ✓	87394.80 ✓	₹ 1,150,989.52 ✓
14	Supplying, fitting and placing HYSD bar reinforcement in sub structure complete as per drawing and technical specifications. SOR RCD PART-B 13.06 ✓	Per MT ✓	33.55 ✓	87744.90 ✓	₹ 2,943,841.40 ✓
15	Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications. RCD PART-B 14.02 ✓	Per MT ✓	10.10 ✓	87893.80 ✓	₹ 887,727.38 ✓
16	Supplying, fitting and fixing copper strip of 16 gauge of approved quality( with 99% purity) in expansion joints complete job as per specification and direction of E/I. wrđ 7.8.1 ✓	per kg ✓	341.20 ✓	458.89 ✓	₹ 156,573.27 ✓
17	Providing and fixing in position 25 mm thick bituminastic board (shallitex or equivalent) as per I.S. 1838-1983 in expansion or construction joints, all complete job as per specification and direction of E/I. WRD SOR PART-B 7.8.3 ✓	Per M <sup>2</sup> ✓	19.27 ✓	970.61 ✓	₹ 18,703.65 ✓
18	Providing weep holes with dry graded stone filter of 20mm to 40mm size in abutment and wing wall as per specification and direction of E/I. 6.7.6 Part A 6.9 ✓	each ✓	100.00 ✓	166.46 ✓	₹ 16,646.00 ✓
19	Providing and laying dry pitching with precast concrete Block 600 mm X600mm X 300mm size of M-100 with nominal mix of (1:3:6) in floor and flank wall with approved quality of graded course aggregate of required grade (as per design) and approved quality of sand of required FM 2.5 to 3.0 washed and screened including necessary form work, tools and plants, vibrating, curing as well as royalty and all taxes all complete job as per specification and direction of E/I. WRD 7.3.17 ✓	Per M <sup>3</sup> ✓	62.32 ✓	6807.03 ✓	₹ 424,214.11 ✓

Sl. No.	Item Of Work	Unit	Total Qty	Rate	Amount
20	Supplying aggregates 53mm to 22.4mm at quarry. (M- 007 PART A) ✓	Per M³ ✓	89.52 ✓	1122.00 ✓	₹ 100,441.44 ✓
21	Labour for laying fine filter (sand) or course dry graded filter either of jhama khoa or stone metal or stone chips under brick pitching or boulder pitching in slope and apron including light ramming etc. all complete as per specification and direction of E/I. (7.7.13) ✓	Per M³ ✓	89.52 ✓	398.00 ✓	₹ 35,628.96 ✓
22	Labour for rolling and compacting the earth in layers of 225 mm thick at O.M.C by sheep foot roller driven by tractor to achieve minimum 95% of maximum dry density including sprinkling the required quantity of water, making arrangement for supply and carriage of water with all leads and lifts, finishing the surface as per plan and drawing including hire charge of compaction machine and other tools and plants etc. for lined canal all complete as per specification and direction of E/I (Mode of measurement sectional measurement of compacted earth) 7.1.39 ✓	Per M³ ✓	656.06 ✓	25.75 ✓	₹ 16,893.55 ✓
23	Dewatering by desiel pump 10 H.P PM-29 Pg.82 WRD SOR (Part-B) ✓	Hrs. ✓	70.00 ✓	330.00 ✓	₹ 23,100.00 ✓
24	Providing and fixing in <sup>position</sup> bitumen filler (bitumen, sand, and cement) in construction joint complete as per specification and direction of E/I. WRD PART-B 7.8.4 ✓	Per cm² Per%M ✓	44.59 ✓	223.17 ✓	₹ 9,951.15 ✓
25	Providing coarse clean local sand in filling in foundation trenches including raming, watering, royalty and all other taxes complete job as per specification and direction of E/I. (7.1.37) ✓	Per M³ ✓	5.78 ✓	584.42 ✓	₹ 3,377.95 ✓
26	Drainage sprouts complete as per drawing and technical specifications clause 1209. RCD PART B 15.17 PG 639 ✓	Number Each ✓	8.00 ✓	817.90 ✓	₹ 6,543.20 ✓
27	Supplying shalimar tarpelt BH SI No. - 79 page no. 60 CSR M-266 ✓	Each roll of 20m x 1m ✓	2.13 ✓	1958.00 ✓	₹ 4,170.54 ✓
28	Providing and placing stone metal graded filter of size 20mm to 45mm in slopes and bed of canals below lining including royalty and other taxes etc. all complete as per specification and direction of E/I (7.2.7) ✓	M³ ✓	1.83 ✓	1816.31 ✓	₹ 3,323.85 ✓
	Carriage of materials by <sup>mechanical</sup> means including loading, <sup>unloading</sup> and <sup>stacking</sup> at work site	Per MT ✓	591.42 ✓	570.40 ✓	₹ 337,345.97 ✓
	Cement (15 km (P) + 1 km (K))	Per Cum ✓	721.44 ✓	564.18 ✓	₹ 407,022.02 ✓
	Sand (22 km (P) + 4 km (K))	Per Cum ✓	218.67 ✓	724.81 ✓	₹ 158,494.20 ✓
	Stone Metals (34 km (P) + 2 km (K))	Per Cum ✓	1304.00 ✓	674.58 ✓	₹ 879,652.32 ✓
	Stone Chips (34 km (P) + 2 km (K))	Per Cum ✓	56.82 ✓	570.40 ✓	₹ 32,410.13 ✓
	Steel (15 km (P) + 1 km (K))	Per MT ✓			
				Total Rs.	₹ 14,213,083.97 ✓
				Add 18% GST	₹ 2,558,355.11 ✓
				Net Total Rs.	₹ 16,771,439.08 ✓
				Add 1% Labour Cess	₹ 167,714.39 ✓
				Grand Total Rs.	₹ 16,939,153.47 ✓

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J.E.

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E.E.

BOB Approved for Rs 1,69,39,153.47 (Rupees One crore sixty nine lakh thirty nine thousand one hundred fifty three and paise forty seven only).

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06/05/26  
A.E.

Sec (Tech)

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WRO, Deoghar

Certified Copy  
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