

Instrumentation work at various water sources, water distribution stations and main feeder line network of water works department of VMC (2nd Attempt).



VADODARA MUNICIPAL CORPORATION

**Office of Executive Engineer
Water supply Department**

Technical Bid

June-2026



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INVITATION FOR BID
(IFB)

NATIONAL COMPETITIVE BIDDING

1. The Executive Engineer, Water Works (Elec./mech.) Department, Vadodara Municipal Corporation invites bids for the works detailed in the table.

The bidders may submit bids for the following work.

TABLE

Pack. No.	Name of work	Approximate value of works (Rs.)	Bid security (Rs.)	Tender Fee (Rs.)	Period of completion	Class of Registration
1	2	3	4	5	6	7
1.0	Instrumentation work at various water sources, water distribution stations and main feeder line network of water works department of VMC (% Rate basis) (2nd Attempt).	4,36,80,377/- (Without GST)	8,73,600/-	10,000/-	15 Months (Excl. 1 Monsoon)	Appropriate

2. Prospective / Interested bidder may download the Bid Documents from website <https://tender.nprocure.com> free of cost till the Time and Date as mentioned in online NIT at website <https://tender.nprocure.com>.
3. However, Bidder who is submitting the Bid Online will have to pay the Bid Document Fee / Tender Fee through Demand Draft only of any Schedule Bank payable at Vadodara and in favor of Municipal Commissioner, Municipal Corporation, Vadodara. Once the Bid is received online, Bid Document / Tender Fee will not be refundable.

The Demand Draft for Bid Document / Tender fee and Demand Draft/ Bank Guarantee against Bid Security / EMD shall be submitted in electronic format through online (by scanning) while uploading the bid, this submission shall mean that bid document / tender fee and Bid Security / EMD has been received. Accordingly, the offer of only those shall be opened whose Bid Document / Tender Fee and Bid Security / EMD have been received electronically. However, for the purpose of realization of Demand Draft / Bank Guarantee bidder shall send the same in original through R.P.A.D. so as to reach to Executive Engineer, 2nd floor, room no.-210, Vadodara Municipal Corporation, Khanderao Market Building, Rajmahal Road, Vadodara-390001 on or before date & time as provided in NIT.

Penaltative action for not submitting original Demand Draft / Bank Guarantee along with hard copy to Executive Engineer / Tender Inviting Authority by bidder shall be initiated. Bidder will be abeyance from filling tender as per the VMC's circular.

4. Bids received online, will be opened on the time, date and place as specified in the online



NIT at website <https://tender.nprocure.com> in the presence of the bidders or their authorized representatives, who wish to remain present.

If the office happens to be closed on the day of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue.

5. A pre bid meeting will be held as per detail provided in NIT at office of The Executive Engineer, 2nd floor, room no.-210, Vadodara Municipal Corporation, Khanderao Market Building, Rajmahal Road, Vadodara-390001 to clarify the issues and to answer questions on any matter that may be raised at that stage as stated in clause 9.2 of 'instructions to Bidders' of the bidding documents.
6. Other Information is as under:
 - A. Agencies can prepare and edit their offers a number of times before the end of the tender submission date and time. After the tender submission date and time, the bidder cannot modify / edit / withdraw their submitted offer in any case. No written or online request in this regard shall be granted.
 - B. Price-bid Offers in physical form will not be accepted in any case.
 - C. Demand Draft purchased by the other than bidder and issued after the last date of submission of Bids, will not be considered or accepted.
 - D. The cost incurred by the contractor for this offer for clarification or attending discussion, conferences or site visits will not be reimbursed by the Employer or Engineer-in-Charge.
 - E. Conditional tender shall not be accepted.
 - F. Any changes, addition, alternation made in the prescribed form attached with tender are liable to be rejected.
 - G. Any change in format or conditional Bank Guarantee will not be accepted and the bidder will be considered non-responsive.
 - H. All the bidders are instructed to fill in information strictly in accordance with the format given in the checklist / qualification document / tender document.
 - I. It is mandatory for the bidders to supply each and every information as asked strictly in electronic format at appropriate places only.
 - J. Blank / insufficient information shall be treated as nil information and shall result in disqualification.
 - K. Even if the bidder has been qualified in a similar or larger size of project in the past, it shall not be deemed to be a ground / reason for not giving required information for this work / bid.



L. Information supplied for earlier projects shall not be considered while evaluation of this bid. The Government will not ask for any other information, unless it is found absolutely necessary by the competent authority.

M. If found necessary, the contractor will be intimated for negotiation,

Works following documents shall be submitted in electronic format through online by scanning and Hard copy of the same should be sent in original to the Tender opening authority through RPAD or Speed post, so as to reach the Executive Engineer on or before date & time as provided in NIT. Price bid shall be submitted in electronic format only through online.

- 1) Attach Original DD/Bank Guarantee for Earnest Money Deposit.
- 2) Attach Original DD for Tender fees.
- 3) True copies attested by self-attested of the original documents defining the legal status to the bidder/firm. Its structure and organization place of registration and principal place of the business shall be furnished.
- 4) The bidder/firm in the same name, must be well established, experienced contractors, having registered as an approved **“Class A or Equivalent”** contractor with VMC Local Govt. bodies/Govt./MES/State Govt./Semi Govt. or such Govt. organizations.

Note: The Qualified bidder must have VMC registration certificate of appropriate class within 30 Days after issue of Work Order. In case it is not done, the payment will not be processed.

- 5) Details of Technical & Supervisory personnel already employed by the firm work. The list of engineers shall be attached with their Designation, Qualification, Experience, Mobile Number & E-mail details.
- 6) Copy of certificates under labour act and P.F. Registration certificate.
- 7) Copy of GST Certificate with GST number.
- 8) Copy of Valid Electrical Contractor License issued by govt. authority
- 9) Bank solvency or financial resources including bank credits & other facilities available shall be 25 % of the tender amount.
- 10) Detail communication facilities like Office/Residence phone number and address, mobile number, fax number, E-mail address should be available with the bidder.
- 11) List of Ongoing work or partly completed work along with work order and other supporting documents.



- 12) Bidder has to submit list of work under arbitration/court case or any dispute. The bidder shall submit final/latest decision/status of arbitration/court case for all disputes and if it is found that the decision of dispute is against the bidder then such bidder is liable to disqualify even if other qualification criteria are met with.
- 13) Work completion certificate (Form 3A), work order and other supporting documents for PQ Criteria as per tender requirements.
- 14) CA certificate for Annual Avg. Turnover as per tender requirement.
- 15) List of Key plants, tools and machineries as per tender requirements.
- 16) Audited balance sheet and ITR as per tender requirements.
- 17) Bid capacity as per tender requirement along with work orders.
- 18) Site visit certificate.
- 19) Various affidavits and undertaking as per tender requirements.



SECTION - 1
INSTRUCTIONS TO BIDDERS (ITB)



Section 1: Instructions to Bidder

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A. GENERAL

1. Scope of Bid

- 1.1 The Employer (The Executive Engineer) invites bids for the works (as defined in these documents and referred to as ‘the works’) detailed in the table given in IFB. The bidders may submit bids for any or all of the works detailed in the table given in IFB.
- 1.2 The successful bidder will be expected to complete the works by the intended completion date specified in the Contract data.
- 1.3 Throughout these bidding documents, the terms ‘bid’ and ‘tender’ and their derivatives (bidder/ tenderer, bid / tender, bidding/ tendering, etc.) are synonymous.

2. Source of Funds

- 2.1 The expenditure on this project will be met from the grant.

3. Eligible Bidders

- 3.1 This Invitation for Bids is open to all eligible bidders.
- 3.2 All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a statement that the Bidder is neither associated, nor has been associated, directly or indirectly, with the consultant or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Project Manager for the Contract. A firm that has been engaged by the Employer to provide consulting services for the preparation or supervision of the works, and any of its affiliates, shall not be eligible to bid.

4. Qualification of the Bidder

- 4.1 All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary. The proposed methodology should include a program of construction backed with equipment planning and deployment duly supported with broad calculations and quality assurance procedures proposed to be adopted justifying their capability of execution and completion of work as per technical specifications, within stipulated period of completion.
- 4.2 Deleted
- 4.3 Deleted
- 4.4 Deleted

4.5 QUALIFICATION CRITERIA:

Experience of having successfully completed similar works during last 7(Seven) years ending last day of month previous to the one in which applications are invited i.e. from 2018-2019 to 2025-2026 should be either of the following: -

- Three similar completed works costing not less than the amount equal to 40% of the estimated cost **(Rs. 1,74,72,151/-)**
Or
- Two similar completed works costing not less than the amount equal to 50% of the estimated cost **(Rs. 2,18,40,189/-)**
Or
- One similar completed work costing not less than the amount equal to 80% of the estimated cost **(Rs. 3,49,44,302/-)**

Similar work means “SITC and/or refurbishment and/or maintenance and/or revamping work of ‘Instrumentation work with associated work’ or ‘Instrumentation work along with Electro-mechanical work’ related to Pumping Station and/or Treatment Plant” in Municipal Corporation / MES / Central / State / Semi Government organization and other such government organization.”

Copy of work order and completion certificate/Form 3A (Issued by competent authority) to be enclosed with the tender for experience else work experience will not be considered. Bidder to enclose supporting document (Issued by competent authority) which clearly indicate cost & Quantity of executed/Completed work/Item for above.

Experience of any work executed as a joint venture, as a subcontractor or by MOU will not be considered.

The Completed work/works costing will be considered exclusive of GST for the same.

- 4.5.1** Qualification will be based on Applicant’s meeting all the following minimum pass/fail criteria regarding the Applicant’s general and particular experience, personnel and equipment capabilities and financial positions, as demonstrated by the applicant’s responses in the forms attached to the letter of application (specified requirement for joint ventures are given under para 4.6 below) Subcontractors experience and resources shall not be taken in to account in determining the applicants compliance with the qualifying criteria

To qualify for more than one contract, the applicant must demonstrate having experience and resources sufficient to meet the aggregate of the qualification criteria for each contract given in paragraphs 4.5.4, 4.5.5 and 4.5.9 below

4.5.2 Base year and Escalation

The base year shall be taken as Current financial year

Following enhancement factors will be used for the costs of works executed and the financial figure to a common base value for works completed in India.

Year	Financial Year	Multiplying factor
Base year of inviting tender	2025-2026	1.00
-1	2024-2025	1.10
-2	2023-2024	1.21
-3	2022-2023	1.33
-4	2021-2022	1.46
-5	2020-2021	1.61
-6	2019-2020	1.77
-7	2018-2019	1.94

Applicant should indicate actual figures of costs and amount for the works executed by them without accounting for the above-mentioned factors.

In case the financial figures and value of completed works are in foreign currency the above enhanced multiplying factors will not be applied. Instead, the current market exchange rate (State Bank of India BC Selling rate as on the last date of submission of the bid) will be applied for the purpose of conversion of the amount in foreign currency into India rupees.

4.5.3. General Experience.

The Applicant shall meet with the following minimum criteria:

- (a) Average Annual Financial Turnover during the last 3 years, should be at least 30% of the estimated cost **(Rs. 1,31,04,113/-)**.
- ~~(b) Experience in successfully completing or substantially completing at least one contract of highway (road and / or bridge works) airport runway of at least 40 percent of the value of proposed contract within the last five years.~~

~~The works may have been executed by the applicant as prime contractor only or as a member of a joint venture or as a nominated sub-contractor. As subcontractor, he should have acquired the experience of execution of all major items of works under the proposed contract. In case a project has been executed by a joint venture, weight towards experience of the project would be given to each joint venture in proportion to their financial participation in the joint venture.~~

~~Substantially completed works means those works which are at least 90 % completed (only for Network Project) as on the date of submission (i.e. gross value of work done up to the last date of submission is 90 % or more of the original contract price) and continuing satisfactorily.~~



~~For these, a certificate from the employers shall be submitted along with the application incorporating clearly the name of the work, contract value, billing amount, date of commencement of works, satisfactory performance of the contractor and any other relevant information.~~

4.5.4. Personnel Capabilities.

Availability for his work of personnel with adequate experience as required; as per Appendix.

4.5.5. Equipment Capabilities

Based on the studies carried out by the Engineer, the minimum suggested major equipment to attain the completion of works in accordance with the prescribed construction schedule are shown in the Appendix.

The bidders should, however, undertake their own studies and furnish with their bid, a detailed construction planning and methodology supported with layout and necessary drawings and calculations to allow the employer to review their proposals. The numbers, types and capacities of each plant/equipment shall be shown in the proposals along with the cycle time for each operation for the given production capacity to match the requirements.

4.5.6. Financial Position

The Applicant should give undertaking that he has access to, or has available, liquid assets (aggregate of working capital, cash in hand and uncommitted bank guarantees) and / or credit facilities up to 25 percent of the value of the contract / contracts applied.

4.5.7. The audited balance sheets for the last five years should be submitted, which must demonstrate the soundness of the applicant's financial position, showing long – term profitability including an estimated financial projection for the next two years, If necessary, the employer will make inquiries with the applicant's bankers.

4.5.8. Litigation History

The Applicant should provide accurate information on any litigation or arbitration resulting from contracts completed or under execution by him over the last five years. A consistent history of awards against the Applicant or any partner of a joint venture may result in failure of the applicant.

4.5.9. Disqualification

Even though the applicants meet the above criteria, they are subject to be disqualified if they have:

Made misleading or false representation in the forms, statements submitted, and /



or Record of poor performance such as abandoning the work, rescinding of contract for which the reasons are attributable to the non – performance of the contractor; consistent history of litigation awarded against the applicant or financial failure due to bankruptcy. The rescinding of contract of a joint venture on account of reasons other than non – performance, such as Most Experienced partner of joint venture pulling out, court directions leading to breaking up of a joint venture before the start of work, which are not attributable to the poor performance of the contractor will, however, not affect the qualification of the individual partners.

#4.6 JOINT VENTURE: (Maximum 3 Members i.e. 1 Lead & 2 Others) (Applicable only for estimated project cost of 50 Crore and above)

4.6.1. Joint ventures must comply with the following requirement:

(a) Following are the minimum qualification requirements:

- I. The lead partner shall meet not less than 50 percent of all criteria given in para & 4.5.3 & 4.5.6 above. The joint venture must collectively satisfy the criteria of para 4.5.3 & 4.5.6 above. The experience of the other joint venture partners shall be considered if it is not less than 30 percent of the qualifying criteria in para 4.5.3 & 4.5.6 above.
 - II. Individually each member must satisfy the requirements of para 4.5.7 & 4.5.8 above.
- (b) Bid shall be signed so as to legally bind all partners, jointly and severally, and shall be submitted with a copy of the joint venture agreement providing the joint and several liabilities with respect to the contract.**

4.6.2. Qualification of a joint venture does not necessarily qualify any of its partners individually or as a partner in any other joint venture. In case dissolution of a joint venture, each one of the constituent firms may qualify if they meet all the qualification requirements, subject to the written approval of the Employer.

4.7. Bid Capacity.

Applicants who meet the minimum qualification criteria will be qualified only if their available bid capacity at the expected time of bidding is more than the total estimated cost of the works. The available bid capacity will be calculated as under:

Assessed Available Bid Capacity = (A*N*2-B), where

A = Maximum value of work executed in any one year during the last five years (updated to the price level of the year indicated in appendix) taking into account the completed as well as works in Progress.

B = Value at current price level of the existing commitments and ongoing works to be completed during the next (period of completion of work for which bids are invited); and



N = Number of years prescribed for completion of the works for which the bids are invited.

Note:- ~~In Case of joint venture, the available bid capacity will be applied for each partner to the extent of his proposed participation in the execution of the work.~~

4.8 Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- Made misleading or false representation in the forms, statements and Attachments the submitted in proof the qualification requirements; and / or Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delay in completion, litigation history, or financial failures etc.; and/ or
- Participated in the previous bidding for the same work and had quoted unreasonably high bid prices and could not furnish rational justification to the employer.

5. One bid per bidder

- 5.1. Each bidder shall submit only one bid for one package. A bidder who submits or participates in more than one bid ~~(other than as a subcontractor or in cases of alternatives that have been permitted or requested)~~ will cause all the proposals with the bidder's participation to be disqualified.

6. Cost of Bidding

- 6.1. The bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will in no case be responsible and liable for those costs.

7. Site Visit

- 7.1. The Bidder, at the Bidder's own responsibility and risk is encouraged to visit and examine the Site of work and its surrounding and obtain all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works.

The costs of visiting the site shall be at the Bidder's own expense.



B. BIDDING DOCUMENTS

8. Content of Bidding Documents

- 8.1 The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause 10:

Sr No	Section	Description
1	Invitation for Bid (IFB)	
2	Section -1	Instructions to Bidders
3	Section -2	Qualification Information
4	Section -3	Conditions of Contract
5	Section -4	Contract Data
6	Section -5	Technical specifications
7	Section -6	Form of Bid
8	Section -7	Bill of Quantities
9	Section -8	Securities and Other Forms

- 8.2 Technical bid is available online and all documents to be furnished by the bidder in compliance to the same will be prepared by him and furnished in two parts (refer clause 12).
- 8.3 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, and technical specifications, bill of quantities, forms, Annexes and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. **Pursuant to clause 26 hereof**, bids which are not substantially responsive to the requirements of the Bid Documents shall be rejected.

9. Clarification Bidding Documents

- 9.1 A prospective bidder requiring any clarification of the bidding documents may notify the Employer in writing or through E-mail at the Employer's address indicated in the invitation to bid. The Employer will respond to any request for clarification which he received earlier than 15 days prior to the deadline for submission of bids. Employer's response will be published on website including a description of the enquiry but without identifying its source.
- 9.2 Pre-bid meeting



- 9.2.1. The bidder or his official representative is invited to attend a pre-bid meeting which will take place at the address, venue, time and date as indicated in the appendix. Or send queries via email on or before Prebid
- 9.2.2. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 9.2.3. The bidder shall be required to submit any questions in writing or e-mail to reach the Employer not later than 03 days before the meeting.
- 9.2.4. Minutes of the meeting, including the question raised (Without identifying the source of enquiry) and the responses given will be published without delay on the tender website i.e. www.nprocure.com. Any modification of the bidding documents listed in sub-Clause 8.1 which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 10 and not through the minutes of the pre-bid meeting.
- 9.2.5. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

10. Amendment of Bidding Documents

- 10.1. Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.
- 10.2. Any addendum thus issued shall be part of the bidding documents. The Employer will assume no responsibility for the same.
- 10.3. To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may, at his discretion, extend as necessary the deadline for submission of bids, in accordance with Sub-Clause 20.2 below.

C. PREPARATION OF BIDS

11. Language of the Bid

11.1 All documents relating to the bid shall be in the English language.

12. Documents Comprising the Bid

12.1. The bid be submitted by the bidder (refer Clause 8.1) shall be in two separate parts:

Part I shall be named “Technical Bid” and shall comprise

- (i) Bid Security in the form specified in Section 8
- (ii) Qualification Information and supporting documents as specified in Section 2
- (iii) Certificates, undertakings, affidavits as specified in Section 2
- (iv) Any other information pursuant to Clause 4.5 of these instructions
- (v) Undertaking that the bid shall remain valid for the period specified in Clause 15.1

Part II shall be named “Financial Bid” and shall comprise

- (i) Form of Bid as specified in Section 6
 - (ii) Priced Bill of Quantities for items specified in Section 7
- 12.2. The Bidder shall submit the details / information pertaining to each part i.e. technical as well as financial and must be submitted online only.
- 12.3. Following documents will be deemed to be part of the bid.

Sr No	Section	Description
1	Invitation for Bid (IFB)	
2	Section -1	Instructions to Bidders
3	Section -2	Qualification Information
4	Section -3	Conditions of Contract
5	Section -4	Contract Data
6	Section -5	Technical specifications
7	Section -6	Form of Bid



8	Section -7	Bill of Quantities
9	Section -8	Securities and Other Forms

13. Bid Prices

13.1 The Contract shall be for the whole works as described in Sub-Clause 1.1, based on the priced Bill of Quantities submitted by the Bidder.

13.2 The bidder shall fill in rates and prices and line-item total (both in figures and words) for all items of the Works described in the Bill of Quantities along with total bid price.

(Both in figures and words). Items for which no rate or price is entered by the bidder will not be paid for by the Bill of Quantities.

13.3 All duties, taxes, and other levies **except GST** payable by the contractor under the contract, or for any other cause shall be included in the rates, prices and total Bid Price submitted by the Bidder. **(GST will be paid extra as per the prevailing GST rates at the time of billing)**

13.4 Deleted

13.5 The rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 47 of the Condition of Contract **(Irrespective of the time limit and Bid Amount)**

14. Currencies of Bid and Payment

14.1 The unit rates and the prices quoted by the bidder shall be entirely in Indian Rupees. All payments shall be made in Indian Rupees.

15. Bid Validity

15.1 Bids shall remain valid for a period of not less than 120 days after the deadline date for bid submission specified in Clause 20.

15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified period. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his security for a period of the extension, and in compliance with Clause 16 in all respects.

#16. Bid Security

16.1 The Bidder shall furnish, as part of his Bid, a Bid security in the amount as shown in column 4 of the table of IFB for this particular work. This Bid security shall be in



favor of Employer as named in Appendix and may be in one of the following forms;

- a. Bank Guarantee from any scheduled Indian bank, in the format given in Volume III. **(Bank Guarantee is applicable only for Bid Estimated Amount of 01 Crore and above)** and Bank Guarantee of Schedule and Private Banks shall be considered as per GoG Finance Department's Circular No. FD/MSM/e -file / 4/2024/2859/D. M. O. Date 01/05/2025 or as per their latest amendment.
162. Bank guarantees (and other instruments having fixed validity) issued as surety for the bid shall be valid for 45 days beyond the validity of the bid validity period specified in sub clause 15.1 employer shall not pay any interest and bid security of L2 will be given after work order /LOI to Lowest bidder. i.e. total validity of $120+45 = 165$ Days
163. Any bid not accompanied by an acceptable Bid Security and not secured as indicated in Sub-Clauses 16.1 and 16.2 above shall be rejected by the Employer as non-responsive.
164. The Bid Security of unsuccessful bidders will be returned within 28 days of the end of the bid validity period specified in Sub-Clause 15.1 except L2 Agency.
165. The Bid Security of the successful bidder will be discharged when the bidder has signed the Agreement and furnished the required Performance Security.
- 16.6. The bid Security may be forfeited
 - (a) If the Bidder withdraws the bid after Bid opening during the period of Bid validity.
 - (b) If the Bidder does not accept the correction of the Bid Price, if any or
 - (c) In the case of a successful Bidders, if the Bidder fails the specified time limit to
 - (i) Sign the Agreement; or
 - (ii) Furnish the requirement Performance Security.
 - (d) #If found necessary, the bidder will be intimated for negotiation, He will be intimated maximum three times within the validity period for negotiation, If contractor does not respond in time, his Bid Security (EMD) will be forfeited and his tender will be rejected. Punitive action will be taken on such contractors. (As per GoG R&B Dept's Gr. No. S/22/2017/6369/D, Dt.08/06/2018).

17. Alternative Proposals by Bidders.



- 17.1. Bidders shall submit offers that fully comply with the requirements of the bidding documents, including the conditions of contract (including mobilization advance or time for completion), basic technical design as indicated in the drawing and specifications. Conditional offers or alternative offers will not be considered further in the process of tender evaluation.

