

PRE-QUALIFICATION BID

RE-CONSTRUCTION OF MINOR BRIDGES, SLAB DRAINS, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEVBHUMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT. (PACKAGE - 2)

**Superintending Engineer
Panchayat (R&B) Circle - 1
Rajkot**

1.0 INTRODUCTION

Documents for contractor's pre-qualification are invited for project namely **RE-CONSTRUCTION OF MINOR BRIDGES, SLAB DRAINS, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEVBHUMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT. (PACKAGE - 2)** The details of contract together with its estimated cost are given in para no.4 hereunder. The other tender documents i.e. price bid will be opened subsequently only of those parties selected by the employer (Govt.) as having necessary qualification / suitability to perform the contract satisfactorily.

- (i) Documents for pre-qualification bid and the price bid will be issued to the contractors registered in " AA" class with Special Category-I (Bridge) and above class contractor in state of Gujarat or equivalent class in other states, C.P.W.D. etc.
- (ii) Joint venture is not allowed.

2.0 Employer:

Superintending Engineer
Panchayat (R&B) Circle -1,
Rajkot.

2.1 Employer's Representative:

Executive Engineer
Panchayat (R&B) Division,
Devbhumi Dwarka.

Gujarat state on behalf of Governor of Gujarat.

3.0 ENGINEER-IN-CHARGE: -

Name	:	Executive Engineer
Address	:	Panchayat (R & B) Division, Devbhumi Dwarka.
Telephone Number	:	

4.0 NAME OF WORK: -

DESCRIPTION	ESTIMATED COST (Rs. In lacs)	TIME LIMIT
RE-CONSTRUCTION OF MINOR BRIDGES, SLAB DRAINS, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEVBHUMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT. (PACKAGE - 2)	1345.00	14 (Fourteen) Months

5.0 LOCATION OF WORK AND SITE INFORMATION:

The proposed construction work is to be carried out at

RE-CONSTRUCTION OF MINOR BRIDGES, SLAB DRAINS, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEVBHUMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT. (PACKAGE - 2)

5.1 SCOPE OF WORK : Item-wise details of work are however as per Schedule-B named as price bid and as per the detailed approved GAD

5.2 ESTIMATED COST : **Rs. 13,45,00,407.67** (Put to Tender)

6.0 SALIENT FEATURES OF PROPOSED Road: -

I Name of work: : **RE-CONSTRUCTION OF MINOR BRIDGES, SLAB DRAINS, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEVBHUMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT. (PACKAGE - 2)**

II Location :

1. Vasai Hamusar Road - Km.16/800 to 16/820 (ODR) – Taluka – Dwarka (Hume pipe Drain)
2. Padali To Goriyali Road Km.4/600 To 4/800 (ODR) – Taluka – Dwarka (Hume Pipe Drain)
3. Gaga Approach Road Km.3/000 to 3/600 (MDR) – Taluka – Kalyanpur (Hume Pipe Drain)
4. Bhatvadiya Gokalpar Road Km.2/500 to 2/700 (ODR) – Taluka – Kalyanpur (Hume Pipe Drain)
5. Dholamulavasar Nanabhavda Aniyaari Khatumba Road Km. 7/400 to 7/600 (ODR) – Taluka - Dwarka (Vented Causeway)
6. Gaga Approach Road Km.3/600 to 3/800 (MDR) – Taluka – Kalyanpur (Hume Pipe Drain)

7. Kenedi to Khakhara Road Km.0/400 to 0/600 (VR) – Taluka – Kalyanpur (Vented Causeway)
8. Jambusar Joshipara To Join MDR Road Km.1/250 to 1/350 (VR) – Taluka- Bhanvad (Vented Causeway)
9. Sanosari To Jamdevaliya Road Km.1/100 to 1/300 – Taluka – Kalyanpur (Vented Causeway)
10. Vasai Hamusar Road Between Km.16/200 to 16/220 (ODR) – Taluka – Dwarka (Hume Pipe Drain)
11. Premsar to Tankariya Road Km. 0/700 to 0/900 Taluka- Kalyanpur (Slab Drain)
12. Raval to Gorana Road (VR) Km.2/60 to 2/70 -Taluka- Kalyanpur. (Box Culvert)
13. Suryavadar to Sanidam Road Km. 1/800 to 2/0 (MDR) Taluka – Kalyanpur (Box Culvert)
14. Reta Kalawad Sanakhla Road – Taluka – Bhanvad (Minor Bridge- Ch 7/600 to 7/700 & Pipe Culvert – Ch 1/800 to 2/00).
15. Sajadiyali Gunda Road – Taluka – Bhanvad (Minor Bridge- Ch 0/900 to Ch 1/100 & Pipe Culvert- Ch 1/100 to 1/200)
16. Vasai Makanpur road at Ch 3/80 to 4/00 – Taluka – Dwarka (Minor Bridge)
17. Dangarvad Ashiyavadar Road Ch 2/800 to 2/700 – Taluka – Kalyanpur
18. Haripar Paneli Road Ch 0/400 to 0/600 – Taluka – Kalyanpur (Box Culvert)
19. Danta to Highway Road Ch 0/00 to 0/200 – Taluka – Khambhaliya (Minor Bridge)

III Nature of Work : Construction of Bridge, Culverts, Slab Drains with its approaches and construction of Diversion Work

7.0 PROGRAMME OF WORKS UNDER PROJECT: -

E-Tender:

The Pre-qualification process is common.

The Pre-Qualification tender document will be opened by Superintending Engineer and submitted to the Screening Committee. The Screening Committee will be final authority in this regard. The committee decision will be conveyed to the Superintending Engineer. Those bidders who are pre-qualified shall be informed by R.P.A.D / Post / email / Fax. All bidders have to pay **Rs. 18,000/-** towards the cost of document. The price bid of these bidders who will qualify in pre-qualification shall be open on date and time notified them. And the same will be opened online by the concern Superintending Engineer at their circle office in the present of the pre-qualified bidders or their authorised representative.

The Price-Bid shall be opened on date and time notify to them. And the same will be opened by the concerned Superintending Engineer, at their circle office in the presence of Pre-Qualified Bidders or their authorised representatives.

