

CONTRACT NO.

**GUJARAT WATER SUPPLY & SEWERAGE BOARD GANDHINAGAR**

**(GOVERNMENT OF GUJARAT UNDERTAKING)**



Bid Documents" **Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Part 1: RHS – Bharuch**

**Estimated Cost: Rs. ₹ 8,28,08,62,369.00**

**VOLUME- III**

**PRICE-BID**

**Chief Engineer**

**Gujarat Water Supply & Sewerage Board**

**Zone-VI, Surat**

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## **PREAMBLE TO PRICE SCHEDULE**

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

The bidder shall quote his firm and fixed price for the entire work under this Contract, defined in more details in various sections of this bid document.

- (1) The rates and prices shall be submitted in the electronic formats given by n-procure which is called Schedule-B. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
- (2) It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever and the bidder shall not be permitted to withdraw his bid on this account.
- (3) Price **Schedule-A** gives the Schedule showing approximately the materials to be free supplied by client.
- (4) In **Schedule-B** the Bidder shall quote prices for the items on lump sum / unit rate as called for against the BOQ item.
- (5) In Price Schedule-B, bidder shall quote his price for entire work. Prices quoted in Schedule-B only will be considered for price evaluation. In the Schedule B1, Schedule B2... bidder shall furnish breakup of his prices quoted in the Price Schedule B gives the list of some principal items with tentative quantities of the work there of for the guidance of the bidder. For any excess over tender quantities, Extra items and variations in quantities, Refer Clause No 14 of Volume IB- General Conditions of contract.
- (6) The total of the item prices in Schedule B1, Schedule B2... shall be equal to the price quoted by the bidder in Price Schedule B and shall be firm and fixed, during the pendency of the Contract, except for items under-price variation clause. In case of any discrepancy noted in the various price schedules, those in Schedule B will be considered and binding on the Contractor. The prices in Schedule B1 to B13 of the successful bidder shall be corrected accordingly.
- (7) **The bidder shall quote their prices for year in schedule – C, i.e. O & M prices.**
- (8) **The Agency with the lowest quoted rate will be considered as L1 agency by calculating the combined total of quoted rate in capital works (Schedule B) and O & M Work (Schedule C).**
- (9) Wherever for a particular item the quantities have been specified payment shall be on unit rate basis and unit variation in quantity will be paid with pro rata basis.
- (10) Each item is to be individually priced online and the amounts shall be added up to arrive at the "Total of each Price Schedule". No column in the Schedules of prices shall be left blank except where the item description

requires the item to be priced on "as applicable" basis. The item shall not be priced if it is "not applicable" to the bidder's design, in which case the bidder shall add the words "NOT APPLICABLE". The wording in the item description is for subject matter guidance only; clause references are indicative only and all other relevant clauses shall also be referred to. The prices shall allow for all the works covered under the bid and all liabilities and contractual obligations whether separately specified or not. Items against which no prices are quoted shall not be separately paid for and the bidder shall be deemed to have covered the cost of execution of such items (according to the requirements of the bid document) in the prices quoted for other items.

- (11) Items not specifically listed in his Price Schedules, but required to be executed for satisfactory working/safety of the system as specified, will not be separately paid for by the Employer when executed and shall be deemed to be already covered by other items and rates listed in the price sheets. No extra payment shall be given for any item which is required to complete and perform the project.
- (12) Schedule 'D' gives the basis of interim payment for construction of works.
- (13) **Price Schedule-B and Schedule C after arithmetic corrections and rebate if any, will be considered for financial evaluation of the bid.**
- (14) The bidder shall be deemed to have allowed in his price for provision, maintenance and final removal of all temporary works of whatsoever nature required for construction including temporary bunds, diverting water, pumping, de-watering etc. for the proper execution of works. The rates shall also be deemed to include any works and setting out that may be required to be carried out for laying out of all the works involved.
- (15) Prices shall be filled online only.
- (16) The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.
- (17) The bidder shall interpret the data furnished and carry out any additional survey work, or investigation work required at his own cost.
- (18) The prices quoted shall also include the cost of materials utilized for testing.
- (19) The bidder should acquaint himself with the site conditions including the access to Work site. The successful bidder shall have to make suitable access to work sites at his own cost. These accesses will be used by the other contractors working for GWSSB.
- (20) The item descriptions in price schedule are for subject matter guidance only and the prices shall include all the equipment's / materials / accessories and services required as per the specifications. The bidder shall fill in the price schedule furnished.
- (21) 1% of the value of work will be deducted from the Running bill against labour cess which is non refundable.
- (22) Third Party Inspection / CSC agency will be deployed by GWSSB and charges of the same will be borne by GWSSB.
- (23) Any expenditure incurred by inspection/ CSC agency for the work misinformed by the contractor and charges of inspection/ CSC agency without any work due to misinformation shall be recovered from the contractor.

- (24) The prices shall be quoted exclusive of GST but inclusive of all other taxes, royalties and duties prevailing at the time of submission of the bids. Statutory variation if any during the currency of contract shall have to borne by the agency which shall be not reimbursed by the GWSSB.
- (25) The rates quoted shall be exclusive of GST, but inclusive of all other taxes and cess or levies or duties which shall not be paid extra. While GST will be paid for admissible part of actual work done at the approved tender rates and tender conditions of price variation. GST shall be paid as per prevailing rates at the time of payment. The TDS shall be deducted at source as per provision of IT rules and GWSSB policy.
- (26) The rates should be quoted exclusive of GST but inclusive of all other taxes as per Volume-1 (B), General Conditions of Contract, Clause No.47.
- (27) The Bidders shall have to quote the rates in this tender keeping in view of the GST. The Complete responsibility of taxes, duties, levies rests with the Contractor/Agency only.
- (28) The process requires that the bidder shall quote his price for the work components contained in the price schedules for the entire work. Such prices shall remain firm and fix during the entire period of performance of the contract except price variation allowed for supply of DI/PVC/OPVC/MS pipe as per Volume-IB Clause No. 59, General Conditions of Contract.
- (29) Payment shall be made for the components for which lump sump prices are quoted, as per the schedule of payment. Total cost will be worked out on the basis of work done of individual items and rates quoted against those particular items only.
- (30) Royalties: The contractor shall be liable to pay the royalty of the quarried materials/ minerals used in the construction of works at the rates specified in the Narmada Water Resources, Water Supply & Kalpsar Dept. Resolution No. GEN-2010-595- (6)- M.I.Cell ( K-1) Dt. 29-4-2011 ( Gujarati Version Copy enclosed) and shall be recovered from the running bills of the work from time to time and remaining amount if any shall be recovered from the final bill before releasing the security deposit of the work. The contractor shall furnish the statement showing the quantity of quarried materials / minerals from whom purchased (with full address of the seller) and copies of the bills for purchase to the Executive Engineer of the in charge of the work. The contractor shall also furnish such additional information as regards royalty payment to the competent authority.
- (31) Agency shall have to take Insurance policy and intimate to GWSSB along with the evidence within time limit. In case of non compliance entire responsibility shall be rest with the agency and required amount shall be recovered from any due amount of the agency.
- (32) GWSSB can recover penalty amount from the agency for not taking the insurance. Though the penalty amount is recovered, responsibility of the agency for taking insurance shall be continued and will not be escaped from the responsibility.

**Signature of contractor**

**Executive Engineer  
P. H. Works Division,  
Bharuch**

## **BID FORM**

**Bidders are required to fill up all the blank spaces in this Bid Form.**

**TO:**

**THE EXECUTIVE ENGINEER,  
PUBLIC HEALTH WORKS DIVISION,  
BHARUCH**

**Dear Sir,**

**SUB “Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch”**

The bidder shall quote his firm and fixed price for the entire work under this Contract, defined in more details in various sections of this bid document.

1. Having visited the site and examined the Bid Documents, Drawings, Conditions of Contract, Specifications, Schedules, Annexure, Preamble to Price Schedules, Price Schedules etc. including Addenda/Amendments to the above, for the execution of the above Contract, we the undersigned offer to design, Engineer, procure, construct, complete, commission, operate and maintain the whole of the said works for 3 years from the date of commissioning including defects liability period as given in Conditions of Contract and in conformity with the drawings, conditions of Contract, specifications, Preamble to Price Schedules, Annexure, Bidding Documents, including Addenda Nos. \_\_\_\_\_ (insert numbers) for Lump sum fixed price of Rs. \_\_\_\_\_. Rupees \_\_\_\_\_) for Construction including free trial run for three months or such other sum as may be ascertained in accordance with the conditions.
2. I/We agree that
  - a) If we fail to provide required facilities to the Employer’s representative or any other person/Agency by the Employer to perform on his behalf for carrying out the inspection and testing of materials and workmanship.  
Or
  - b) If we incorporate into the Works, materials before they are tested and approved by the Engineer’s representative.  
Or

- c) If we fail to deliver pure water of required quantity according to the conditions/stipulations of the Contract, the Engineer will be at liberty to take any action including termination of Contract and impose at his absolute discretion any penalties, and/or reject the work.
3. We undertake, if our Bid is accepted, to complete and deliver the works in accordance with the Contract within \_\_\_\_\_ months, inclusive of monsoons, from the date or receipt of Letter of Acceptance issued to us by you.
4. We agree to abide by this Bid for a period of 180 days from the Last date of submission of the bill and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
5. In the event of our Bid being accepted, we agree to enter into a formal Contract Agreement with you incorporating the conditions of Contract there to annex but until such agreement is prepared this Bid together with your written acceptance thereof shall constitute a binding Contract between us.
6. We agree, if our Bid is accepted, to furnish performance /Security in the forms and of value specified in the Clause 1 of Volume-IB, "General Conditions of Contract".
7. We have independently considered the amounts of liquidated damages shown in Appendix to Bid and agree that they represent a fair estimate of the damages likely to be suffered by you in the event of the work not being completed by us in time.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2026

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Name of the Person)

Company Seal \_\_\_\_\_  
(Name of Firm)

Duly authorized to sign Bid for and on behalf of (fill in block capitals)

\_\_\_\_\_  
\_\_\_\_\_

Witness Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

**Name of Work:- “Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch.”**

### **SCHEDULE-A**

Schedule showing the approximately the materials to be supplied to the contractor from government stores for the work to be executed and the rate at which they are to be charged.