18. Format and Signing of Bid

- 18.1. The Bidder shall prepare documents comprising the bid as described in Clause 12 of these Instructions to bidder as the “Technical Bid “and “Financial Bid” in separate parts to be uploaded.

D. SUBMISSION OF BID

19. Deleted

20. Deadline for Submission of the Bids

- 20.1. Complete Bids must be received online by the Employer at the tender website specified above not later than the date indicated in appendix.
- 20.2. The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all right and obligation of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

21. Deleted

22. Modification and Withdrawal of Bids

- 22.1. Bidders may modify or withdraw their bids online before the deadline prescribed in Clause 20 or pursuant to Clause 23.
- 22.2. No bid shall be modified or withdrawn after the deadline for submission of Bid.
- 22.3. Withdrawal or modification of a bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in Clause 15.1 above or as extended pursuant to Clause 15.2 may result in the forfeiture of the Bid security pursuant to Clause 16.

23 Bid submission

- 23.1. Bidder to submit all PQ Documents online as well as Offline with sign & stamp. Do not submit price bid offline else Bid will be rejected.



E. BID OPENING AND EVALUATION

23. Bid Opening

- 23.1. The Employer will open all the Bids received including modifications made pursuant to Clause 22, in the presence of the Bidders or their representatives who choose to attend at time, date and the place specified in Appendix in the manner specified in Clauses 20 and 23.3, In the event of the specified date of Bid opening being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.
- 23.2. Deleted.
- 23.3. The “Technical Bid” shall be opened. The amount, form and validity of the bid security furnished with each bid will be announced. If the bid security furnished does not conform to the amount and validity period as specified in the invitation for bid (ref. Column 4 and paragraph 3), and has not been furnished in the form specified in Clause 16, the technical bid will not be opened.
- 23.4.
- (i) Subject to confirmation of the bid security by the issuing Bank, the bids accompanied with valid bid security will be taken up for evaluation with respect to the Qualification information and other information furnished in part I of the bid pursuant to Clause 12.1.
 - (ii) If required, the bidder will be asked in writing to clarify his Qualification Documents with respect to any required clarification.
 - (iii) The bidders will respond in not more than 7 days of issue of the clarification letter.
 - (iv) Immediately (usually within 3 or 4 days), on receipt of this clarification the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for consideration.
- 23.5. Deleted
- 23.6 At the time of opening of “Financial Bid”, the names of the bidders were found responsive in accordance with Clause 23.4(iv) will be announced. The bids of only these bidders will be opened. The responsive Bidders’ names, the Bid prices, the total amount of each bid, any discount and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening.
- 23.7 the time of opening of “Financial Bid”, the names of the bidders were found responsive in accordance with Clause 23.4(iv) will be announced. The bids of only these bidders will be opened. The responsive Bidders’ names, the Bid prices, the total amount of each bid, any discount, and such other details as the Employer may



consider appropriate, will be announced by the Employer at the opening.

23.8 In case bids are invited for more than one package, the order for opening of the “Financial Bid” shall be in order of Estimated amount of Bids from highest to lowest.

23.9 The Employer shall prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Sub-Clause 23.6.

24 Process to be Confidential

24.1 Information relating to the examination, clarification, evaluation, and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any effort by Bidder to influence the Employer’s processing of Bids or award decisions may result in the rejection of his Bid.

25. Clarification of Financial Bids

25.1. To assist in the examination, evaluation, and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by e-mail, but no change in the price or substances of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids.

25.2. Subject to sub-clause 25.1, no Bidder shall contact the Employer on any matter relating to his Bid opening to the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Employer, it should do so in writing.

25.3. Any effort by the Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decision may result in the rejection of the Bidders’ bid.

26. Examinations of Bids and Determination of Responsiveness

26.1 During the detail evaluation of "Technical Bid", the Employer will determine whether each Bid (a) meets the eligibility criteria defined in Clause 3 and 4; (b) has been properly signed; (c) is accompanied by the required securities and; (d) is substantially responsive to the requirements of the Bidding document. During the detailed evaluation of the “Financial Bid”, the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications, and drawings.

26.2 A substantially responsive “Financial Bid” is one which confirms all the terms, conditions and specifications of bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in



any substantial way, inconsistent with the Bidding documents, the Employer's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

263. If a "Financial Bid" is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

27. Deleted

28. Deleted

29. Evaluation and Comparison of Financial Bids

- 29.1. The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Sub-Clause 26.2.

29.2. Deleted.

- 29.3. The Employer reserves the right to accept or reject any variation or deviation. Variation and deviations and other factors, which are in excess of the requirements of the Bidding documents or otherwise result in unsolicited benefits for the Employer, shall not be taken in to account in Bid evaluation.

- 29.4. The estimated effect of the price adjustment conditions under Clause 47 of the Conditions of Contract, during the period of implementation of the Contract, will not be taken in to account in Bid evaluation.

- 29.5. If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract the Employer may require the Bidder to produce detailed consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 34 be increased at the expense of the successful /bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

- 29.6. A bid which contains several items in the bill of Quantities which are unrealistically priced low and which cannot be substantiated satisfactorily by the bidder may be rejected as non-responsive.

30. Deleted



F. AWARD OF CONTRACT

31. Award Criteria

31.1. Subject to Clause 32, the Employer will award the contract to the Bidder whose Bid has been determined.

- (i) to be substantially responsive to the Bidding documents and who has offered the lowest evaluated Bid Price; and
- (ii) to be within the available bid capacity adjusted to account for his bid price which is the lowest evaluation in any of the packages opened earlier than the one consideration.

In no case, the contract shall be awarded to any bidder whose available bid capacity is less than the evaluated bid price, even if the said bid is the lowest evaluated bid. The contract will in such cases be awarded to the next lowest bidder at his evaluation bid price.

32. Employer's Right to Accept any Bid and to Reject any or all Bids

32.1. Notwithstanding Clause 31, the Employer reserves the right to accept or reject any Bid, and to cancel the Bidding process and reject all Bids, at any time prior to the award of contract, without thereby incurring any liability to the affected bidder or Bidder or any obligation to inform the affected Bidder or Bidders of the grounds for the Employer's action.

33. Notification of Award and Signing of Agreement

33.1. The Bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the condition of contract called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

33.2. The notification of award will constitute the formation of the contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause.

33.3. The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and to the successful Bidder, within 28 days following the notification of award along with the Letter of Acceptance. Within 21 days of receipt, the successful Bidder will sign the Agreement and deliver it to the Employer.

33.4. Upon the furnishing by the successful Bidder of the Performance Security, the



Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

34. Performance Security

- 34.1. (A) Within 10 (Ten) days of receipt of Letter of Acceptance, the successful Bidder shall furnish to the Employer an irrevocable and unconditional guarantee from a Bank in the form set forth in Section 8 (the "Performance Security") for an amount equal to 5% (five percent) of its Contract Price (Capital Cost +GST). In case contractor fails to provide it within provided time period, deduction will be done at a rate of 6% p.a. In case of bids mentioned below, the successful Bidder, along with the Performance Security, Shall also furnish to the Authority an irrevocable and unconditional guarantee from a Bank in the same form given at Section 8 towards an Additional Performance Security (The "Additional Performance Security") for an amount calculated as under:
- (a) If the Contract Price offered by the Selected Bidder is lower than 10% but upto 20% of the Estimated Project Cost, then the Additional Performance Security shall be calculated @ 20% of the difference in the (i) Estimated Project Cost (as mentioned in Bid Document) - Minus 10% of the Estimated Project Cost and (ii) Contract Price offered by the selected Bidder.
 - (b) If the Contract Price offered by the Selected Bidder is lower than 20% of the Estimated Project Cost, then the Additional Performance Security shall be calculated @ 30% of the difference in the (i) Estimated Project Cost (as mentioned in Bid Document) - Minus 10% of the Estimated Project Cost and (ii) Contract Price offered by the selected Bidder.
 - (c) This Additional Performance Security shall be treated as part of the Performance Security.
- (B) The Performance Security shall be valid beyond 60(sixty) days of the Defects Liability Period and the Additional Performance Security shall be valid beyond 28 (twenty-eight) days of Project Completion Date.
- 34.2. If the performance security is provided by the successful Bidder in the form of a Bank Guarantee, it shall be issued either (a) at the Bidder's option, by a Nationalized/Scheduled Indian bank or (b) by a foreign bank located in India and acceptable to the Employer. As per GoG Finance Department's Circular No. FD/MSM/e-file/4/2023/0057/D.M.O. Date 21/04/2023 or as per their latest amendment.
- 34.3. Failure of the successful Bidder to comply with the requirement of Sub-Clause 34.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Bid Security.



35 Advance Payment and Security

- 35.1 The Employer will provide an Advance payment on the Contract Price as stipulated in the Conditions of Contract, subject to maximum amount, as stated in the Contract Data.

36. Deleted

37. Corrupt or Fraudulent Practices

- 37.1 The Employer will reject a proposal if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in completing for the contract in question and will declare the firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract with National Highways Authority of India/ State PWD and any other agencies, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in completing for the contractor, or in execution.
- 37.2 Furthermore, Bidders shall be aware of the provision stated in Sub- Clause 59.2 of the Conditions of Contract.



APPENDIX TO ITB

Clause Reference With respect to Section –I

1.	The Name of the Employer is	[Cl.1.1]
2.	The last Seven years.	
	Base Year 2025-2026	
	2024-2025	
	2023-2024	
	2022-2023	
	2021-2022	
	2020-2021	
	2019-2020	
	2018-2019	
3.	This Annual Financial Turnover Amount is Rs.....	[Cl.4.5.3 (a)]
4.	Value of Work is Rs. 4,36,80,377/- (without GST)	
5.	Deleted	
6.	The cost of electrical, Mechanical work is Rs.	
7.	The cost of water supply / sanitary works is Rs.	
8.	Liquid assets and / or availability of credit facilities is 25% of Estimated Cost	[Cl.4.5.6]
9.	Price level of the financial year 2025-26	[Cl. 4.5.2]
10.	The pre-bid meeting will take place at The Executive Engineer on date & time as per NIT.	[Cl. 9.2.1]
11.	The technical Bid will be intimated later after evaluation.	
12.	Address of the Employer: The Executive Engineer , Water Works Project, 2nd floor, room no.-210, Vadodara Municipal Corporation, Khanderao Market Building, Rajmahal Road, Vadodara-390001	
13.	Deleted	
14.	The bid should be submitted latest by As stated on online NIT	[Cl. 20.1 & 20.2]
15.	The bid will be opened at the office of the The Executive Engineer, Water works (Ele./Mech.) , As stated on online NIT	[Cl. 23.1]
16.	The Bank Draft in favor of Municipal Commissioner, Vadodara Municipal Corporation, Vadodara.	
17.	Deleted	
18.	Escalation factors (for the cost of works executed and financial figure to a common base value) for works completed	[Cl.4.5.2]



Year	Financial Year	Multiplying factor
Base year of inviting tender	2025-2026	1.00
-1	2024-2025	1.10
-2	2023-2024	1.21
-3	2022-2023	1.33
-4	2021-2022	1.46
-5	2020-2021	1.61
-6	2019-2020	1.77
-7	2018-2019	1.94



LIST OF KEY PLANT & EQUIPMENT TO BE DEPLOYED ON CONTRACT WORK

[Reference CL. 4.5.5]

The contractors shall also give a list of machineries in his possession and which they propose to use on the work.

Sr. No.	Plant or Machinery	Location	Age of Machinery (maximum 15 years)	Make	Capacity	Approximate Value	Remark
1	2(a)	2(b)	3	4	5	6	7



List of Key Personnel to be deployed on Contract Work

(Reference Cl. 4.5.4)

Employment of a qualified site Engineer by the Contractor.

The Contractor shall employ full-time technically qualified staff during the execution of this work as under: -

1. One graduate Engineers and three diploma engineers must comprise of one Electrical/Instrumentation, one mechanical and one civil Engineer **when cost of the work to be executed is more than Rs.50 lakhs.**
- ~~2. One graduate & two Diploma, Electrical/Instrumentation Engineers when the cost of the work to be executed is more than Rs.15 lakhs but less than Rs.50 lakhs.~~
- ~~3. Minimum one Diploma Civil Engineer when the cost of work is less than Rs.15 lakhs but more than Rs.5 lakhs.~~
- ~~4. Minimum two Diploma Civil Engineers for the work when the cost of work to be executed is less than Rs. 5 lakhs. The Engineer so employed for the Government work must have sufficient experience to handle the work independently. Such an Engineer shall have to stay at the site of work and he shall not be entrusted with other duty except this work.~~

In case the contractor or partner of the contractor firm is a Graduate Engineer in respective field, Employment of a separate Engineer will not be necessary provided that the Engineer partner himself attends the execution of the work on the site.

Within 15 days of issue of work-order the Contractor will have to furnish to the Engineer-in-charge of the work the Name, Qualifications, copy of marksheet, Colour Photograph and the appointment order issued such engineers engaged for this contract work. If 15 days after issue of work order such designated Site Engineers do not resume or do not remain present on site of work, the recovery at the rate of Rs.15000/Month per Engineer will be made from the bills/deposit/dues of the contractor. Such recovery shall be non-refundable.



SECTION - 2
QUALIFICATION INFORMATION



QUALIFICATION INFORMATION

The information to be filled in by the Bidder in the following pages will be used for the purpose of post qualification as provided for in Clause 4 of the Instruction to Bidders. This information will not be incorporated in the Contract.

1. For Individual Bidders

1.1 Constitution or legal status of Bidder (Attach Copy)

Place of registration _____

Principal place of business _____

Power of attorney of signatory of Bid (Attach)

1.2 ~~Total value of Civil engineering constructions~~ ~~2024-25~~
~~Work performed in the last Seven years~~ ~~2023-24~~
~~(in Rs. Lakhs)~~ ~~2022-23~~
_____ ~~2021-22~~
_____ ~~2020-21~~
_____ ~~2019-20~~
_____ ~~2018-19~~
_____ ~~2017-18~~

1.3.1 Work performed as prime contractor, ~~work performed in the past as a nominated sub-contractor will also be considered the sub-contract involved execution of all main items of work described in the bid documents, provided further that all other qualification criteria are satisfied (in the same name) on works of a similar nature over the last seven years** and in current year before the submission of the bid.~~

Project Name	Name of the Employer	Description of work	Contract No.	Value of contract (Rs. Crore)	Date of issue of work order	Stipulated period of completion	Actual date of completion*	Remark explaining reasons for delay & work Completed

*Attach certificate(s) from the Engineer(s)in-charge

** Immediately preceding the financial year in which bids are received.



#1.3.2 Quantities of work executed as prime contractor, work performed, in the past as a nominated sub-contractor, will also be considered provided the sub-contract involved execution of all main items of work described in the bid document, provided, further that all other qualification criteria are called (in the same name and style) in the last five years** and in current year before the submission of the bid.

Year	Name of the work	Name of the Employer	Quantity of work performed (Cum/MT)				Remarks* (indicate contract Ref)
			Cement Concrete (Including RCC & PCC)	Masonry	Earth Works	Bituminous Work	
2024-2025							
2023-2024							
2022-2023							
2021-2022							
2020-2021							

1.4 Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.

(A) Existing commitments and on-going works:

Description of works	Place & State	Contract No.	Name & Address of Employer	Value Contract (Rs. Cr)	Stipulated Period of Completion	Value of Works* remaining to be completed (Rs. Cr)	Anticipated of completion
1	2	3	4	5	6	7	8

*Attach certificate (s) from the Engineer(s) in-charge

** Immediately preceding the financial year in which bids are received.

1.5 Availability of key items of Contractors Equipment for carrying out the works (Ref. Clause 4.5.5). The Bidder should list all the information requested below.

Item of Equipment	Requirement		Availability Proposals			Remarks (from whom to be purchased)
	NO	Capacity	Owned/ Leased to be procured	Nos/. Capacity	Age/ Conditions	



- 1.6 Qualifications and experience of key personnel required for administration and execution of the contract. Attach biographical data. Refer also to Sub Clause 9.1 of the Conditions of Contract.

Position	Name	Qualification	Year of Experience (General)	Year of experience in the proposed position
Project Manager				
Etc.				

- 1.7 Proposed sub-contract and firms involved

Sections of the works	Value of Sub-Contractor	Sub-Contractor (Name & Address)	Experience in similar work

Attach copies of certificates on possession of valid license for executing water supply/ sanitary work/ building electrification works.

- 1.8 Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports (in case of companies/corporations), etc. List them below and attach copies.
- 1.9 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List them below and attach copied documents.
- 1.10 Name, address, and telephone, telex, and fax numbers of the Bidders bankers who



may provide references if contacted by the Employer.

1.11 Information on Litigation history in which the Bidder is involved.

Other Party (ies)	Employer	Cause of Dispute	Amount Involved	Remarks showing Present Status

1.12. Statement of compliance under the requirements of Sub Clause 3.2 of the instruction to Bidders. (Name of Consultant engaged for project preparations is *.....)

1.13 Proposed work method and schedule. The Bidder should attach descriptions, drawings and charts as necessary to comply with the requirements of the Bidding documents. (Refer ITB Clause 4.1)

1.14 Programme

2. Deleted

3. Additional Requirements

3.1 Bidders should provide any additional information required to fulfill the requirements of Clause 4 of the Instructions to the Bidders, if applicable.

(i) Affidavit

(ii) Undertaking



SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES

(CLAUSE 4.5.6 OF ITB)

BANK CERTIFICATE

This is to certify that M/s. _____ is a reputed company with a good financial standing.

If the contract for the work, namely _____ is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. _____ to meet their working capital requirements for executing the above during the contract period.

(Signature) Name of Bank

Senior Bank Manager Address of the Bank



AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s. _____
_____ have not abandoned any work of Government of Gujarat/Government of India/any Board or Corporation under Government of Gujarat/Government of India nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.
3. The undersigned hereby authorize(s) and request (s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding any (our) competence and general reputation.
4. The Undersigned understands and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department/Project implementing agency.

(Signed by an Authorized Officer of the Firm)

Title of Officer :.....

Name of Firm :.....

Date :.....



UNDERTAKING

I, the undersigned do hereby undertake that our firm M/s..... would invest a minimum cash up to 25% of the value of the work during implementation of the contract.

(Signed by an Authorized
officer of the firm)

Title of Officer :.....

Name of Firm :.....

Date :.....



SECTION - 3

CONDITIONS OF CONTRACT



Conditions of Contract

A	General	D.	Cost Control
1	Definitions	37	Bill of Quantities
2	Interpretation	38	Changes in the Quantities
3	Language and Law	39	Variations
4	Engineer's Decisions	40	Payments for Variations
5	Delegations	41	Cash Flow Forecasts
6	Communications	42	Payment Certificates
7	Sub-Contractors	43	Payments
8	Other Contractors	44	Compensations Events
9	Personnel	45	Tax
10	Employer's & Contractor Risk	46	Currencies
11	Employers Risks	47	Price Adjustment
12	Contractor's Risk	48	Retention
13	Insurance	49	Liquidated damages
14	Site Investigations Reports	50	Bonus
15	Queries about the Contract	51	Advance Payment
16	Contractors to Construct the works	52	Securities
17	The Works to be Completed By the Intended Completion Date	53	Deleted
18	Approval by the Engineer	54	Cost of Repair
19	Safety		
20	Discoveries	E.	Finishing the Contract
21	Possession of the Site	55	Completion
22	Access to the Site	56	Taking Over
23	Instructions	57	Final Account
24	Disputes	58	Operating and Maintenance manuals
25	Procedure for Disputes		
26	Deleted	59	Terminations
		60	Payment upon Terminations
B.	Time Control	61	Property
27	Programme	62	Release from Performance
28	Extensions of the Intended completion date		
29	Deleted	F.	Special Conditions of Contract
30	Delays Ordered by The	63	Labour
	Engineer	64	Compliance with labour regulations
31	Management Meetings	65	Arbitration
32	Early Warning		
C.	Quality Control		
33	Identifying Defects		
34	Tests		
35	Correction of Defects		
36	Uncorrected Defects		

CONDITION OF CONTRACT

A. GENERAL

- 1 Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meaning.
- **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid
 - **Compensation Events** are those defined in Clause 44 hereunder.
 - The **Completion Date** is the date of completion of the Works as certified by the Engineer in accordance with Sub Clause 55.1
 - The Contract is the contract between the Employer and Contractor to execute, complete and maintain the Works **till the completion of Defects Liability Period**. It consists of the documents listed in Clause 2.3 below.
 - The **Contract data** defines the documents and other information which comprise the Contract.
 - The **Contractor** is a person or corporate body whose Bid to carry out the Work has been accepted by the Employer.
 - The **Contractor's Bid** is the completed Bidding document submitted by the Contractor to the Employer and includes Technical and Financial Bids.
 - The **Contract Price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
 - **Days** are calendar days: **months** are calendar months.
 - The **Defects Liability Period** is the period named in the Contract Data and calculated from the Completion Date.
 - The **Employer** is the party who will employ the Contractor to carry out the Works.
 - **The Engineer** is the person named in the Contract Data (or any other competent person appointed and notified to the contractor to act in replacement of the Engineer) who is responsible for supervising the Contractor, administering the Contract, certifying payments due to the Contractor, issuing and valuing Variations to the Contract, awarding extensions of time, and valuing the Compensations Events.
 - **Equipment** is Contractor's machinery and vehicles brought temporarily to the site to construct the Works.
 - The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of

Acceptance.

- The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.
- **Materials** are all supplies, including consumables, used by the contractor for incorporation in the works.
- **Plant** is any integral part of the work which is to have mechanical, electrical, electronic or chemical or biological functions.
- The **Site** is the area defined as such in the Contract Data.
- **Site Investigation Reports** are those which were included in the Bidding documents and are factual interpretive reports about the surface and subsurface conditions at the site.
- **Specifications** means the Specifications of the works included in the Contract and any modification or addition made or approved by the Engineer.
- The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the works. It does not necessarily coincide with any of the Site Possession Dates.
- A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract which includes work on the Site.
- **Temporary Works** are works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.
- A **Variation** is an instruction given by the Engineer, which varies the Works. The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the Contract Data.

1. Interpretation

- 1.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter and the other way around. Heading have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about Conditions of Contract.
- 1.2 If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion date, and Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended

Completion date for the whole works)

1.3 The documents forming the Contract shall be interpreted in the following order of priority

- (1) Agreement
- (2) Letter of Acceptance, notice to proceed with works
- (3) Contractor's Bid
- (4) Contract Data
- (5) Conditions of Contract including Conditions of Contract
- (6) Specifications
- (7) Drawings
- (8) Bills of quantities and
- (9) Any other document listed in the Contract Data as forming part of the Contract.

2. Language and Law

- 2.1 The language of the Contract and the law governing the Contract are stated in the Contract Data.

3. Engineers Decisions

- 3.1 Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

4. Delegation

- 4.1 The Engineer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

5. Communications

- 5.1 Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

6. Sub-Contracting

- 6.1 The Contractor may subcontract any portion of work, up to a limit specified in contract data, with the approval of the engineer but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations. **Sub-contracting of supply or specific items of work is not allowed.**
- 6.2 The sub-contractor must be registered in appropriate class and category for the part of work to be subcontracted.