- i. Submission of application must be through-e- tendering i.e., electronic form
- ii. Bidders shall have to submit the bid in E-Tendering form only.
- iii. Bids of those bidders who have submitted all information, statistical details as required in the bid documents through E-tendering will only be considered. If the employer desires any clarification, for verification/clarification, ambiguity or difference found in the documents/statistical details submitted online (by E-Tendering) by the bidder the same shall be furnished within stipulated time otherwise further processing will be carried out in absence of above and the bidders shall be liable for any consequence.
- iv. No bidder can participate in more than one bid for proposed work.

THE PROGRAMMES OF WORKS UNDER THIS TENDER AS IS FOLLOW

Tender Size	Call of Tender	Award of Contract	Time Limit
Rs. 13,45,00,407.67	Submission of Two Bid	valid for a period of not less than 120 days after the deadline date for bid submission	14 (Fourteen) Months from the date issue of start the work

8.0 CONDITIONS OF CONTRACT: -

Conditions of contract will be as per standard documents i.e. SBD Tender form & other additional modified conditions as needed to suit the local condition.

All designs and work will confirm to the Indian standards or other applicable standards mentioned in the contract document or approved by the Engineer-in-charge. ~~The R.C.C. Design shall be got approved from the S.E. Design (R&B) Circle, Gandhinagar through Engineer in-charge prior to commencement of the work.~~

The law governing the contract will be the Indian law.

9.0 INSTRUCTION TO BIDDERS: -

9.1 A contractor may be pre-qualified for the works under this tender if the requisite technical, financial and experience criteria are fulfilled.

9.2 One firm can be pre qualified only once in its own name.

9.3 Pre qualification Questionnaire completed in all respect should be submitted by online on <https://tender.nprocure.com> not later than the IST **12:00** hours on Date: / / **2026** to the Superintending Engineer, R & B Circle-1, Rajkot, Gujarat (India) in the manner mentioned below.

9.4 Initial screening criteria: -

Following documents are mandatory to be scanned in initial screening stage. The bidders failed to scan the mentioned documents. Will be rejected for further prequalification process.

- a) **Tender Fee:** - Demand Draft for Tender fees of Rs. 18,000/- Demand Draft only in favour of **Executive Engineer, Panchayat (R&B) Division, Devbhumi Dwarka**, payable at Jamnagar from any Nationalized / Scheduled Bank. (DD for Tender Fee must be purchased from the account of Bidder)
- b) **EMD:** - FDR/ Bank Guarantee of Rs.13,46,000/- /Exemption Certificate issued by R&B Department (FDR/ BG should not less than 165 days) (FDR/Bank Guarantee for EMD must be purchased from the account of Bidder)
- c) **Registration certificate:** - Valid **AA" class with Special Category-I (Bridge) and above class contractor** (Receipt will not be valid.)

- d) **Bank certificate:** - Valid Bank Certificate (25% of estimated cost put to tender i.e. **3.36 Crore**) The Applicant should scan a Bank Certificate of Credit Facility 25% of Value of estimated cost. (Bank Certificate must be as per format given on Page No.32 of SBD)
- e) Pan Card
- f) GST registration Certificate

9.5 The costs incurred by the contractors in making this offer, in providing clarification or attending discussions, conferences or site visits will not be reimbursed by the Employer or the Engineer-in-charge.

9.6 Application for pre-qualification shall be submitted in proper format and incomplete offers shall be rejected.

(i) Pre-Qualification criteria.

1. Annual turnover certificates issued by chartered accountant for last five financial years.
 2. Form 3A issued by employer to substantiate successful experience of similar work. When employer of similar work is not a government, following need also to be furnished
 - a. Self attested copy of Work Order
 - b. Self attested copy of agreement
 - c. Self attested copy of Completion certificate
 - d. Self attested copy of Final Bill
 - e. Self attested copy of TDS certificates
 - f. Self attested copy of letter of permission given by employer for subletting the work
 3. Existing commitments and ongoing works as per Appendix-D
 4. Litigation/Arbitration history
 5. Proof of assured availability of required Machinery /equipment
 6. An undertaking for truthfulness of information furnished
- ii. Any information, data, statistics etc. which are not related to bid document will not be considered in evaluation even though furnished by the applicant.
- iii. In accordance with stipulation of Para 3 e(iii) or (7- E-tendering iii) Employer reserves the right to call any information / document which is mandatory,

- essential and critical for the purpose of evaluation. Any information provided by the applicant after last date of Electronic submission will not be considered in evaluation, unless except the employer has specifically asked for any information / document, which is mandatory, essential and critical for evaluation of PQ document. If required information is not furnished within stipulated time, proposal will be liable for rejection.
- iv. If any of the information provided by the bidder is found false during scrutiny or at the later stage, his EMD shall be forfeited and he shall be disqualified for the proposed work. In case when bidder has furnished exemption certificate in lieu of EMD, an amount equal to EMD shall be appropriated from his FDR pledged to avail of exemption certificate. If any of the information provided by the bidder is found false after award of work, the performance security of the bidder shall be forfeited and the contract shall be terminated.

9.7 LANGUAGE TO BE USED: -

The language for submission of bid should be in English.

9.8 OPENING OF BID: -

- (A) The incomplete Bid without proper schedules will be rejected.
- (B) The **"Technical and Pre Qualification Bid"** will be opened probably on date / / **2026** at **12:00** Hours (and if not possible then on the next working day) in the office of the **Superintending Engineer, Panchayat (R&B) Circle-1, Rajkot** and will be submitted to screening committee (R&B) Department, Sachivalaya Gandhinagar for scrutiny.
- 9.9** The enclosed schedules should be filled in completely and all questions should be answered, if any particular query is not relevant it should be stated as "NOT APPLICABLE".
- 9.10** In no circumstances withdrawal is granted after opening of prequalification, the offer will be valid for a period of not less than 120 days after the deadline date for bid submission. It will be not permitted to withdraw the offer in any case.
- 9.11** Financial data, project costs, value of works etc. should be given in Indian rupees only.
- 9.12** For any clarification, the Engineer-in-charge i.e. Executive Engineer, R & B Division, Jamnagar to be contacted by having appointment on working day.
- 9.13** Prequalification bid and blank tender forms will be issued to the contractors registered in ***"AA" class with Special Category-I (Bridge) and above class contractor.*** in the state of Gujarat or equivalent class in other State or C.P.W.D. etc. The Price bid will be opened only of those contractors who are pre-qualified.