<b>Sr. No.</b>	<b>Particular</b>	<b>Qty.</b>	<b>Issue Rate</b>	<b>Unit</b>	<b>Place of Delivery</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Nil</b>					

**Note:-**

1. The contractor submitting the Tender shall see that the rate in Schedule-A are filled in by the Engineer in Charge at the time of issue tender.
2. The contractor while submitting the tender shall provide his own arrangement at his own cost for loading, unloading, and transporting safety to the site of work the cement stipulated in Schedule-A
3. Binding wire of 15 gauge or thinner gauge required for placing the reinforcement in position shall be provided at his own cost.
4. All the materials required for the items other than labour in Schedule-A but available with the dept. will be issued on request to the contractor. (For use in this contract only) at prevailing market rates or departmental issue rates whichever is higher.
5. All the surplus materials supplied by the dept. As mentioned in schedule-A should be handed over to the Department by the contractor at the Govt. stores as directed.
6. The materials mentioned in schedule-A shall have to be checked for their correctness and soundness by the contractor before taking the delivery of the materials from the Government.
7. Necessary cement will be purchased by the agency at their own cost from open market.
8. The persons of firm submitting the Tender should see that rates in the above schedule are filled up by the Executive Engineer, on the issue of form prior to the submission of the Tender.
9. Carting of above materials should be done by contractor at his own cost.
10. Contractor should return the balance materials in good and acceptable condition, otherwise recovery at the double rates will be affected in view of Clause 12.4



## Annexure –A

<b><u>LIST FOR EQUIPMENTS / INSTRUMENTS REQUIRED FOR SITE OFFICE WORK.</u></b>		
<b>Free of Cost</b>		
<b>Item Description</b>		
Agency Has to Procure and must supply at site <b>free of cost</b> and hand over to <b>Engineer in charge</b> within one month from date of L-O-I given as under.		
<b>Sr.No</b>	<b>Description</b>	<b>Nos of item</b>
1	<b>All In One Desktop:</b> Processor: 13th Gen Intel® Core™ i7-1355U (10 cores, up to 5.0 GHz) Display: 27" FHD WVA, Non-Touch Graphics: Intel® Iris® Xe Graphics Memory: 16 GB DDR5 (5200 MT/s) Storage: 1 TB PCIe NVMe SSD Design: Pearl White finish with molded speaker grill, triangle stand Connectivity: Wi-Fi 6E, Bluetooth, multiple USB 3.2 ports, HDMI-in/out, RJ45, SD card slot Extras: Microsoft Office Home 2024 + 1-year Microsoft 365 Basic, McAfee LiveSafe (1-year), Wireless Keyboard & Mouse OS: Windows 11 Home Power: 90W AC adapter as per instructions of Engineer-in charge...	05 Nos.
2	<b>Printer:</b> A3 Papersize multifunction Printer with toner cartridge type refilling facility. The printer shall have facility to print (2 side print automatic), copy, automatic document feed, Scanning, Xerox etc. including all accessories complete with Preinstalled from brand Canon, HP, Brother etc. as per instructions of Engineer-in charge.	05 Nos.
3	Procurement of Electric Four-Wheeler Vehicle (EV) with all Necessary Accessories for Site Supervision Work, having Minimum 200 mm Ground Clearance, Minimum 75 kWh Battery Pack Capacity, Driving Range of Minimum 550 km on Single Full Charge, Level-2 ADAS with Blind Spot Detection, RCTA, Minimum 120 kW DC Fast Charging Capability, including Provision of Driver and Charging Facility Infrastructure."	03 Nos.
<b><u>Note: - all above item must be provide by Agency at free of cost.</u></b>		

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<b>Schedule B-C</b>		
<b>Estimated Amount Put to Tender Rs.</b>		<b>8,28,08,62,369.00</b>
<b>Sr No</b>	<b>Description</b>	<b>Amount (Rs)</b>
1	Schedule B-1 Construction of Intake Structure of capacity as per Following Details: 1. 182 MLD with Approach bridge of 145 m length 2. 813 MLD with Approach Bridge of 95 m Length	-
2	Schedule B-2 Rising Main Pipeline comprising MS pipe and DI K-9 pipe as per Design Requirements	-
3	Schedule B-3 Construction of Pro. 13 ML Sump at Palej H/W Including Pump House above Sump Top Slab	-
4	Schedule B-4 Road, Railway, Canal, Gas & Bund Crossings	-
5	Schedule B-5 Construction of Steel Bridge for Rivers, Canal and Nala Crossings	-
6	Schedule B-6 Construction of Compound Wall at Palej H/W & Vadva Intake Well Campus	-
7	Schedule B-7 Restoration of Existing Road Works- RCC & Bituminous	-
8	Schedule B-8 Construction of RCC - Approach Road at Vadva Intake Well & Palej H/W	-
9	Schedule B-9 Construction of Staff Quarters at Vadva Intake Well & Palej H/W	-
10	Schedule B-10 Construction of Security Cabin at Vadva Intake Well & Palej H/W	-
11	Schedule B-11 Construction of Combined Panel Room at Vadva Intake for Both Intake well	-
12	Schedule B-12 Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA works at Vadva Intake well and various Headworks	-
13	Schedule B-13 ROU, Crop Compensation and Land Compensation Works	-
14	Schedule C-Operation & Maintenance 10 year	

**Signature of Contractor**

**Executive Engineer  
P. H. Works Division  
Bharuch**

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Schedule B-1 Construction of Intake Structure of capacity as per Following Details:  
1. 182 MLD with Approach bridge of 145 m length  
2. 813 MLD with Approach Bridge of 95 m Length

Item No.	Particulars	Qty	Unit	Rate	Amount
1	<p><b>Item No.1 Intake well cum Pump House</b></p> <p>Design, Engineering, Survey, Geotechnical Investigation, Hydrological Studies, Hydraulic Design, Structural Design, Construction, Testing and Commissioning of RCC Intake Well-cum-Pump House Structure inside Narmada River on EPC basis for drawing raw water of 813 MLD capacity throughout the year, including obtaining approval of all designs, drawings and calculations from the Employer, Consultant, GWSSB and other statutory authorities, complete in all respects. Design and construction should be an accordance to the details given in data sheets and as per Specifications.</p> <p>The scope shall include detailed topographical survey, bathymetric survey, hydrological survey, hydraulic studies, geotechnical investigation comprising minimum five boreholes or as required as per relevant IS Codes, IRC Codes, NABL Accredited laboratory testing, preparation of design basis report, hydraulic design, structural design, detailed GADs, GFC construction drawings and approval thereof.</p> <p>The work shall include design and construction of Intake Well of minimum 30m x 21m (or size as approved in design), capable of drawing water below Minimum Draw Down Level, including intake ports, bell-mouth arrangements, stop-log arrangements, trash racks, SS mesh guards, screens, flow passages, valve chambers, operating platforms and all appurtenant works.</p> <p>The work shall include construction of temporary and permanent enabling works required for execution such as cofferdams, sheet piling, dewatering arrangements, diversion works, temporary access arrangements, working platforms, launching platforms, guide bunds, protective works, river training works, excavation in all types of strata including rock, dredging, disposal of excavated materials, dismantling and removal of temporary works after completion and restoration of river bed to original condition.</p> <p>The work shall include design and construction of foundation <b>by Sinking Well method or any other suitable method</b> as per site conditions, underwater concreting, tremie concreting, foundation raft, RCC retaining structures, RCC intake shaft, wet well, dry well, intermediate floors, machine floors, pump floor, operating floor, roof slab, staircases, RCC circular spiral staircase with central column, landings, parapets, handrails, safety railings and all structural components complete.</p> <p>The contractor shall design and construct all RCC works using minimum M-30 grade concrete and such higher grades as required by design and relevant IS Codes. Reinforcement shall be CRS Fe-500D. Waterproofing admixtures, water bars, construction joints, expansion joints and all durability requirements shall be provided as per relevant standards.</p> <p>The work shall include construction of Pump House superstructure of minimum dimensions of the Intake Well and minimum 12 m clear height above pump floor level up to the Top Slab-Beam Bottom or as required by approved design. The structure shall be designed to accommodate vertical turbine pumps, delivery piping, valves, EOT crane system and future maintenance requirements, as required based on the heaviest pump assembly.</p> <p>The work shall include construction of all RCC beams, columns, slabs, pile caps, retaining walls, deck slabs, machine foundations, equipment foundations, valve pedestals, operating platforms, cable trenches, drainage systems and all associated civil structures.</p> <p>The contractor shall provide internal and external plastering, waterproof plastering, epoxy coating to internal water retaining surfaces, weatherproof exterior paint, anti-carbonation coatings, anti-corrosive protective systems, floor finishes, roof waterproofing and all architectural finishes.</p> <p>The work shall include aluminium windows with grills, rolling shutters, doors, ventilators, louvers, safety ladders, railings, gratings, chequered plates, embedded steel components and all miscellaneous steel works.</p> <p>The contractor shall provide civil work supports related to the lightning protection system, earthing system, internal and external lighting arrangements, cable supports, conduits, sleeves etc. complete as required on site.</p> <p>The work shall further include hard stone pitching, slope protection, scour protection, riprap, toe walls, retaining structures, erosion protection works, river bank protection works and all permanent protective measures required for long-term stability of the intake structure.</p> <p>The contractor shall carry out all relevant testing of materials, cube testing, pile testing, waterproofing tests, NDT testing, survey verification, commissioning tests and submission of as-built drawings.</p> <p>The item shall include all labour, materials, machinery, shuttering, centering, scaffolding, cranes, barges, pumps, dewatering equipment, underwater works, consumables, transportation, royalty, taxes, insurance, statutory approvals, safety arrangements, environmental protection measures, quality assurance, documentation, completion drawings and all incidental works required for successful completion and commissioning of the Intake Well-cum-Pump House on EPC basis complete in all respects. <b>Any works which is required to be executed for Successful completion and commissioning of intake well is included in this item and no excess or extra item shall be given in this Job.</b></p>	1.00	Job		

Item No.	Particulars	Qty	Unit	Rate	Amount
2	<p><b>Item No.2 Intake Well cum Pump House</b></p> <p>Design, Engineering, Survey, Geotechnical Investigation, Hydrological Studies, Hydraulic Design, Structural Design, Construction, Testing and Commissioning of RCC Intake Well-cum-Pump House Structure inside Narmada River on EPC basis for drawing raw water of 182 MLD capacity throughout the year, including obtaining approval of all designs, drawings and calculations from the Employer, Consultant, GWSSB and other statutory authorities, complete in all respects. Design and construction should be in accordance to the details given in data sheets and as per Specifications.</p> <p>The scope shall include detailed topographical survey, bathymetric survey, hydrological survey, hydraulic studies, geotechnical investigation comprising minimum five boreholes or as required as per relevant IS Codes, IRC Codes, NABL Accredited laboratory testing, preparation of design basis report, hydraulic design, structural design, detailed GADs, GFC construction drawings and approval thereof.</p> <p>The work shall include design and construction of Intake Well of minimum 18 m Diameter (or size as approved in design), capable of drawing water below Minimum Draw Down Level, including intake ports, bell-mouth arrangements, stop-log arrangements, trash racks, SS mesh guards, screens, flow passages, valve chambers, operating platforms and all appurtenant works.</p> <p>The work shall include construction of temporary and permanent enabling works required for execution such as cofferdams, sheet piling, dewatering arrangements, diversion works, temporary access arrangements, working platforms, launching platforms, guide bunds, protective works, river training works, excavation in all types of strata including rock, dredging, disposal of excavated materials, dismantling and removal of temporary works after completion and restoration of river bed to original condition.</p> <p>The work shall include design and construction of foundation <b>by Sinking Well method or any other suitable method</b> as per site conditions, underwater concreting, tremie concreting, foundation raft, RCC retaining structures, RCC intake shaft, wet well, dry well, intermediate floors, machine floors, pump floor, operating floor, roof slab, staircases, RCC circular spiral staircase with central column, landings, parapets, handrails, safety railings and all structural components complete.</p> <p>The contractor shall design and construct all RCC works using minimum M-30 grade concrete and such higher grades as required by design and relevant IS Codes. Reinforcement shall be CRS Fe-500D. Waterproofing admixtures, water bars, construction joints, expansion joints and all durability requirements shall be provided as per relevant standards.</p> <p>The work shall include construction of Pump House superstructure of minimum dimensions of the Intake Well and minimum 12 m clear height above pump floor level up to the Top Slab-Beam Bottom or as required by approved design. The structure shall be designed to accommodate vertical turbine pumps, delivery piping, valves, EOT crane system and future maintenance requirements, as required based on the heaviest pump assembly.</p> <p>The work shall include construction of all RCC beams, columns, slabs, pile caps, retaining walls, deck slabs, machine foundations, equipment foundations, valve pedestals, operating platforms, cable trenches, drainage systems and all associated civil structures.</p> <p>The contractor shall provide internal and external plastering, waterproof plastering, epoxy coating to internal water retaining surfaces, weatherproof exterior paint, anti-carbonation coatings, anti-corrosive protective systems, floor finishes, roof waterproofing and all architectural finishes.</p> <p>The work shall include aluminium windows with grills, rolling shutters, doors, ventilators, louvers, safety ladders, railings, gratings, chequered plates, embedded steel components and all miscellaneous steel works.</p> <p>The contractor shall provide civil work supports related to the lightning protection system, earthing system, internal and external lighting arrangements, cable supports, conduits, sleeves etc. complete as required on site.</p> <p>The work shall further include hard stone pitching, slope protection, scour protection, riprap, toe walls, retaining structures, erosion protection works, river bank protection works and all permanent protective measures required for long-term stability of the intake structure.</p> <p>The contractor shall carry out all relevant testing of materials, cube testing, pile testing, waterproofing tests, NDT testing, survey verification, commissioning tests and submission of as-built drawings.</p> <p>The item shall include all labour, materials, machinery, shuttering, centering, scaffolding, cranes, barges, pumps, dewatering equipment, underwater works, consumables, transportation, royalty, taxes, insurance, statutory approvals, safety arrangements, environmental protection measures, quality assurance, documentation, completion drawings and all incidental works required for successful completion and commissioning of the Intake Well-cum-Pump House on EPC basis complete in all respects. <b>Any works which is required to be executed for Successful completion and combining of intake well is included in this item and no excess or extra item shall be given in this Job.</b></p>	1.00	Job		