7. Other Contractors

- 7.1 The Contractor shall cooperate and share the site with other contractors, public



authorities, utilities and the Employer between the dates given in the Schedule of other Contractor. The Contractors shall as refer to in the Contract Data, also provide facilities and services for them as described in the Schedule. The employer may modify the schedule of other contractors and shall notify the contractor of any such modifications.

8. Personnel

- 8.1 The Contractor shall employ the key personnel named in the Schedule of Key Personnel as referred to in the Contract Data to carry out the functions stated in the Schedule or other personnel approved by the Engineer. The Engineer will approve any proposed replacement of key personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the Schedule.
- 8.2 If the engineer asks the Contractor to remove a person who is a member of the Contractor Staff or his work force stating the reasons the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

9. Employer's and Contractors Risks

- 9.1 The Employer carries the risk which these Contract states are Employer's risks, and the Contractor carries the risks which these Contracts states are Contractors risk.

10. Employer's Risks

- 11.1 The employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works, the risks of war, hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot commotion or disorder (unless restricted to the Contractor's employees), and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive.

11. Contractor's Risks

- 11.1 All risks of loss of or damages to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

12. Insurance

- 12.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start date to the end of the Defects Liability Period, in the amounts and deductibles stated in the Contract data for the following events which are due to the Contractor's risks:

- (a) Loss of or damage to the works, Plant and materials,
- (b) Loss of or damage to Equipment



(c) Loss of or damages of property (except the Works, Plant, Materials and Equipment) in connection with the Contract; and

(d) Personal injury or death.

12.2 Policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

12.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.

12.4 Alterations to the terms of an insurance shall not be made without the approval of the Engineer.

12.5 Both parties shall comply with any conditions of the insurance policies.

12.6 Contractor has to submit CAR policy for the project.

12.7 Hon. Supreme Court/High Court guideline as well as implementation of manual Scavenging Act & Rules (2013 including latest amendment) must be strictly followed by bidder for Drainage work for better safety workmen. all Work must be carried out by using safety equipment and by mechanical equipment by the bidder.

12.8 The Bidder will be responsible to pay minimum Rs.30 Lakhs in addition to the compensation paid by the Government in case of Death of Workman while execution of the work.

12.9 In case contractor fails to provide CAR policy and WC policy, VMC will get it and recover the premium of the same from the bill/SD. Also, penalty of 0.5% of contract value will be recovered from Bill/Sd.

13. Site Investigation Report

13.1 The Contractor in preparing the Bid shall rely on any site Investigation reports referred to in the Contract Data, supplemented by any information available to the Bidder.

14. Queries about the Contract data

14.1 The engineer will clarify queries on the Contract Data

15. Contractor to Construct the Works

15.1 The Contractor shall construct and install the works in accordance with the specification and Drawings.



16. The Works to be completed by the Intended Completion Date

- 16.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion date

17. Approval by the Engineer

- 17.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary works to the Engineer, who is to approve them if they comply with the Specifications and drawings.
- 17.2 The Contractor shall be responsible for design of temporary works.
- 17.3 The Engineer's approval shall not alter the contractor responsibility for design of the Temporary works.
- 17.4 The Contractor shall obtain approval of third parties to the design of the Temporary works where required.
- 17.5 All Drawings prepared by the Contractors for the execution of the temporary or permanent work are subject to prior approval by the Engineer before their use.

18. Safety

- 18.1 The Contractor shall be responsible for the safety of all activities on the Site.

SAFETY MEASURES

- a) The Contractor shall be responsible for the safety of all workmen and other persons entering or in the Works and shall take all measures necessary to ensure their safety to the approval of the Engineer's Representative.
- b) Provision of efficient safety helmets for all personnel including the Engineer's Representative and each of his staff and any authorised visitors to site;
- c) Provision and maintenance of suitable lighting to provide adequate illumination of Works with appropriate spares and standby equipment;
- d) Provision and maintenance of safe, sound mechanical equipment, each item of having an up-to- date testing certificates;
- e) Provision and maintenance of safe, sound ropes, slings, pulleys and other lifting tackle, each appliance having an up-to-date testing certificate where appropriate;
- f) Provision of notices 1.25m x 1.5 m size written in bold letters in English, Gujarati and Hindi to be erected on existing footpaths and at points of access likely to be used by the

public, which shall warn the public of the existence of the Works. These notices shall be in addition to any statutory requirements demanded of the Contractor.

- g) Provision of safety rails (wherever instructed by Engineer in charge)
- h) The Contractor shall submit for the approval of the Engineer's Representative detailed proposals under (a), above. When the regulations have been approved and before the work is started, the Contractor shall distribute copies in English or in their languages as appropriate to all his employees and to the Engineer's Representative.
- i) The Contractor shall ensure that all his employees are fully conversant with the regulation, emergency and rescue procedures etc. and the Contractor shall enforce the rule that any employee committing a serious breach of such a regulations shall be instantly dismissed and shall not be re-employed.
- j) Contractor shall provide and maintain at his own expenses all lights, guards, fencing and necessary watchmen when and where necessary or as required by Owner/Engineer for the protection of the works or for the safety and convenience of those employed on the works and the public.
- k) Contractor shall also provide at his cost traffic barricades, men for diverting and controlling traffic, necessary signboards for diversion of traffic, in night LED Blinkers LED rope Light near Excavated trench in the event of failure on the part of Contractor, Owner may with or without notice to Contractor put up a fence or improve a fence already put up or provide and/or improve the lighting or adopt such other measures as he may deem necessary, and all the cost of such work and procedures as may be adopted by Owner/Engineer shall be borne by Contractor. Maintenance of adequate warning and general lighting at nights at place of work is essential.
- l) Contractor shall take the necessary permission and clearance of all the authorities like department of Roads, Traffic, Water Supply and Drainage; Electricity Board, Telephone Company, etc. wherever necessary and observe the regulations regarding the execution of work in congested areas, heavy traffic areas, etc.

19. Discoveries

- 19.1 Anything of historical or other interest or of significant value unexpectedly discovered on the site is the property of the Employer. The contractor is to notify the engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

20. Possession of the Site

- 20.1 The Employer shall give possession of all parts of the site to the Contractor. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be a Compensation Event.



- 20.2 If within 25% of the time limit of the project, 80% of possession of the site is not handed over to the Contractor, then contractor/ Employer may fore-close the contract. Contractor/Employer has to foreclose the work within 30 days after lapse of 25%-time limit and after 30 days foreclosure option will be closed.

21. Access to the Site

- 21.1 The Contractor shall allow the Engineer and any person authorized by the Engineer access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plants are being manufactured/ fabricated/ assembled for the works.

22. Instructions

- 22.1 The Contractor shall carry out all instructions of the Engineer pertaining to works which comply with the applicable laws where the site is located.
- 22.2 The Contractor shall permit the Employer to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Employer, if so required by the Employer.

23. Disputes

- 23.1 If the Contractor is of the view that a decision taken by the Engineer was either outside the authority given to the Engineer by the Contract or that the decision was wrongly taken, the decision

(A) Should be referred to as Designated and defined officer as Dy.MC/HOD/CE/ACE of repetitive Department and also as per GAD circular No.498/98-99/Dt.07.07.98 with revision time to time in future.

(B) In case disputes remains unsolved it shall be refer to Municipal Commissioner.

- 23.2 Procedure for Disputers

- 23.3 25.1 The arbitration shall be conducted in accordance with the arbitration procedure stated in the Special Conditions of Contract.

24. Deleted

25. Deleted

B. TIME CONTROL

26. Programme

- 26.1 Within the time stated in the Contract Data the Contractor shall submit to the Engineer for approval a Programme showing the general methods, arrangements orders, and timing for all the activities in the works along with monthly cash flow forecast.
- 26.2 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.
- 26.3 The Contractor shall submit to the Engineer, for approval an updated programme at intervals no longer than the period stated in the Contract data. If the Contractor does not submit an updated programme within this period, the Engineer may withhold the amount stated in the Contract data from the next payment after the date on which the overdue programme has been submitted.
- 26.4 The Engineer's approval of the programme shall not alter the Contractor's obligations. The Contractor may revise the programme and submit it to the Engineer again at any time. A revised programme is to show the effect of Variations and Compensations events.

27. Extension of the Intended Completion Date

- 27.1 The Engineer shall extend the Intended Completion Date if a compensation Event occurs or a Variation is issued which makes it impossible for completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work and which would cause the Contractor to incur additional cost.
- 27.2 The Engineer shall decide whether and by how much stoppage to provided/ to extend the Intended Completion Date within 35 days of the Contractor asking the Engineer for a decision upon the effect of a compensation event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.
- 27.3 The Engineer shall within 14 days of receiving full justification from the contractor for extension of Intended Completion Date refer to the Employer his decision. The employer shall in not more than 21 days communicate to the engineer the acceptance or otherwise of the Engineer's decision. If the employer fails to give his acceptance, the Engineer shall not grant the extension and the contractor may refer the matter under Clause 24.1

28. Deleted



29. Delays Ordered by the Engineer

- 29.1 The Engineer may instruct the Contractor to delay the start or progress of any activity within the works.

30. Management Meetings

- 30.1 Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
- 30.2 The Engineer shall record the business of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken is to be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

31. Early Warning

- 31.1 The Contractor is to warn the Engineer at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract price or delay the execution of works. The Engineer may require the contractor to provide an estimate of the expected effect of the future event or circumstance on the contract price and completion date. The estimate is to be provided by the Contractor as soon as reasonably possible.
- 31.2 The Contractor shall cooperate with the Engineer in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer.



C. QUALITY CONTROL

33. Identifying Defects/ Defect liability period

33.1 Defect liability period: 12 Months

The contractor shall be responsible to make good and remedy at his own expense any defect which may develop or may be noticed before the period mentioned here under from the certified date of completion. The Engineer in charge shall give the contractor a notice in writing about the defects and the contractor shall make good the same within 15 days of receipt of the notice. In the case of failure on the part of the contractor, the Engineer- in-charge may rectify or remove or re-execute the work at the risk & cost of the contractor. The Engineer-in-charge shall be entitled to appropriate the whole or any part of the amount of security deposit towards the expenses, if any, Incurred by him in rectification, removal or re-execution. The Defects Liability period shall be as under

The defect liability period shall of duration mentioned in contract data and shall start from date of final completion of entire work and acceptance of work by VMC. During defect liability period, the Contractor shall make good any defect whatsoever nature observed in different works equipment, or in part of plant or equipment by modifying/replacing/repairing of such defective units or parts there at his own cost within a period of ten days on hearing from Engineer-in-charge/VMC about such defect during liability period. In case, if Contractor's fails to do so, it will be got done by VMC and entire cost shall be recovered from Contractor's Security deposit/performance guarantee or other dues as may be possible.

For said work, the period shall be 12 Months from the certified date of completion.

- ~~(a) For all works costing up to Rs. 50,000 (amount put to tender), the period shall be 3 Months from the certified date of completion.~~
- ~~(b) For all works costing more than Rs. 50,000 and up to Rs. 1 crore (amount put tender), the period shall be 12 (Twelve) months from the certified date of completion or one monsoon, whichever is later.~~
- ~~(c) For major projects costing more than Rs. 1 crore, the period shall be 36 Months from the certified date of completion which should include three monsoons.~~
- ~~(d) For original building works the defect liability period will be 4 years or elapse of 4 monsoon period following date of possession of building taken over by user agency following the certified date of completion, whichever is later.~~

For the purpose of deciding the monsoon period, as per government circular.

Modified vide R & B D Circular No. PAC-11-102008-2076-N dated 31/8/2009, PRCH/102013(2976) 2759-N, Dated 27/05/2013 and Circular No.TNC/10/2016/Clause 17A (Correction/(1)C Dated 12/05/2016]



33.2 Free maintenance guarantee period for works of Road/Bridge construction

- ~~(a) For resurfacing work of road free maintenance guarantee period one year from the date of completion.~~
- ~~(b) In case of widening of the road/strengthening of the road/bridge, the contractor shall have to give four years free maintenance guarantee from the certified date of completion. During this period the contractor shall visit the site every six months along with the concerned Section Officer / Deputy Executive Engineer and will examine the work already carried out in this contract like road work, jungle cutting, side shoulders, side gutter, road furniture, patta etc. and will prepare Km. wise inspection report duly signed by all concerned and any defect observed shall be done within 15 days by the contractor at his risk and cost as per the direction of Engineer in charge. The contractor needs to do videography of these visits and require to submit at the time of release of FMG. If B.T. the surface during the maintenance period of 4 years is worn out then agency shall have to provide renewal coating as per tender item as directed by the Engineer in charge. The amount equivalent to 5% of each running bill shall be withheld and will be released after the free maintenance guarantee period (i.e. 4 years) is over.~~

~~However, this amount shall be released against fixed deposit or bank guarantee pledged in the name of Executive Engineer after completion certificate of work is issued.~~

- ~~(1) The flakiness and elongation index (combined) for coarse aggregates under no circumstances shall exceed the allowable limit set forth in the relevant clause for the material in question.~~
- ~~(2) 2% of the amount eligible for the payment of bituminous items shall be withheld till the miscellaneous items like earthwork in embankment / cutting for side shoulders, side gutters, kilometer / indicator / guard stones, sign boards etc. are completed in all respect by the contractor. After completion of the miscellaneous items, the above said 2% withheld amount shall be released.~~

~~(Govt. of Gujarat's G.R. No.: TNC 10 2013 3(Part 3)/C, Dtd. 13/12/2013).~~

- ~~(3) Videography for the surface under Maintenance Guarantee is to be done as per Govt. letter No.: SSR/10/2015 16/26/C, Dtd. 26/11/15 for the work costing more than Rs. 5.00 Crore.~~
- ~~(4) Setting up of adequate laboratory & deployment of quality engineers.~~

~~The contractor shall have to set up the laboratory with adequate equipment. Till the setting up of adequate laboratory is completed & reported of this to the engineer (subject to due verification by engineer's representative) by contractor in writing, Rs.2,00,000/- shall be withheld. The qualified quality Engineer shall be deployed exclusively for this contract by the contractors. If quality Engineer is not deployed by~~



~~contractor within one month after the date of work order, the amount equivalent to Rs.20,000 per month shall be recovered till the actual deployment of quality engineer. The amount so recovered towards the deployment of quality engineers shall not be refunded.~~

~~(5) Asphalt work will have to be cross checked as per G.R. No.: RGN/60/2006/35/C, dtd.31/05/07 before final bill is paid.~~

~~(6) Maintenance during Construction Period~~

~~During the Construction Period, the Contractor shall maintain, at his own risk and cost, the existing lane(s) of the road so that the traffic worthiness and safety thereof are at no time materially inferior as compared to their condition 10 (ten) days prior to the date of the Agreement, and shall undertake the necessary repair and maintenance works for this purpose; provided that the Contractor may, at his cost, interrupt and divert the flow of traffic if such interruption and diversion is necessary for the efficient progress of works and conforms to Good Industry Practice; provided further that such interruption and diversion shall be undertaken by the Contractor only with the prior written approval of the Executive Engineer which approval shall not be unreasonably withheld. For the avoidance of doubt, it is agreed that the Contractor shall at all times be responsible for ensuring safe operation of the road.~~

33.3 The Engineer shall check the Contractor's work and notify the Contractor of any defects that are found. Such checking shall not affect the Contractor's responsibilities the Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

34. Tests

34.1 If the engineer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect the test shall be a Compensation Event.

34.2 All test and types of tests to be performed as per IS specifications and instruction of EIC. In case if it is not done or up to the mark by bidder, 1% deduction form the work done in particular RA bill should be done.

34.3 Testing shall be done by collecting samples from site in Govt. approved testing laboratory 10% of total Quantity in M.S.U. or GERI at the cost of the contractor. The Contractor has to deposit the testing fee for TPI as per rules separately.

34.4 THIRD PARTY INSPECTION

All the Major Items Like Pressure transmitter, Flow meter, Bellow, Butterfly valve, Level transmitter, PH/Chlorine/Turbidity Analyzer, PLC Panel, LOH-ROF, All Cables (In case of Individual Cable's Cumulative Qty >= 500 Mtr.), Cable tray (In case of Individual



Tray's Cumulative Qty ≥ 500 Mtr.) shall be subjected to third party inspection as stated in technical specifications from approved TPI Agency by VMC at manufacturer's place as well as at VMC's work site with their test certificates satisfying the IS requirements. Third party inspection charges for all above material shall be borne by the contractor.

If VMC/ PMC/ TPI Engineers intend to witness the testing at manufacturer's works Entire expenses of said testing, including to & from traveling by Air, lodging and boarding etc. of maximum Two VMC/ PMC Engineers and 1 Third Party Inspector shall be borne by the bidder.

During TPI, the PMC representative must be from relative field only for all the item whose inspection is being carried out.

All the Material Test certificate provided by OEM for all the Item must be tested from NABL accredited LAB or as decided by EIC.

35. Correction of defects

- 35.1 The engineer shall give notice to the Contractor of any defects before the end of the defects Liability Period, which begins at Completion and is defined in the contract data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 35.2 Every time notice of a Defect is given; the Contractor shall correct the notified defect within the length of time specified by the Engineer's notice.

36. Uncorrected Defects

- 36.1 If the Contractor has not corrected a defect within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.



D.COST CONTROL

37. Bill of Quantities

- 37.1 The bill of Quantities shall contain items for the constructions, installation, testing and commissioning work to be done by the Contractor.
- 37.2 The bill of Quantities is used to calculate the Contract price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item.

38. Change in the Quantities

- 38.1 The Engineer shall have power to make any alterations in or addition to the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work and the contractor shall be bound to carry out the work in accordance with any instruction in this connection which may be given to him in writing signed by the Engineer and such alteration shall not invalidate the contract and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work and at the same rate as are specified in the tender for the main work.

Except that when the quantity of any item exceeds the quantity as in the tender by more than 130%, the contractor will be paid for the quantity in excess of 130%, at the rate entered in the SOR of the year during which the excess in quantity is first executed.

39. Variations

- 39.1 All Variations shall be included in updated programmes produced by the Contractor.

40. Payments for Variations

- 40.1 If the additional or altered work includes any class of work for which no rate is specified in this contract, then such class of work shall be carried out as under.
- (i) At the rate derived from the item within the contract which is comparable to the one involving additional or altered class of work; where there are more than one comparable items, the item of the contract which is nearest in comparison with regard to class or classes of the work involved shall be selected and the decision of the Add. City Engineer as to the nearest comparable item shall be final and binding on the contractor.
 - (ii) If the rate cannot be derived in accordance with (i) above, such class of works shall be carried out at the rate entered in the Schedule of Rates of the division

for the year in which the tender was received, increased or decreased by the percentage by which the tender amount is more or less as compared to the amount

arrived at the rates in the "Schedule of Rates" of the Division in the year in which the tender was received. If the Schedule of rates of the Division does not contain all the items, the percentage increase or decrease of the tender shall be calculated considering such items which were included in the "Scheduled Rates" of the division for the year and for materials consumed on such item the rate to be charged would be the basic rate taken into account for fixing the rate in S.O.R. referred to above.

- (iii) If it is not possible to arrive at the rate from (i) and (ii) above, such class of work shall be carried out at the rate decided by the competent authorities on the basis of detailed rate analysis after hearing the contractor as per powers delegated to VMC officials.

402 If the additional or altered work, for which no rate is entered in the "Schedule of Rates" of the Division is ordered to be carried out before the rate is agreed upon, then the contractor shall within seven days of the date of receipt by him of the order to carry out the work, inform the Engineer-in-charge of the rate, which it is his intention to charge for such class of work and if the Engineer in charge does not agree to this rates, he shall by notice in writing be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner as he may consider it advisable, provided always that if the contractor shall commence work or incur any expenditure in regard thereof before the rates shall have been determined as lastly herein before mentioned, then in such cases he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-charge. In the event of the dispute, the decision of the Add. City Engineer, HOD of the Water Works Department shall be final.

Where, however, the work is to be executed according to the designs, drawings and specifications recommended by the contractor and accepted by the competent authority, the alternation above referred to shall be within the scope of such designs, drawings and specifications appended to the tenders.

The time limit for the completion of the work shall be extended in the proportion that the increase in the cost occasioned by alterations bears to the cost of the original work and the certificate of the Engineer-in-charge as to such proportion shall be final and conclusive.

41. Cash Flow Forecasts

41.1 When the programme is updated, the contractor is to provide the engineer with an updated cash flow forecast.

42. Payment certificates.

42.1 The Contractor shall submit to the Engineer monthly statements of the estimated value of the work completed less the cumulative amount certified previously.

42.2 The Engineer shall check the Contractor's monthly statement within 14 days and



certify the amount to be paid to the Contractor after taking in to account any credit or debit for the month in question in respect of materials for the works in the relevant amounts and under conditions set forth in sub-clause

32.3 of the Contract Data (secured Advance).

- 423 The value of work executed shall be determined by the Engineer.
- 424 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 425 The value of work executed shall include the valuation of variations and compensation events.
- 426 The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information

43. Payments

- 43.1 Payments shall be adjusted for deductions for advance payments, retention, other recoveries in terms of the contract and taxes at source, as applicable under the law. The Employer shall pay the Contractor the amounts certified by the Engineer within 28 days of the date of each certificate.
- 43.2 Payment of GST (prevailing rates) on the amount payable under the contract to the Contractor will be made by the Employer. Hence, it is the responsibility of the contractor to pay the GST to the concerned Authority.
- 43.3 Items of the works for which no rate or price has been entered in will not be paid by the Employer and shall be deemed covered by other rates and prices in the Contract.

- Payment Condition as per payment schedule.

	Description	% of quoted price of particular equipment
1	On supply of material at site	75 %
2	On completion of Installation, testing & commissioning of Respective Item	15 %
3	On Completion of Entire work	10 %

44. Compensation events

- 44.1 The following are compensation Events unless they are caused by the Contractor:
- (a) The Employer does not give access to a part of the Site by the site Possession date stated in Contract data to the Contractor



44.2 In case of compensation event occurs and it prevents the work being completed beyond the Intended Completion Date then Authority will approve EOT (Extension of Time) with eligible contractual price escalation.

45. Tax

45.1 The rates quoted by the Contractor must be inclusive of all taxes prevailing on due date of bid submission **except GST**. However, any subsequent changes in the tax structure by Government after due date of bid submission will be compensated (+/-) on availability or submission of actual documentation. Contractor will have to intimate Engineer regarding changes occurred in the tax structure after bid submission. If the contractor fails to provide such information and if any financial obligation may arise due to change in tax structure, same will be recovered from the contractor.

45.2 GST will be paid separately on the bills. Hence, it is the responsibility of the contractor to pay the GST to the concerned Authority.

46. Currencies.

46.1 All payment shall be made in Indian Rupees.

47. Price Adjustment

47.1 Contract price shall be adjusted for increase or decrease in rates and price of ~~labour~~, materials (Cement, Steel, HR Coil & Pig Iron), ~~fuels and lubricants~~ in accordance with the following principles and procedures and as per formula given in the contract data:

(a) The price adjustment shall apply for the work done from the start date given in the contract data up to end of the initial intended completion date or extensions granted by the Engineer and shall not apply to the work carried out beyond the stipulated time for reasons attributable to the contractor.

(b) The price adjustment shall be determined during each month from the formula given in the contract data.