- 9.14** If the application is made by a proprietary firm, it shall be signed by the proprietor above his full name and the full name of his firm with its current address.
- 9.15** If the application is made by a firm in partnership, it shall be signed by all the partners of the firm, above their full names and current addresses or by a partner holding the power of attorney of the firm by signing of the application in which case a certified copy of the power of attorney shall accompany the application. A certified copy of the partnership deed, current address of the firm and the full names, and current address of all the partners of the firm shall also accompany the application. Joint ventures are Not permitted.
- 9.16** If the application is made by limited company or a limited corporation, it shall be signed by a duly authorised person holding the power of attorney for signing the application in which case, a certified copy of the power of attorney shall accompany the application. Such limited company or corporation will be required to furnish satisfactory evidence of its existence before the contract is awarded.
- 9.17** The information furnished must be sufficient to show that the applicant (along with the all parties) is a capable in all respects to successfully complete the envisaged contract works strictly on the basis of the applicant, (along with all parties) having already carried out satisfactorily works of similar size nature and complexity.
- 9.18** The bidders while submitting the tender for the works shall be required to provide satisfactory evidence in respect of the information furnished by them in their application for prequalification regarding their structure and organisation, financial position/arrangement, resources of the firm including personal and equipment, experience as well as works on hand etc. The applicants attention is explicitly drawn to the fact that, even after the pre-qualification of potential bidders has already carried out, all bidders shall include statement of the change that may have occurred since prequalification with particular reference to the various items listed above and that further more contract work shall be awarded to successful tenderer only on the basis of careful scrutiny of all the above information furnished by the applicant.
- 9.19** The applicant is expected to have visited the project site before submitting pre-qualification bid and tender documents. No cost for any clarification or visit to site etc. will be reimbursed by the employer.
- 9.20** While submitting the schedule duly filled in the applicant shall enclose the latest copies of brochures and prequalification documentation giving more information about the firm and all the members.

LITIGATION HISTORY: -

The Applicant should provide accurate information on any litigation or arbitration resulting from contract completed or under execution by him over the last five years. A consistent history of awards against the Applicant any partner of joint venture may result in failure of the applicants. (or disqualification for proposed work)

Even though the Applicants meet the above criteria, they are subject to be disqualified if they have made misleading or false representation in the form, statement and attachments submitted and / or a record of poor performance such as abandoning the work, not properly completing the work, not properly completing the contract, delays in completion, litigation history, financial failure etc.

General information of the climate, hydrology, topography access to site, transportation and communication facilities medical facilities, project layouts, accepted construction period facilities and services provided by Employer is given under Sub head " Project Information " at the end.

- 9.21** The prequalification documents received from the **Superintending Engineer, Panchayat (R&B) Circle-1, Rajkot** shall be considered by a screening committee consisting of the following.

EVALUATION COMMITTEES:

Committee	A		B	
	Committee A must comprise total 4 members as below 1. Concern Superintending Engineer 2. Other Superintending Engineer (same Head Quarter preferable) 3. Concern Executive Engineer 4. Concern Divisional Accountant		Committee B* must comprise total 4 members as below 1. Concern Chief Engineer, Chairman 2. Other Chief Engineer, Member 3. Concern Superintending Engineer 4. Financial Advisor	
Type of work under Evaluation	Road	Bridge / Building	Road	Bridge / Building
Amount Put to Tender	Above Rs.7.50 crore and up to Rs.12 crore	Above Rs. 7 Crores and up to Rs. 10 Crores	Above Rs.12 crore	Above Rs.10 crore

- 9.21.1** Committee shall ascertain whether the bids,

- i) Meet the eligibility requirements.
- ii) Have been properly prepared and signed:
- iii) Contain all the details called for and are in proper format.
- iv) Are accompanied by required authorisation and
- v) Are otherwise generally in order.

- 9.21.2** The committee will make assessment of the suitability of the firms who have applied for pre-qualification which will also include the following items.

PRE-QUALIFICATION CRITERIA FOR THE CONSTRUCTION WORK OF ROADS, BRIDGES AND BUILDINGS

(1) ELIGIBILITY:

- (a) For works having amount put to tender less than Rs. 50 crores.
 - i. Bidder can be a firm having valid registration as per para (3) a herein below
- (b) For works having amount put to tender equal to or more than Rs. 50 crores.
 - i. As per (a) i above
OR
 - ii. Bidder can be a joint venture of not more than 3 firms.
 - Each partner firm should have valid registration as para 3(a) herein below
 - Lead partner firm must have more than 51% financial participation and other members must have not less than 20% financial participation (Total should be 100%)
 - iii. No firm can bid for a given work simultaneously as separate bidder and as a member of Any joint venture. Both, the firm and joint venture shall stand disqualified in such case
- (c) Registered firm on registered on contractor's list and firm registered as its sister concern on registered on contractor's list, both simultaneously cannot bid the same work till the completion of 3 years of registration of sister concern as registered contractor.