Item No.	Particulars	Qty	Unit	Rate	Amount
3	<p><b>Item No.3 Approach Bridge for Intake Structure having capacity of 813 MLD</b></p> <p>Design, Engineering, Structural Design, Construction, Testing and Commissioning of RCC Approach Bridge of length not less than 95 metres and minimum width of 10 metres, connecting the riverbank to the Intake Well-cum-Pump House on EPC basis, including approval of designs and drawings from the Employer, Consultant, GWSSB and all concerned authorities. Design and construction should be an accordance to the details given in data sheets and as per Specifications.</p> <p>The scope shall include detailed survey, geotechnical investigation, hydrological and hydraulic analysis, GADs, structural design and GFC construction drawings for the complete bridge structure.</p> <p>The work shall include construction of pile foundations, pile caps, abutments, retaining walls, wing walls, piers, pier caps, RCC beams, RCC deck slab, crash barriers, handrails, inspection platforms, utility corridors and all ancillary structures required for the bridge.</p> <p>The work shall include construction of temporary and permanent enabling works required for execution such as cofferdams, sheet piling, dewatering arrangements, diversion works, temporary access arrangements, working platforms, launching platforms, guide bunds, protective works, river training works, excavation in all types of strata including rock, dredging, disposal of excavated materials, dismantling and removal of temporary works after completion and restoration of river bed to original condition.</p> <p>The bridge shall be designed to carry all operational, maintenance and emergency loads, including movement of equipment, cranes, vehicles, pipe loads, cable loads and all imposed loads as per the latest IRC, IS codes, Tender data sheet and relevant standards.</p> <p>The work shall include construction of cast-in-situ bored piles, underwater concreting, tremie concreting, pile testing, excavation, backfilling, earthwork, compaction, embankment formation and approach road connections.</p> <p>The scope shall include all RCC works in minimum M-30 grade concrete for piles, columns, beams, deck slabs, retaining walls and associated structural components with CRS Fe-500D reinforcement or a higher approved grade.</p> <p>The contractor shall provide MS girders wherever required by the approved design, bearings, expansion joints, drainage spouts, inserts, embedded components and all bridge accessories.</p> <p>The work shall include hard stone pitching, slope protection, erosion protection, toe protection, retaining structures, scour protection and river training works required for stability of the bridge approaches.</p> <p>The bridge deck level (bridge floor level) and pump house floor level shall be maintained at a minimum of 2 m above Highest Flood Level (HFL) as per the approved hydrological design.</p> <p>The Bridge Deck Slab Top Level shall match with the Pump House Floor Level.</p> <p>The contractor shall provide all safety railings, handrails, anti-skid flooring, lighting arrangements, lightning protection, earthing, cable trays, utility ducts, drainage arrangements and associated works.</p> <p>The scope shall include all temporary works such as cofferdams, dewatering, staging, launching arrangements, access roads, working platforms, falsework, scaffolding and dismantling/removal of temporary structures after completion.</p> <p>The item shall include all labour, materials, plant and machinery, shuttering, centering, cranes, transportation, testing, commissioning, statutory approvals, quality control, documentation, as-built drawings and all incidental works required for complete construction of the Approach Bridge ready for operation and maintenance.</p> <p><b>Any works which is required to be executed for Successful completion and commissioning of Approach Bridge is included in this item and no excess or extra item shall be given in this Job.</b></p>	1.00	job		
4	<p><b>Item No.4 Approach Bridge for Intake Structure having capacity of 182 MLD</b></p> <p>Design, Engineering, Structural Design, Construction, Testing and Commissioning of RCC Approach Bridge of length not less than 145 metres and minimum width of 7 metres, connecting the riverbank to the Intake Well-cum-Pump House on EPC basis, including approval of designs and drawings from the Employer, Consultant, GWSSB and all concerned authorities. Design and construction should be an accordance to the details given in data sheets and as per Specifications.</p> <p>The scope shall include detailed survey, geotechnical investigation, hydrological and hydraulic analysis, GADs, structural design and GFC construction drawings for the complete bridge structure.</p> <p>The work shall include construction of pile foundations, pile caps, abutments, retaining walls, wing walls, piers, pier caps, RCC beams, RCC deck slab, crash barriers, handrails, inspection platforms, utility corridors and all ancillary structures required for the bridge.</p> <p>The work shall include construction of temporary and permanent enabling works required for execution such as cofferdams, sheet piling, dewatering arrangements, diversion works, temporary access arrangements, working platforms, launching platforms, guide bunds, protective works, river training works, excavation in all types of strata including rock, dredging, disposal of excavated materials, dismantling and removal of temporary works after completion and restoration of river bed to original condition.</p> <p>The bridge shall be designed to carry all operational, maintenance and emergency loads, including movement of equipment, cranes, vehicles, pipe loads, cable loads and all imposed loads as per the latest IRC, IS codes, Tender data sheet and relevant standards.</p> <p>The work shall include construction of cast-in-situ bored piles, underwater concreting, tremie concreting, pile testing, excavation, backfilling, earthwork, compaction, embankment formation and approach road connections.</p> <p>The scope shall include all RCC works in minimum M-30 grade concrete for piles, columns, beams, deck slabs, retaining walls and associated structural components with CRS Fe-500D reinforcement or a higher approved grade.</p> <p>The contractor shall provide MS girders wherever required by the approved design, bearings, expansion joints, drainage spouts, inserts, embedded components and all bridge accessories.</p> <p>The work shall include hard stone pitching, slope protection, erosion protection, toe protection, retaining structures, scour protection and river training works required for stability of the bridge approaches.</p> <p>The bridge deck level (bridge floor level) and pump house floor level shall be maintained at a minimum of 2 m above Highest Flood Level (HFL) as per the approved hydrological design.</p> <p>The Bridge Deck Slab Top Level shall match with the Pump House Floor Level.</p>	1.00	job		

Item No.	Particulars	Qty	Unit	Rate	Amount
	<p>The contractor shall provide all safety railings, handrails, anti-skid flooring, lighting arrangements, lightning protection, earthing, cable trays, utility ducts, drainage arrangements and associated works.</p> <p>The scope shall include all temporary works such as cofferdams, dewatering, staging, launching arrangements, access roads, working platforms, falsework, scaffolding and dismantling/removal of temporary structures after completion.</p> <p>The item shall include all labour, materials, plant and machinery, shuttering, centering, cranes, transportation, testing, commissioning, statutory approvals, quality control, documentation, as-built drawings and all incidental works required for complete construction of the Approach Bridge ready for operation and maintenance.</p> <p><b>Any works which is required to be executed for Successful completion and commissioning of Approach Bridge is included in this item and no excess or extra item shall be given in this Job.</b></p>				
Total Cost of Schedule B1					-

<b>Name of Work: Working Survey, Design &amp; Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&amp;M of entire scope of work. Dist.: Bharuch</b>					
<b>Schedule B-2 Rising Main Pipeline comprising MS pipe and DI K-9 pipe as per Design Requirements</b>					
Item No.	Particulars	Qty	Unit	Rate	Amount
1.1	<b>Item No.1</b> Manufacture, Supply & Delivery of Submerged Arc Welded M.S.Pipe having bevelled ends plate or coil conforming to IS-3589-2001 or its latest revision/ amendment for following thickness and diameter at GWSSB store or site anywhere in Gujarat State including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading conveyance to Departmental stores/ Contractor's own stack yard, stacking, stack yard to site transportation charges etc. all complete. I/S Solvent free food grade Liquid Epoxy Lining (406 micron) as per AWWA C210 + O/S 3 LPE as per DIN 30670 Coated M. S. Pipe. <b>813mm M.S.pipe 7.1mm thk.</b>	107.00	R.Mt		
1.2	1067mm M.S.pipe 8.8mm thk.	637.00	R.Mt		
1.3	1219mm M.S.pipe 10.0mm thk.	23798.00	R.Mt		
1.4	1422mm M.S.pipe 12.5mm thk.	25007.00	R.Mt		
1.5	2641.6 mm M.S.pipe 18 mm thk.	26863.00	R.Mt		
2.1	<b>Item No.2</b> M.S Specials M.S Specials Plain ended Above 300 mm	416744.13	Kg		
2.2	MS Special Flanged Ended Above 300 mm	41674.41	Kg		
3.1	<b>Item No.3</b> Providing and supplying D.I. K-9 grade pipes with as per site requirement for following nominal bore diameter with internal cement mortar lining and outside minimum 400g/m2 zinc coating with finishing layer of minimum 200 micron thick epoxy paint including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. (IS 8329-2000) or its latest amendments. 500 mm DI K-9 Pipe	9545.00	R.Mt		
3.2	600 mm DI K-9 Pipe	107.00	R.Mt		
3.3	700 mm DI K-9 Pipe	372.00	R.Mt		
4.1	<b>Item No.4</b> Manufacture, Supply & Delivery of Ductile Iron flange socket spigot bends, tees, tees for air valves, reducers / enlarger or any other specials as per BS-EN-545/1995 Class-A series K12 suitable for use with D.I. pipes manufactured as per IS:8329. Delivery of specials to be made to GWSSB store or site of works anywhere in Gujarat including all taxes, loading, unloading, carting, stacking, insurance, inspection charges, octroi etc. complete. With external zinc coating minimum 400 g/m2 & external finishing layer of epoxy minimum 200 micron thickness & Internal Cement Mortar Lining 1. 350mm dia & Above Socket and spigot	47354.00	Kg		
4.2	Flanged ended	5263.00	Kg		