(c) Following expressions and meanings during to the work done during each month

R = Total value of work done during the month. It would include the amount of secured advance granted, if any, during the month less the amount of secured advance recovered, if any during the month. It will exclude value for works executed under variations for which price adjustment will be worked separately based on the terms mutually agreed.

47.2 To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clause in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.



48. Retention

- 48.1 The Employer shall retain from each payment due to Contractor the proportion stated in the Contract Data until Completion of the whole of the Works.
- 48.2 On Completion of the whole of the Works half the total amount retained is repaid to the Contractor and half when the Defects Liability Period has passed and the Engineer has certified that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected.
- 48.3 On completion of the whole works, the contractor may substitute retention money with an “on demand” Bank guarantee.

In case, Contractor requests for refund of the Retention Money deducted by the Employer under the provision of this clause, Employer shall consider the said request of the Contractor provided that the refund hereunder shall be made in tranches of not less than 1% (One Percent) of the Contract Price and Contractor furnishes an irrevocable and unconditional Bank guarantee for an equal amount substantially in the format of Bank Guarantee for Performance Guarantee enclosed with SBD and valid up to 60 day beyond the scheduled / extended Defects Liability Period. On completion of the whole works, the contractor has however an option to submit a fresh irrevocable and unconditional Bank Guarantee for an amount equal to 2.5% of the total value of work executed substantially in the format of Bank Guarantee for Performance Guarantee enclosed with SBD and valid up to 60 days beyond the Defect Liability Period and yet refund the Retention Money Bank Guarantee submitted for refund of Retention Money.

49. Liquidated Damages

- 49.1 The Contractor shall pay liquidated damages to the Employer at the rate of 0.05% of total contract value for each day that the Completion Date is later than the Intended Completion Date (for the whole works or the milestone as stated in the contract data). The total amount of liquidated damages shall not exceed the 10% of the total contract amount. The Employer may deduct liquidated damages from payment due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.
- 49.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall not be entitled for any interest on the over payment calculated from the date of payment to the date of repayment.
- 49.3 If the contractor fails to comply with the time for completion as stipulated in the tender, then the contractor shall pay to the employer the relevant sum stated in the Contract Data as Liquidated damages for such default and not as penalty for everyday or part of day which shall elapse between relevant time for completion and the date stated in the taking over certificate of the whole of the works on the relevant section,



subject to the limit stated in the contract data.

The employer may, without prejudice to any other method of recovery deduct the amount of such damages from any monies due or to become due to the contractor. The payment or deduction of such damages shall not relieve the contractor from his obligation to complete the works on from any other of his obligations and liabilities under the contract.

- 49.4 If, before the Time for Completion of the whole of the Works or, if applicable any Section, a Taking Over Certificate has been issued for any part of the Works or of a Section, the liquidated damages for delay in completion of the remainder of the Works or of that Section shall, for any period of delay after the date stated in such Taking-Over-Certificate, and in the absence of alternative provisions in the Contract, be reduced in the proportion which the value of the part so certified bears to the value of the whole of the Works or Section, as applicable. The provisions of this Sub-clause shall only apply to the rate of liquidated damages and shall not affect the limit thereof.

50 — Bonus

- 50.1 ~~If the contractor achieves completion of the whole of the works prior to the intended Completion Date prescribed in Contract Data the Employer shall pay to the contractor a sum stated in Contract Data as bonus for every completed month but subjected to maximum amount as stated in Contract Data; which shall elapse between the date of completion of all items of works as stipulated in the contract, including variations ordered by the Engineer and the time prescribed in Clause 17.~~
- 50.2 ~~Bonus shall be paid only to works amounting to above INR 5 crore with time limit of the works is equal or more than 6 months. The bonus would be paid as under~~

% of Time Saved	% of Initial Contract Price- entitled for Bonus
50 %	5%
40 %	4%
30 %	3%
20 %	2%
10 %	1%
Less than 10%	0%

51. Advance Payment.

- 51.1 The Employer shall make advance payment (not to be paid less than two installments except in special circumstances for which the reason to be Recorded in writing) to the Contractor of the amounts stated in the Contract Date by the date stated in the Contract Date, against provision by the Contactor of an Unconditional Bank Guarantee

in a form and by a bank acceptable to the Employer in amounts and currencies equal to be at least 110% of the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. The Mobilization advance would be deemed as interest bearing advance at an interest rate of 10 % to be compounded, quarterly.

512 The Contractor is to use the advance payment only to pay for Equipment, plant and Mobilization expenses required specifically for execution of the Works. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the engineer.

513 The advance payment shall be repaid by deduction proportionate amount from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, variations, price adjustments, Compensation Events, or Liquidated damages.

514 Deleted

52. Securities

521 The performance Security (including additional security for unbalanced bids) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer, and denominated in Indian Rupees. The performance Security shall be valid until a date 60 days from the date of expiry of Defects Liability Period and the additional security for unbalanced bids shall be valid until a date 28 days from the date of issue of the certificate of completion.

53. Deleted

54. Cost of Repairs.

54.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start date and the end of Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damages arises from the Contractor's acts or omissions.



E. FINISHING THE CONTRACT

55. Completion

- 55.1 The Contractor shall request the Engineer to issue a Certificate of Completion of the works and the Engineer will do so upon deciding that the work is completed.

56. Taking Over

- 56.1 The Employer shall take over the Site and the Works within seven days of the Engineer issuing a certificate of Completion.

57. Final Account

- 57.1 The Contractor shall supply to the Engineer a detailed final account of the total amount that the Contractor considers payable as full and final settlement of all claims under the Contract for items before the end of the Defects Liability Period. The Engineer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate, within 56 days of receiving the Contractor's revised account.
- 57.2 If reversal in characteristic of tender (L1 becoming L2) on account of excesses and savings in final account is observed, the Engineer/Employer shall be at liberty to restrict the final payment of BOQ items to the lowest amount evaluated of the bids considering the final quantities and the rates quoted including the rebates if any. Payment of variation items shall however be made at the rates approved by the Employer, within 90 days from the physical completion of work.

58. Operating and Maintenance Manuals

- 58.1 If "as built" drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract data.
- 58.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

59. Termination

- 59.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 59.2 Fundamental breaches of Contract include, but shall not be limited to the following:



1. The contractor stops work for 28 days when no stoppage of work is shown on the current programme and the stoppage has not been authorized by the Engineer
2. The Engineer instructs the Contractor to delay the progress of the Works and the instructions is not withdrawn within 28 days;
3. The Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstructions or amalgamation
4. A payment certified by the Engineer is not paid by the Employer to the Contractor within 56 days of the date of the Engineer's certificate
5. The Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
6. The Contractor does not maintain a security which is required;
7. The Contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined in the Contract data; and
8. If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this paragraph: "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

593 When either party to the Contract gives notice of a breach of contract to the Engineer for a cause other than those listed under Sub Clause 59.2 above, the Engineer shall decide whether the breach is fundamental or not.

594 Notwithstanding the above, the employer may terminate the Contract for convenience.

60. Payment upon Termination

60.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a Certificate for the value of the work done less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer



exceeds any payment due to the Contractor the difference shall be a debt payable to the Employer.

- 602 If the Contract is terminated at the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Engineer shall issue a certificate for the value of the work done, the cost of balance material brought by the contractor and available at site, the reasonable cost of removal of equipment, repatriation of the Contractor's personnel employed solely on the works, and the Contractor's cost of protecting and securing the Works and less advance payment received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to deducted at source as per applicable law.

61. Property

- 611 All materials on the Site, Plant Equipments, Temporary Works and Works are deemed to be property of the Employer, if the Contract is terminated because of a Contractor's default.

62. Release from Performance

- 621 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made.

F. SPECIAL CONDITIONS OF CONTRACT

63. LABOUR

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment of housing, feeding and transport.

The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the site and such other information as the Engineer may require.

64. COMPLIANCE WITH LABOUR REGULATIONS

During continuance of the contract, the Contractor and his sub- contractor shall abide at all times by all existing labour enactments and rules made thereunder, regulations, notification and bye laws of the State or central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notifications that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to the construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made thereunder, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have the right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point to time.

SALIENT FEATURES OF SOME MAJOR LABOUR AND OTHER LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTIONS WORK

- A) **Workmen Compensation Act 1923** :- The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- B) **Payment of Gratuity Act. 1972** :- Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years' service or more on death, the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.

- C) **Employees P.F. and Miscellaneous Provision Act 1952:-** The Act Provides for monthly contributions by the employer plus workers @ 10% or 8.33% The benefits payable under the Act are :
1. Pension or family pension on retirement or death, as the case may be.
 2. Deposit linked insurance on the death in harness of the worker.
 3. Payment of P.F. accumulation on retirement/death etc.
- D) **Maternity Benefit Act 1951 :-** The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- E) **Contract Labour (Regulation & Abolition) Act 1970** : The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer, if they employ 20 or more contract labour.
- F) **Minimum Wages Act 1948 :-** The Employer is supposed to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act, if the employment is a scheduled employment. Construction of Building, Roads, Runways are scheduled employment.
- G) **Payments of wages Act 1936:-** It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- H) **Equal remunerations Act 1979 :-** The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against female employees in the matter of transfer, training and promotions etc.
- I) **Payments of Bonus Act 1965 :-** The Act is applicable to all establishments employing 20 or more employees. The Act provides for payments of annual bonus subject to a minimum of 8.33% of wages and maximum of 20 % of wages to employees drawing Rs. 3500/- per month or less. The bonus to be paid to employees getting Rs, 2500/- per month or above Rs. 3500/- per month shall be worked out by taking wages as Rs. 2500/- per month only. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.
- J) **Industrial Disputes Act 1947 :-** The Act lays down the machinery and procedure for resolutions of Industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or

closing down the establishment.

- K) **Industrial employment (standing Orders) Act 1946** :- It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the State and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get the same certified by the designated Authority.
- L) **Trade Unions Act 1926:-** The Act lays the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have given certain immunities from civil and criminal liabilities.
- M) **Child Labour (Prohibition & Regulation Act 1986 :-** The Act prohibits employment of children below 14 years of age in certain occupations and process and provides for regulation of employment of children in all other occupations and processes. Employment of Child labour is prohibited in Building and Construction Industry.
- N) **Inter - State Migrant workmen's (Regulation of Employment & Conditions of service) Act 1979:-** The Act is applicable to an establishment which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The inter-state migrant workmen, is an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, traveling expenses from home upto the establishment and back, etc.
- O) **The Building and Other Construction workers (Regulation of employment and Conditions of Service) Act 1996 and the Cess Act of 1996:-** All the establishments who carry on any building or other constructions work and employ 10 or more workers are covered under this Act.

All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the government. The Employer of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as canteens, First Aid facilities, Ambulance, Housing accommodations for workers near the workplace etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officers appointed by the Government.

- P) **Factories Act 1948 :-** The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 persons or more with aid of power or 20 or more persons without the aid of power engaged in the manufacturing process.
- Q) **Royalty charges-**The contractor shall pay the royalty to the competent authority as per rule. The **royalty** charges paid shall be borne by the contractor and shall not be



reimbursed by the Employer.

R) Following Pollution control Acts and amendments made thereof from time to time shall be applicable.

1. Water (Preservation and control of Pollution) Act, 1974
2. Air (Prevention and Control of Pollution Act 1981
3. Environmental (Protection) Act 1986

The contractor must commit to adopting Environmental management plan for best energy use, waste management, the reduction of pollution as in EMS (Environmental Management system)ISO-14001- 2015

65. ARBITRATION (GCC Clause 24)

The procedure for arbitration will be as follows: -

- 24.1 If the Contractor is of the view that a decision taken by the Engineer was either outside the authority given to the Engineer by the Contract or that the decision was wrongly taken, the decision shall be referred to **Add. City Engineer** (HOD-Water Works) within 14 days of the notification of the Engineer's decision. If the issue is not resolved, any party can refer the matter for conciliation within 15 days from the decision given by the Add. City Engineer.

24.2

- (a) For the work up to Rs.100 Cr., if any of the parties is not satisfied with the decision of the Add. City Engineer, both the parties have to refer to the Municipal Commissioner, Vadodara concerned for the conciliation process.
- ~~(b) For the work more than Rs.100 Cr., if any of the parties is not satisfied with the decision of the Superintending Engineer, both parties have to refer to the #Secretary, Roads & Building Department, Government of Gujarat for the conciliation process.~~

If the dispute is not resolved through the conciliation process, contractor may refer the dispute to Arbitration. Arbitration and legal matters/proceedings associated within this scope/tender shall be subject to Vadodara Court's Jurisdiction only. If the Contractor fails to refer a claim / dispute to the Higher Authority within 14 days of the notification of the Engineer's decision, the Contractor shall not be entitled to any additional payment/claim if he doesn't follow the above sequence in stipulated time. However, during such period, he would not stop the work in any case.

66.

1. The contractor shall have to check the actual requirement of pipes/ materials on site, before placing the order for supply. VMC will neither be responsible for excess

quantity to the actual requirement on site nor for delay in the actual supply requirement.

2. The contractor shall make necessary storage arrangement for all items (one by one) supplied require for work, Security of all supplied equipment will be arrange by contractor till completion of whole work, for that require security staff shall also be provided at his own cost and risk till completion of whole work, otherwise any item/equipment stolen, misplace or created damages, contractor must necessary arrangement for re-supply and/or repair of the same item/equipment at his own cost and risk.
3. Contractor will be responsible for any damage created during transportation and loading- unloading for work, if found that require rectification/ replacement immediately to be done at contractor's cost and risk.
4. Contractor will be responsible for any accident during work, if found all require arrangement immediately to be done at contractor's cost and risk.
5. Except where otherwise specified in the Contract and subject to the powers delegated to the Engineer-in-charge by the VMC, the decision of the Engineer-in-charge for the time being shall be final conclusive and binding on all parties to the Contract upon all question relating to the meaning of the specifications, designs, drawings and instruction herein before mentioned and as to the quality of workmanship or material used on the work or as to any other question, claim, right, matter or thing whatsoever, in anyway arising out of or relating to the Contract designs, drawings, specifications estimates, instructions, orders or these conditions or otherwise concerning the works or the execution of failure to execute the same, whether arising during the progress of the work or after completion of abandonment thereof.
6. All items of supply shall be of relevant ISI or ISO whichever is applicable or as specified and the work done shall be with standard practices of Mechanical & Electrical engineering. All necessary equipments required for erection shall be arranged by the contractor, and Electrical work shall be carried out as per Electricity Rules.
7. The contractor shall provide all necessary materials equipments, labor and technical staff, Supervisor etc. for work at his cost and risk till completion. Contractor shall have to take necessary insurance cover for his personnel (for example CAR policy).
8. Any revision or amendment in the IS code shall be considered and items shall be supplied with prevailing IS code.
9. The Bidder shall be considered to have visited the site of work, fully acquainted himself with the local situations regarding materials, labour and other factors pertaining to work and studied the plans and estimates before submitting the tender. Bidder must have to upload confirmation for site visit along with tender documents.
10. Miscellaneous items for carrying out work shall be arranged by contractor. No extra



payment for this miscellaneous item will made to the contractor.

- 11.** If the work executed is found to be of inferior quality or of any substandard quality not confirming to the specifications at any point of time during the inspection of by Engineer-in- charge or any higher Authority, the contract shall be terminated without assigning any reasons thereof and no payment shall be made towards the probable damages or loss caused to the contractor and materials purchased by him for this work and no compensation whatsoever either shall be paid to contractor by Municipal Corporation.
- 12.** The contractor shall take ‘All contract risk insurance policy” for the estimated cost of work of “Work’s man compensation policy” for all workers and labours of contractor and clients working at site and “Third party insurance policy” to fully cover all third-party type risk. The insurance policy so taken by the contractor for such purpose shall be in the joint name of the contractor and the client and the policy shall be deposited with the clients.
- 13.** Contractor to provide necessary transportation facility 24*7 during Execution period.
- 14.** The price/rates quoted in the tender should include all charges for hire, if necessary, of any tools and plant, temporary plumbing, water connection, maintenance of sanitary and water connections, supply of water, cost of cisterns, sheds for materials and plant, charges for getting electric connection and use of electricity and maintaining the same, clearing the site, watering, rolling etc. as specified. All prices shall be inclusive of the all the Taxes, duties, levies, etc. applicable on the last date of submission of the Tender Document.
- 15.** The Tender Evaluation Committee may ask for meetings or presentation with the Bidders to seek clarifications or conformations on their bids. Inability to submit requisite supporting documents/documentary evidence by Bidders may lead to rejection of their bids.
- 16.** The Contractor shall give minimum wages as per the Govt. Norms to labour and workmen employed by him. If there is any dispute, it is the contractor’s own responsibility.
- 17.** Method of work must be approved by contractor before work at site as per direction of Engineer In charge.
- 18.** Tendered rates shall include all the material, labour and requirements of plants, machinery, equipment, supervision, handling, cleaning, testing etc. (whether mentioned in the item or specifications etc. or not) which is required and necessary to complete the item
- 19.** The Contractor shall have to Upload Site Photographs of Day to Day progress in WhatsApp Group and shall submit weekly progress over email and monthly progress through letter to track ongoing work.



20. VMC has appointed PMC, TPI, and/or any other agency deemed fit for third-party inspection or Project Monitoring Consultants of the project. Bidders are bound to comply with the comments given by them.”

All Item as specified in tender and/or as decided by EIC must be inspected as per approved QAP at manufacturer’s premises. All Item inspection will be done at manufacturer premises as well as at site in presence if VMC, PMC and TPI agency’s representative.

The VMC or its TPI agency shall have the right to inspect and/ or to test the Goods for confirm their conformity to the Contract. The Special Conditions of the Contract and/or the Technical Specifications shall specify what inspections and tests the employer requires and where they are to be conducted. If not specified or not withstanding any mention, the Contractor shall submit the inspection plan of all major bought-out items for approval with client and TPI agency the stages of in section as per manufacturer’s quality plan and shall arrange to carry out the inspection along with client and it’s TPI agency at manufacturer’s works as per the approved plan. The VMC shall notify the Contractor in writing of the identifying of any representatives retained for these purposes. All the expenses pertaining to inspection viz. lodging & boarding, transportation, all facilities as required shall be borne by the Contractor for the VMC/TPI agency representatives.

VMC has right to inspect, test and where necessary, reject the Goods after the Good’s arrival in India shall in no way be limited or waived by reasons of the Goods having previously been inspected, tested and passed by the VMC or its TPI agency prior to the Good’s shipment from the country of origin.

All the major items as decided by Engineer-in-charge as per QAP shall be subject to third party inspection from any TPI agency approved by VMC e.g. RITES, CEIL etc. **Appointment of TPI agency will be done by VMC. Contractor shall produce receipt of payment to TPI Agency.** In case contractor fails to do payment to TPI agency, VMC will cut the whole amount from running bill.

At manufacturer’s place as well as at work site, third party inspection charges for all above material including taxes and other charges shall be borne by the Contractor.

If VMC/ TPI Engineers intend to witness the testing at manufacturer’s works or at ERDA / EQDC / GOVT. Institute or any other place approved by VMC, the entire expenses of said testing, including to & fro traveling by Air, lodging and boarding, etc. shall be borne by the Contractor.

21. Time Limit for Completion of work

The period of completion shall be 15 Months excluding 1 monsoon

Shutdown for work



The contractor shall request for Installations which requires shutdown in existing System. In case the shutdown is not given by the department due to operational constraints of department. The successful bidder will be provided stoppage for such events on producing valid justification of delay of work subject to approval from competent authority of VMC No financial compensation will be given for such delay.

In the live system, Department will give time and the work shall be performed within the given timeline, if work is not taken in the given timeline, the cost of such advertisement plus Rs. 10,000 will be recovered from successful bidder.

22. In case of work for which there is no such specification, work shall be carried out in accordance with the P.W.D. or I.S.I. specifications and in the event of there being no P.W.D. or I.S.I. specifications, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-charge.
23. INDEMNITY : The Contractor shall indemnify the VMC against all actions, suits claim and demands through or made against the department in respect of work of this contract and against any loss or damage to Department in consequence of any action or suit being brought against the Contractor for anything done or omitted to be done in execution of the work of this Contract.
24. No compensation shall be allowed for any delay in execution of the work on account of water standing in borrows pits or compartments. The rates shall be inclusive for hard or cracked soil excavation in mud sub-soil water, or water standing in borrow pits and no claim for an extra rate shall be entertained unless otherwise specified.
25. LIABILITY OF CONTRACTOR FOR ANY DAMAGE DONE IN OR OUTSIDE WORK AREA : Compensation for all damage done intentionally or unintentionally by Contractor's labours whether in or beyond the limits of the work site including any damages caused by the spreading of Fire mentioned in Cl ause 18 shall be estimated by the Addl. city Engineer or such other officer as the VMC may appoint and the estimates of the VMC shall be final and the Contractor shall have to pay the amount of the assessed compensation on demand failing which the same will be recovered from the Contractor as damages in the manner prescribed in Clause 1 or deducted by the Engineer-in-charge from any sums that may be due to or become due from the VMC to the Contractor under this Contract or otherwise. The Contractor shall bear the expenses of defending any action or other legal proceedings that may be brought by any person for injury sustained by him owing to neglect of precautions to prevent the spread of Fire and shall be also pay any damage and cost that may be the court in consequence. However, in any case VMC cannot be suit under any circumstances.
26. The Engineer will issue a stoppage/extension of time upon taking approval as per VMC Delegation of Power Order for the extended duration.
27. The approval for access-saving and extra items shall be obtained from competent authority according to Delegation of Power order of VMC.



28. TERMINATION/DETERMINATION OF THE CONTRACT

In any case, under any Clause/s of this tender, the contractor has rendered itself liable to pay compensation if a breach of any of the terms, conditions, specifications, etc. The VMC shall have power

If work is found unsatisfactory, VMC shall terminate the contract after giving notice period of 15 days and in this case decision of competent authority, for forfeiture of SD / EMD / Performance guarantee etc and debarring / blacklisting the agency shall be binding to the contractor.

This activity is under essential service, so contractor is not allowed to stop this work at any point of time.

Notwithstanding, if contractor stop / leave the work by his own discretion SD / EMD / Performance guarantee, Amount pending in running bill etc. shall be forfeited and additional expenditure for execution of remaining work shall be recovered through, if be needed, legal proceeding and Agency shall be debarred / blacklisted subject to approval of competent authority.

To terminate the contract of which a notice in writing to the Contractor by the VMC shall be conclusive and binding in which case the security deposit /Performance guarantee of the contractor shall stand forfeited, at the absolute disposal of the SMC.

To take such part of the work as shall be un-executed and to give it to another/other contractor to complete, in which case the expenses incurred, if any, in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him (the certificate of VMC for the excess amount shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by the VMC under the contract or otherwise or from the security deposit or the proceeds of sale thereof, or a sufficient part thereof.

In the event of any of the above courses being adopted by the VMC, the Contractor shall have no claim for compensation for any loss sustained by him by the reason of having purchased or procured any materials, or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract. And in case the contract shall be terminated under the provisions aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract, unless and until VMC certifies in writing the performance of such work and the value payable in respect thereof, and the contractor shall only be entitled to be paid the value as certified by the VMC.

29. SAFETY

29.1 GENERAL



The Contractor shall be solely responsible for ensuring safety, health and welfare of all persons employed by him or his sub-contractors during entire contract period.

The Contractor shall comply with all applicable **Central Government, Government of Gujarat Acts, Rules, Regulations, Municipal By-laws, BIS Codes and statutory provisions** in force from time to time.

