

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.)

Item No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
1	EPC work for Construction of Cross regulator cum bridge on River Dhadhar at village-Magnad, Ta:Jambusar, Dist: Bharuch.	1	Job		

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 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 payments of bills
4	In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 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.

Volume - III (PRICE BID)
PRICE SCHEDULE

BILL OF QUANTITIES (PRICE SCHEDULE)

Name of work:

EPC work for Construction of Cross regulator cum bridge on River Dhadhar at village-Magnad, Ta:Jambusar, Dist: Bharuch.

The project envisages the preparation of design from the bidders Consultant, and vetting from reputed institutions such as NIT, IIT or CDO Gandhinagar, followed by the construction of the works as detailed in the Scope of Work.

For the guidance of bidders, outline drawings indicating the general arrangement contemplated by the Employer are enclosed in Volume-IV. However, the contract shall be awarded on the basis of the Contractor's own design, which shall fully comply with the requirements stipulated in the bid documents.

The enclosed outline drawings are indicative in nature, except for certain salient parameters, mandatory requirements, and design criteria specifically prescribed in the bid documents. These drawings also indicate the minimum acceptable specifications, grades, dimensions, and requirements for various components. The Contractor's design shall provide specifications that are comparable to, and in no case inferior to, those indicated for the corresponding components.

If any item, activity, specification, or requirement forming part of the Scope of Work is not specifically reflected in the Contractor's technical proposal, drawings, calculations, or technical notes, the quoted price shall nevertheless be deemed to include the cost of all such items, activities, specifications, and requirements necessary for the complete execution of the work in accordance with the tender documents. No additional payment shall be admissible on this account.

The bidder shall quote the lump-sum price in the prescribed online Price Bid format, both in figures and words. The Price Bid shall be submitted online only. The quoted price shall be exclusive of GST.

The quoted price shall, unless otherwise specifically provided under the Contract, include the cost of all construction plant and machinery, equipment, labour, supervision, materials, transportation, loading, unloading, leads and lifts, erection, testing, commissioning, maintenance, enabling works, temporary works, insurance, royalties, taxes and duties (excluding GST), overheads, profits, risks, liabilities, obligations, and all other incidental expenses necessary for the complete execution and successful completion of the work in accordance with the intent and purpose of the Contract, without any claim for additional payment.

The rates quoted shall also include excavation, handling, transportation, placement, compaction, disposal of surplus or unserviceable material, and procurement and placement of suitable materials required for embankments, inclusive of all leads and lifts.

In the event of any discrepancy, inconsistency, or conflict between the provisions contained in the Scope of Work and those contained in the Technical Specifications, Drawings, or other Contract Documents, the interpretation and decision of the Engineer-in-Charge (EIC) shall be final and binding upon the Contractor.

The bidder shall quote the offer strictly in Indian Rupees (INR) only.

BILL OF QUANTITIES (PRICE SCHEDULE)

Description of Work	Qty	Unit	Rate		Amount
			In figures	In Words	
EPC work for Construction of Cross regulator cum bridge on River Dhadhar at village-Magnad, Ta:Jambusar, Dist: Bharuch.	1	Job			

The Bidder shall quote a lump-sum price, excluding GST, in the online Price Bid format available on the e-tendering portal.

The NWRWS & Kalpasar Department reserves the right to make any re-appropriation, adjustment, correction, or modification in the bid evaluation and tender process as deemed necessary. No claim, representation, or dispute arising out of any discrepancy, difference, or interpretation in this regard shall be entertained from the bidder.

I/We hereby offer to execute and complete the above-mentioned work in accordance with the Scope of Work, specifications, drawings, instructions, and all other provisions contained in the tender and contract documents, within the stipulated time period. I/We further agree that all materials required for the execution of the work shall be arranged and procured by us at our own cost unless otherwise specified.

If this tender is accepted, I/We undertake to abide by and fulfill all the terms, conditions, covenants, and provisions of the Contract Agreement and Tender Documents. In the event of any default or failure on our part to comply with the said conditions, I/We agree that the Earnest Money Deposit (EMD) shall be liable to forfeiture and that we shall be bound by all other actions as provided under the contract conditions.