Item No.	Particulars	Qty	Unit	Rate	Amount
5.1	<b>Item No.5</b> Providing and supplying ISI marked ductile iron (DI) body non-rising spindle sluice valve / scour valve with hand wheel / gear operated arrangement, having bronze seat and AISI SS 410 shaft, conforming to IS 14846 (latest edition), suitable for PN-16 pressure rating, with flange end connection as per IS 1538, of approved make and quality, of following class and diameter, including all taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking, etc. complete. (A) SLUICE VALVE 350 mm	5.00	Nos.		
5.2	400 mm	1.00	Nos.		
5.3	500 mm	1.00	Nos.		
5.4	600 mm (Gear Operated)	1.00	Nos.		
5.5	800 mm (Gear Operated)	1.00	Nos.		
5.6	900 mm (Gear Operated)	12.00	Nos.		
5.7	1000 mm (Gear Operated)	13.00	Nos.		
5.8	<b>(B) SCOUR VALVE</b> 150 mm	5.00	Nos.		
5.9	200 mm	1.00	Nos.		
5.10	250 mm	1.00	Nos.		
5.11	300 mm	1.00	Nos.		
5.12	350 mm	8.00	Nos.		
5.13	400 mm	9.00	Nos.		
5.14	700 mm	9.00	Nos.		
6	<b>Item No.6</b> Pressure relief valve P.N.1.6 600 mm	1.00	Nos.		
7.1	<b>Item No.7</b> Supply, installation, testing and commissioning of Providing and supplying ISI mark DI D/F Butterfly Valves as per IS:13095 (Latest Edition) of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. along with required spare parts as per data sheet and specifications. 500mm	2.00	Nos.		
7.2	600 mm	1.00	Nos.		
7.3	700 mm	1.00	Nos.		
7.4	800 mm (Gear Operated)	1.00	Nos.		
7.5	1000 mm (Gear Operated)	1.00	Nos.		
7.6	1800 mm (Gear Operated)	2.00	Nos.		



Item No.	Particulars	Qty	Unit	Rate	Amount
8.1	<b>Item No.8 Insertion Type Ultrasonic Flow Meter</b> : Design, Supply, Installation, Testing, Commissioning of Two Path Insertion Ultrasonic flow meter working on transit time principle,with factory calibrated and site verification, Regular Power Operated, Flow sensor, Indicator, transmitter and totaliser with all accessories viz. surge arrestor, associated cables, cabinets, hard wares, etc complete as per following specifications: Flow meter / Sensor: 4 nos insertion ultrasonic type sensor (2 pair) with ball valve for online removal of sensors/ any other intersection/ retraction assembly, PN 20 pressure rating, SS 316 sensor MOC, IP 68 Protection.Flow Transmitter/ Converter (Remote Field Mounted):Microprocessor based, Modular design, 2 line LCD for indication of actual flow rate, forward, reverse, sum totaliser display, $\pm 1$ % accuracy at 0.3 to 4 m/sec velocity, 4 to 20 mA with HART/Modbus output, one scalable pulse output, IP 65/67 protection, Die cast aluminium/ polycarbonate/ SS316 with Anticorrosive Paint/ PU finish with glass window enclosure, Inbuilt EEPROM and Data Logger, 20 meters cable length or as per site requirement for sensor to transmitter communication etc along with wall mounted/stand mounted cabinet.Worldwide transmission of measured data (Every Fifteen Minutes) and events via e-mail and SMS by integrated GSM/GPRS modem, reliable data storage facility through integrated SD card etc GSM/GPRS based trans receiver unit to be provided to send signals to centralized monitoring system. Flow meter shall send signals to transmitter unit through digital output only. The contractor shall ensure full bore of the flow meter on site for accurate reading & make required arrangement for the same without any extra cost. The Flowmeter/ Transmitter shall be suitable to provide two no of analog Output Signals, One signal will be sent to PLC Panel and another signal shall be sent to CMS(Central Monitoring System). If the Flowmeter is unable to give two no of Analog output then Signal Splitter to be used for duplication of Signals. The Splitter should be installed in RTU panel and the Splitter should be as per tender Specification. The RTU modem shall be capable of sending the flowmeter signals to two different location where one signal will be transmitted to house and another signal will be sent to CMS(Central Monitoring system) at Gandhinagar less than 600 mm	1.00	Nos.		
8.2	600 mm to 800 mm	3.00	Nos.		
8.3	1000 mm and above	2.00	Nos.		
9.1	<b>Item No.9</b> Providing and supplying Ductile Iron Temper proof Air valves as per AWWA C512 with SS 304 float gun metal nozzle of approved make and quality of following class and diameter including companion flanges, fasteners and gasket and all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores/Contractor's own stack yard, stacking, stack yard to site transportation charges, etc. complete Temper proof Kinetic Air Valve with DI isolating sluice valve, PN-16 with hand wheel/cap operated (PD type Short body) 200 mm Class PN-1.6	104.00	Nos.		
9.2	150 mm Class PN-1.6	50.00	Nos.		
9.3	100 mm Class PN-1.6	2.00	Nos.		
9.4	80 mm Class PN-1.6	20.00	Nos.		
10.1	<b>Item No.10</b> Erection of airvalve riser by installing new M.S pipe of minimum 6mm thick and 3.2mt length with necessary fittings such as flange of appropriate size, nut bolts and embed the pipe in R CC M;15 with offset of 10 cm around pipe with necessary reinforcement steel etc complete 200 mm	104.00	Nos.		
10.2	150 mm	50.00	Nos.		

Item No.	Particulars	Qty	Unit	Rate	Amount
10.3	100 mm	2.00	Nos.		
10.4	80 mm	20.00	Nos.		
11.1	<b>Item No.11</b> Supply, installation, testing & commissioning of PN 16 flange ends Expansion Bellow as per EJMA standards of overall length of minimum 300 mm, with companion flanges, accessories erection hardware, necessary mounting supports etc. designed for 15 mm axial compression and 5 mm axial extension with tie rods etc. of following MOC & pressure ratings.MOC: Bellows: SA 240 Gr. 304; Internal Sleeve: SA 240 Gr. 304; Weldends: IS 2062 Gr. B; Flanges: IS 2062 Gr. B, Flanges machined faced and having Dimensions- PCD, OD, Thickness, Holes as per ISO-7005-1 & Limit Rods & Nuts: CS - IS 1367. 2600 mm	2.00	Nos.		
11.2	1400 mm	3.00	Nos.		
12.1	<b>Item No.12</b> Excavation for pipe line trenches for water supply, sewerage line, manhole etc. all with shoring and strutting if required as per required gradient and line including safety provisions using site rails and stacking excavated stuff including dewatering and up to all required lead, cleaning the site etc. complete for all lifts and strata. (A) FROM DEPTH 0.00 TO 1.50 MTR. In all sorts of soil and Strata	703537.00	cu.m.		
12.2	(B) FROM DEPTH 1.500 TO 3.00 MTR. In all sorts of soil and Strata	436997.00	cu.m.		
12.3	(C) FROM DEPTH 3.00 TO 4.50 MTR. In all sorts of soil & Strata	101103.00	cu.m.		
13.1	<b>Item No.13</b> Lowering, laying, jointing & welding in position to correct line & level M.S. Pipe with outside 3 LPE coating & inside solvent free liquid epoxy lining on pedestal or chairs upon prepared formation or prepared bedding in trenches. The rates include conveyance from store to site of work, loading, unloading, heat shrink sleeve jointing, Epoxy Coating to bare pipe and specials, including hydro testing etc. complete. <b>813mm M.S.pipe 7.1mm thk.</b>	107.00	R.Mt		
13.2	1067mm M.S.pipe 8.8mm thk.	637.00	R.Mt		
13.3	1219mm M.S.pipe 10.0mm thk.	23798.00	R.Mt		
13.4	1422mm M.S.pipe 12.5mm thk.	25007.00	R.Mt		
13.5	2641.6 mm M.S.pipe 18 mm thk.	26863.00	R.Mt		
14.1	<b>Item No.14</b> Lowering Laying and jointing Ductile Iron pipes suitable for tyton joints/mortar lined D.I. all class pipes of various classes with DI specials of following diameters in proper position, grade and alignment as directed by engineer In charge 500 mm DI K-9 Pipe	9545.00	R.Mt		
14.2	600 mm DI K-9 Pipe	107.00	R.Mt		
14.3	700 mm DI K-9 Pipe	372.00	R.Mt		

Item No.	Particulars	Qty	Unit	Rate	Amount
15.1	<b>Item No.15</b> Lowering laying and jointing in position following D.I. /D.F.(Double Flanged) reflux valve, sluice valve and air valves including cost of all labour,jointing materials including nut bolts and giving testing etc.complete. (A) SLUICE VALVE 350 mm	5.00	Nos.		
15.2	400 mm	1.00	Nos.		
15.3	500 mm	1.00	Nos.		
15.4	600 mm (Gear Operated)	1.00	Nos.		
15.5	800 mm (Gear Operated)	1.00	Nos.		
15.6	900 mm (Gear Operated)	12.00	Nos.		
15.7	1000 mm (Gear Operated)	13.00	Nos.		
15.8	(B) SCOUR VALVE 150 mm	5.00	Nos.		
15.9	200 mm	1.00	Nos.		
15.10	250 mm	1.00	Nos.		
15.11	300 mm	1.00	Nos.		
15.12	350 mm	8.00	Nos.		
15.13	400 mm	9.00	Nos.		
15.14	700 mm	9.00	Nos.		
15.15	(C) Pressure relief valve P.N.1.6 600 mm	1.00	Nos.		
15.16	(D) Butterfly Valve 500mm	2.00	Nos.		
15.17	600 mm	1.00	Nos.		
15.18	700 mm	1.00	Nos.		
15.19	800 mm (Gear Operated)	1.00	Nos.		
15.20	1000 mm (Gear Operated)	1.00	Nos.		
15.21	1800 mm (Gear Operated)	2.00	Nos.		
15.22	(E) AIR VALVE 200 mm	104.00	Nos.		
15.23	150 mm	50.00	Nos.		
15.24	100 mm	2.00	Nos.		
15.25	80 mm	20.00	Nos.		
16	<b>Item No.16</b> Providing C.C.M.100 for <b>encasing pipes</b> using trap metal size 12 mm to 50 mm form work curing consolidation etc. complete. Using trap metal 20 mm nominal size	65490.00	cu.m.		
17	<b>Item No.17</b> Providing and casting in situ C.C. in grade M-20 (proportions as per mix design or as per Table 9 of IS 456:2000 in masses by weight batching) using granite/quartzite trap metal of size 6 mm to 20 mm for RCC work, including Excavation, scaffolding, centering & formwork, needle vibrated consolidation, curing, Refilling and restoration at site etc., complete up to 6 m depth (excluding cost of reinforcement) with centering, shuttering/deshuttering etc. complete for structure other than water retaining. For Thrust Block	4835.00	cu.m.		