The Contractor shall take all necessary precautions to prevent accidents, injury to persons, damage to property and obstruction to municipal services and public movement.

29.2 STATUTORY ACTS, RULES & CODES

The Contractor shall strictly comply with the latest provisions of:

- a) **Electricity Act, 2003**
- b) **Indian Electricity Rules, 1956**
- c) **CEA Safety Regulations, 2011**
- d) **Factories Act, 1948** and Gujarat Factory Rules (where applicable)
- e) **Bureau of Indian Standards (BIS)** including:

- IS 5216 (Part 1 & 2) – Safety Practices in Electrical Works
- IS 3696 (Part I & II) – Safety for Scaffolding and Ladders
- IS 3016 – Safety for Welding and Cutting
- IS 10386 – Safety Code for Construction & Plant Machinery

- f) **CPHEEO Manual on Water Supply and Treatment**
- g) **Government of Gujarat – UD&UHD guidelines**
- h) **Vadodara Municipal Corporation specifications**
- i) Any other statutory requirements applicable to water supply works.

29.3 SAFETY MANAGEMENT & SUPERVISION

The Contractor shall deploy a **competent Safety Supervisor** throughout the contract period.

Only **trained, qualified and licensed personnel** shall be engaged for electrical and mechanical works.

Safety induction training shall be conducted for all workers before commencement of work and records shall be maintained.

29.4 PERSONAL PROTECTIVE EQUIPMENT (PPE)

The Contractor shall provide and enforce compulsory use of:

- Safety helmets
- Safety shoes
- Electrical / mechanical hand gloves
- Eye and face protection
- Reflective jackets



- Full body safety harness for ESR / reservoir work
- Respiratory masks for chlorination and confined spaces
- Arc-flash PPE for electrical works, wherever required

Non-use of PPE shall be treated as a serious violation.

29.5 ELECTRICAL SAFETY

All electrical installations at pumping stations, WTP and reservoirs shall comply with Indian Electricity Rules and CEA Regulations.

No live electrical work shall be permitted. Proper **Lock-Out / Tag-Out (LOTO)** procedures shall be followed.

All pumps, motors, panels and control systems shall be properly earthed and protected with **ELCB / RCCB**.

Rubber insulating mats, danger boards and barricading shall be provided near panels and switchgear.

Only licensed electricians shall work on electrical installations.

29.6 CIVIL & STRUCTURAL SAFETY

All excavations shall be properly **barricaded, shored and illuminated**.

Scaffolding and formwork shall conform to BIS standards and be regularly inspected.

29.7 PUBLIC SAFETY & TRAFFIC MANAGEMENT

As works are carried out within municipal limits, the Contractor shall ensure:

- Proper barricading of trenches and work areas
- Display of caution boards and warning lights
- Safe pedestrian and vehicular movement

Trenches across roads and footpaths shall be properly restored immediately after work to the satisfaction of VMC.

29.8 HOUSEKEEPING & SITE CONDITIONS

The site shall be maintained in a clean and hygienic condition at all times.

Safety sign boards shall be displayed in **Gujarati, Hindi and English**.

29.9 FIRE SAFETY & EMERGENCY MEASURES

Adequate fire extinguishers shall be provided at pumping stations, electrical rooms and chemical storage areas.

First-aid boxes and trained first-aiders shall be available at site.



Emergency contact numbers of VMC officials, hospitals and fire brigade shall be displayed.

29.10 ACCIDENT REPORTING & INSURANCE

The Contractor shall maintain accident registers and safety records.

The Contractor shall obtain and maintain valid:

- Workmen Compensation Insurance
- Third Party Liability Insurance
- Any other insurance as per tender condition

29.11 PENALTY FOR NON-COMPLIANCE

The Engineer-in-Charge, VMC may impose penalties for safety violations.

Repeated violations may result in suspension or termination of contract at Contractor's risk and cost.

29.12 RESPONSIBILITY & INDEMNITY

The Contractor shall be solely responsible for safety of workmen, VMC staff and the general public.

The Contractor shall indemnify against all claims, losses, damages or legal proceedings arising due to accidents, safety lapses.



SECTION - 4
CONTRACT DATA



#CONTRACT DATA

Item marked "N/A" do not apply to this Contract.

Clause Reference With respect To section 3

1. The Employers is [CL.1.1]
Name: THE EXECUTIVE ENGINEER
Address: 2nd floor, room no.-210,
Vadodara Municipal Corporation,
Khanderao Market Building,
Rajmahal Road,
Vadodara-390001
Name of authorized Representative (will be intimated later)
2. The Engineer is The Executive Engineer, Water Works Project, Vadodara Municipal Corporation.
Name of Authorized Representative: The Executive Engineer, Water Works Project, Vadodara Municipal Corporation, Vadodara.
3. The Defect Liability Period is 12 Months for all work from the date of Completion of work. [CL.1.1&33]
4. The Start Date shall be **7th** days for the date of issue of the Notice to proceed with the work. [CL.1.1]
5. The Intended Completion Date for the whole of the works is
15 Months excluding 1 monsoon and including trial run period [CL.1.1,17&2]
Milestone dates:
Physical works to be completed Period from the start date
Milestone 1 i.e. 25 %.....-- Month
Milestone 2 i.e. 50 %..... 8 Month [CL.2.2& 49.1]
Milestone 3 i.e. 75.%..... 12 Month
Milestone 4 i.e. 100%..... 15 Month
6. The Site is located at Across Vadodara city and Outside city area. [CL.1.1]
7. The name and identification number of the Contract is: [CL.1.1]
The works consist of Rs. 4,36,80,377/- with items as per B.O.Q.
8. The works shall, inter alia, include the following, as Specified or as directed: [CL.1.1]

9. Scope of work

Please refer section 5 of the same document

(C) Other Items [CL.1.1]

Any Other Items as required to fulfill all contractual obligations as per the Bid documents.



10. The following documents also form part of the Contract: [CL.2.3(9)]
As per clause 2-3
11. The law which applies to the Contract is the law of Union of India [CL.3.1]
12. The language of the Contract documents is English [CL.3.1]
13. Limit of subcontracting 25% of the Initial Contract Price [CL.7.1]
14. The Schedule of Other Contractors [CL.8]
15. The Schedule of Key PersonnelAs per Annex – II to Section I [CL.9]
16.
 - The minimum insurance cover for physical property, injury and death is [CL.13]
Rs. 5 lakhs per occurrence with the number of occurrences limited to four.
After each occurrence, the contractor will pay an additional premium
necessary to make insurance valid for four occurrences always.
 - Contractor has to submit CAR policy for the project.
 - Hon. Supreme Court/High Court guideline as well as implementation of
manual Scavenging Act & Rules (2013 including latest amendment) must
be strictly followed by bidder for Drainage work for better safety workmen.
all Work must be carried out by using safety equipment and by mechanical
equipment by the bidder.
 - The Bidder will be responsible to pay minimum Rs.30Lakhs in addition to
the compensation paid by the Government in case of Death of Workman
while execution of the work.
17. Site Investigation report: VMC did not have any data readily available. Same [CL.14]
shall be assessed by bidder before bidding.
18. The Site Possession dates shall be [CL.21]
19. The period for submission of programme for approval of the engineer shall be [CL. 27.1]
21 days from the issue of Letter of Acceptance.
20. The period between program updates will be days. [CL.27.3]
21. The amount to be withheld for late submission of an updated programme shall [CL. 27.3]
be Rs 0.50 lakhs



22. The following events shall also be Compensation Events [CL. 44]
- Substantially adverse ground conditions encountered during the course of execution of work not provided for in the bidding document.
- (i) Removal of underground utilities detected subsequently
 - (ii) Significant changes in classification of soil requiring additional mobilization by the contractor, e.g. ordinary soil to rock excavation,
 - (iii) Removal of unsuitable material like marsh, debris dumps, etc. not caused by the contractor.
 - (iv) Artesian conditions
 - (v) Seepage, erosion landslide
 - (vi) River training requiring protection of permanent work
 - (vii) Presence of historical, archeological or religious structures, monuments interfering with the works
 - (viii) Restriction of access to ground imposed by civil, judicial, or military authority
23. The currency of the Contract is Indian Rupees [CL. 46]
24. **The formula (e) for adjustment of prices are as under:** [CL.47]
- If any of the commodities like Cement, Steel or Bitumen are not found applicable in a work, the weight component of that commodities {i.e. 'Cement' (Pc), 'Steel' (Ps) or 'Bitumen' (Pb) as indicated in SBD for the purpose of Price Adjustment} shall be clubbed with the weight component of 'Other Material' (Pm), such that the gross % weight of the components shall remain as 100%.
 - The contractor shall maintain original purchase invoice and consumption register of materials.
- R = value of work as defined in Clause 47.1 of Conditions of Contract
- Adjustment for labour component**
- (i) Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the following formula:

$$VL = 0.85 \times (PI/100) \times R \times (Li - L0)/L0$$

VL = Increase or decrease in the cost of work during the month under consideration due to changes in rates for local labour

L0 = The consumer price index for industrial workers for the State on 28 days preceding the scheduled date of opening of technical Bids as published by Labour Bureau, Ministry of Labour, Government of India

Li = The consumer price index for industrial workers for the State for the month under consideration as published by the Labour Bureau, Ministry of Labour, Government of India.

PI = Percentage of labor component of the work.

Adjustment for cement component.

- (ii) Prices adjustment for increase or decrease in the cost of cement procured by the contractor

$$Vc = 0.85 \times (Pc/100) \times R \times (Ci - C0)/C0$$

Vc = Increase or decrease in the cost of work during the month under consideration due to changes in rates for cement.

C0 = The all India wholesale price index for Ordinary Portland Cement on 28 days preceding the scheduled date of opening of technical bid as published by the **Office of the Economic Adviser,**

Department for Promotion of Industry and Internal Trade,
Ministry of Commerce & Industry.

Ci = The all India average wholesale price index for Ordinary Portland Cement for the month under consideration as published by **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

Pc = Percentage of cement component of the work

Adjustment for steel component

- (iii) Price adjustment for increase or decrease in the cost of steel procured by the contractor shall be paid in accordance with the following formula

$$Vs = 0.85 \times (Ps/100) \times R \times (Si - S0)/S0$$



V_s = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel

S_o = The all India wholesale price index for steel (**Mild Steel - Long Products Rebars**) on 28 days preceding the date of opening of Bids as published by the **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry**.

S_i = The all India average wholesale price index for steel (**Mild Steel - Long Products Rebars**) for the month under consideration as published by **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry**.

P_s = Percentage of steel component of the work

Note : For the application of this clause, the index of **Mild Steel- Long products Rebars** has been chosen to represent the steel group.

Adjustments of bitumen component

- (iv) Price adjustment for increase in the cost of bitumen shall be paid in accordance with the following formula

$$V_b = 0.85 \times (P_b/100) \times R \times (B_i - B_0)/B_0$$

V_b = Increase or decrease in the cost of work during the month under consideration due to changes in rates for bitumen.

B_0 = The official retail price of bitumen at the IOC depot at the nearest centre on the day 28 days prior to the scheduled date of opening of technical bid.

B_i = The official retail price of bitumen of IOC depot at the nearest centre for the 15th day of the month under consideration.

P_b = Percentage of bitumen component of the work

Adjustment of POL (fuel and lubricant) component

- (v) Price adjustment for increase or decrease in cost of POL (fuel and lubricant) shall be paid in accordance with the following formula

$$V_f = 0.85 \times (P_f/100) \times R \times (F_i - F_0)/F_0$$

V_f = Increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricants.

F_0 = The official retail price of High Speed Diesel (HSD) at the existing consumer pumps of IOC at the nearest centre on the day 28 prior to the date of opening of



Bids

F_i = The official retail price of HSD at the existing consumer pumps of IOC at the nearest centre for the 15th day of the month of the under consideration.

P_f = Percentage of fuel and lubricants component of the work

Note: For the application of this clause, the price of High-Speed diesel Oil has been chosen to represent the fuel and lubricants group.

Adjustment for Construction Machinery

- (vi) Price adjustment for increase or decrease in the cost of plant and Machinery spare procured by the Contractor shall be paid in accordance with the following formula

$$V_p = 0.85 \times (P_p/100) \times R \times (P_i - P_0)/P_0$$

V_p = Increase or decrease in the cost of work during the month under consideration due to changes in rates for plant and machinery spares

P_0 = The all India wholesale price index for **manufacturer of machinery for mining, quarrying and Construction** for the month under consideration as published **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

P_i = The all India average wholesale price index for **manufacturer of machinery for mining, quarrying and Construction** for the month under consideration as published **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

P_p = Percentage of plant and machinery spares component of the work.

Note: For the application of this clause, index of Heavy Machinery and parts has been chosen to represent the Plant and Machinery Spares group

Adjustment of other materials Component

- (vii) Price adjustment for increase or decrease in cost of local materials other than cement, steel, bitumen and POL procured by the contractor shall be paid in accordance with the following formula

$$V_m = 0.85 \times (P_m/100) \times R \times (M_i - M_0)/M_0$$

V_m = Increase or decrease in the cost of work during the month under consideration due to change in rates for local materials other than cement, steel, bitumen and POL.

M_0 = The All Indian wholesale price index (all commodities) on 28 days preceding



the scheduled date of opening of technical Bids, as published by the **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

Mi= The All India wholesale price index (all commodities) for the month under consideration as published by the **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

Pm = Percentage of local material components (other than cement, steel, bitumen and POL) of the work.

The following percentage will govern the price adjustment for the entire contract

For ESR, GSR, Transformer Room, HT Panel room:

1. Labour –Pl	26 %
2. Cement – Pc	14 %
3. Steel - Ps	20 %
4. Bitumen - Pb	0 %
5. POL – Pf	30 %
6. Plant & Machinery Spares P	0 %
7. Other Materials Pm	10 %
Total	100 %

The following percentage will govern the price adjustment for the entire contract

For PIPE LINE:

1. Labour –Pl	0 %
2. Cement – Pc	0 %
3. Steel - Ps	0 %
4. Bitumen - Pb	0 %
5. POL – Pf	0 %
6. Plant & Machinery Spares P	35 %
7. Other Materials(HR COIL & PIG IRON)Pm	65 %
Total	100 %

25. The proportion of payments retained (retention money) shall be 6% {CL. 48} from each bill subject to a maximum of 5% of final contract price.
26. Amount of Liquidated damages for For Whole of work {CL.49} delay in completion of works(1/2000)th of the Initial contract

price, rounded off to the nearest Thousand, per day. For sectional Completion (wherever specified In item 6 of Contract data) (1/2000)th of initial contract price for #5 km Section, rounded off to the nearest thousand per day.



27. Maximum limit of liquidated damages 10 percent of the Initial {CL. 49}
For delay in completion work Contract Price rounded off to the nearest thousand
28. Amount of Bonus for early completion Amount of bonus for early completion of work shall be given as per CL.50 of Section-3
29. Maximum limit of bonus for early **5 percent** of the Contract {CL. 50} Completion of work Price
30. The amount of the advance payment are: {CL. 51 & 52}

#Nature of Advances Amount (Rs.) Conditions to Be fulfilled

I. Mobilization 5% of the contract On submission of unconditional Price Bank Guarantee. (to be drawn before the end of 20% of the contract period). The contractor may furnish four bank guarantees of 2.5 % of each valid for the full period.

ii Equipment 90% for new and 50% of depreciated value for old equipment. Total amount will be subject to a maximum of 5% of the Contract Price After equipment is brought to site (provided the Engineer is satisfied That the equipment is required for performance of the contract) and on submission of unconditional Bank Guarantee for amount of advance

iii Secured **Deleted**

Advance for Non-persish able material Brought to site

(The advance payment will be paid to the Contractor no later than 28 days after fulfillment of the above conditions).

31. **Repayment of advance payment for mobilization and equipment** {CL. 51.3}

The advance loan shall be repaid with percentage deduction from the interim payments certified by the Engineer under the Contract. Deduction shall commence in the next Interim Payment Certificate following that in which the total of all such payments to the Contractor has reached not less than 20 percent of the Contract Price or 6 (six) months from the date of payment of first installment of advance, whichever period concludes earlier, and shall be made at the rate of 20 percent **(collectively for both Mobilization Advance and Equipment Advance)** of the amounts of all Interim Payment Certificate until such time as the loan has been repaid, always provided that the loan shall be completely repaid prior to the expiry of the original time for completion pursuant to Clause 17 and 28.

32. Deleted

33. The securities shall be for the following minimum amounts equivalent {CL. 52} As a



percentage of the Contract Price:

Performance Security for 5 percent of contract price plus Rs. (to be decided after evaluation of the bid) as additional security in terms of ITB Clause 29.5

The standard form of Performance security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as presented in Section 8 of the Bidding Documents.

34. The Schedule of Operating and maintenance Manuals.....N/A. {CL. 58}
35. The date by which “as- built” drawings (in scale as directed) in 2 sets {CL. 58} are required within 28 days of the issue of certificate of completion of the whole or section of the work, as the case may be.
36. The amount to be withheld for failing to supply “as built” drawings {CL. 58} by the Date required is Rs. 1,00,000/- (One Lakh).
37. The following events shall also be fundamentals breach of contract: {CL.59.2} “The Contractor has contravened Sub- clause 7.1 and Clause 9 of GCC”
38. The percentage to apply the value of the work not completed representing {Cl 60} the Employer’s additional cost for completing the Works shall be 20 per cent.



SECTION - 5

TECHNICAL SPECIFICATIONS

Scope of work

Below specified work is majorly required to execute on main feeder pipeline of various water sources and water distribution stations of VMC.

- Supply, Installation, testing and commissioning of **pencil type pressure transmitter** with accessories on Water pipe Line at various water sources/WDS/Feeder line as per tender specifications.
- Supply & fixing of IP65 weather proof **Enclosure panel** for existing pressure transmitter and Flow transmitter as per tender specifications.
- Supply, Installation, testing and commissioning of **Full bore type electromagnetic flowmeter** with **Metallic expansion bellow**, **Insertion electromagnetic flowmeter**, **Dual path ultrasonic clamp-on flowmeter** and other required accessories on primary feeder lines of various sizes and as per tender specifications.
- Supply, Installation, testing and commissioning of **Flow converter/transmitter** of make **Krohne model IFC-050** as per tender specification and scope of work.
- Supply and fixing of **MS Special work** like Expander, Reducer, Distance piece, Flanges and other Work for successful installation of flowmeters and BFBVs as per tender specifications.
- Construction of **brick chambers** with MS Cover for flowmeters and Valves as per tender specifications.
- Fixing of existing valve chamber's MS cover including welding work as per tender specification.
- Cleaning, crack filling and water proofing of existing Brick/RCC chamber.
- Supply, Installation, testing and commissioning of **Dewatering pump** with float level switch & Control panel as per tender specifications. Work also include construction of Suction pit in existing chamber including all work.
- Uninstallation, refurbishment and reinstallation of existing Full bore type Electromagnetic flowmeter of various size with all associated work as per tender specifications.
- Supply, installation, testing and commissioning of **Butterfly Valve** as per IS 13095 with metallic expansion bellow, gear box suitable for electrical operation of various sizes as per tender specification.
- Supply of **Handwheel** of required size for existing BFBV as per tender specifications.
- Supply & fixing of Butterfly valve's **shaft extension** assembly, **Canopy** over existing Electrical actuator to complete work satisfactorily. Supply, Installation, testing & commissioning of **position feedback transmitter** as per tender specifications. Supply & fixing of **Remote/Local feedback switch** with internal wiring work. Necessary configuration & program development/modification in existing PLC, configuration & graphics development/modification in existing SCADA system to enable inching/partial



valve operation.

- Supply, Installation, testing and commissioning of **Ultrasonic level transmitter** with remote transmitter as per tender specification.
- Supply & fixing of **mounting flange, Canopy** with anchor fasteners for existing RCC floor mounted ultrasonic level transmitter as per tender specifications.
- Supply, Installation, testing and commissioning of **PH, Chlorine & turbidity Analyzer** panel with enclosure, Necessary **plumbing work**, as per tender specifications.
- Restoration of existing PH, Chlorine analyzer panel as per tender specifications.
- Supply & fixing of **Weatherproof Enclosure panel for existing HACH/E&H make PH & Chlorine Analyzers** with all required accessories as per tender specifications.
- Supply, Installation, testing and commissioning of **PLC Based RTU Panel** with required IOs, DC UPS, CVT, SPD, latest GPRS Modem as per tender specifications.
- Provide **1 phase mgvcl electricity connection** for RTU Panel includes all charges as per tender specifications.
- Supply, Installation, testing and commissioning of 24 V DC 10 Amp SMPS, AC/DC Cooling fan for existing PLC Panel, AC/DC LED Tubelight, 8 channel annunciator with buzzer, ack buton & hooter, suction filter for existing PLC Panel as per tender specifications.
- Do proper rewiring, dressing, ferulling of all cable, cleaning & painting of existing PLC/RIO Panel, Local Indicator and PDB Panels, Prepare wiring diagram of existing PLC panel & PID drawing of Station and fix it in PLC Panel as per tender specifications.
- Integration of PLC Panel with all Instruments and single Instrument with existing SCADA system, portal, mobile app including necessary programming, configuration, graphics development etc. as per tender specifications.
- Necessary Modifications/addition in existing PLC programming, SCADA Graphics, SWMS and Mobile App configuration, RTU Configuration, SCADA configuration, PLC Panel ferulling, All instrument tagging, Rewiring, wiring Diagram, P&ID diagram etc.
- Supply, Installation, testing and commissioning of **pipe-in-pipe chemical earthing** with earthpit as per tender specs. Supply & fixing of GI Strip for Earthing as per tender specification.
- Supply, laying, dressing and termination of various **instrumentation/LT cables** as per tender specification. Supply, laying and fixing of **HDPE cable conduit** as per tender specifications. Supply and fitting of **perforated type cable tray** of various sizes as per tender specifications. Supply and fixing of **MS Cable route marker** with concrete foundation as per tender specifications. Excavation and backfilling in soft soil for trenches as per tender specifications.
- Supply, Installation, testing and commissioning of **Loss of Head(LOH) and Rate of Flow(ROF)** for Filter beds of water treatment plant with remote transmitter as per tender specifications.



- Do proper PM, ferulling, tagging and configuration of Instrument as per tender specifications.

Item wise Instrumentation Specifications

Item Sr. No. 1:

Supply, Installation, testing and commissioning of **pencil type pressure transmitter** having **measuring range of 0 to up to 5 kg/cm²**, SS Isolation ball valve, Y Strainer, Valve manifold, pressure snubber and other required accessories, provision of tapping on MS/DI/CI/HS Line

Description	Specification	Compliance
Measurement	Gauge Pressure	
IP Rating	IP 68 or Better	
Range	As per BOQ	
Process connection	Threaded – Size and Type As per site requirement	
Electrical connection	Cable Outlet IP68	
Output	Analog 4-20 mA	
Cable length	Min. 10 Mtr. or as per site requirement	
Power	24 V DC	
Accessories	As per BOQ	
Material of wetted part	SS316 or best suited with application	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Wiring diagram, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacturer place or NABL Approved Lab/Government laboratory (e.g. EQDC/CWPRS/FCRI etc.) as well as at the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include Calibration/validation of Pressure transmitter & certification of the same, functionality test and other as per standard practice.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will start from successful commissioning date and not from the date of supply.