(2) QUALIFICATION CRITERIA:

(a) ANNUAL TURNOVER

- i Annual turnover of any one of the last five financial years, updated to the current financial year i.e. from 2020-21 to 2024-25 (updated to the current financial year) shall be more than **Rs. 1152.86 Lakh** (X). **For guidance of deriving X:** This value shall be derived by dividing amount put to tender by the time limit expressed in year/s for the proposed work.
- ii For arriving at updated value, turnover of any financial year shall be multiplied by the enhancement factor corresponding to that year. These enhancement factors shall be as given in para 4 herein below.
- iii ~~For joint venture, the lead partner must have updated annual turnover not less than Rs. _____ Lakh (51% of X) and remaining of each partners must have updated annual turnover not less than Rs. _____ Lakh (30% of X). The joint venture must collectively have updated annual turnover not less than Rs. _____ Lakh (X)~~

(b) SUCCESSFUL EXPERIENCE

- Bidder must have as prime contractor or as nominated (approved by employer) subcontractor successful experience as follows:
- i. At least one similar work having updated completion cost not less than **Rs. 538.00 Lakh** (40% of the amount put to tender of the proposed work).
 - ii. Substantially completed works means those works which are at least 90 % completed 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.
 - iii. Such work must have been completed within last five financial years. i.e. from 01-04-2020 till the due date of bid for the proposed work.
 - iv. A work would qualify as similar work only if it meets with definitions given in Appendix – A.
 - v. For updating completion cost of the work to the current financial year, procedure narrated in 2(a) ii shall mutatis mutandis apply.
 - ~~vi. For joint venture, qualifying threshold amount of updated completion cost would be~~
 - ~~a. Lead member: Rs. _____ Lakh (75% of amount mentioned in b(i) i.e. 30 % of amount put to tender)~~
 - ~~b. Each of remaining members: Rs. _____ Lakh (51 % of amount mentioned in b(i) i.e. 20.4 % amount put to tender)~~

(c) BID CAPACITY

- i. The bidder must have available bid capacity (ABC) more than the amount put tender.
$$ABC = 2.0 * A * N - B$$

Where

A is the maximum of updated total amount of works executed in any one year of the last five financial years i.e. from 2020-21 to 2024-2025

N is the number of years prescribed for completed of the proposed work. (i.e., 14 months)

B is the amount of the existing commitments and ongoing works to be discharged during time interval of N years from the bid due date.

For the purpose of updating amount of works executed in any year, Procedure narrated in para 2(a) ii shall mutatis mutandis apply. Existing commitments shall include all such works for which letters of acceptance of of the tenders have been received by bidder till the date on which bidder has submitted his bid for the proposed work.
- ii. For joint venture, each member's available bid capacity shall first be reduced in proportion to the proposed financial participation.

Sum of reduced available bid capacity of all the members should be more than the amount put to tender,

(3) OTHER REQUIREMENT:

a. BIDDER'S REGISTRATION

- i. Only that bidder shall bid whose names are borne on the approved list of registered contractors in the required in the class & Category with Gujarat State R&BD / W.R.D.
- ii. The contractors, who are registered in appropriate category of C.P.W.D., M.E.S., Railways and Indian State Governments, can also bid provided the bidder produce such registration certificate at the time of bidding and obtain registration in required class & category from the Gujarat State R&BD / W.R.D. before issuing Work Order. Bidder will solely be responsible for obtaining the required registration.

b. LITIGATION HISTORY

The applicant should provide accurate information on litigation and / or arbitration resulting from Contracts completed or under execution by him over the last five years. A consistent history of arbitration awards/judgments against the applicant or any partner of a joint venture may result in disqualification for proposed work. If the details of Litigation History is hidden by the applicant and later on it comes to knowledge of the employer the bidder shall be disqualified for the proposed work and other appropriate action shall be taken against the bidder.

c. MACHINERY / EQUIPEMENT

Bidder shall have assure availability of machinery / equipments in working condition as per Appendix-B. In case of non submission of below details, the bidder has to submit this availability of machinery / equipment before issuance of work order. Machinery ownership document or lease / hire agreement for the work under tender shall be considered as valid proof for assured availability.

d. TRUTHFULNESS OF INFORMATION.

Undertaking for truthfulness of information to be scanned online.

e. BIDDING IN E-TENDERING

- i. Submission of application must be through-e-tendering i.e. Electronic from
- ii. Bidders shall have to submit the bid in E- Tendering from only.
- iii. Bids of those bidders who have submitted all information, statistical details as required in the bid documents through E-tendering will only be considered. if the employer desires any clarification, for verification/ clarification, ambiguity or difference found in the documents/ statistical details submitted online (by E- Tendering) by the bidder the same shall be furnished within stipulated time

otherwise further processing will be carried out in absence of above and the bidders shall be liable for any consequence,

iv. No bidder can participate in more than one bid for proposed work.

f. SUBMISSION OF DOCUMENTS

i. Following documents/ papers shall form part of the bid.

1. JV agreement (when bidder is JV) clearly indicating the name of lead partner and percentage financial participation of each partner. JV agreement must also demonstrate responsibility of each partner. The JV agreement should be so signed as to be legally binding to all partners, jointly and severally.
2. Annual turnover certificates issued by chartered accountant for last five financial years.
3. Form 3A issued by employer to substantiate successful experience of similar work. When employer of similar work is not a government, following need also to be furnished
 - a. Self attested copy of work Order
 - b. Self attested copy of agreement
 - c. Self attested copy of Completion certificate
 - d. Self attested copy of Final Bill
 - e. Self attested copy of TDS certificates
 - f. Self attested copy of letter of permission given by employer for subletting the work
4. Existing commitments and ongoing works as per Appendix-D
5. Litigation/Arbitration history
6. Proof of assured availability of required Machinery / equipment
7. An undertaking for truthfulness of information furnished

ii. Any information, data, statistics etc. which are not related to bid document will not be considered in evaluation even though furnished by the applicant.

iii. In accordance with stipulation of para 3 e(iii) Employer reserves the right to call any information / Document which is mandatory, essential, and critical for the purpose of evolution. Any information provided by the applicant after last date of electronic submission will not be considered in evaluation, unless except the employer has specifically asked for any information / document, which is mandatory, essential, and critical for evaluation of PQ document. If required information is not furnished within stipulated time, proposal will be liable for rejection.

iv. If any of the information provided by the bidder is found false during scrutiny of at the later stage, his EMD shall be forfeited and shall be disqualified for the proposed work. In case when bidder has furnished exemption certificate in lieu of EMD, an amount equal to EMD shall be appropriated from his FDR pledged to avail of exemption certificate. If any of the information provided by the bidder is found false after award

of work, the performance security of the bidder shall be forfeited and the contract shall be terminated.

(4) Escalation Factors

Following enhancement factors will be applied to turnover and completion cost of works to bring them to the base year. The current financial year in which bid is invited shall be considered as the base year.