Item No.	Particulars	Qty	Unit	Rate	Amount
18	<b>Item No.18</b> Providing CRS Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete up to floor two level. For Thrust Block & Pipe Encasing	1854.83	MT		
19.1	<b>Item No.19</b> Construction of RCC Valve Chamber including Site clearance, excavation, shoring, strutting, maintaining line and gradient, stacking and disposal of excavated material, followed by refilling with available earth in layers with proper compaction; providing and laying PCC M-15 as foundation; providing and casting RCC M-20 including centering, shuttering, vibration and curing; providing and placing FE-500D reinforcement steel as per design; and providing and fixing CI/MS/ PVC encapsulated Rungs for steps with anti-corrosive paint, top cover of RCC Precast slabs & cover in pieces of required size with necessary nuts, bolts,etc complete as directed by Engineer-in-charge. <b>1.5 m X 1.5m X1.5 m</b>	35.00	Nos.		
19.2	Extra Depth of 1 mtr for 1.5 m X 1.5m X1.5 m	15.00	Rmt.		
19.3	RCC valve Chamber 2.0 m X 2.0 m X 2.0 m	18.00	Nos.		
19.4	Extra Depth of 1 mtr for 2.0 m X 2.0 m X 2.0 m	10.00	Rmt.		
19.5	RCC valve Chamber 2.5 m X 2.5 m X 2.5 m	30.00	Nos.		
19.6	Extra Depth of 1 mtr for 2.5 m X 2.5 m X 2.5 m	15.00	Rmt.		
19.7	RCC valve Chamber 4.0 m X 4.0 m X 3.5 m	5.00	Nos.		
19.8	Extra Depth of 1 mtr for 4.0 m X 4.0 m X 3.5 m	5.00	Rmt.		
20	<b>Item No.20</b> Refilling the pipeline trenches including ramming, watering, consolidating and disposal of surplus stuff as directed by Engineer-In-Charge for all leads .	1051589.00	cu.m.		
21	<b>Item No.21</b> Detailed Surge Analysis & Report Submission: Surge Analysis and designing of surge protection devices as per the actual working survey to protect the pipe against the surge pressure. The surge analysis report shall be submitted for approval of competent authority with clearly mentioning the surge protection device name, chainage, device size, bypass size (if applicable), pressure rating etc. Providing, supplying, installing, testing and commissioning surge protection device (as per above approved design) on raw water rising main to protect pipeline and pumps against water hammer due to pump trip/power failure. Device comprising DI/CI body PN16, SS internals, pilot operated, with interconnecting pipe, isolation valves, pressure gauges, foundation, chamber and discharge piping. Complete with design, erection, setting and demonstration as directed by Engineer-in-charge. For Both the Rising Main of both intakes Well	2.00	Job		
<b>Total Cost of Schedule B2</b>					-

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechnical-Instrumentation and SCADA Works at Various HWs to SHWs under Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

Schedule B-3 Construction of Pro. 13 ML Sump at Palej H/W Including Pump House above Sump Top Slab					
Item No.	Particulars	Qty	Unit	Rate	Amount
	<p><b>Item No.1</b></p> <p>Preparing structural design of RCC Under Ground / Partially underground / above high ground level Reservoir of required capacity as per relevant I.S.s and constructing the same, including excavation in all types of soil strata (including rock) including shoring strutting if required, for loose soil / to protect from collapse due to nearby traffic load, casting 100 mm thick P.C.C. levelling course in M-15, Refilling the pit with proper soil and disposing of the surplus stuff at all lead. Including cement plaster in CM 1:2 with approved water proofing compound to all over inside container (i.e. walls, base, top slab/dome bottom etc. all). Including all types of labour and material charges of lowering, laying, erecting / hosting and jointing of pipe assembly to inlet, outlet overflow, washout and bye pass arrangement as per hydraulic design.</p> <p>The Sump Shall be Constructed Considering the Pump room above the Top Slab of Sump. The Suction pit at the bottom of the sump for pumping arrangement shall be also considered with future Expansion, as per instruction by Engineer-in-Charge.</p> <p>Providing and fixing accessories, CI Manhole frame and cover,water level indicator, adequate cowl type ventilators or lantern type ventilator with stainless steel jail.</p> <p>RCC chambers for valves. Providing and applying three coats of cement paint / snowcem to the out side face of structure. It also includes satisfactory water tightness test as per relevant I.S. code and painting name of scheme and capacity on the tank as per direction of engineer in charge.</p> <p>List of Indian Standards for Design of GSR / SUMP:-</p> <p>The structural design of GSR shall be in accordance with provisions relevant I.Ss.</p> <p>(1) I.S. 3370 part I &amp; II 2009 or Its latest revision</p> <p>(1.1) I.S. 3370 part III &amp; IV 1965 or Its latest revision</p> <p>(2) I.S. 456 – 2000 or Its latest revision.</p> <p>(3) I.S. 1893 – 2000 – 1984 or Its latest revision.</p> <p>(4) I.S. 875, Part – 1 to 3, 1987 or Its latest revision.</p>				

Item No.	Particulars	Qty	Unit	Rate	Am
1	<p>General Specifications:-</p> <p>(1) Water depth in container shall be adopted as per data of tender. Capacity shall be calculated excluding free board of the reservoir. If water depth is not specified, the suitable water depth / acceptable to field engineer in accordance with hydraulic.</p> <p>(2) Shape of container (in plan) specified by in data sheet shall be adopted.</p> <p>(3) Size shall be fixed as per availability of space (land area) at site / acceptable engineer in charge.</p> <p>(4) Effect of overlapping of pressure bulbs on soil due near by structure and proposed sump should be considered.</p> <p>(5) Care shall be taken that no damage should occur to nearby existing structure. Compensation shall be paid for the same by agency.</p> <p>(6) The minimum concrete grade for RCC shall be M-30</p> <p>(7) CRS Fe 500D grade reinforcing bars confirming to I.S. 1786 / 1139 shall be considered in design. CRS bars shall be provided. In saline atmosphere corrosion resistance stainless steel / HCR rebar shall be provided. Any other steel can be used with approval of C.E. / in situation of non-availability in market without extra cost.</p> <p>(8) Minimum size (or thickness) of various components shall be provided as per tender criteria / specifications in absence as per I.S./ Std. practice of G.W.S.S.B. Minimum dimensions specified for various components in tender data / specifications shall be provided without fail.</p> <p>(9) The safe bearing capacity (SBC) shall be referred from SBC test report. The SBC test shall be carried out by NABL accerredited lab. In absence of report it shall be referred from data sheet. If poor soil is found / water table is met with during excavation SBC shall be scientifically ascertained and design shall be revise. No extra shall be paid for increase in quantity.</p> <p>(10) DI pipes and special shall only be used if type is not specified in tender.</p> <p>(11) The rate shall include cost of dewatering during excavation making all arrangement when water table meets within depth.</p> <p>(12) The structure shall be designed properly to resist uplift due to ground water table specified in data or actual ground water table meets with during excavation. No extra shall be paid. If GWT / Uplift is mentioned in tender and during excavation it dose not meet 7.5% rate shall be reduced.</p> <p>(13) SS pipes railing shall be provided over sump periphery when sump height is <math>\geq 1.5</math> meter above ground level.</p> <p>(14.a) RCC staircase/RCC Steps should be provided from GL to sump top slab based on the height of the GSR above/below the ground.</p> <p>(14.b)RCC Stair case with SS railing to be provided inside reservoir container BB Masonry stair cabin with MS safety door having locking arrangement to be provided for GSR,Sump and HGLR of capacity more than 7.5 lakhs liter with top slab. If dome is constructed as top slab than provide minimum opening of 900 mm X 2000mm with curbing and SS rating around.</p> <p>(15) Appearance of structure should be aesthetically good looking acceptable to authority.</p> <p>(16) Any change in size, shape, depth below GL, height above GL, water depth, F.B., size of member etc can be permitted in exceptional case due to site condition or hydraulic design requirement by C.E. No extra shall be paid for change.</p> <p>(17)Any change in data,dimensions,shape,water depth, reduction in size if permitted by competent authority and if it reduces quntity then payment shall be reduced prorate.</p> <p>(18) When capacity of GSR / Sump is &gt; 20 lakh liters two or suitable compartments acceptable to executive engineer shall be designed and provided.</p> <p>(19) Agency shall engage qualified (at least graduate) consulting engineer for designing the structure and he / she shall visit the site for guidance of work.</p> <p>(20) 75% part rate shall be payable for concrete, reinforcement and plastering items of container until satisfactory hydraulic testing for water tightness is performed as per tender condition. Till the work shall be treated as incomplete.</p> <p>.Above conditions / general specifications Sr. No. 1 to 20 are part and parcel of tender (contact) and prevail over other provisions in tender.</p> <p>Capacity in liters.</p> <p>Note :: Design of the sump shall be as per availability of land. <b>(Rectangle Sump With Water Table)</b></p> <p>Construction of Pro. Sump 13 ML Capacity at Palej H/W</p>	1	Nos.		

Item No.	Particulars	Qty	Unit	Rate	Am
2	<p><b>Item No.2 Pump Room Above Top Slab of Sump</b></p> <p>Designing (aesthetically) and constructing R.C.C. frame structure of pump room and panel room as per data sheet and Specification including,</p> <ol style="list-style-type: none"> <li>1. Minimum 15 % opening for ventilation should be provided.</li> <li>2. Pump room rolling shutter (Two no.), door and windows of aluminium section and window grill of aluminium anodized should be provided (Included in Cost).</li> <li>3. Plinth level of Panel Room should be as per data sheet.</li> <li>4. The arrangement shall be such that suction pipe, pump-sets, delivery pipe including all the valves and accessories shall be accommodated in pump house.</li> <li>5. The control panel room, office, PLC scada room, battery room, pantry and toilet/WC shall be constructed. The size of these rooms shall be enough to accommodate all electrical &amp; instrumentation equipment as per norms and approved by EIC.</li> <li>6. Vitrified tiles shall be provided in office,PLC scada and battery room. For other area flooring shall be provided of Polished kotastone or as per instructions of Engineer-in-charge.For Toilet non sleepry tiles as per EIC. For walkway and staircase portion chequered terrazo tiles to be provided.</li> <li>7. China mosaic shall be provided over top slab of pump house and panel room.</li> <li>8. As per instruction of engineer-in-charge, EOT crane girders shall be extended for loading / unloading of pump house equipment. One rolling shutters shall be provided at ground level with 3 side covered wall up to top slab of pump area. Other two rolling shutter shall be provided for the panel room area.The same shall be incorporated during approval of pump house GAD.(DOUBLE ROLLING SHUTTER)</li> <li>9. Approach from ground level to two side of pump house and panel area shall be provided with RCC staircase.</li> <li>10.Internal RCC staircase approach provided from the pump room to panel room.</li> <li>11. Mainttenance bay area shall be enough to accommodate the pump for maintenance purpose.</li> </ol> <p>Note: In case increase in pump house and panel room size due to larger size of pumping machinery/panel, no extra payment shall be given to the contractor.</p> <p>For pump &amp; piping portion : 40m X 12m with gantry structure. Minimum 9.5 m clear height from plinth level / maintenance floor level to bottom level of beam at roof slab</p>	480	Sqm		
Total Cost of Schedule B3					

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Schedule B-4 Road, Railway, Canal, Gas & Bund Crossings**

Item No.	Particulars	Qty	Unit	Rate	Amount
1.1	<b>Item No.1</b> Drilling of Horizontal bore hole for water main pipeline under the Railway / Road tracks/Embankment in all strata with required length including fixing of M.S. (or as specified by Railway / Road/ Irrigation authority) casing pipe of suitable size and Thickness. Rate includes the cost of Drilling of bore hole, Casing pipe & welding pushing etc. complete but excluding the cost of water main, valves and other items. Entire work should be as per Approved Drawing and as per instruction of Railway / Road /Irrigation authority for Following diameter of Bore hole. At various Location along the alignment of Pipeline. Horizontal Drilling-2200 mm:& MS Casing Pipe-2032 mm thick: 16 mm	500	Rmt		
1.2	Horizontal Drilling-1800 mm :& MS Casing Pipe-1626 mm thick: 14.2 mm	500	Rmt		
1.3	Horizontal Drilling – 900 mm & MS Casing Pipe – 800 mm thick:12	300	Rmt		



