

**SECTION-7**  
**BILL OF QUANTITIES**

## BILLOFQUANTITIES

### 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 50Cr.)

**Name of Work: Providing Consultancy Services for Construction of New Weir On River Mahi in Desar Taluka, Vadodara District.**

Item No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
1	Jungle cutting for preliminary surveys (a) Light jungle cutting (bushes, hedges)	65000	Sqm	13.44	873600
2	FLY Level for connecting an checking the B.M With double levelling	17	km	986	16762
3	Carrying out Sub soil investigation for Soil Bearing Capacity test with machine drilling of bore holes at specified location including collection of samples, laboratory testing, submitting report including transport and others.	360	Rmt	8672	3122244
4	Carrying out Sub soil investigation for Soil Bearing Capacity test with machine drilling of bore holes at specified location (in big river ex. Narmada) including collection of samples, laboratory testing, submitting report including transport and others.	756	Rmt	12000	9072000
5	calibrated echosounder for the assessment of riverbed morphology, channel geometry and sedimentation characteristics. The work shall include the mobilization and demobilization of suitable survey vessels or boats and all associated survey equipment at site by the contractor. The contractor shall provide all vessels, qualified personnel, tools, shackles, mounting frames, survey instruments, positioning and navigation systems, accessories, consumables, fuel, power supply, and safety equipment necessary for the complete execution of the survey. The survey shall cover the full width and length of the designated river reach using a 5 mx 5 m survey grid, with proper equipment calibration, water level referencing, and quality control procedures. The scope of work also includes processing and analysis of the collected data to generate bathymetric contour maps at 0.5 m vertical intervals, longitudinal (L-section) profiles along the river centerline, and cross-sections at 30 m intervals. All processed data shall be used to develop digital bathymetric models and to evaluate riverbed conditions and sediment deposition patterns. The contractor shall submit all deliverables, complete in all respects, in both hard and soft copies,	312	Ha.	3500	1092000

	including reports, drawings, digital models, and raw survey data, in formats acceptable to the Engineer.				
6	Survey by using own DGPS instrument for the topographical and contour survey work in 10x10 mt grid with 0.5mt contour interval, locating all existing features with preparation and submission of survey drawing in AO size sheet in one Hard & soft copy etc. complete.	2402	Ha.	1248	2997696
7	Preparation of Pre-Feasibility Report (PFR) and Detailed Project Report (DPR) for the proposed Gated or Ungated Weir, including development of preliminary engineering design, preparation of relevant drawings, preparation of detailed project cost estimates and compilation of tender documents for execution of the work under Engineering, Procurement and Construction (EPC) contract mode, based on the survey data, investigations and studies carried out under other items of this contract, and in accordance with applicable codes, standards and departmental guidelines, complete in all respects and suitable for submission to the concerned authorities for approval and tendering purposes.	1	Job work	7200000	7200000
8	Providing Land Acquisition (LAQ) consultancy services for all land and assets falling within the submergence area of the proposed weir. The scope includes side identification and demarcation of the submergence limits, verification of land records, preparation of cadastral and submergence maps, and preparation of schedules of affected land parcels, structures, and assets. All deliverables shall be submitted complete in all respects in both hard and soft copies.	1	Job work	800000	800000
	<b>Total</b>				<b>2,51,74,302.00</b>

- Note: 1) The Service Charge can't be in Minus Figure (-)/ Zero "0" and allowed up to one decimal only.**  
**2) The Price quoted in the tender are Exclusive of GST and GST Will be paid Separately.**  
**3) Time schedule should be followed as mentioned in section 5.**

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

Estimated amount put to tender

Deduct.....%below

Net

In words

Estimated amount put to tender

Add.....%Above

Net

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 brief 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 i.e. 1% of the work done.
3	GST and Income tax TDS will be deducted at a source while making payment so f bills
4	In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. 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.

**Sign Of Contractor**

**Deputy Executive Engineer  
Irrigation Project Sub Div. No.21  
Vadodara**

**Executive Engineer  
Vadodara Irrigation Division  
Vadodara**