Year	Financial Year	Enhancement 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

APPENDIX – A

DEFINATION OF SIMILAR WORK:

1. ROAD WORKS:-

~~a. STRENGTHENING / RESURFACING / RENEWAL WORK~~

- ~~i. Any asphalt work done by paver such as AC / BC / DBM / BM / SDBC / IPMC / BUSG.~~

~~b. WIDENING WORK~~

~~i. Widening up to 7 m of carriageway~~

- ~~1. Any work of widening of carriageway to minimum 5.5 m. carriage way and should have items of WBM / WMM and paver laid asphalt work.~~

~~OR~~

- ~~2. New road construction work (minimum carriageway width not less than 3.5 m) involving items of WBM / WMM and paver laid asphalt work.~~

~~ii. Widening up to 10 m of carriageway~~

- ~~1. Any work of widening of carriageway to 10 m.~~

~~OR~~

- ~~2. Any road work of carriageway widening involving addition of carriageway not less than 3.0 m.~~

~~OR~~

- ~~3. New road construction work (minimum carriageway width not less than 3.5 m) involving items of WBM / WMM and paver laid asphalt work.~~

~~c. NEW ROADS / FOUR LANNING / SIX LANNING:-~~

- ~~1. New road construction work (minimum carriageway width not less than 3.5 m) involving items of WBM / WMM and paver laid asphalt work.~~

~~OR~~

- ~~2. Any work of widening of carriageway UP to 10 m involving items of WBM and WMM plus asphalt work done by paver.~~

~~OR~~

- ~~3. Any road work of carriageway widening involving addition of carriageway not less than 3.0 m.~~

2. BRIDGE WORKS:

- i. Any bridge work (i.e., ROB/FOB/River Bridge/Slab Drain/Culverts) having completion cost more than 40% of the amount put to tender and
- ii. Bidder shall have experience during last 5 financial years of executing bridge/s involving either ROB/FOB/River bridge/Slab drain/culvert.

3. BUILDING WORKS:-

- a. ~~Building having frame structure / composite structure: Up to G+3 storey~~
 - i. ~~Bidder shall have experience for the construction of any building having frame / composite structure.~~
- b. ~~Building having frame structure / composite structure: Up to G+5 storey~~
 - i. ~~Bidder shall have experience for the construction of any building having frame / composite structure of G+ 2 storey and above.~~
- c. ~~Building having frame structure / composite structure: more than G+5 storey~~
 - i. ~~Bidder shall have experience for the construction of any building having frame / composite structure of G+ 4 storey and above.~~
- d. ~~Building having load bearing structure~~
 - i. ~~Bidder shall have experience for the construction of any building having load bearing structure.~~

~~Note: Construction of water tank, lift well, staircase cabin will not be considered as storey.~~

APPENDIX – B

Indicative List of minimum Plant & Equipment to be deployed on contract work

Sr. No.	Type of equipment	Amount put to tender (Rs. in Crore)			
		Upto Rs. 10	Rs. 10-20	Rs. 20-50	Rs. 50-100
1	Tipper Trucks		10		
2	Motor Grader		2		
3	Dozer		1		
4	Front end Loader		2		
5	Smooth Wheeled Roller		2		
6	Vibratory Roller		2		
7	Hot Mix Plant with Electronic Controls (Minimum 60-70)		1		
A	Continuous Batch mix Plant* (Min 120 TPH)		0		
8	Paver Finisher with Electronic Sensor*		1		
9	Water Tanker		3		
10	Bitumen Sprayer		1		
11	Tandem Roller PTR Roller		1		
12	Concrete Mixers with integral Wight batching facility		2		
13	Concrete batch mixing Automatic plant (minimum Capacity – 15 m ³ / Hour)		1		
14	Concrete paver capable of paving 7.5-meter width extensible to 10 m. in one single pass including all accessories. such as automatic dowel bar inserter integral vibratory system and electronic sensors ancillary equipment for applying curing compound, joint cutting etc.		1		
15	Concrete Batching & Mixing plant with automatic control. (Minimum Capacity – 100 cum/hour)		0		
16	Slip Form Paver		0		
			30		

Note: 1) Above indicative list of minimum machinery shall be modified in accordance with requirement of work on case to case basis.

2) Contractor have give undertaking mentioning that if any additional machinery is required other than above table to complete the work, same to be provided on site whenever required.

*The minimum requirement of Plants & Equipments specified in Appendix-B at sr. 7-A and 8 will be considered for those works at the time of Prequalification in which estimated amount of Asphalt work to be done by Paver is is of Rs.10/- crore or more, instead of amount put to tender of those works.

The requirement of Sensor Paver in which blade can be extended up to 10.00 Mtr. Width will be considered for the works of widening and strengthening / strengthening of road having existing 7.0 mtr. or more width of asphalt surface and for those works only in which the value of asphalt work to be done by Sensor Paver is of Rs.10/- crore or more, instead of amount put to tender of those works.

APPENDIX – C

EVALUATION COMMITTEES:

Committee	A		B	
	Committee A must comprise total 4 members as below 5. Concern Superintending Engineer 6. Other Superintending Engineer (same Head Quarter preferable) 7. Concern Executive Engineer 8. Concern Divisional Accountant		Committee B* must comprise total 4 members as below 5. Concern Chief Engineer, Chairman 6. Other Chief Engineer, Member 7. Concern Superintending Engineer 8. Financial Advisor	
Type of work under Evaluation	Road	Bridge / Building	Road	Bridge / Building
Amount Put to Tender	Above Rs.7.50 crore and up to Rs.12 crore	Above Rs.7 crores and up to Rs. 10 crores	Above Rs.12 crore	Above Rs.10 crore

EVALUATION COMMITTEE OF THIS WORK AS BELOW:

1	Chief Engineer (Saurashtra) & Additional Secretary, R & B Department, Gandhinagar	Chairman
2	Chief Engineer (S.G.) & Additional Secretary, R & B Department, Gandhinagar	Member
3	Financial Advisor, R & B Department, Gandhinagar	Member Secretary
4	Superintending Engineer, R & B Circle-1, Rajkot	Member

APPENDIX - D

EXPERIENCE ALL PROJECTS IN PROGRESS

Given information about all projects which are in progress including the company has received a letter of intent / acceptance but a formal contract has not yet been awarded.