Item No.	Particulars	Qty	Unit	Rate	Amount
2	<p><b>Item No.2</b></p> <p>Laying of 3200 mm Finished Internal Diameter (FID) Mild Steel (MS) Pipe of 25 mm plate thickness by Pipe Pushing / Jacking Method, including design, fabrication, testing, transportation, laying, thrust bed and thrust wall construction, complete as per approved drawings and specifications.</p> <p>Including Designing, manufacturing, testing and supplying 3200 mm FID MS pipe and specials fabricated from 25 mm thick MS plates conforming to IS 2062 Grade B (Fe-500D) and manufactured as per IS 3589 and IS 5822 (latest editions), including cutting, rolling, welding, bevelled joints, ultrasonic testing, radiographic testing (random), hydraulic testing, circularity test and all other specified tests.</p> <p>Providing and applying internal and external Zinc Epoxy Coating in two coats, including surface preparation and curing as per specifications.</p> <p>Providing and laying cast-in-situ M-25 grade RCC thrust bed and thrust wall including excavation, dewatering, shoring, strutting, formwork, reinforcement, concreting, vibration, curing and disposal of surplus excavated material, complete as per contractor's design approved by the competent authority.</p> <p>Supplying, cutting, bending and fixing CRS reinforcement steel Fe-500D grade for thrust bed and thrust wall, including binding wire, laps, chairs and all incidental works.</p> <p>Providing front shield, jacking rigs, hydraulic jacks, sliding channels, spacers, guide frames and all temporary structural steel arrangements required for pipe pushing operations. All temporary structural steel shall remain the property of the contractor after completion.</p>	310	Rmt		

Item No.	Particulars	Qty	Unit	Rate	Amount
	<p>Excavation at launching and receiving pits, shoring, strutting, dewatering, pipe jacking/pushing using hydraulic jacks without disturbing the existing pavement or structures, excavation inside the pipe, removal and disposal of excavated material, refilling and restoration of pits to original ground level, including transportation of surplus earth up to 5 km lead. Providing all labour, machinery, hydraulic equipment, pumps, tools, tackles, consumables, lubricants, hydraulic oil, fuel, power, depreciation charges and all incidental items required for successful completion of pipe pushing work.</p> <p>Loading, transportation, unloading, stacking, handling and laying of MS pipes and specials at site, including all taxes, duties, royalties, insurance and other charges complete.</p> <p>The work shall be executed as per approved GAD, contractor's design approved by the competent authority, relevant IS Codes and directions of Engineer-in-Charge, complete in all respects.</p>				

Item No.	Particulars	Qty	Unit	Rate	Amount
3	<p><b>Item No.3</b></p> <p>Designing, providing and casting reinforced concrete M-35 design mix box of clear size Size 4.0 m x 4.0 m in to in in all strata of Soil, including providing and casting steel cutting edge for front shield, MS rear shield RCC M-20 thrust bed for pushing the box below railway embankment under railway, SH, NH roads under running traffic condition as per contractors own design/ drawing including arrangement for intermediate jacking station with provision of intermediate shield and its connection with the box drag sheet as may be required for smooth controlled pushing etc complete in all respects, including cost of necessary excavation with its all lead and lift for constructing thrust bed at designed level as directed by engineer-in-charge including providing all temporary works as required and approved by Railway or statutory authority, required protection of existing road pavement/ railway track including providing water tight joints in RCC box segments using CC grout with epoxy paint on exposed facing and providing RCC saddles in the box as per details given with drawing for supporting pipe in the box as directed, including all plants machinery, equipments , all labour material and all temprory works in all respects, dismantling and removal of temprory work, restoring ground to its original profile on completed work. Rate is inclusive of construction of pushing pit, receiving pit and intermediate pit if required and inclusive of all tools &amp; tackle etc complete.</p> <p>Appropriate Length as per Site conditions for the various crossing at various locations (Length not more than 100 meters at single location) for MS pipe Dia 2641.6 mm (Carrier Pipe)</p>	120	Rmt		
	<b>Total Cost of Schedule B4</b>				<b>0.00</b>

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Schedule B-5 Construction of Steel Bridge for Rivers, Canal and Nala Crossings**

<b>Item No.</b>	<b>Particulars</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1.1	<b>Item No.1</b> Providing and executing canal crossing arrangement for pipeline by steel bridge structure, including all civil works such as excavation, concrete, reinforcement, and structural steel, complete as per approved design and drawing. Minimum Width of the bridge shall be 4.5 m. The floor level of the bridge shall be above HFL/FSL+FB of the Corresponding Canal/ Nala/ River. Construction of Steel Bridge for Rivers, Canal and Nala Crossings with Steel Bridge Length up to 40m	340	Rmt		
1.2	Construction of Steel Bridge for Rivers, Canal and Nala Crossings with Steel Bridge Length up to 150m	430	Rmt		
<b>Total Cost of Schedule B5</b>					<b>0.00</b>

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Schedule B-6 Construction of Compound Wall at Palej H/W & Vadva Intake Well Campus**

Item No.	Particulars	Qty	Unit	Rate	Amount
1	<p><b>Item No.1</b>  Construction of 2.0 mtr height (above FGL) compound wall in B.B. Masonry in C.M. 1:3 with R.C.C. columns M-20 at 3.0 m c/c &amp; R.C.C. Beam M-20 below F.G.L. including reinforcement TMT steel all diameter Fe 500D grade minimum confirming to relevant IS with 20 mm thick Cement plaster to all exposed concrete and masonry structure at top in coping of compound wall including excavation in all strata, P.C.C. M-10, form work for R.C.C. work, plastering, applying two coats of weather proof exterior emulsion paint, removal of all debris with lead &amp; lift etc. complete  Wire Fencing for compound wall: Providing and fixing 600 mm dia hot dip galvanised cross spiral type razor edge concertina coil having 150 mm c/c loops with 6 m stretch, made of 2.6 mm dia high tensile core wire conforming to IS 4454 (Part-1, Grade-II) with 230–250 GSM galvanisation and 0.5 mm thick, 19 mm wide razor strip conforming to IS 513 DD quality with minimum galvanizing coating of 12 microns, with series of barbs punched along the length at regular intervals, supported and tied with four rows of GI barbed runner wires, fixed over Y-type MS angle posts of size 50×50×6 mm, 0.75 m height at 3.0 m c/c, mounted on compound wall with suitable fasteners, including GI clips, U-nails, binding wire and all necessary fittings, complete as per specification and direction of Engineer-in-Charge.  Refer general specifications for detail specifications item shall be executed as per Engineer-in charge direction.  Entry Gate: Providing &amp; Fixing Iron gates for compound wall of required size &amp; specification with 2 No of R.C.C. M-20 column size 0.45 x 0.45 m including reinforcement TMT steel all diameter Fe 500 grade minimum confirming to relevant IS with 15 mm thick cement plaster to all exposed surface including excavation in all strata, P.C.C. M-10, form work for R.C.C. work (M-20), painting to all Iron exposed surfaces (incl. brushing, cleaning &amp; priming coat) and cleaning the site etc. the site etc. complete as per the detailed drawing attached.(MS Gate size 5.00 mtr long and average 2.5 mtr height), and construction of wall(at front side at MS gate) in B.B. Masonry in C.M. 1:6 with 20 mm thick Cement plaster to all exposed concrete and masonry structure. Min. 2 nos for lighting Providing &amp; erecting approved make CFL outdoors type Post top lantern/flying saucer type fittings cast Aluminium/M.S. Powder Coated pole mounting type with BS lamp holder &amp; Clear acrylic diffuser with CFL lamp complete with necessary cabling. (b) with One no. 36 Watt CFL for Vadva Intakewell and Palej H/W</p>	2400.00	Rmt.		

Item No.	Particulars	Qty	Unit	Rate	Amount
2	<p><b>Item No.2</b> Construction of RCC Compound wall with 3 mtr Height and R.C.C. columns M-20 at 3.0 m c/c &amp; R.C.C. Beam M-20 below F.G.L., wall also shall be designed in RCC including reinforcement TMT steel all diameter Fe 500D grade minimum confirming to relevant IS with 20 mm thick Cement plaster to all exposed concrete at top in coping of compound wall including excavation in all strata, P.C.C. M-10, form work for R.C.C. work, plastering, applying two coats of weather proof exterior emulsion paint, removal of all debris with lead &amp; lift etc. complete</p> <p>Wire Fencing for compound wall: Providing and fixing 600 mm dia hot dip galvanised cross spiral type razor edge concertina coil having 150 mm c/c loops with 6 m stretch, made of 2.6 mm dia high tensile core wire conforming to IS 4454 (Part-1, Grade-II) with 230–250 GSM galvanisation and 0.5 mm thick, 19 mm wide razor strip conforming to IS 513 DD quality with minimum galvanizing coating of 12 microns, with series of barbs punched along the length at regular intervals, supported and tied with four rows of GI barbed runner wires, fixed over Y-type MS angle posts of size 50×50×6 mm, 0.75 m height at 3.0 m c/c, mounted on compound wall with suitable fasteners, including GI clips, U-nails, binding wire and all necessary fittings, complete as per specification and direction of Engineer-in-Charge.</p> <p>Refer general specifications for detail specifications item shall be executed as per Engineer-in charge direction.</p> <p>Entry Gate: Providing &amp; Fixing Iron gates for compound wall of required size &amp; specification with 2 No of R.C.C. M-20 column size 0.45 x 0.45 m including reinforcement TMT steel all diameter Fe 500 grade minimum confirming to relevant IS with 15 mm thick cement plaster to all exposed surface including excavation in all strata, P.C.C. M-10, form work for R.C.C. work (M-20), painting to all Iron exposed surfaces (incl. brushing, cleaning &amp; priming coat) and cleaning the site etc. the site etc. complete as per the detailed drawing attached. (MS Gate size 5.00 mtr long and average 3 mtr height), and construction of wall (at front side at MS gate) in RCC in C.M. 1:6 with 20 mm thick Cement plaster to all exposed concrete structure. Min. 2 nos for lighting Providing &amp; erecting approved make CFL outdoors type Post top lantern/flying saucer type fittings cast Aluminium/M.S. Powder Coated pole mounting type with BS lamp holder &amp; Clear acrylic diffuser with CFL lamp complete with necessary cabling. (b) with One no. 36 Watt CFL. at Palej H/W</p>	1000	Rmt.		
Total Cost of Schedule B6					-

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Schedule B-7 Restoration of Existing Road Works- RCC & Bituminous**