- Instrument will remain in custody of the agency till successful commissioning of the entire system. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Agency to provide tapping on the Water pipe line of MS/HS/CI/DI Material with required parts & accessories like weld Boss/Stud, GI Coupling, Isolation Ball Valve, GI fittings like elbow, Tee, Union, Coupling etc.
- Necessary dewatering work, drilling, cutting, welding and other special work for successful commissioning of the entire system is in scope.
- Supply and fixing of 2 way Valve Manifold, Isolation valve, Inlet Y Strainer, Pressure snubber etc. and other as specified in tender elsewhere.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- All cable must be properly terminated at both ends using copper lugs and brass gland. Also with cross ferruling.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instrument. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 2 & 14:

Supply & fixing of IP65 Enclosure panel having min. dimension of 400 * 300 * 210 mm and 600 * 400 * 350 mm made up from 2 mm thick powder coated GI Metal sheet with TBs, Back side mounting plate, Gland plate, front glass & lockable door for existing pressure transmitter including internal wiring and cable ferruling etc.

Description	Specification	Compliance
IP Rating	IP 65 or Better	
Dimension	As per BOQ	
Material	GI/CRCA Metal sheet or Better	
Mounting	Wall	
Surface finish	Powder coating	
Thickness	Enclosure body, Front door : min. 1.6 mm and Gland plate, mounting plate : min. 2 mm	
Accessories & other work	As per BOQ	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, Dimensional drawing, wiring diagram and all other as required by EIC for approval.



- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Provide TBs, Back side mounting plate, Gland plate, front glass & lockable door as per requirement.
- Warranty/DLP of instrument will start from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency till successful commissioning of the entire system. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- All cable must be properly terminated at both ends using copper lugs and brass gland. Also with cross ferruling.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instrument. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 3 to 7:

Supply, Installation, testing and commissioning of DC powered, IP68 Full bore type electromagnetic flowmeter of various sizes & pressure ratings of DN 450 mm - PN16, DN 600 mm - PN16, DN 700 mm - PN10, DN 900 mm - PN10, DN 1400 mm - PN10.

Description	Specification	Compliance
Type	Full Bore Electromagnetic	
Application	Clear Water	
Flow measurement Direction	Bi-directional flow measurement	
Material	Liner - Hard Rubber/PTFE or Best suited with said application, Electrode & Sensor housing - SS or Best suited with application, Measuring tube - SS or Best suited with application, Coil - Copper, Flange - CS or Better and other as directed by EIC	
Flange Drilling standard/Connection	As per IS 1538 or suitable with Bellow/Adaptor's Standard	
Analog Output	4-20 mA	
Digital Output	Modbus (Rs-485)	

IP Rating	Sensor - IP 68 or Better & Transmitter/Display - IP67 or Better	
Pressure Rating	As per BOQ	
Size	As per BOQ	
Accuracy	Min. +/- 0.5% or Better	
Reading at Electrical Conductivity	$\geq 20 \mu\text{S/cm}$ for water	
Interface	Physical-Key	
Display/Transmitter	Remote display with backlit LED	
Cable length	Min. 20 Mtr. or as per site requirement	
Power	DC 24 V	
Grounding Ring/Reference Electrode	SS or Better	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, wiring diagram, BOM, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacture place/**Government Lab (e.g. CWPRS/FCRI etc.)** as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include calibration of flowmeter by NABL Accredited OEM lab or Government Lab (e.g. CWPRS/FCRI etc.).
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Excavation, backfilling, refilling, Restoration, Dewatering, line cutting, welding and all other work is in scope of agency.
- Agency to provide and fix Flanges, Distance piece, Expander, Reducer, Sockets and all other MS related work in MS Special work only including necessary fabrication & labour work.

- Maintain minimum straight run of 5D Upstream and 2D downstream or as per standard installation guideline of respective OEM. (D = Diameter of Pipe line)
- Provide Rubber gasket for all flange joints.
- Provide proper earthing to SS ground rings/reference electrode.
- Cover the flow tube with plastic tightly just after installing it on the Pipeline to avoid any damage during chamber construction.
- Supply and fixing of Mounting brackets and other accessories.
- Supply & fixing of weatherproof enclosure with front glass and lockable door. All parts & accessories must be fixed properly inside the enclosure panel.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Supply and fixing of Junction box with TBs and MCB within the Enclosure panel. All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- All cable must be properly terminated at both ends (Field side & PLC Panel) using lugs & gland.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 8 to 12:

Supply, Installation, testing and commissioning of Metallic expansion bellow of various sizes & pressure ratings of 450 mm*300 mm – PN16, 600 mm*300 mm – PN16, 700 mm*300 mm – PN10, 900 mm*300 mm – PN10, 1400 mm*300 mm – PN10.

Description	Specification	Compliance
Design standard	EJMA	
Size	As per BOQ	
Flange Provision	Both side flange ended	
Axial Compression	15 mm or Better	
Axial extension	5 mm or Better	
Tie rod	Required	
Pressure rating	As per BOQ	
Paint	Epoxy or as per standard	-
Material	Bellow & Internal Sleeve - SS304 or Better, Limit rods & nuts – CS	

**Drilling standard**IS 1538 or suitable with
FM/BFV**Scope of Work**

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacture place as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include hydro test and other as per manufacturer standard at OEM place.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Cover the Expansion bellow with plastic tightly just after installing it on the Pipeline to avoid any damage during chamber construction.
- Excavation, backfilling, refilling, Restoration, Dewatering, line cutting, welding and all other work is in scope of agency.
- Agency to provide and fix Flanges, Distance piece, Expander, Reducer, Sockets and all other MS related work in MS Special work only including necessary fabrication & labour work.
- Provide Rubber gasket for all flange joints.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 13:

Supply, Installation, testing and commissioning of **Flow converter/transmitter** of **Make: Krohne and Model: IFC-050**.

Item Sr. No. 15:

Supply and fixing of MS Special work like Expander, Reducer, Distance piece, Flanges and other Work.

Scope of Work

- Put up all required documentation including but not limited to GAD, Dimensional drawing and all other as required by EIC for approval.



- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Material will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Primer followed by epoxy weather coat Painting on all MS surfaces.
- Drilling of flanges as per IS 1538 or as per actual site requirement.
- Satisfactory machining of all MS parts.
- Agency to consider cost of all work, parts and accessories which is not specified in BOQ but necessary for successful commissioning of instruments in respective line items. No extra cost will be provided for such parts & accessories.

Item Sr. No. 16 to 24:

Construction of brick chamber for Flowmeters and Valves.

Scope of Work

- For all diameters Excavation for pipe line trenches incl. all safety provisions using site rails and stacking excavated stuff up to a lead of 90 mts. cleaning the site etc. complete for lifts and strata as specified.
 - (a) In all sorts of soil and soft murram
 - (b) In hard Murrum
- Excavation in bituminous road as per required gradient and line including safety provisions using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. complete for all lifts as specified. In bituminous Road
- Providing and casting in situ mass cement concrete in grade M-10 (approx. cresp. to prop. 1:3:6) using granite quartzite trap metal of size 12 mm to 25 mm incl. consolidation curing, etc. complete.(a) PCC - 1:3:6
- **CC M-25** : Providing and cast in situ C.C. in grade M-25 proportions of ingredients as per mix design by weigh batching using granite, quartzite trap metal of size 12 mm to 20 mm and or 6 mm to 12 mm including scaffolding centering formwork, needle vibrated consolidation, curing and hydraulic testing etc. complete (excluding cost of reinforcement) with centering and shuttering/deshuttering etc. comp. up to 5 meter height/depth Av. G.L. for all water retaining structures. Flat bottom slab/floor slab/slab with shuttering
- Masonry for wall staining in C.M. 1:6 above ground level and upto 1.5 mt depth below average ground level: using burnt brick of standard size - Brick Masonary in CM 1:6
- Structural steel work (Confirming to IS 4923- 1997) riveted, bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the

structural designs and directions of Engineer in charge.

- Cement plaster 20 mm thick rough coat with C.M. 1:3 incl watering curing etc. comp
- Providing cement pointing in Cement Mortar 1:3 to masonry work including raking out joints, scaffolding and curing etc. complete.

Item Sr. No. 25:

Fixing of MS Chamber cover including welding work.

Item Sr. No. 26:

Cleaning, crack filling and water proofing of existing Brick/RCC chamber.

Item Sr. No. 27:

Supply, Installation, testing and commissioning of **dewatering pump with float level switch & Control panel**. Work also includes construction of Suction pit in existing chamber including all work.

Description	Specification	Compliance
Application	Pumping all types of waste water, Disposal of sludges and solids-laden fluids	
Type	Submersible	
Level switch	Required, With potential free contact with Amp rating suitable for direct pump operation	
Operating Temp	0-50 Deg C	
Motor Cable length	Min. 10 Mtr or As per site requirement	
Material	Casing - CI, Shaft - CS, Impeller - CI	
Duty point	Min. discharge of 3.75 m ³ /Hr at 10 Mtr head or as per actual site requirement	
Motor rating	0.75 kW or Higher with single-phase AC motor	
Motor speed	as per OEM standard	
Discharge pressure, Connection	PN 6 or as per actual site requirement, Nominal dia -	



	DN50	
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Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, BOM, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacture place as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include Hydraulic performance and other as per manufacturer standard at OEM place.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Cover the pump with plastic tightly just after installing it on the Pipeline to avoid any damage during chamber construction.
- Construction of a drain pit at the bottom of the chamber.
- Supply & fixing of level float switch with proper cable dressing.
- Supply & fixing/hard of flexible hose pipe of nominal size of DN 50 mm with wall clamp.
- Supply & fixing of Control panel with provision of various control option & indication using (1) Start, stop push button (2) On, Off, Trip, Local, Remote etc indication and (3) Local, Remote, auto and Manual selector switch.
- Supply & fixing of NRV at discharge of pump to avoid return flow.
- Provision of Auto/Manual and Local/Remote operation in PLC Panel.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 28:

Uninstallation of existing Full bore type Electromagnetic flowmeter of size DN 600 mm with all associated work.

Scope of Work

- Excavation, backfilling, refilling, Restoration, Dewatering, line cutting, welding and all other work as per site requirement is in scope of work of agency.
- Cutting and welding work of MS Chamber cover and channel/beam, Breaking and restoration of existing valve chamber and restoration of the same as per site requirement to remove flowmeter safely from pipeline without any damage.



- Remove cable termination and dismantling of full-bore type Electromagnetic flowmeter and Metallic expansion bellow (if available at site) from pipeline.
- All necessary drilling, cutting, welding and other special work required to dismantle the entire system is in scope.
- Dismantling of Pole stand, Flow converter and all other accessories.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Agency to dismantle, handover all removed scrap like MS Specials, Cable tray, cables and other material to VMC and shift to a located place without any extra cost.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Note : Any damage happened to any part/accessories of Flow meter during dismantling, need to be repaired/replaced at cost and risk of agency.

Item Sr. No. 29:

Reinstallation of existing Full bore type Electromagnetic flowmeter of size DN 600 mm with all associated work.

Scope of Work

- Necessary Loading, unloading, transportation for shifting of Instrument/Equipment is in scope of work.
- Excavation, backfilling, refilling, Restoration, Dewatering, line cutting, welding and all other work is in scope of agency.
- Agency to provide and fix Flanges, Distance piece, Expander, Reducer, Sockets and all other MS related work in MS Special work only including necessary fabrication & labour work.
- Maintain minimum 5D Upstream and 2D downstream or as specified by respective manufacturer straight run during installation.
- Reinstallation of Flowmeter along with Metallic expansion bellow.
- Provide Rubber gasket for all flange joints.
- Provide proper earthing to SS ground rings.
- Cover the flow tube with plastic tightly just after installing it on the Pipeline to avoid any damage during chamber construction.
- Supply and fixing of Mounting brackets and other accessories.
- Supply & fixing of weatherproof (IP 55) enclosure with front glass and lockable door. All parts & accessories must be fixed properly inside the enclosure panel.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.



- Supply and fixing of Junction box with TBs and MCB within the Enclosure panel. All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- All cable must be properly terminated at both ends (Field side & PLC Panel) using lugs & gland.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 30 & 31:

Refurbishment of existing Full bore type Electromagnetic flowmeter of size DN 450 mm and DN 600 mm with all associated work from respective OEM only.

- Necessary Loading, unloading, transportation for shifting of Instrument/Equipment is in scope of work.
- Refurbishment work also includes calibration of flow meter as per OEM standard practice after refurbishment work.
- It include refurbishment of flow tube, transmitter and cables as per requirements.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 32:

Supply, Installation, testing and commissioning of DC powered Insertion type electromagnetic flowmeter of probe length of 700 mm/1000 mm (as per site requirement).

Description	Specification	Compliance
Type	Insertion Electromagnetic	
Application	Clear Water	
Flow measurement Direction	Bi-directional flow measurement	
Material	Wetted part - SS, Electrode – SS316 or Better and other as directed by EIC	
Process Connection	Threaded – Type & size as per actual site requirement	
Accessories	Isolation assembly and other as per site requirement	

Analog Output	4-20 mA	
Digital Output	Modbus (Rs-485)	
IP Rating	Sensor - IP 68 & Transmitter/Display - IP67 or better	
Pressure Rating	As per BOQ	
Insertion length	As per BOQ	
Accuracy	Min. +/- 2.0 % or Better	
Reading at Electrical Conductivity	$\geq 50 \mu\text{S/cm}$ for water	
Interface	Physical-Key	
Display/Transmitter	Remote display with backlit LED	
Cable length	Min. 20 Mtr. or as per site requirement	
Power	DC 24 V / 230 V AC (As directed by EIC)	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, P&I Diagram, wiring diagram, BOM, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacture place/**Government Lab (e.g. CWPRS/FCRI etc.)** as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include calibration of flowmeter by NABL Accredited OEM lab or Government Lab (e.g. CWPRS/FCRI etc.).
- Use “HOT tap” method for installation of flow sensor to avoid any shutdown.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Excavation, backfilling, refilling, Restoration, Dewatering, line cutting, welding and all other work is in scope of agency.



- Agency to provide and fix Flanges, Distance piece, Expander, Reducer, Sockets and all other MS related work in MS Special work only including necessary fabrication & labour work.
- Maintain minimum straight run of 5D Upstream and 2D downstream or as per standard installation guideline of respective OEM. (D = Diameter of Pipe line)
- Cover the flow sensor with plastic tightly just after installing it on the Pipeline to avoid any damage during chamber construction.
- Supply and fixing of Isolation assembly and other accessories.
- Supply & fitting of Flow tube and transmitter with all required accessories.
- Supply & fixing of weatherproof enclosure with front glass and lockable door. All parts & accessories must be fixed properly inside the enclosure panel.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Supply and fixing of Junction box with TBs and MCB within the Enclosure panel. All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- All cable must be properly terminated at both ends (Field side & PLC Panel) using lugs & gland.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 33:

Supply, Installation, testing and commissioning of DC powered 2 path Clamp on type ultrasonic flowmeter for line size of 1500 mm having flow accuracy of $\leq 1\%$.

Description	Specification	Compliance
Type	Non-invasive clamp-on type Ultrasonic	
Installation	Permanent	
No of Path	Dual	
No of Channel	2 Channel in single transmitter (For min. 4 Sensors)	
Application	Clear Water	
Flow measurement Direction	Bi-directional flow measurement	
Analog Output	4-20 mA	



Digital Output	Modbus (Rs-485)	
IP Rating	Sensor - IP 68 & Transmitter/Display - IP66 or better	
Pipe Size	1500 mm or as per actual site condition	
Pipe material	BWSC with inner and outer cement coating / MS / HS or as per actual site condition	
Accuracy @ Measuring point	Min. +/- 1% or Better	
Interface	Physical-Key	
Display/Transmitter	Remote display with backlit LED	
Sensor Cable length	Min. 10 Mtr. or as per site requirement for each sensor	
Power	DC 24 V	
Material	Housing : SS316	
Mounting accessories	Wall : Clamp/ Pole : Bracket or as per actual site requirement	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, P&I Diagram, Wiring diagram, BOM, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacturer place/**Government Lab (e.g. CWPRS/FCRI etc.)** as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include calibration of flowmeter by NABL Accredited OEM lab or Government Lab (e.g. CWPRS/FCRI etc.). Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.



- Excavation, backfilling, refilling, Restoration, Dewatering, line cutting, welding and all other work is in scope of agency.
- Agency to provide and fix Flanges, Distance piece, Expander, Reducer, Sockets and all other MS related work in MS Special work only including necessary fabrication & labour work.
- Maintain minimum straight run of 5D Upstream and 2D downstream or as per standard installation guideline of respective OEM. (D = Diameter of Pipe line)
- Cover the flow sensor with plastic tightly just after installing it on the Pipeline to avoid any damage during chamber construction.
- Supply & fixing of weatherproof enclosure with front glass and lockable door. All parts & accessories must be fixed properly inside the enclosure panel.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Supply and fixing of Junction box with TBs and MCB within the Enclosure panel. All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- All cable must be properly terminated at both ends (Field side & PLC Panel) using lugs & gland.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 34 & 35:

Supply, installation, testing and commissioning of ISI marked PN 16 Butterfly Valve as per IS 13095 with gear box suitable for electrical operation of sizes DN 450 mm & DN 600 mm as per tender specification and scope of work.

Description	Specification	Compliance
Type	Double Eccentric	
Flange provision	Double Flanged	
Gear Operation	Gear operated- Suitable for motorized operation	
Body type	Short body	
Design Standard	IS:13095	
Application	Clear Water	
Body & Disc Material	CI/DI or Better	
Shaft Material	SS 316 or Better	



Disc & Shaft seal	EPDM Rubber or Better	
Seat ring and Clamping ring	SS 316 or Better	
Flange Drilling standard/Connection	As per IS 1538 or suitable with Bellow/Adaptor	
Pressure Rating	As per BOQ	
Size	As per BOQ	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, P&I Diagram, wiring diagram, BOM, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacturer place as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include hydrotest and other as per manufacturer standard at OEM place.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Excavation, backfilling, refilling, Restoration, Dewatering, line cutting, welding and all other work is in scope of agency.
- Agency to provide and fix Flanges, Distance piece, Expander, Reducer, Sockets and all other MS related work in MS Special work only including necessary fabrication & labour work.
- Provide Rubber gasket for all flange joints.
- Cover the Valve with plastic tightly just after installing it on the Pipeline to avoid any damage during chamber construction.
- Construction of Brick Chamber with MS support Channel, Cover.
- Supply & fitting of BFV with gearbox and other accessories.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.
- **Clarification:**



- Electrical actuator will be provided by Client. Its installation and other as per tender specifications are in scope of bidder. Agency to provide suitable gearbox. Kindly refer BOQ Items for its make and model.

Item Sr. No. 36:

Supply of Handwheel of required size for existing BFV as per tender specification and scope of work.

Item Sr. No. 37:

Supply & fixing of Butterfly valve's shaft extension assembly includes but not limited to Item/work as mentioned below to complete work satisfactorily.

Item with specs (All Dimensions are in mm)

- 1) Spindle1 (Pipe) : ASTM A106, 1-1/4" sch. 160 x 2600L (1 Nos)
- 2) Flange : ASTM A105, 120 dia. x 18 Thk. (1 Nos)
- 3) Coupler : SS410, 45 dia. x 75L (1 Nos)
- 4) Stud, Nut & Washer : High Tensile Steel, M12 x 65L (4 Nos)
- 5) Spindle2 : SS410, 45 dia. x 250L, (1 Nos)
- 6) Key : EN19/EN24, 8 x 7 x 50L (2 Nos)
- 7) Bracket1 (Top & Bottom Plates): IS2062, 360 x 200 x 15 Thk. (2 Nos)
- 8) Angle : IS2062, 40 x 40 x 6 Thk. x 980L (4 Nos)
- 9) Plate : IS2062, 135 x 135 x 6Thk. (2 Nos)
- 10) Hex. Hd. Bolt, Nut & Washer : High Tensile Steel, M10 X 55L, (8 Nos)
- 11) Bracket2 (Top & Bottom Plates) : IS2062, 130 dia. x 16 Thk. (2 Nos)
- 12) Square Bar : IS2062 , 10 x 10 x 85L (4 Nos)
- 13) Hex. Hd. Bolt : High Tensile Steel, M10 x 25L (4 Nos)
- 14) Universal Joint with Flange: SS304 (1 Nos)

Work : Dewatering, welding, drilling/core cutting, gas cutting etc.

Item Sr. No. 38:

Supply & fixing of Canopy over existing Electrical actuator includes but not limited to Item/work as mentioned below to complete work satisfactorily.

- 1) Canopy (Roof,Plate) : IS2062, 730 x 660 x 2Thk., (1 Nos)
- 2) Pipe : ASTM A106, 1/2" Sch. 160 x 280L, (2 Nos)
- 3) Bottom Plate : IS2062, 420 x 240 x 4Thk., (1 Nos)
- 4) Hex. Hd. Bolt : High Tension Steel, M10 X 15L, (2 Nos)"

Item Sr. No. 39:

Supply, Installation, testing & Commissioning of position feedback transmitter includes Rotary potentiometer of linear characteristic, Loop powered 4-20 mA transmitter circuit with Zero/Span adjustment and all required mounting accessories suitable with existing electrical actuator (Make: Rotork, Model No: K150-F10-E).

Description	Specification	Compliance
Potentiometer type	Rotary	
Pot characteristics	Linear	
Output	4-20 mA	
Mounting Assembly	Suitable to actuator	

Scope of Work

- Put up all required documentation including but not limited to GAD, wiring diagram and all other as required by EIC for approval.
- Supply & fixing of Potentiometer, Signal conditioning unit, Gear assembly etc. as suitable to existing electrical actuator.
- Necessary Loading, unloading, packaging, forwarding, transportation, transit Insurance is in scope of work.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 40:

Supply & fixing of Remote/Local feedback switch with internal wiring work, fixing of existing Electrical actuator over extended assembly & testing, Limit/Torque setting, Existing Cable termination with Lugs & gland and all other minor modification work related to electrical actuator.

Item Sr. No. 41:

Necessary configuration & program development/modification in existing PLC, configuration & graphics development/modification in existing SCADA system to enable inching/partial valve operation.

Item Sr. No. 42:

Supply, Installation, testing and commissioning of Ultrasonic level transmitter having range up to 10 Mtr with remote transmitter.

Description	Specification	Compliance
Measurement type	Ultrasonic non-contact	
Process Connection	Threaded/Flange (As per site requirement)	



Mounting accessories	Required for both sensor(suitable with Threaded/Flange type) and transmitter(Wall/Pole mounting)	
IP Rating	Sensor - IP 68 & Transmitter/Display - IP65 or better	
Range	0 - 10 Mtr (Min.)	
Accuracy	+/- 0.15% or Better (Min. +/- 6 mm)	
Sonic Beam Angle	12 Degree or better with masking feature for narrow space	
Output	Analog 4-20 mA	
Interface	Physical-Key	
Display/Transmitter	Remote display with backlit LED	
Cable length	Min. 10 Mtr. or as per site requirement	
Power	Loop Powered or DC 24 V (For 4 wire)	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, P&I Diagram, Wiring diagram, BOM, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacturer place or NABL Approved Lab/Government laboratory (e.g. EQDC) as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include Calibration/validation for all Level transmitter & certification of the same, functionality test and other as per manufacturer standard at OEM place.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.