Employer	Engineer responsible for Supervision	Location description of works	Value of Contract	Cost of work executed as on date of this bid	Cost of work to be executed as on the date of this bid	Percentage of cost of work completion [Value of Col.5/Value of Col/4] X 100	Date of work order	Stipulated date of completion of work	Likely date of completion	Reasons for slow progress if any
1	2	3	4	5	6	7	8	9	10	11

NOTE:

Non disclosure of any information in the schedule will result in disqualification of the bidder.

(Signature of Bidder)

SCHEDULE - A

- | | | |
|----|---|----|
| 1. | Name of the company
Address | :- |
| | Telephone No. | :- |
| | Telex No. | :- |
| | Fax No. | :- |
| 2. | Description of Company
(For e.g. General Civil
Engineering contractor
Supplier of equipment etc.) | :- |
| 3. | Registration and classification
with the P.W.D. | :- |
| 4. | Name and address of the Bankers | :- |
| 5. | No. of year of Experience
as a contractor
(i) In own Country

(ii) Internationally | :- |
| 6. | No. of year of Experience
as a sub-Contractor
(i) In own Country

(ii) Internationally | :- |
| 7. | Name and address of the
partner and associated
companies to be involved
in the project & whether
partner / subsidiary others. | :- |

8. Attached an organisation chart showing the structure of the company including names and position of Directors and key-personnel. :-

Signature of Bidder

Note :- The above necessary information shall be supported with necessary documents. Otherwise, the same shall be treated as null & void.

SCHEDULE - B

FINANCIAL STATEMENT

[To be given separately for each partner for partnership firm]

1. Name of firm :-
2. Capital :-
 - a) Authorised
 - b) Issued & Paid up
3. Attach audited balance sheet:-
& Profit & Loss statement for
the past 05 (five) years.
4. Financial Position :-
(exact amount in Rupees
to be stated)
 - a) Cash
 - b) Current Asset
 - c) Current Liability
 - d) Working Capital
 - e) Net Worth
5. Total Liability
 - a) Current Ratio : Current assets to Current liabilities
 - b) Acid test Ration : Cash, Temporary investment held in
lieu of cash & current receivable to
current liabilities.
 - c) Total Liabilities :
Net Worth.

Note :- Information asked against each item to be carefully filled in, more preference to balance sheet in reply to above points is acceptable.

6. Annual Value (turn over) of construction works undertaken for each of the last (five) 5 years & projected for current year (this will be calculated at the rate of 10% increased for each year's Annual turn over for the works.)

Year	Current Year 2025-26	One Year before 2025-26 i.e.2024-25	Two Year before 2025-26 i.e.2023-24	Three Year before 2025-26 i.e.2021-23	Four Year before 2025-26 i.e.2021-22	Five Year before 2025-26 i.e.2020-21
------	----------------------------	---	---	---	--	--

Home :

Abroad :

7. Net profit tax
- Current period (25-26)
(Half year ending)
 - During the last
Financial year
 - During the course of the
four financial years previous
to last financial years i.e.
(2020-21 to 2024-25)

The profit and Loss Statement
Have been certified.

Through_____ by _____

8. Applicant's financial arrangement
for proposed works (exact amount in
Rupees to be mentioned)

- Own resources Rs.
- Bank Credits Rs.
- Other (Specify) Rs.

9. Certificate of financial soundness from bankers of applicants together with their full address.

10. Approximate value of works : Rs. in hand.

11. Value of anticipated orders : Rs. for next financial year.

Home

Abroad

NOTE : Details of Item No. 10 and 11 are to be given in Schedule - E experience.

- Note :**
- 1.** Information asked against each item shall be carefully filled in, any additional information shall be given separately duly signed.
 - 2.** The above details supported by last financial year Balance sheet / Profit & Loss account etc. must be audited by the chartered accountant.
 - 3.** The above information shall be supported with necessary documents otherwise, the same shall be treated as null & void.

Signature of Applicant.

SCHEDULE - C

PERSONNELS DETAILS OF PERSONNEL WITH THE APPLICANT

Name of the Applicant

Sr. No.	Description	On applicant's Pay roll.
1.	Project manager	
2.	Material and quality control Engineer	
3.	Works manager	
4.	Number of Engineering Graduates	
	Design	
	Construction Supervision	
5.	Number of administrative graduates.	
6.	Number of skilled employees	
7.	Number of unskilled employees	
8.	Please indicate whether design wherever Required as per conditions of bid will be Carried out in house or with the help of Consultant.	
9.	If in house, please indicate the details of design carried out over the past. If so to be done by back-up consultants, please give the data such as name of the company key. Personnel and professional qualifications, present position total experience, no of work executed.	
10.	Please indicate whether subsoil investigation as required under condition of contract will be carried out in house or with help of other agency.	

Note: Availability for this work of a Project Manager having in degree in Civil Engineering with at least ten years experience including at least five years on road/highway construction works and a Material & Quality Control Engineer having degree in Civil Engineering with at least five years road construction experience including about three years on materials testing and quality control for road construction works including bituminous works & slab drain works is compulsory. If in house please detail of subsoil investigation carried out over the past few year. If subsoil investigation is to be done through private agency give data such as name of through private agency give data such as name of agency, key personnel, professional qualification present position total experience and details of works executed over last five years.

Signature of Applicant

SCHEDULE – C-1

DETAILS OF PERSONNEL TO BE DEPLOYED ON THIS PROJECT BY BIDDER

Name of Applicant _____

Sr. No.	Description	Qualification	Minimum Requirement		Yes / No
			Number	Experience in Road Works	
1	Project Manager	B.E. Civil	1	10 Year Experience (5 years on Bridge construction)	
2	Site Engineer	B.E. Civil	2	10 Year Experience (5 years on Bridge construction)	
		B.E. Civil	2	10 Year Experience (5 years on Road construction)	
3	Plant Engineer	B.E. Mech. / Diploma Mech.	1	5 Years Exp.	
4	Quantity Surveyor	B.E. Civil / Diploma Civil	2	5 Years on Road on Highway Construction	
5	Material & Quality Control Engineer	B.E. Civil / Diploma Civil	2	2 Years Exp. 5 Years Exp.	
6	Survey Engineer	B.E. Civil / Diploma Civil	2	2 Years Exp. 5 Years Exp.	