Item No.	Particulars	Qty	Unit	Rate	Amount
1.1	<b>Item No.1 RCC Road</b> Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work RCC Road cutting	1600.00	Cum		
1.2	Providing and casting in situ C.C. in grade M-15 (approx. corresp. to prop. 1:2:4) (proportions as per mix design or as per Table 9 of IS456 2000 in masses by weigh batching ) using granite, quartzite trap metal of size 6 mm to 20 mm for RCC work, including scaffolding centering, form work, needle vibrated consolidation, curing comp. up to 6 meter depth or height (excluding cost of reinforcement and neat finishing) with centering and shuttering/deshuttering etc. comp. for structure for other than water retaining. RCC Road Restoration	1600.00	Cum		
1.3	Providing, cutting, bending, binding and fixing in position as per drawing TMT BAR , reinforcement for R.C.C. works and anchor bars incl cost of black annealed 16 to 18 BWG M.S. Wire etc.complete with all lead and lift. (B) Fe-415	112.00	MT		
2.1	<b>Item No.2 Asphalt Road</b> Earthwork for embankment including breaking clods, dressing with all lead and lift (excluding watering and consolidation)(A) From Borrow pits within land width	44800.00	Cum		
2.2	Providing & laying of Granular sub base (GSB) of graded granular material consisting of gravel, pabbles (80%) and crushed stone aggregate (20%) as per grading given in table 400-1 of the specification MORT&H and compactor to the required density with 8 - 10 tonne vibratory roller with plain drum or heavy pneumatic tyred roller of minimum 200 to 300 KN weight in all seasons as per MORT&H , maintaining the required slope & grade during the operation as approved by the engineer in charge & watering to the proper moisture content and sprinkled with the help of truck mounted water tank fitted with suitable arrangement. (fully saturated having CBR value greater or equal to 30)	8000.00	Cum		
2.3	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with hudrostatic sensor paver in sub- base / base course on well prepared surface and compacting with vibrator roller to achieve the desired density.	4800.00	Cum		

Item No.	Particulars	Qty	Unit	Rate	Amount
2.4	Consolidation of 2.5cm. thick premixed asphalt carpet with power roller including cost of fuel hire charges of roller etc. complete.	32000.00	Sqm		
2.5	Consolidation of liquid / premixed seal coat with power roller including cost of fuel hire charges of roller etc. complete.	32000.00	Sqm		
	Total Cost of Schedule B7				0.00



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Schedule B-8 Construction of RCC - Approach Road at Vadva Intake Well & Palej H/W					
Item No.	Particulars	Qty	Unit	Rate	Amount
1	<b>Item No.1 Approach Road</b> RCC Road: Construction of RCC approach road for required length as per site conditions, with minimum clear carriageway width of 4.50 m, ensuring proper geometric alignment and smooth connectivity complete in all respects; preparation and compaction of subgrade, construction of pavement comprising 150 mm thick Granular Sub-Base (GSB), 150 mm thick Wet Mix Macadam (WMM), Plain cement concrete sub-base, polythene sheet and RCC pavement of M20 grade with TMT Fe-500D reinforcement, finished to required camber and slope, including providing kerb, providing proper surface and subsurface drainage arrangements including cross-drainage works as required, all materials including aggregates and concrete shall be tested as per relevant codal provisions and approved specifications before and during execution, and the contractor shall be responsible for quality , submission of drawings and calculations for approval, methodology, safety, stability and performance of the plant road and the entire work shall be executed in accordance with approved drawings and relevant IRC and MoRTH specifications, complete as directed by the Engineer-in-Charge.	2000	R.Mt		
	Total Cost of Schedule B8				-

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

Schedule B-9 Construction of Staff Quarters at Vadva Intake Well & Palej H/W					
Item No.	Particulars	Qty	Unit	Rate	Amount
1	<b>Item No.1 Staff quarters</b> Designing & constructing Staff quarters including drawing room,bed room, kitchen, soakpit, water supply arrangement, drainage arrangement toilet block,outside staircase, All electrical works, plumbing and all finishing items as per data sheet and detailed Specification. Staff Quarter 2 Nos At Vadva Intake Well & 1 Nos Palej H/W (3 Nos. X 60 Sqm)	180	Sq.Mt.		
	Total Cost of Schedule B9				0.00

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

Schedule B-10 Construction of Security Cabin at Vadva Intake Well & Palej H/W					
Item No.	Particulars	Qty	Unit	Rate	Amount
1	<b>Item No.1 Security Cabin</b> Designing & constructing Security Cabin including All electrical works and all finishing items as per data sheet and detailed Specification. Security Cabin 3mX 3m, 2 UNITS 1 No. at Vadva Intake well 1 No. at Palej H/W	18	Sq.Mt.		
	Total Cost of Schedule B10				0.00

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Schedule B-11 Construction of Combined Panel Room at Vadva Intake for Both Intake well**

Item No.	Particulars	Qty	Unit	Rate	Amount
1	<p><b>Item No.1 Panel Room</b> Designing (aesthetically) and constructing R.C.C. frame structure of Combined panel room at Vadva Intake well as per data sheet and Specification including,</p> <p>1. Minimum 15 % opening for ventilation should be provided.</p> <p>2. Pump room rolling shutter, door and windows of aluminium section and window grill of aluminium anodized should be provided (Included in Cost).</p> <p>3. Plinth level should be min.0.5 meter above existing GL.</p> <p>4. The arrangement shall be such that suction pipe, pump-sets, delivery pipe including all the valves and accessories shall be accommodated in pump house.</p> <p>5. The control panel room, office, PLC SCADA room, battery room, pantry and toilet/WC shall be constructed. The size of these rooms shall be enough to accommodate all electrical &amp; instrumentation equipment as per norms and approved by EIC.</p> <p>6. Vitrified tiles shall be provided in office, PLC Scada and battery room. For other area flooring shall be provided of Polished Kota stone or as per instructions of Engineer-in-charge. For Toilet non sleepy tiles as per EIC. For walkway and staircase portion chequered terrazzo tiles to be provided.</p> <p>7. China mosaic shall be provided over top slab of pump house and panel room.</p> <p>8. As per instruction of engineer-in-charge, EOT crane girders shall be extended for loading / unloading of pump house equipment. One rolling shutters shall be provided at ground level with 3 side covered wall up to top slab of pump area. Other rolling shutter shall be provided for the panel room area. The same shall be incorporated during approval of pump house GAD.(DOUBLE ROLLING SHUTTER)</p> <p>9. Approach from ground level to two side of pump house and panel area shall be provided with RCC staircase.</p> <p>10. Internal RCC staircase approach provided from the pump room to panel room.</p> <p>11. Maintenance bay area shall be enough to accommodate the pump for maintenance purpose.</p> <p>12. False ceiling shall be provided in the Office Room, VFD Room, and SCADA Room of required height as per the direction of the Engineer In-Charge.</p> <p>Note: In case increase in pump house and panel room size due to larger size of pumping machinery/panel, no extra payment shall be given to the contractor.</p>	800.00	Sqm		
<b>Total Cost of Schedule B11</b>					<b>0.00</b>

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Schedule B-12 Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA works at Vadva Intake well and various Headworks**

Item No.	Particulars	Qty	Unit	Rate	Amount
1	<b>Item No.1 Pumping Machinery</b> Design, engineering, supply, installation, testing and commissioning of electrical and mechanical equipment of water supply pumping system viz. pumping machinery of following type and rating, Electrically Operated valves (SV/BFV/DPCV), delivery-suction and discharge header pipes and specials, expansion bellows, full bore electromagnetic flow meter, material handling system (EOT), Chain Pulley Block, fire extinguisher, exhaust fans including 66KV switchyard with 66/6.6 KV distribution main load transformers (including one stand by with full capacity), 250 KVA 6.6/0.415KV auxiliary load transformers (including one stand by with full capacity), HV VCB switchgear panels, HV FCMA soft starter panels, HV fixed capacitor bank panels, LV PDB and LDB, MCC and APFC panel for auxiliary loads, DG set of 50 KVA capacity, HV/ LV XLPE insulated Cu/Al armoured cables with tray and kits, earthing system, safety accessories with PLC SCADA based Control Panel instrumentation control system and Instrumentations, travelling trolley arrangement including railwork over approach bridge length for loading , unloading and transferring pump from at approach bridge to intakewell, non clog pump for cleaning of intakewell as per detailed specifications	11880.00	KW		

Item No.	Particulars	Qty	Unit	Rate	Amount
	<p>pump for cleaning of intakewell as per detailed specifications including carting of all electromechanical items as per instructions of the Engineer-in-charge. The work under this item includes minimum qty of individual item as mentioned in annexure "A &amp; B" ( Mechanical items ) ,Annexure "D "( electrical items) and Annexure " F &amp; G " ( Instrumentation items). However any variation, excess or extra work if required to complete and commission entire work shall be carried out with no extra cost. No excess or extra items shall be paid in order to complete and commission this entire item.</p> <p>(1).Total 06 sets of VT Pump with all accessories and discharge capacity (Q) of 1700.00 m3/hr and 85 meters (H) Head with suitable 560 kW , 06 pole 6.6 KV induction motor in 4 working + 2 standby configuration) at Intakewell To Palej HW (2). Total 12 sets of VT Pump with all accessories and discharge capacity (Q) of 3719.00 m3/hr and 48 meters (H) Head with suitable 710 kW , 06 pole 6.6 KV induction motor in 8 working + 4 standby configuration) at Intakewell To GIDC RAHIYAD POND.</p>				

Item No.	Particulars	Qty	Unit	Rate	Amount
2	<p><b>Item No.2 Pumping Machinery</b></p> <p>Supply, installation, testing &amp; commissioning of electrical &amp; mechanical equipments of water supply pumping system viz. pumping machinery (of following type &amp; rating), Electrically Operated valves (SV/BFV/DPCV), Suction-delivery-discharge header pipes &amp; specials, expansion bellows, Full Bore Electromagnetic flow meter, material handling system (EOT), Chain Pulley Block, fire extinguisher, exhaust fan including 11 kV two / four pole switchyard with distribution transformer (including one standby of full capacity), HV switchgear panel, LV MCC - APFC panels, HV / LV XLPE insulated Cu / Al armoured / PVC insulated round Copper submersible cables with tray &amp; kits, earthing system, safety accessories with PLC SCADA based Control Panel, instrumentation control system and Instrumentations, travelling trolley arrangement with non clog pump for cleaning of sump as per detailed specifications including carting of all electromechanical items as per instructions of the Engineer-in-charge. as per specifications. The work under this item includes minimum qty of individual item as mentioned in Annexure - "C" ( Mechanical items ) ,Annexure "E"( electrical items) and Annexure "H" ( Instrumentation items). However any variation, excess or extra work if required to complete and commission entire work shall be carried out with no extra cost. No excess or extra items shall be paid in order to complete and commission this entire item.</p> <p>(1).Total 04 sets of VT Pump with all accessories and discharge capacity (Q) of 781.00 m3/hr and 16 meters (H) Head with suitable 55 kW , 06 pole 0.415 KV induction motor in 2 working + 2 standby configuration) at Palej To WTP</p>	220	KW		
<b>Total Cost of Schedule B13</b>					-

**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Schedule B-13 ROU, Crop Compensation and Land Compensation Works**

<b>Item No.</b>	<b>Particulars</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1	<b>Item No.1</b> To obtain Right of User (ROU) under Gujarat Water and Gas Pipelines (Acquisition of Right of User in land) Act, 2000 for laying transmission pipelines including all formalities	86436	Rmt		
2	<b>Item No.2</b> Crop compensation for width of 25 mt on pipeline alignment	1944810	Sqm		
3	<b>Item No.3</b> Payment for Land compensation for obtaining ROU having width 25 mt for proposed pipeline alignment	1944810	Sqm		
<b>Total Cost of Schedule B13</b>					<b>-</b>