Signature of Bidder/Authorized Signatory: _____

Name of Bidder/Firm: _____

Seal of Firm: _____

Address: _____

Date: _____

Payment Schedule

The Contract Price shall be released against achievement of the following milestones, subject to certification by the Engineer-in-Charge (EIC):

Sr. No.	Description	Percentage of Contract Value
1	Survey, Investigation and Submission of Design to the authority as per scope of work.	1.50%
2	Vetting and Approval of Design as per scope of work.	1.50%
3	Civil Works	
	Care and Diversion of River, including Cofferdam and all allied works, throughout the construction period until completion of the project	4.00%
3.1	Dismantling of Existing Structure up to Design Level	2.00%
3.2	Excavation for Main Structure including Abutments, Side Walls/Return Walls and all allied works	4.00%
3.3	Excavation for Upstream Cut-off Wall	1.00%
3.4	Excavation for Downstream Cut-off Wall	1.00%
3.5	Completion of Upstream Cut-off Wall	2.00%
3.6	Completion of Downstream Cut-off Wall	2.00%
	50% Completion of Foundation Works (Pile Foundation/Raft Foundation), including PCC, RCC, Reinforcement and all allied works	8.00%
3.7	100% Completion of Foundation Works (Pile Foundation/Raft Foundation), including PCC, RCC, Reinforcement and all allied works	8.00%
3.8	Completion of Main Structure up to Crest Level, including Abutments, Side Walls/Return Walls, Piers and all allied works	7.50%
3.9	Completion of Main Structure up to Full Height (Deck Slab Level), including Abutments, Side Walls/Return Walls, Piers, Girders and all allied works	9.00%
3.10	Completion of Deck Slab, including Road Surfacing, Road Furniture, Solar Lighting, Parapets, Colour works, Approach Roads on both sides and all allied works	7.50%
3.11	Excavation for Upstream Apron and it's Protection Work	1.00%
3.12	Excavation for Downstream Apron and it's Protection Work	1.00%
3.13	Completion of Upstream Apron and it's Protection Work	2.00%
3.14	Completion of Downstream Apron and it's Protection Work	2.00%
3.15	Completion of Upstream Bank Protection Works on Both Banks	7.00%
3.16	Completion of Downstream Bank Protection Works on Both Banks	7.00%
4	Mechanical Works	
4.1	Procurement, Fabrication, Assembly and Delivery of Gates at	5.00%

	Site	
4.2	Installation, Testing and Commissioning of Gates, Hoists and Other Associated Components	7.00%
5	Completion of One Monsoon Period after Completion of the Entire Work, including Operation & Maintenance	1.50%
6	Completion of Two Monsoon Periods after Completion of the Entire Work, including Operation & Maintenance	1.50%
7	Completion of Three Monsoon Periods after Completion of the Entire Work, including Operation & Maintenance	1.50%
8	Completion of Four Monsoon Periods after Completion of the Entire Work, including Operation & Maintenance	1.50%
9	Completion of Five Monsoon Periods after Completion of the Entire Work, including Operation & Maintenance	3.00%
	Total	100.00%

Note:

1. Running Account (R.A.) Bills may be submitted on a monthly basis.
2. Payment shall be released against the percentage of work completed under each milestone and duly certified by the Engineer-in-Charge (EIC).
3. Partial payment within a milestone may be considered and released proportionately based on the actual physical progress achieved and certified by the Engineer-in-Charge.
4. The decision of the Engineer-in-Charge regarding the extent of milestone achievement and corresponding admissible payment shall be final and binding on the Contractor.
5. All payments shall be subject to deductions, recoveries, statutory compliances, and other provisions of the Contract.

Contractor's Declaration

The above percentage breakup indicates the proportion of the Total Contract Value payable upon achievement of the respective milestones.

I/We hereby confirm that I/We have carefully examined and fully understood the above Stage-wise Payment Schedule and the conditions governing the release of payments thereunder. I/We agree to accept payments strictly in accordance with the said Payment Schedule and the provisions of the Contract.

I/We further acknowledge that the percentages specified against each milestone represent the maximum admissible payment for the corresponding stage of work.

I/We shall not claim, demand, or be entitled to any payment other than those payable under the aforesaid Payment Schedule, except where expressly provided for under the Contract.

I/We confirm that I/We are fully satisfied with the terms and conditions relating to the release of payments and undertake to abide by the same without any reservation or dispute.

Signature of Contractor / Authorized Signatory: _____

Name of Contractor / Firm: _____

Seal of Firm: _____

Address: _____

Date: _____