Note: Availability for this work of project manager having in degree in civil engineering with at least 10 Yrs. experience including at least 5 Yrs. on Building / Highway construction works and material and quality control engineer having degree in civil engineering with at least 5 Yrs. Road construction experience including about three years on material testing and quality control for road construction work including bituminous work & slab drain work is compulsory.

SIGNATURE OF BIDDER _____

SCHEDULE - D

EQUIPMENT CAPABILITY

Name of applicant:

The applicant shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for each and all items of equipment listed in the instruction to applicants. A separate form shall be prepared for each item of equipment listed in; Para 9-15 of the Instruction to applicants, or for alternative proposed-by the applicant.

Item of equipment

Equipment Information

- 1 . Name of manufacturer
2. Model and power rating
3. Capacity
4. Year of manufacturer

Current Status

5. Current location
6. Details of current commitments

Sources

7. Indicate source of the equipment
Owned. Rented Leased Specially
manufactured

Omit the following information for equipment owned by the applicant or partner.

Owner

8. Name of Owner
9. Address of Owner
10. Contract Name and Title
11. Telephone
12. Fax
13. Telex

Agreement: - Details of Rental/Lease manufacture Agreement specified to the project.

SCHEDULE - E

PLANTS & EQUIPMENTS PROPOSED TO BE DEPLOYED BY THE APPLICANT FOR USE ON THE WORK

Sr. No.	Name of equipment	Total Requirement			Equipment on hand (owned)			Equipment to be procured		
		No. of units for the projects	Kind and make	Capacity	No. of each	Year of Manu. & present condition	Name of owner	No. of each	Capacity	Through Purchase / Lease
1	2	3	4	5	6	7	8	9	10	11
1)	Tipper Trucks	10								
2)	Dozer	2								
3)	Motor Grader	1								
4)	Front end Loader	2								
5)	Smooth wheeled Roller	2								
6)	Vibratory roller	2								
7)	Hot / Drum Mix Plant with Electronic Controls (minimum 60-70)	1								
A)	Continuous Batch Mix Plant (Min 120 TPH)	0								
8)	Paver finisher with electronically Sensor	1								
9)	Water Tankers	3								
10)	Bitumen Sprayer	1								
11)	Tandem Roller	1								

Sr. No.	Name of equipment	Total Requirement			Equipment on hand (owned)			Equipment to be procured		
		No. of units for the projects	Kind and make	Capacity	No. of each	Year of Manu. & present condition	Name of owner	No. of each	Capacity	Through Purchase / Lease
12)	Concrete mixers with integral Wight batching facility	2								
13)	Concrete batching mixing Automatic plant (Minimum Capacity - 15 m3 / Hour	1								
14)	Concrete paver capable of paving 7.5-meter width extensible to 10 m. in one single pass including all accessories. such as automatic dowel bar insertor integral vibratory system and electronic sensors ancillary equipment for applying curing compound, joint cutting etc.	1								

Sr. No.	Name of equipment	Total Requirement			Equipment on hand (owned)			Equipment to be procured		
		No. of units for the projects	Kind and make	Capacity	No. of each	Year of Manu. & present condition	Name of owner	No. of each	Capacity	Through Purchase / Lease
15)	Concrete Batching and Mixing plant with automatic control. (Minimum Capacity - 100 cum	0								
16)	Slip Form Paver	0								
		30								

Note: Above indicative list of minimum machinery shall be modified in accordance with requirement of work on case to case basis.

*The minimum requirement of Plants & Equipments specified in Appendix-B at sr. 7-A and 8 will be considered for those works at the time of Prequalification in which estimated amount of Asphalt work to be done by Paver is is of Rs.10/- crore or more, instead of amount put to tender of those works.

The requirement of Sensor Paver in which blade can be extended up to 10.00 Mtr. Width will be considered for the works of widening and strengthening / strengthening of road having existing 7.0 mtr. or more width of asphalt surface and for those works only in which the value of asphalt work to be done by Sensor Paver is of Rs.10/- crore or more, instead of amount put to tender of those works.

APPENDIX-D

EXPERIENCE ALL PROJECTS IN PROGRESS

Given information about all projects which are in progress including the company has received a letter of intent / acceptance but a formal contract has not yet been awarded.

Employer	Engineer responsible for Supervision	Location description of works	Value of Contract	Cost of work executed as on date of this bid	Cost of work to be executed as on the date of this bid	Percentage of cost of work completion [Value of Col.5/Value of Col.4] X 100	Date of work order	Stipulated date of completion of work	Likely date of completion	Reasons for slow progress if any
1	2	3	4	5	6	7	8	9	10	11

NOTE:

Non disclosure of any information in the schedule will result in disqualification of the bidder.

(Signature of Bidder)

SCHEDULE - F

EXPERIENCE: ROAD WORKS COMPLETED

To be signed by form 3A from the competent authority.

Please furnish information about relevant (Road Works) completed over the last five years **(2020-21 to 2024-25)**

Name of Employer	Name of Location and Type of Road work	Name of Engineer Responsible for Supervision	Accepted Contract Price and Date {Rs. Lacs}	Final value as per Bill prepared by Employer	Additional amount released, if any thing court claims or by award on arbitrator	Percentage Participate of company in project.	Was contra satisfactory completed including time
1	2	3	4	5	6	7	8

Note :-

- 1) Attested copies of the latest certificate from the Employers may be attached in case of private work. Sufficient authentic proof of work done along with details of

financial transactions has to furnish.

2) Non disclosure of any formation in the Schedule will result in disqualified of the bidder.

3) Work carried out in private sector, agency has submitted detail work order copy.

4) Work carried out in Government sector, agency has submitted Form- 3A copy.

Signature of Bidder

For Works completed

(iv) Form 3A submitted should bear office seal of the contractor and organizer / Government Department with office out ward No & Date with quantity executed.

