

## **SECTION - 7**

### BILL OF QUANTITIES

## *BILL OF QUANTITIES*

### *Preamble*

1. The bill of Quantities shall be read in conjunction with the Instructions to Bidder, Conditions of Contract, Technical 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 ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, layout, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The rates and prices shall be quoted entirely in Indian Currency.
5. A rate or prices shall be entered against each item in the Bill Quantities, whether quantities are stated or not. The cost of Items against which Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities (in case of Item rate contract).
6. 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 Work.
7. General direction and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering rates or prices against each item in the Bill of Quantities.
8. The method of completed work of payment shall be in accordance with the specification for Road and Bridge works. For building works specifications for building are to be followed.
9. Errors will be corrected by the Employer for any arithmetic errors pursuant to **Clause 29** of the Instructions to Bidder.
10. Rock is defined as all materials which, in the opinion of the Engineer, required blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for its removal, and which cannot be extracted by ripping with a tractor of at least 150 kw with a single rear mounted heavy duty ripper.

*BILL OF QUANTITIES*

(A) Percentage Rate Tender (Up to INR 50 Cr. )

Name of work:- Maintenance & Repair Work of Radhanpur Branch Canal from Ch.11.469 km to 16.370 km (Slice-2) for Damaged Lining remedial measures for facilitate RBC to Flow at FSL.(Package-2)					
ABSTRACT					
Item No.	Qty.	Description of Item	Unit	Rate in Rs.	Amount in Rs.
1	9764.40	Dismantling the C.C. lining including disposing off the dismantled materials as directed etc. complete. (A)10 cm Thick lining	Sqmt.	115.50	1127787.95
2	9764.40	Trimming of the canal section manually for preparing sub grade for laying cement concrete (C.C.) lining in all sorts of soil and murrum including watering and compacting bed etc. complete.	Cum.	72.80	710848.16
3	363.88	Providing and laying plain/reinforced cement concrete lining of M 15 (MSA 20 mm) in bed, side slopes and curvature including batching, mixing, transporting, placing, vibrating, smooth finishing, curing including dewatering where required. (MACHINERY BASED by "FLORI" - WITHOUT PAVER MEMBRANE CURING) (A) 15 cm thick lining in Bed / Slope	Sqmt.	601.50	218875.62
	9092.51	(B) 10 cm thick lining in Bed / Slope	Sqmt.	430.50	3914327.62
3(A)	6960.93	Providing and laying plain / reinforced cement concrete lining with concrete of cement, sand and metal in nominal mix 1:2:4(M-15) in bed, side slopes and curvature including batching, mixing, transporting, placing, vibrating, smooth finishing, curing including dewatering where required for maintance of canal Patches.5 cm thick lining in bed,side slopes - with watercuring. ( MACHINARY BASED ,WITH OUT PAVER ) (A) 5 cm thick lining in Bed / Slope	Sqmt.	318.40	2216361.58
4	6960.93	proving & fixing MS welded mesh jali of 2.8 mm dia 65mm x 65mm including cutting in required sizes, fixing in canal prism etc. complited by Engineer in charge. beyond 300 Cusec) ( By Machinery )	Sqmt.	156.70	1090778.45
5	3.59	Providing & Placing in position reinforcement bars including cutting, bending, welding joints where necessary, hooking etc. complete as per drawing for all lead and lifts. (A) TMT-Fe 500 D	MT	82019.00	294448.21
6	22.00	Providing and laying vertical non metallic pressure release valves including excavation of pits and refilling the same with filter materials as per design and drawing at	No.	1274.30	28034.60

		required intervals etc. complete as directed (b) 150 mm dia			
7	2673.59	Earth work in embankment using selected soil, soft & hard murrum excavated from approved borrow area / village tanks etc. Including conveying, spreading in uniform layers, breaking clods and dressing to the designed canal section etc. with lead upto 7 KM m and all lift. (For canals having capacity beyond 300 Cusec) ( By Machinery )	Cum.	156.90	419486.27
8	2673.59	Compaction of selected soil/hard murrum/soft murrum in even thickness of 15 to 20 cms including watering, temping with suitable hand rammer etc. complete as directed	Cum.	57.80	154533.50
9	5489.00	Providing and filling the polysulphide joint sealant of the approved make in the expansion and contraction joints in the c.c. lining including clearing the joints with air water jet.	Rmt	181.20	994606.80
10	6699.90	Clearing silt from canal /drain bed by digging the same to the required bed level and gradient incl. depositing the excavated earth regularly in spoil bank for utilising the same for preparing the bund after breaking clods as and where directed for lead up to 200 m & lift up to 3 m as under (excluding weed cutting). (d) For canal above 500 Cusecs	Cum.	236.70	1585866.33
11	6338.91	Cleaning the slope lining by removing all dirt, dust, soil etc.deposited on slope lining by providing labours with necessary equipment including disposing the stuff outside the canal with all lead and lift as directed by engineer-In-charge	Sqmt.	68.00	431045.74
<b>Total Rs.</b>					<b>13187000.83</b>

Note :

I/We am/are willing to carry out the work at.....% above/below percent(Should be written in figures and words) of the estimated rate mentioned above. Amount of my /our tender works out as under.

Estimated amount put to tender

Estimated amount put to tender

Deduct.....% below

Add.....% Above

Net

Net

In words

In words

(B) For Item Rate Tender (For above INR 50 Cr.):

Item No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate		Amount
				In figures	In Words	

(A) Total Tendered Amount

(B) Rebate on above tendered amount (if any) % (in figure) .....  
(in words).....

(C) Net Tendered Amount (A-B) (in figure) .....  
(in words).....

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- 1 The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.
- 2 The labour cess will be deducted as per prevailing rules.
- 3 GST and Income tax TDS will be deducted at a source while making payments of bills
- 4 In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: CE(QC)/PB/Mix Design/04/2024 Date:20/01/2024 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.