**Name of Work: Working Survey, Design & Construction of Intake Well with Approach Bridge, Providing, Supplying, Lowering, Laying and Jointing various dia. of DI-K9/MS Rising Main Pipelines, RCC Sump, Pump House, Staff Quarter, Compound Wall, Supplying and erecting Pumping Machinery Including all Electro-Mechanical-Instrumentation and SCADA Works at Various HWs to SHWs under Water Supply Scheme Based on Bhadbhut Barrage (RHS) for Industries (GIDC) and Rural Areas of Bharuch and Vadodara Districts with 10 Years of Comprehensive O&M of entire scope of work. Dist.: Bharuch**

**Schedule C-Operation & Maintenance 10 year**

Item No.	Particulars	Qty	Unit	Rate	Amount
1	<b>Item No.1</b> Comprehensive Operation, Maintenance & Repair of all the components (Pipeline, Civil Works, Electro-Mechanical Works, Instrumentation Works etc.) along with all related accessories for 10 Years for this Project including proper supply of water as per demand, operation & maintenance records, supply of skilled & unskilled manpower, vehicles, tools, materials etc. complete under the project. The O&M work includes cleaning of Sump every year, colour work of all electro-mechanical works at every year & colour work of civil works i.e. Sump cum Pump house (Proposed & Existing), compound wall, panel room, air valve & riser pipe, valve chambers, etc. at 3rd, 6th, 8th and 10th year of O&M period. Battery replacement at the end of 5th year & at the end of 10th year. The O&M is including insurance of all the components (except pipeline) and established manpower. (A) For 1st Year	1.0	YEAR		
2	(B) For 2nd Year	1.0	YEAR		
3	(C) For 3rd year	1.0	YEAR		
4	(D) For 4th Year	1.0	YEAR		
5	(E) For 5th Year	1.0	YEAR		
6	(F) For 6th Year	1.0	YEAR		
7	(G) For 7th Year	1.0	YEAR		
8	(H) For 8th Year	1.0	YEAR		
9	(I) For 9th Year	1.0	YEAR		
10	(J) For 10th Year	1.0	YEAR		
<b>Total Cost of Schedule C</b>					

## **SCHEDULE-D**

### **PREAMBLE**

1. The Schedule specifies the procedure for all such assessment of the items specified in Schedule B.
2. Each item of Schedule-B has been divided into broad components. The Employer's Representative shall assess the value of each component as indicated in paragraph 6 herein below.
3. Percentages are indicated against each component of each item specified in Schedule B, based on the Employer's best appreciation of the value of the component as related to the total costs of the concerned item as whole. A head titled (any other item(s)) is included in each breakdown of schedule and the tenderer shall at the time of tendering indicate any additional items which he considers necessary but cannot be covered by any of the heads indicated in the breakup.
4. The percentage breakup as indicated in the Schedule may differ from that corresponding to the tenderer's scheme and design and he should take this into account while quoting his lump sum prices for the items specified in Schedule-B.
5. The contractor shall, after approval of his detailed designs and drawings furnish to the Employer's Representative an initial bill of quantities to all major items, to be reviewed and updated periodically with the Employer's Representative. This bill of quantities will be used for assessment of percentage progress of the component at any stage. By measurement jointly taken by the Employer's Representative and the Contractor, mutually agreed and entered in the measurement books in the form and by the method approved by the Employer's Representative, and signed jointly by both the parties.

**Signature of contractor**

**Executive Engineer  
P. H. Works Division  
Bharuch**

## **BREAK UP FOR INTERIM PAYMENTS**

### **(CIVIL, MECHANICAL, INSTRUMENTATION & ELECTRICALWORKS)**

<b>Item</b>	<b>Description of Items</b>	<b>Percentage Payment to be released</b>
<b>1</b>	<b>PIPELINE</b>	
a	On receipt of materials at project site	65 % of Quoted rate
b	On Excavation, Lowering, laying and Jointing	20 % of Quoted rate
c	On Hydraulic testing	5 % of Quoted rate
d	On refilling and disposal of surplus stuff	5 % of Quoted rate
e	After commissioning	5 % of Quoted rate
	Total	100%
<b>2</b>	<b>All VALVES</b>	
a	On receipt of materials on site	70 % of Quoted rate
b	On erection	20 % of Quoted rate
c	On Hydraulic testing	5 % of Quoted rate
d	After commissioning	5 % of Quoted rate
	Total	100%
<b>3</b>	<b>PUMPING STATION/STAFF QUARTERS / PUMP ROOM / Security Cabin</b>	
a.	On approval of Designs	2.0 % of Quoted rate
b.	On completion of Excavation & base slab	18.0 % of Quoted rate
c.	On completion of vertical wall up to plinth	20.0 % of Quoted rate
d.	Full supporting structure incl. ring beam and top slab	15.0 % of Quoted rate
e.	On completion of pump house incl. fixing doors Windows	10.0 % of Quoted rate
f.	Plastering inside & outside with epoxy paint etc. (completed with all respects)	10.0 % of Quoted rate
g.	Painting of letters, MS ladder pipe, railing and all miscellaneous items such as snowcem paints in three coats etc. (completed with all respects)	15 % of Quoted rate
h.	After commissioning	10 % of Quoted rate
	Total	100%
<b>4</b>	<b>Intake well</b>	
	On bathymetric survey, soil investigation.	2.5 % of Quoted rate
	On approvals of designs	2.5 % of Quoted rate

	On completion of works up to River Bed Level including Cofferdam and all allied Works	30 % of Quoted rate
	On completion of the well from bed level to Pump Room Floor level.	35 % of Quoted rate
	On completion of the from Pump Room Floor level to Top Slab.	15 % of Quoted rate
	On completion of All Civil Works	10 % of Quoted rate
	After commisioning	5 % of Quoted rate
	Total	100%
<b>5</b>	<b>Approach Bridge</b>	
	On Completion of Survey and soil investigation Report.	2.5 % of Quoted rate
	On approvals of designs	2.5 % of Quoted rate
	On completion of works up to River Bed Level including Temporary Structure / Cofferdam and all allied Works	30 % of Quoted rate
	On completion of the well from bed level to Approach Bridge Floor level.	35 % of Quoted rate
	On completion of the Approach Bridge Deck Slab.	15 % of Quoted rate
	On completion of All Civil Works	10 % of Quoted rate
	After commisioning	5 % of Quoted rate
	Total	100%
<b>5</b>	<b>GROUND (UNDERGROUND) LEVEL SERVICE RESERVOIRS/SUMPS</b>	
a.	On approval of designs	2 % of Quoted rate
b.	On completion of excavation and base slab	18 % of Quoted rate
c.	On completion of vertical wall and braces	20 % of Quoted rate
d.	Full supporting structure including column, ring beam and completion of top slab / dome	15 % of Quoted rate
e.	Plastering inside & outside with epoxy etc. complete	10 % of Quoted rate
f.	Procurement and fixing of inlet, outlet, washout, overflow pipes, valves, specials, chambers, lighting arrester conductor and specials at site	10 % of Quoted rate

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g.	Water level indicator, painting of letters, M.S ladder, pipes, railing and all miscellaneous items such as snowcem paint in three coats etc. (Completed with all respect) including water tightness test	15 % of Quoted rate
h.	On hydraulic testing	10 % of Quoted rate
	Total	100%
<b>7</b>	<b>All Electro-mechanical works and Instrumentation</b>	
A	MECHANICAL EQUIPMENT (45% WEIGHTAGE OUT OF TOTAL 100%)	
A-1	Pump – Motor Assembly	Total 35% Weightage (Amount) of Accepted LS kW Based Rates *(In case of only motor 50% of total 35% Weightage (Amount) of complete VT pump Assembly)
A-2	EOT, Valves & Expansion Bellows	Total 6% Weightage (Amount) of Accepted LS kW Based Rates
A-3	Sump Cleaning System, Pipes & Specials	Total 2.5% Weightage (Amount) of Accepted LS kW Based Rates
A-4	Electromagnetic Flow Meter	Total 1.5% Weightage (Amount) of Accepted LS kW Based Rates
B	ELECTRICAL EQUIPMENT & INSTRUMENTATION SYSTEM (55% WEIGHTAGE OUT OF TOTAL 100%)	
B-1	Transformers (Main & Auxiliary) with OLTS & RTCC Panels	Total 25% Weightage (Amount) of Accepted LS kW Based Rates
B-2	Two Pole Structure, Transformer Switchyard, Fencing etc.	Total 1% Weightage (Amount) of Accepted LS kW Based Rates
B-3	HV Switch Gear Panels (VCB)	Total 1% Weightage (Amount) of Accepted LS kW Based Rates
B-4	HV MCC Panels, FCMA Soft Starter Panels & 3.3 KV Fixed Capacitor Banks	Total 12.5% Weightage (Amount) of Accepted LS kW Based Rates

B-5	LV PDB, LDB, SDB and LV APFC Panels	Total 0.5% Weightage (Amount) of Accepted LS kW Based Rates
B-6	PLC – SCADA Instrumentation Panel – System with associated accessories viz. DC Battery, Battery Charger & Distribution Panel	Total 7.5% Weightage (Amount) of Accepted LS kW Based Rates
B-7	HV & LV Power & Control Cables, Cable Trays, Internal and External Lighting, Earthing System with all accessories	Total 6% Weightage (Amount) of Accepted LS kW Based Rates
B-8	All Miscellaneous Accessories, Loose Instruments, Safety Accessories, Computer Hardware with OWS, AC (Completion of entire project as per tender specifications on receipt of explicit certificate issued by DEE, P.H. Mechanical Sub Division, Gandhinagar). 01 No. of Computer system & 01 No. of Printer for PLC SCADA have to be supplied.	Total 1.5% Weightage (Amount) of Accepted LS kW Based Rates
	<b>All Mechanical–Electrical–Instrumentation Equipment shall have following three stages of payment viz. On completion of Supply, on completion of Erection/Installation &amp; on completion of Testing &amp; Commissioning as per weightage specified above</b>	
	<b>On Supply of Equipment at Site After Installation</b>	<b>75 % of Weightage (Amount)</b>
	<b>Erection of Equipment</b>	<b>15 % of Weightage (Amount)</b>
	<b>After Successful Testing &amp; Commissioning of Equipment (On Completion of Stipulated Trial Run)</b>	<b>10 % of Weightage (Amount)</b>
	<b>Total</b>	<b>100%</b>
<b>9</b>	<b>VALVE CHAMBER</b>	
	On completion work as per approved drawing	95% of Quoted rate
	After commission	5% of Quoted rate
	<b>Total</b>	<b>100%</b>
<b>10</b>	<b>ROU WORK</b>	
	After publishing 3(1) notification in gazette	20% of Quoted rate
	After publishing 6(1) notification in gazette	20% of Quoted rate
	After laying of pipeline & following all the procedure as per ROU ACT, producing necessary document of payment of compensation with NOC from farmer	30% of Quoted rate
	After entry of GWSSB in revenue records of concerned land survey number i.e. 7/12 & 8A	30% of Quoted rate
	<b>Total</b>	<b>100%</b>
<b>10</b>	<b>Operation and Maintenance</b>	

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	<p>Payment shall be made in monthly or quarterly instalment for particular year as per O&amp;M Schedule C.</p> <p>For Monthly Payment 1/12th of annual O&amp;M prices for the year as per price Schedule-C as per terms and condition of the tender.</p> <p>For Quarterly Payment 1/4th of annual O&amp;M prices for the year as per price Schedule-C as per terms and condition of the tender</p>
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