- Do core cutting of required diameter on the RCC slab.
- Supply & fitting of Level sensor & transmitter with all required accessories.
- Supply & fixing of Canopy for Sensor and weatherproof (IP 55) enclosure for transmitter with front glass and lockable door.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Supply and fixing of Junction box with TBs and MCB within the Enclosure panel. All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- All cable must be properly terminated at both ends(Enclosure panel & PLC Panel) using lugs & gland.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 43:

Supply & fixing of SS 316 material mounting flange with anchor fastners and all other required accessories for existing RCC floor mounted ultrasonic level transmitter.

Item Sr. No. 44:

Supply & fixing of GI Canopy for existing level transmitter.

Item Sr. No. 45:

Supply, Installation, testing and commissioning of PH, Chlorine & turbidity Analyzer panel with enclosure.

Note : Provide all sensors and transmitter from same OEM.

PH Sensor

Description	Specification	Compliance
Cable length	As per requirement	
Accuracy	+/- 0.1 PH or Better	
Mounting Type	Convertible	
Range	0 to 14 PH	
Temperature Compensation	Required - With PT100/PT1000/NTC Thermistor 300 Ohm or Better	
Electrode type	Differential	



Junction	Double, Replaceable	
Material	Body - PPS or PEEK or Better	

Chlorine Sensor

Description	Specification	Compliance
Cable length	As per requirement	
Accuracy	+/- 5 % (For 0-5 mg/Ltr range) & +/- 10 % (For 5-10 mg/Ltr range) or Better	
Measurement Parameter	Free Residual or Total Chlorine(As per Water pumping station's requirement or As directed by EIC)	
Method	DPD – Colorimetric	
Range	0-10 mg/Ltr	
Sample Time/count	Min. 5 sample per Hour of operation (Adjustable if possible)	
Enclosure IP Rating	IP 65 or Better	
Reagents	Required-One time	

Turbidity Analyzer

Description	Specification	Compliance
Cable length	As per requirement	
Accuracy	+/- 2.0 % or Better for range of 0-10 NTU	
Range	0-1000 NTU	

Multichannel Probe Module & Display unit (Transmitter)

Description	Specification	Compliance
Probe Channel	Min. 4 Channel (3 W + 1 S)	



Analog Output	Min. 4 nos * 4-20 mA Analog	
Digital Communication	Modbus (Rs485)	
Power Supply	230 V AC/24 V DC	
IP Rating	IP 65 or Better	
Interface	Physical-key	
Display	Remote display with backlight	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, P&I Diagram, Wiring diagram, BOM, QAP and all other required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacturer place/**Authorized Dealer's Warehouse** as well as site. Travelling must be provided to VMC representatives only by AIR outside Gujarat.
- QAP shall include but not limited to Calibration/validation for all analyzer & certification of the same, functionality test and other as per manufacturer standard.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will start from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency till successful commissioning of the entire system. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Agency to provide tapping on the Drum of ESR's Valve cluster or Main delivery line/Valve of MS/HS/CI/DI Material.
- Provide necessary sampling pump (As per site requirement).
- Necessary dewatering work, drilling, cutting, welding and other special work for successful commissioning of the entire system is in scope.
- Excavation in soft soil/CC/asphalt up to 1 Mtr depth, backfilling, watering, ramming, compaction and restoration of the same for laying of sample line & drain line underground.
- Supply, laying and fitting of GI and/or PVC pipe as directed by EIC with all accessories and fittings like Weld boss/Stud, Long/short handle Isolation valve, Air valve, union, coupling, elbow, Tee, dummy etc.
- Agency to supply Analyzers with all required accessories like Isolation valve, Tubing with fittings, Pressure regulator, Flow regulator, Inlet filter of 40 Micron or better, rotameter, pressure gauge, Enclosure/housing for sensors, Sample collector and other parts & accessories required for successful commissioning, smooth & efficient operation of the system.



- Supply & fitting of Pressure switch with all required accessories and/or flow switch for sample inlet feedback.
- Supply & fixing of weatherproof (IP 55) enclosure with front glass and lockable door. All parts & accessories must be fixed properly inside the enclosure panel.
- Agency to provide a separate enclosure for the Display unit if it is required to be installed at a remote location.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Supply and fixing of Junction box with TBs and MCB within the Enclosure panel. All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- All cable must be properly terminated at both ends (Analyzer panel & PLC Panel) using lugs & gland.
- Integration, logic and graphics development for Pressure/flow switch to PLC Panel and Existing SCADA system as directed by EIC.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 46:

Supply, Installation, testing and commissioning of PH, Turbidity Analyzer suitable for open channel.

Note : Provide all sensors and transmitter from same OEM.

PH Sensor

Description	Specification	Compliance
Cable length	Min. 10 Mtr. or as per site requirement	
Accuracy	+/- 0.1 PH or Better	
Mounting Type	Insertion/In open channel	
Range	0 to 14 PH	
Temperature Compensation	Required - With PT100/PT1000/NTC Thermistor 300 Ohm or Better	
Electrode type	Differential	
Junction	Double, Replaceable	



Material	Body - PPS or PEEK or Better	
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Turbidity Analyzer

Description	Specification	Compliance
Cable length	Min. 10 Mtr. or As per site requirement	
Mounting Type	In open channel	
Accuracy	+/- 2.0 % or Better for range of 0-10 NTU	
Range	0-1000 NTU	

Multichannel Probe Module & Display unit (Transmitter)

Description	Specification	Compliance
Probe Channel	Min. 2 Channel	
Analog Output	Min. 2 nos * 4-20 mA Analog	
Digital Communication	Modbus (Rs485)	
Power Supply	230 V AC/24 V DC	
IP Rating	IP 65 or Better	
Interface	Physical-key	
Display	Remote display with backlight	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, P&I Diagram, Wiring diagram, BOM, QAP and all other required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacture place/**Authorized Dealer's Warehouse** as well as site. Travelling must be provided to VMC representatives only by AIR outside Gujarat.
- QAP shall include but not limited to Calibration/validation for all analyzer & certification of the same, functionality test and other as per manufacturer standard.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.



- Warranty/DLP of instrument will start from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency till successful commissioning of the entire system. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Supply & fixing of weatherproof (IP 55) enclosure with front glass and lockable door. All parts & accessories must be fixed properly inside the enclosure panel.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Supply and fixing of Junction box with TBs and MCB within the Enclosure panel. All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- All cable must be properly terminated at both ends (Analyzer panel & PLC Panel) using lugs & gland.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 47:

Provide tapping on MS/HS/CI/DI water pipe line and Supply & fixing of U-pvc pipe line with necessary fittings, Isolation ball valve, NRV, coupler, union etc from ESR Main Delivery or Pump common header (For boosting station) to analyzer panel.

Item Sr. No. 48:

Restoration of existing PH, Chlorine analyzer panel with anti-rust treatment and oil painting suitable for MS panel and proper cleaning of various parts of panel as per instruction of EIC.

Item Sr. No. 49:

Supply & fixing of Weatherproof Enclosure panel for existing HACH/E&H make PH & Chlorine Analyzers with front glass and lockable arrangement with all required piping, fitting, flow switch, Cabling, Inlet strainer, Pressure regulatory valve, isolation valve, Rotameter, Pressure gauge etc as per tender specification and scope of work.

Item Sr. No. 50:

Supply, Installation, testing and commissioning of PLC Based RTU Panel with min. 4 AI, 4 DI, 4 DO and extra as per site requirement with 1 channel as a spare channel and DC UPS with 120 minutes min. Battery backup, CVT, SPD, Latest GPRS Modem.

Description	Specification	Compliance
Type	Modular/Compact (As per site requirement)	



Programming language supports	FBD, Ladder logic and other	
Expansion capability	Required future IO expansion	
Events and data logging capability	Internal + External	
Memory	RAM + Flash as per actual requirement	
I/O Requirements	As per BOQ	
Interface facility	1 Nos Ethernet port for Modem, 1 Nos Ethernet port for User, 1 Nos Serial RS485/RS232 port, Other as per actual requirement	
Processing Speed	As per actual requirement	
Power supply	24 V DC	
PLC Communication protocol	Must support DNP3(TCP/IP over VPN) communication protocol	
Modem	4G/5G, Dual SIM, Ethernet port & Serial port	
SMPS	24 V DC - redundant, Capacity required as per actual load	
Constant voltage transformer & Surge protection device	230 V AC CVT & SPD of required load capacity at input of UPS	
Other accessories	Control Push button, LED Lights for various status, MCBs, ELCBs, Utility socket, Cooling fan, Filters, LED Light, Space heater, thermostat, Door Switch	
TB	Spring TB - 20% spare of actual requirement of each type	
Power distribution	Power distribution required for Raw 3 Ph/1 Ph supply and UPS supply	

	with MCB/RCBO for all Equipment with spare MCB/RCBO	
UPS Power operation	24 V DC UPS	
UPS Type	Online	
UPS Capacity	All DC powered equipment must be available with power backup from UPS, agency to provide detailed load calculation	
Battery Backup time	Min. 120 Minute during all load operation	
DO	For various status - Potential free contact	
Battery type	Sealed maintenance free	
Battery voltage & capacity	As per UPS backup requirement	
Enclosure	2 mm Thick CRCA sheet, IP 55 Weatherproof, With 2 door arrangement, Lockable arrangement	

Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, P&I Diagram, Wiring diagram, BOM, Load calculation, I/O List, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacturer place/**Authorized Dealer's Warehouse** as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include DNP3 communication test and other as per manufacturer standard at OEM place.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.

- Supply & fixing of weatherproof (IP 55) enclosure with front glass and lockable door. All parts & accessories must be fixed properly inside the enclosure panel.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide proper earthing to panel, UPS, CVT and all other equipment.
- Programming, configuration, Graphics development in PLC.
- Integration of all Instruments to PLC and existing SCADA system.
- Provision of Dual sim card or Broadband internet connectivity with sufficient data plan and all statutory charges.
- Provide proper earthing to all Panel, Cable tray and all Electrical equipment. Earthing junction to be provided with copper strip.
- All Cable must be terminated at both end (PLC Side & Field Side) with Brass double gland and Copper lugs.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 51:

Provide 1 phase mgvcl electricity connection for RTU Panel includes liasoning with mgvcl, cost of SD, Fixed charges, TR charges, Registration charge, agreement etc.

Scope of Work

- Local survey, Survey with MGVCL team, necessary liasoning work with mgvcl, application procedure, all types of payment etc is in scope of work.
- Security deposit, application fee, fixed charges/Meter charges, Test report charges, all types of taxes, registration charges, agreement charges and all other charges/cost to be incurred by the agency.
- Supply & fixing of ELCB/MCB and other MGVCL side safety requirements must be fulfilled by the agency.
- Provision of MGVCL meter installation is to be provided in the PLC Panel itself with front glass cover. In case mgvcl refuses to provide MGVCL meter inside panel then in such case agency to provide other arrangement as directed by EIC.
- All works and Items which are required for successful commissioning and satisfactory performance of the entire system and/or as per requirement of EIC will remain in scope of this work.

Item Sr. No. 52:

Supply, Installation, testing and commissioning of 24 V DC 10 Amp SMPS.

Item Sr. No. 53:

Supply & fixing of AC/DC Cooling fan for existing PLC Panel.

Item Sr. No. 54:



Supply & fixing of AC/DC LED Tube light for existing PLC Panel.

Item Sr. No. 55:

Supply, Installation, testing and commissioning of 8 channel annunciator with buzzer, ack button & hooter.

Item Sr. No. 56:

Supply & fixing of suction filter for existing PLC Panel.

Item Sr. No. 57:

Do proper rewiring, dressing, ferulling of all cable, cleaning & painting of existing PLC/RIO Panel, Local Indicator and PDB Panels, prepare wiring diagram of existing PLC panel & PID drawing of Station and fix it in PLC Panel.

Item Sr. No. 58:

Integration of PLC Panel with all Instruments with existing SCADA system, portal, mobile app including necessary programming, configuration, graphics development etc.

Scope of Work

- Necessary programming, configuration of all Instruments, PLC, Modem, Firewall, SCADA etc. to successfully integrate all with existing SCADA system, Dashboard & Mobile Application.
- Graphics development, Logic development, Data Tag mapping in PLC/RTU and SCADA, Scripting in SCADA, Configuration in SWMS and all other work as directed by EIC.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 59:

Integration of single Instruments with existing SCADA system, portal, mobile app including necessary programming, configuration, graphics development etc.

Scope of Work

- Necessary programming, configuration of all Instruments, PLC, Modem, Firewall, SCADA etc. to successfully integrate all with existing SCADA system, Dashboard & Mobile Application.
- Graphics development, Logic development, Data Tag mapping in PLC/RTU and SCADA, Scripting in SCADA, Configuration in SWMS and all other work as directed by EIC.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful



commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 60:

Necessary Modifications/addition in existing PLC programming, SCADA Graphics, SWMS and Mobile App configuration, RTU Configuration, SCADA configuration, PLC Panel ferulling, All instrument tagging, Rewiring, wiring Diagram, P&ID diagram etc.

Details of existing Components:

PLC -> Schneider M340

SCADA -> i-Vision max

Modem -> Robustel/Teltonika

SWMS & Mobile App -> Third party developed

Item Sr. No. 61:

Supply, Installation, testing and commissioning of pipe-in-pipe chemical earthing of 150 mm bore, 2 Mtr length, 1 bag 25 Kg backfilling compound with earthpit.

Description	Specification	Compliance
Earthpit bore Dia	150 mm	
Technology	Pipe-in-pipe as per IS 3043-1987	
Earthing electrode material	Hot dipped GI pipe having, ID of 25 mm,	
Electrode Outer pipe	50 mm diameter having 80-200 Micron galvanizing	
Electrode Inner pipe	25 mm diameter having 200-250 Micron galvanizing	
Inner Chemical	Resistivity: -0.2 ohm/meter testing as per IEC 62561-2017, Voltage drop:-<1 volt at no load & dry form, Sulphur content:-<2%	
Backfill Compound	Earthing compound should be capable to retain moisture for long time	
Pipe Length	2 Mtr	
Backfilling compound	1 Nos bag of 25 Kg	



Scope of Work

- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Construction of an earth pit with cover.
- Excavation, backfilling and restoration work.
- Proper Filling of backfilling compound surrounding earthing rod.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 62 - 65:

Supply, laying and dressing of 1 Pair 1 sqmm, 3 Core 2.5 sqmm, 4 Core 2.5 sqmm, 12 Core 1 sqmm copper armoured cable.

Scope of Work

- Put up all required documentation including but not limited to Datasheet, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacture place **(Only applicable to total cable with length > 500 Mtr. in single work)** as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of cables will be started from successful commissioning date and not from the date of supply.
- Cables will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the cables will be the responsibility of the agency.
- Supply of Copper armoured/flexible cable of various sizes as per BOQ.
- Laying of Cable in trenches and/or dressing in cable tray.
- All Cable must be shielded, insulated, multi strand and as per Instrumentation cable IS standards.
- Excavation in soft soil/CC up to 1 Mtr depth, backfilling, watering, ramming, compaction and restoration of the same for laying of Cable underground.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful



commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 66:

Supply & fixing of 25mm*6mm GI Strip for Earthing.

Description	Specification	Compliance
Base Material	MS	
Coating Material	Zinc	
Coating Process	Hot dip as per standard practices	
Coating Thickness	Min. 70 Micron (Avg.)	
Strip Dimension	25 mm Wide, 6 mm Thick	

Scope of Work

- Supply & fixing of HOT deep Galvanised iron strip for earthing.
- Necessary cutting, bending and welding work to joint GI strip.
- Proper painting at joints and welded parts to avoid rusting.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 67 - 70:

Supply and fitting of double compression brass gland and copper lugs at both end of cable suitable for cable size of 1 Pair 1 sqmm, 3 Core 2.5 sqmm, 4 Core 2.5 sqmm, 12 Core 1 sqmm copper armoured.

Scope of Work

- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of cables will be started from successful commissioning date and not from the date of supply.
- Cables will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the cables will be the responsibility of the agency.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful



commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 71:

Supply, laying and fixing of HDPE cable conduit of size: 50 mm OD.

Scope of Work

- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Cable conduit will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the cable conduits will be the responsibility of the agency.
- Laying of conduit in trenches and/or fixing on brick wall/RCC surfaces. Excavation in soft soil/CC up to 1 Mtr depth, backfilling, watering, ramming, compaction and restoration of the same for laying of Cable conduit underground.
- Necessary drilling and other work is in scope.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 72 & 73:

Supply and fitting of perforated type cable tray of size 50 mm*25 mm*2 mm and 150 mm*25 mm*2 mm as per tender specification and scope of work.

Scope of Work

- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Cable tray will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the cable tray will be the responsibility of the agency.
- Supply of 2 mm thick ISI marked GI Cable tray of various sizes as per BOQ.
- Fixing of Cable tray as per site requirement satisfactorily with mounting bracket and fasteners.
- Necessary drilling, welding, cutting work is in scope.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 74:

Supply and fixing of MS Cable route marker with concrete foundation.

Scope of Work



- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Cable route markers will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the cable route markers will be the responsibility of the agency.
- Supply & fixing of GI Material route markers for all Cable.
- Excavation, Construction of CC foundation, backfilling, restoration etc work is in scope for fixing of route markers.
- Route markers shall be marked with “Inst. Cable” letter on 150 mm size GI Round shape Plate of thickness 6 mm.
- Different colour Painting on route marker and Letter.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 75:

Excavation and backfilling in soft soil for trenches.

Scope of Work

- Excavation of cable trenches up to 1 Mtr depth in soft soil as directed by EIC.
- Backfilling with existing or new soil, watering, compaction and proper levelling work.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ which is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No. 76:

Supply, Installation, testing and commissioning of DC Powered Loss of Head (LOH) and Rate of Flow (ROF) with remote transmitter using non-contact type Ultrasonic sensor including necessary profile and all other data configuration for proper LOH and ROF Reading.

Note: Ultrasonic level sensors (1 at Filter bed + 1 at Filter bed outlet channel) with compatible remote transmitter

Sensor

Description	Specification	Compliance
Measurement type	Ultrasonic non-contact, Principal - Time of flight	
IP Rating	Sensor - IP 68	



Range	0 - 10 Mtr or as per site requirement	
Sonic Beam Angle	12 Degree or better with masking feature for narrow space	
Cable length	Min. 20 Mtr. or as per site requirement	
Process Connection	Threaded/Flange	
Mounting accessories	Required bracket/flange	

Transmitter

Description	Specification	Compliance
Processing capability	Inbuilt configuration must be available for 1) Level Difference of both sensor (Loss of Head - LOH) 2) Rectangular Weir open channel flow rate (Rate of flow – RoF)	
Compatible units	Level difference in Feet, Meter etc. for LOH, Flowrate of open channel in M3/Hr, Ltr/Hr etc. for RoF	
IP Rating	IP65 or better	
Measuring points	Dual	
Accuracy	0.25% of program range or 6 mm whichever is higher	
Output	Min. 2*Analog 4-20 mA	
Digital communication	Modbus (RS485 Serial)	
Interface	Physical-Key	
Display/Transmitter	Remote display with backlit LED/LCD	
Power	Loop Powered or DC 24 V (For 4 wire)	
Mounting	Wall/Pole	



Accessories	Mounting accessories Brackets	
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Scope of Work

- Put up all required documentation including but not limited to Datasheet, GAD, Dimensional drawing, P&I Diagram, Wiring diagram, BOM, QAP and all other as required by EIC for approval.
- Carry out inspection along with TPI agency, PMC and VMC representative at OEM/manufacture place or NABL Approved Lab/Government laboratory (e.g. EQDC) as well as the site. Travelling must be provided to VMC representatives by AIR only outside Gujarat.
- QAP must include Calibration/validation for Flow and Level transmitter & certification of the same, functionality test and other as per manufacturer standard at OEM place.
- Necessary Loading, unloading, packaging, forwarding, transportation, Insurance is in scope of work.
- Warranty/DLP of instrument will be started from successful commissioning date and not from the date of supply.
- Instrument will remain in custody of the agency in between supply and commissioning period. During this time period, any damage/fault happened to the instrument will be the responsibility of the agency.
- Supply & fitting of Level sensor & transmitter with all required accessories.
- Supply & fixing of Canopy for Sensor and weatherproof (IP 55) enclosure for transmitter with front glass and lockable door.
- Supply & fixing of all required mounting accessories like fabricated stand, support pole or bracket to mount Enclosure panel on floor or wall.
- Provide Instrument tagging to each Instrument with Unique ID on SS tag.
- Supply and fixing of Junction box with TBs and MCB within the Enclosure panel. All Cable must be properly terminated with cross ferruling. Also laminated wiring diagram to be provided inside the enclosure.
- All cable must be properly terminated at both ends (Enclosure panel & PLC Panel) using lugs & gland.
- Agency to consider cost of all work, parts and accessories in respective line items of BOQ in case it is not specified in BOQ/Tender but necessary for successful commissioning of instruments. No extra cost will be provided for such work, parts & accessories.

Item Sr. No.77:

Do proper PM, ferruling, tagging and configuration of Instrument.

Defect Liability Period - PENALTY

If contractor fails to do Breakdown Maintenance, then below penalty will be applicable and it will be deducted from Running Bill and/or Security deposit/performance



guarantee/Retention money of Agency.

Sr. No.	Description	Penalty applicable period	Penalty amount
1	Breakdown of any installed equipment	After 1 week of intimation/breakdown of any equipment	10,000/- per week

Note: Intimation will be provided by call/ message/mail/ written and all will be considered valid.

- 1) If contractor fails to attend any kind of defect during DLP/AMC Period, VMC reserves the rights to execute the same with cost and risk of other contractor. The amount of the same work will be recovered from the Running Bill and/or Performance guarantee/Security deposit and/or retention money.

APPROVED VENDOR LIST

Sr. NO.	MATERIAL / WORK	SUPPLIER / MANUFACTURER / VENDOR / AGENCY
1	PRESSURE TRANSMITTER	VEGA/WIKA/DANFOSS/E&H/ SIEMENS/ ABB/ KROHNE MARSHALL/ YOKOGAWA/ HONEYWELL/BAUMER
2	ENCLOSURE	BCH/ ELDON/ ENCLOTEK/ HENSEL/ LEGRAND/ RITTAL
3	FLOW METER	E&H / SIEMENS/ ABB/ KROHNE MARSHALL/ EMERSON
4	METALLIC EXPANSION BELLOW	DHRUV/ TECHNOFLEX/ PRECISE ENGG. / FLEXICAN BELLOWS & HOSES/ FLEXPART BELLOWS
5	CEMENT	ULTRATECH /ACC /AMBUJA /BINANI / CORAMANDEL / BIRLA SUPER./ JK CEMENT LTD
6	BRICKS	ORDINARY BURNT CLAY BRICKS OF ANY BRAND CONFORMING TO IS: 1877 WITH MINIMUM CRUSHING STRENGTH OF 40 KG / CM ² AND WATER ABSORPTION RATIO RESTRICTED TO 25% FOR BRICKS USED IN PANEL WALLS AND 20% FOR BRICKS USED IN LOAD BEARING WALLS
7	DEWATERING PUMP	KIRLOSKAR / JYOTI/ WILO/ WPIL/ FLOWMORE/ BEACON WIER / KSB
8	BUTTERFLY VALVES	KIRLOSKAR/ IVC/ IVI/ VAG/ AVK/ JUPITER/ HAWA ENGINEERS LTD
9	ULTRASONIC LEVEL TRANSMITTER/LOH/ROF	ABB/ E&H/ KROHNE MARSHALL/ SIEMENS/ EMERSON/ VEGA
10	PH, CHLORINE & TURBIDITY ANALYZER	E&H/ EMERSON/ HACH/ POLYMETRON/ XYLEM(WTW)/ FORBES MARSHALL/ YOKOGAWA
11	PROGRAMMABLE LOGIC CONTROLLERS (PLC)	ROCKWELL (ALLEN BRADLEY)/ SIEMENS/ SCHNEIDER/ ABB/ GE/ HONEYWELL/ MITSUBISHI/ PHOENIX
12	SMPS	PHOENIX/ SELEC/ OMRON/ MENAWELL/ APLAB/ SCHNEIDER/ SIEMENS
13	AC/DC UPS	DELTA/ PHOENIX / LUMINUS/ NUMERIC/ EMERSON (LIEBERT /



		VERTIV)/ SCHNEIDER (APC)
14	BATTERY	EXIDE / HBL POWER SYSTEMS LTD./ AMARON
15	MODEM	D-LINK/ AXITECH/ NET-GEAR/ MOXA/ MAESTRO (LANTRONIX)/ ROBUSTEL/ TELTONIKA
16	INSTRUMENT CABLES (POWER / SIGNAL / CONTROL)	POLYCAB/ RR CABLE/ HAVELLS/ FINOLEX / AVOCAB / CCI / KEI/ RPG CABLES (KEC INTERNATIONAL)/ GLOSTER
17	LED LIGHT FIXTURES	BAJAJ / CGL / GE / HAVELLS / PHILIPS / SURYA / WIPRO

Makes which are not listed in above approved vendor list shall be as per the direction of VMC/EIC.

Signature of Tenderer(s) with the seal of the firm.

SECTION - 6

FORM OF BID



FORM OF BID

Description of the Works:

BID

To :

Address :

1. We offer to execute the Works described above and remedy any defects therein in conformity with the conditions of Contract, specification, drawings, Bill of Quantities and Addenda for the sum (s) of

(-----)

2. We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works in the Contract within the time stated in the document.
3. We agree to abide by this Bid for the period of 120 Days from the date fixed for receiving the same, and it shall remain binding upon it and may be accepted at any time before the expiration of that period.
4. Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this -----day of 20

Signature ----- in the capacity of -----

----- duly authorized to sign bids for and on behalf of -----

(in block capitals or typed)



Address

Witness

Address

Occupation



SECTION - 7
BILL OF QUANTITIES

BILL OF QUANTITIES

Preamble

1. The bill of Quantities shall be read in conjunction with the Instructions to Bidder, Conditions of Contract, Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, layout, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The rates and prices shall be quoted entirely in Indian Currency.
5. A rate or prices shall be entered against each item in the Bill Quantities, whether quantities are stated or not. The cost of Items against which Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities (in case of Item rate contract).
6. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related items of Work.
7. General direction and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering rates or prices against each item in the Bill of Quantities.
8. The method of completed work of payment shall be in accordance with the specification for Road and Bridge works. For building works specifications for building are to be followed.
9. Errors will be corrected by the Employer for any arithmetic errors pursuant to **Clause 29** of the Instructions to Bidder.
10. Rock is defined as all materials which, in the opinion of the Engineer, required blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for its removal, and which cannot be extracted by ripping with a tractor of at least 150 kw with a single rear mounted heavy duty ripper.

**BILL OF QUANTITIES****(A) Percentage Rate Tender (Up to INR 50 Cr.)**

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

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

Estimated amount put to tender

Estimated amount put to tender

Deduct.....% below

Add.....% Above

Net

Net

In words

In words

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

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

~~(A) Total Tendered Amount~~~~(B) Rebate on above tendered amount (if any) % (in figure)~~



(in words).....

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

(in words).....

#

1	The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.(for works greater than 5 Lakhs). The Board shall mention Address, Phone number and Fax Number of Executive Engineer of department of which work is ongoing. 1% of contract value shall be put up on hold until contractor do not install board and provide photographs. The work where length is more then such boards shall be placed at starting and ending and if required in middle.
2	The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.
3	GST and Income tax TDS will be deducted at a source while making payments of bills as per prevailing act and rules.
4	In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC 10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.



SECTION - 8

SECURITIES AND OTHER FORMS



BID SECURITY (BANK GUARANTEE)

WHEREAS, ----- (name of Bidder) (hereinafter called the "The Bidder") has submitted his bid Dated ----- (Date) for the construction of -----
-- (Name of Contractor hereinafter called "the Bid")

KNOW ALL PEOPLE by these presents that We -----

(name of Bank) of ----- (name of country) having
our registered ----- office at -----
----- (hereinafter called "the bank") are bound unto -----
----- (name of Employer) (hereinafter called "The Employer") in the sum of* for
which payment well and truly to be made to the said Employer the Bank itself, his successors
and assigns by these presents.

SEALED with the Common Seal of the said Bank this ----- day of 20

THE CONDITIONS of these obligations are:

(1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified
in the Form of Bid;

Or

(2) If the Bidder has been notified of the acceptance of his bid by the Employer during the
period of Bid Validity:

A Fails or refuses to execute the Form of Agreement in accordance with the Instructions to
Bidders, if required; or

B. Fails or refuse to furnish the Performance Security, in accordance with the Instructions to
Bidders; or

C. does not accept the correction of the Bid Price pursuant to Clause 27 (Correction of Errors)

We undertake to pay to the Employer up to the above amount upon receipt of his first written
demand, without the employer having to substantiate his demand, provided that in his demand
the Employer will note that the amount claimed by him is due to him owing to the occurrence
of one or any of the three conditions, specifying the occurred conditions or conditions.

This Guarantee will remain in force up to and including the date

-----*

*days after the deadline for submission of Bids as such the deadline is stated in the Instructions
to Bidders or as it may be extended by the Employer, notice of which extension (s) to the Bank
is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than
the above date



DATE -----

SIGNATURE-----

-

WITNESS -----

SEAL-----

-

(Signature, name and address)

* The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 16.1(Bid Security) of the Instructions to Bidders.

****45 days** after the **end of the validity period** of the Bid. Date should be inserted by the Employer before the Bidding documents are issued.



PERFORMANCE SECURITY

TO,

----- (Name of Employer)

----- (Address of Employer)

WHEREAS----- (name and address of contractor)
(hereafter called "the Contractor") has undertaken, in pursuance of Contracts No. -----
----- dates ----- to execute ----- (name of Contract and brief
description of Works) (hereinafter called "The Contract")

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractors such a bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of ----- (amount of guarantee)*(in words), such sum being payable in types and proportions of currencies in which the Contract prices is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of -----
----- (amount of guarantee) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting is with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to of the Works to be performed thereunder or of any of the Contract documents which may be made between your and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such charge, addition or modifications.

This guarantee shall be valid until 60 days from the date of expiring of the Defect Liabilities period.

Signature and Seal of the guarantor -----

Name of Bank -----

Address-----

Date-----

*An amount shall be inserted by the Guarantor, representing the percentage the Contract price specified in the Contract denominated in Indian Rupees.



ADDITIONAL PERFORMANCE SECURITY

[Clause 34.1. (A)]

TO,

----- (Name of Employer)

----- (Address of Employer)

WHEREAS----- (name and address of contractor)
(hereafter called "the Contractor") has undertaken, in pursuance of Contracts No. -----
----- dates ----- to execute ----- (name of Contract and brief
description of Works) (hereinafter called "The Contract")

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractors such a bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of ----- (amount of guarantee)*(in words), such sum being payable in types and proportions of currencies in which the Contract prices is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of -----
----- (amount of guarantee) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting is with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to of the Works to be performed thereunder or of any of the Contract documents which may be made between your and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such charge, addition or modifications.

This guarantee shall be valid until 28 days from the date of expiring of the Defect Liabilities period.

Signature and Seal of the guarantor -----

Name of Bank -----

Address-----

Date-----



BANK GUARANTEE FOR ADVANCE PAYMENT

TO,

----- (Name of Employer)
----- (Address of Employer)
----- (Name of Contractor)

Gentlemen:

In accordance with the provisions of the Conditions of Contract, sub-clause 51.1 ("Advance Payment") of the above mentioned Contract, ----- (name and address of Contractor) (hereinafter called "the Contractor") shall deposit with (name of Employer) a bank guarantee his proper and faithful performance under the said Clause of the Contract in an amount of (amount of Guarantee)* ----- in words).

We, the (bank of financial institution), as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to - ----- (name of Employer) on his first demand without whatsoever right of obligation on our part and without his first claim to the Contractor, in the amount not exceeding ----- (amount of guarantee)* words)-----

We further agree that no change or addition to or other modifications of the terms of the Contractor or Works to be performed thereunder or of any of the Contract documents which may be made between ----- (name of Employer) and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modifications.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until ----- (name of employer) receives full repayment of the same amount from the contractor.

YOUR'S TRULY

Signature and Seal _____ Name of
Bank/ Financial Institution _____
Address _____
Date _____

* An amount shall be inserted by that Bank or Financial Institution representing the amount of the Advance Payment, and denominated in Indian Rupees.



Letter of Acceptance

(Letter head paper of the Employer)

_____ (date)

To,

_____ (Name and address of the Contractor)

Dear Sirs,

This is to notify you that your Bid dated _____ for execution of the _____ (Name of the contract and identification number, as given in the Instructions to Bidders) for the Contract Price of Rupees _ (₹) (amount in words and figures) as corrected and modified in accordance with the Instructions to Bidders* is hereby accepted by our agency.

You are requested to furnish performance security, in the form detailed in para 34.1 of ITB for an amount equivalent to Rs. _____ within **10 days** of the receipt of this letter of acceptance up to beyond **60 days** from the date of expiry of defects Liability period i.e. up to _____ and the Additional Performance Security for an amount equivalent to Rs. _____ shall be valid beyond 28 (twenty-eight) days of Project Completion Date i.e. up to _____ and sign the contract, failing which action as stated in Para 34.3 of ITB will be taken.

Yours Faithfully

Authorized Signature Name and title of Signatory Name of Employer

* Delete "Corrected and" or and modified if only one of these actions applies. Delete as corrected and modified in accordance with the Instructions to Bidders, if corrections or modifications have not been affected.



Issue of Notice to proceed with the work
(Letterhead of the Employer)

----- (date)

To,

_____ (Name and address of the Contractor)

Dear Sirs,

Pursuant to your furnishing the requisite security in ITB Clause 34.1 and signing of the Contract for the construction of _____

_____ at a bid Price of Rs.

_____.

You are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully

(Signature, name and title of signatory authorized To sign on behalf of Employer)



AGREEMENT FORM

This agreement, made on the _____ day of _____ Between _____ (name and address of Employer) (Hereinafter called "the Employer) and _____ (name and address of Contractor) hereinafter called "the Contractor" of the other part.

Whereas the Employer is desirous that the Contractor execute

Name and identification number of contract (hereinafter called "the works") and the employer has accepted the Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein, at a cost of Rs.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read construed as part of this Agreement.
2. In Consideration of the payment to be made by the Employer to the contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to executive and complete the works and remedy any defects therein in conformity in all aspects with the provisions of the contracts.
3. The employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying the defects wherein contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the contract.

4. The Following documents shall be deemed to form and be ready and construed as part of this Agreement viz

- i) letter of Acceptance
- ii) Notice to proceed with the works:
- iii) Contractor's Bid



- iv) Conditions of contract: General and Special
- v) Contract Data
- vi) Additional conditions
- vii) Drawings
- viii) Bill of Quantities and
- ix) Any other documents listed in the Contract
data as forming part of the Contract.

In witness whereof the parties there to have caused this Agreement to be executed the day and year first before written

The Common seal of __ Was hereunto affixed in the presence of :

Signed, sealed and Delivered by the said _____

In the presence of

Binding signature of Employer _____

Binding Signature of Contractor _____



UNDERTAKING

(For Investment)

I, _____ the undersigned do hereby undertake that our firm
M/s _____ would invest a minimum cash up to
25% of the value of the work during implementation of the contract.

(Signed by an Authorized officer of the firm)

Title of officer _____

Name of firm _____

DATE _____



UNDERTAKING

(For Validity)

I, the undersigned do hereby undertake that our firm M/s
..... agree to abide by this bid for a period days for date fixed for
receiving the same and it shall be binding on us and may be accepted at any time before the
expiration of that period.

(Signed by an Authorized officer of the firm)

Title of officer

Name of firm

DATE



Site Visit Certificate

(To be submitted separately in sealed Envelope B, Vol.-I Pre-qualification document)

I/we _____, authorized representative of M/s _____ have visited the site of Instrumentation work at various water sources, water distribution stations and main feeder line network of water works department of VMC. (% Rate basis) (2nd Attempt)." On Date. _____, 2025/26.

We have inspected and evaluated the existing site with reference to its location, soil conditions, sub soil water table, etc. We have submitted this offer after satisfying ourselves about the local conditions, local costs, etc.

Signature of the Tenderer



OEM Certificate
(to be submitted by manufacturers)

To,
Executive Engineer,
Water Works (Ele./Mech.),
Vadodara Municipal Corporation

Sub: Product Compliance with the tender specifications

Dear Sir
Tender No
Equipment Name

1. We (Name of the OEM) declare that we are the original manufacturers of the above equipment having registered office at (Full address with telephone number/fax number & email ID and website), and having factories at
2. We hereby declare that we are willing to provide guarantee/warranty and after sales service during the period of warranty/guarantee as per the above tender.
3. We also hereby declare that we have the capacity to manufacture and supply the quantity of the equipment's tendered within the stipulated time

(Name) for and on behalf of
M/s. _____
(Name of manufacturers)

Date:
Place:

Note: This letter of authority shall be on the letterhead of the manufacturing concern and signed by a person competent and having the power of attorney to bind the Manufacturer. The products coated are not end of life and shall be available and support spares and service of the coated products for the 5 yrs.

Remarks:

- Contractor shall provide OEM Certificate for Flow meter, Analyzer and other Major item as directed by EIC.
- OEM certificate is required to submit at the time of approval of respective item by successful bidder.



MANUFACTURER'S AUTHORISATION FORM
(to be submitted by authorized dealers/representatives/importers)

Dated:

To
Executive Engineer,
Water Works (Ele./Mech.),
Vadodara Municipal Corporation

Sub: Product Compliance with the tender specifications

Tender No

Equipment Name:

Dear Sir,

1. We (name of the Manufacture) are the original manufacturers of the above equipment having registered office at (full address with
2. telephone number/fax number & email ID and website), having factories at and, do hereby authorize/s _____ (Name and address of tenderer) to submit tenders, and subsequently negotiate and sign the contract with you against the above tender no..
3. We also hereby undertake to provide full guarantee/warranty /CMC/AMC as agreed by the tenderer in the event the tenderer is changed as the dealers or the tenderer fails to provide satisfactory after sales and service during such period of Comprehensive warranty/CMC/AMC and to supply all the spares/reagents during the said period.
4. We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipment's tendered within the stipulated time.

(Name) for and on behalf of

M/s. _____

(Name of manufacturers)

Date:

Place:

Remarks:

- Contractor shall provide OEM Certificate for Flow meter, Analyzer and other Major item as directed by EIC.
- Manufacturer's Authorization form is required to submit at the time of approval of respective item by successful bidder.



Declaration Form

1. I/We hereby declare that I/We have visited the site of the work and have fully acquainted myself/ourselves with the local situation and other factors pertaining to the work before submitting the tender.
2. I/We hereby declare that I/We have carefully studied the Condition of Contract, specification and other Tender Documents of this work and agreed to execute the same accordingly.
3. I/We hereby declare that I/We am/are partner(s) not blacklisted or connected with firm blacklisted in state, semi govt. Municipal Corporation, or any government undertaking institute or any autonomous corporate bodies.
4. We, then partners of this firm hereby, give an undertaking that we are jointly and severally responsible to meet all liabilities over and above the business of this firm and make good any the above financial loss sustained by the VMC as a result of our abandoning the work or works, entrusted to us i.e. this firm. I/We hereby undertake and submit in the bid along with supporting documents, are true which are corrected and valid throughout the contract period.
5. I/We hereby agree to abide by and fulfil the terms and provisions of conditions of contract annexed here to so far as applicable and in default thereof to forfeit the earnest money mentioned in the said condition.

1. Receipt No. _____ dated _____ from the _____
2. Signature of Contractor (Before Submission of tender) _____
3. Name of Tendered: _____
4. Address _____
5. Dated the _____ day of _____ 20
6. (Witness) _____
7. (Address) _____
8. (Occupation) _____

Date:

Signature with seal of the company



Schedule - Planning

Method Statement

1. The project is for Selection of Agency for – (Name of work as per Notice Inviting Tender)

The Employer's indicative guidelines on Methodology are given in the Employer's Requirement which may be followed.

2. The Bidder is required to submit Approach and Method Statement for carrying out work of along with the technical bid. The Bidder's approach and method statement shall be in line with the overall principle of the Employer. The instrumentation capable of transferring the real time data to the SCADA system shall include the parameters of performance evaluation of the contractor during the Comprehensive operation, maintenance and service delivery.

3. The activities for methodology shall also include following:

- (i) Phasing of works, cost effective value Engineering and drawings
- (ii) Implementation schedule along with methodology as per scope of works:
- (iii) Comprehensive Operation and maintenance Services:
- (iv) Customer services;
- (v) Safeguard activities;

Work plan:

1. The Bidder will submit detailed work plan as part of Technical proposal covering all sections of work to achieve sectional and full work key milestones as shown in Employer's Requirement

Mobilization Schedule

2. The Bidder shall submit mobilization and de-mobilization schedule of personnel and equipments in detail for all phases of works. The mobilization schedule should include mobilization of skilled and unskilled manpower, different machineries and equipment, materials, as required in each Phase.

Construction Schedule

The Bidder shall prepare and submit overall construction schedule. The construction schedule shall be designed and documented in a series of tasks and task assignments complete with projected completion target dates with the aid of computer operated management software like Microsoft project office, Primavera or latest by using Gantt charts and PERT diagrams to allow all actors to know their contribution towards fulfilling the Employer's Requirement.



ACCEPTANCE OF TENDER

Tender No:

To,

The Municipal Commissioner,
Vadodara Municipal Corporation,
Khanderao Market Building,
Palace Road, Vadodara-390 209.

I/We hereby accept tender for execution of the work of “Instrumentation work at various water sources, water distribution stations and main feeder line network of water works department of VMC. (% Rate basis) (2nd Attempt) .”

As per tender within the time schedule of completion of work for jobs, signed and accepted by me/us, at the rates quoted by me/us for the whole work on turnkey basis in accordance with Tender Notice, Terms and Conditions of the contract, Specifications for materials and workmanship, drawing etc. all as detailed in the tender document.

It has been explained to me / us that time stipulated for completion of jobs in all respect and in different stages mentioned in the “Time Schedule of Completion of job” and signed and accepted by me/us is the essence of the contract. I/We agree that in the case of failure on my/our part to strictly observe the time of completion of work in all respect according to the schedule set out in the said “Time Schedule of Completion of job”, I/We shall pay compensation to the owner as per provision and stipulations contained in conditions of contract and I/We agree for recovery being made as specified therein. In exceptional circumstances extension of time which shall always be in writing may however be granted by the Engineer - in - charge at his entire description of some items of work and I/We agree that such extension of time will not be counted for the extension of completion of works as stipulated for jobs and for the final completion of works as stipulated in the said “Time Schedule of Completion of jobs.”

I/We agree to pay the earnest money and security deposit and accept the terms and conditions as laid down in the memorandum below in this respect.

Signature of Tenderer(s) with the Seal of the firm



Acceptance of Bank Guarantee as
Security Deposit and Earnest
Money Deposit.

Government of Gujarat

Finance Department

GR. No.: FD/MSM/e-file/4/2024/2859/D.M.O.

Date: 01/05/2025

Read: FD GR. No.: FD/MSM/e-file/4/2023/4020/D.M.O Dt 11/03/2024

Preamble:

Tendering authorities of the State Government and its Boards/Corporations/PSUs frequently take Bank Guarantee from the bidders towards Security Deposit and Earnest Money Deposit. The State Government had issued the list of eligible banks vide above mentioned resolutions of this department dated 11/03/2024.

After careful consideration, the Government has decided to approve the list of Banks whose Bank Guarantees would be accepted for the purpose mentioned above. It has now been decided to resolve as follows:

Resolution:

Government Departments and State Government Boards/Corporations/PSUs would accept Bank Guarantee (towards Security Deposit and Earnest Money Deposit) issued by any of the banks included in the **Annexure I**, attached to this Resolution.

The tendering authority will be required to ascertain the authenticity of the Bank Guarantee and set up necessary internal control procedures.

By order and in the name of the Governor of Gujarat.



(Arvind V.)

Joint Secretary (Budget)
Finance Department



Annexure I.

Finance Department, GR. No.: FD/MSM/e-file/4/2024/2859/D.M.O.

Date: 01/05/2025

- (A) Guarantees issued by the following banks will be accepted as SD/EMD on a permanent basis:

❖ All Nationalized Banks

- (B) Guarantees issued by the following Banks will be accepted as SD/EMD for the period up to March 31, 2026. The validity cut-off date in the GR is with respect to the date of issue of Bank Guarantee irrespective of the date of termination of Bank Guarantee.

Sr No	Name of Banks	Sr No	Name of Banks
1	AXIS Bank	22	South Indian Bank
2	AU Small Finance Bank	23	Standard Chartered Bank
3	Bandhan Bank	24	Tamilnad Mercantile Bank
4	Barclays Bank	25	Utkarsh Small Finance Bank
5	City Union Bank	26	YES Bank
6	CSB Bank	27	Ahmedabad Mercantile Co-op. Bank
7	DBS Bank India Limited	28	Nutan Nagrik Sahkari Bank Ltd.
8	DCB Bank	29	Rajkot Nagarik Sahakari Bank Ltd.
9	Equitas Small Finance Bank	30	Saraswat Co-Operative Bank Ltd
10	ESAF Small Finance Bank	31	SBPP Co-operative Bank Ltd.
11	FEDERAL Bank	32	SVC Co-Operative Bank Ltd.
12	HDFC Bank	33	The Cosmos Co-op Bank Ltd.
13	HSBC Bank	34	The Gujarat State Co-operative Bank
14	ICICI Bank	35	The Mehsana Urban Co-Op. Bank
15	IDBI Bank	36	The Surat District Co-op Bank
16	IDFC First Bank	37	The Surat People's Co. Op. Bank Ltd
17	Jammu and Kashmir Bank	38	The Kalupur Commercial Co-op. Bank
18	Jana Small Finance Bank	39	The Panchmahal District Co-operative Bank
19	Karnataka Bank	40	The Baroda District Co-operative Bank
20	Karur Vysya Bank	41	Baroda Gujarat Gramin Bank
21	Kotak Mahindra Bank	42	Saurashtra Gramin Bank

All the eligible banks are instructed to collect the original documents/papers of guarantee from the concerned tendering authority.

(Arvind V.)

Joint Secretary (Budget)
Finance Department