(v) Attested copies of the latest certificate from employer may be attached by scanning in case of private work sufficient authentic proof of work done along with details of financial transaction has to furnish.

Non disclosure of any formation in the Schedule will result in disqualified of the bidder.

SCHEDULE – F - 1

CONTRACT :

COMPANY :

EXPERIENCE : GEOGRAPHICAL

Summary of experience of company in neighbourhood Project and / or neighboring states.

SCHEDULE - G

LITIGATION HISTORY

Year	Award for work	Name of client/cause of litigation and matter in Disputed (Amount in Rs.)

Signature of Applicant.

SCHEDULE - H

ADDITIONAL INFORMATION

The applicant can add here any further information relevant to the evaluation of their qualifying criteria.

Signature of Contractor

ANNEXURE – 1
LAB TESTING EQUIPMENT

The Applicant shall provide adequate information for testing equipment and surveying equipment

	Name of Testing Equipment	Minimum Requirement	Equipment with Agency	
			Equipment in hand	Equipment to be produced
1	A – General Lab Equipment			
	a) electronic balance 7 Kg. to 10 Kg. capacity semi self-indication type accuracy 1 gm.	2 Nos.		
	b) Pan balance 10 kg capacity accuracy 0.01 gm	4 nos.		
	c) electronic balance 500 gm capacity accuracy 0.001 gm	1 Nos.		
	II) Ovens-electrically operated thermoscopically controlled 600 mm x 600 mm range upto 220 C and sensitivity 1 C.	2 Nos.		
	III) Sieves as per I.S. 460-1962	Full IS 3 Set.		
	V) Stop watches, 1/5 sec. accuracy	2 Nos.		
	VI) Glassware comprising of beaker, pipettes, butters, conical and spherical as per required flasks, dishes, measuring, cylinders (100 to 1000*cc capacity) glass rods and funnels, glass thermometers range 0 C to 100 C.	Full IS Set.		
	VII) Hot plates 200 mm dia. (1500 watt)	10 Nos.		
	VIII) Enamel trashes			
	a) 600 mm x 450 mm x 50 mm	6 Nos.		
	b) 450 mm x 300 mm x 40 mm	6 Nos.		
	c) 300 mm x 250 mm x 40 mm	6 Nos.		
	d) Circular plates of 250mm dia.	6 Nos.		
	XI) Small tools like scoop, hand shovel, trowel, shovel, trimming knife steel straight edge club hammers 91 Kg. and 1/2 Kg.) mallet, sleeve brush venture calliper.	Each as 4 Nos.		
	XII) Asbestos Gloves	3 Pairs		
	XIII) Hydrometer	1 No.		
	XIV) Room temperature / atmosphere temperature thermometer.	2 Nos.		
	XV) Rain Guage	1 No.		
	XVI) Hydrometer	1 No.		
	XVII) First Aid Box	1 No.		
	VI) Laboratory mixer including required accessories about 0.02	1 No.		

	cum capacity electrical operated fitted with hitting jacket.			
	VII Marshal stability apparatus electrically operated completed with all accessories as per ASTM11559-62T.	1 Set		
	VIII) Core cutting machine with 10 cm and 15 cm die diamond cutting edge.	1 No.		
	IX) Metallic & digital Thermometers range upto 300 C	6 Nos.		
	X) Apparatus for specific gravity of bitumen as per the relevant specification	2 Nos.		
	XI) Viscosity determination apparatus (Kinematics) as per the relevant IS specification.	1 Set		
	XII) Sweel test apparatus to asphalt institute MS-2 NO-2	1 No.		
	XIII) Densitometer Pavement quality Indicator (PQ) 301	1 No.		
	XIV) Asphalt Extraction	1 No.		
2	B- for Cement and Cement Concrete			
	I) Vicat Needle apparatus as per IS-269-1967	1 No.		
	I) Moulds			
	a) 150mm dia. x 300mm height cylinder with capping component	As required		
	b) Cubes 150mm and 100mm size	As required		
	C) Cubes 70.7 mm for cement mortar	As required		
	III) Concrete Permeability Apparatus as per the relevant IS specifications	1 No.		
	IV) High frequency mortar cube Vibrator for cement testing	1 No.		
	V) Concrete mixer power driven, 0.03 m3 capacity	1 No.		
	VI) Variable frequency and amplitude vibrating table size 1meter x 1 meter as per the relevant British standard.	1 No.		
	VII) Flow table as per the relevant IS specifications.	4 Nos.		
	Vii) a) 2000 Kn (Least count 10 Kn) compression testing machine for concrete cube.	1 No.		
	b) 500 Kn (least count 2 Kn) compression testing machine for cement mortar cube.	1 No.		
	IX) Equipment for slump test	4 Nos.		

	X) Equipment for determination of specific gravity for fine and coarse aggregate as per IS 2386 (part-3) 1963.	1 No.		
3	C – For Control of Profile and surface Evenness			
	I) Total Station	1 Set.		
	II) Theodolite	1 Set		
	III) Precision automatic Level	2 Sets		
	IV) Precision Staff	3 Sets.		
	V) 3 Meter straight edge and measuring wedge	3 Sets.		
	VI) Caber templates 2 lane.			
	a) Crown type cross - section	As per requirement		
	b) Straight run cross - section	As per requirement		
	VII) Steel taps of road			
	A) Steel tape	2 Sets.		
	B) 5 m long	20 Sets.		
	C) 10 m long	2 Sets		
	D) 20 m long	2 Sets		
	E) 30 m long	2 Sets.		
	I) Total Station	1 Set.		

F – Any other equipment which is not mentioned here but which is necessary for complying with the provision of the Contractor or as required by the Engineer.

In case of absence of any equipment as per test requirements of section 900 of MOST specification the same shall be provided by the contractor at any time as directed by the Engineer. No extra payment shall be made to the contractor.

In the absence of any equipment as per test requirements of section 900 of MOST specification the same shall be provided by the contractor at any time as directed by the Engineer. No extra payment shall be made to the contractor.

SIGNATURE OF BIDDER

PROJECT INFORMATION

Name of Work:	RE-CONSTRUCTION OF MINOR BRIDGES, SLAB DRAINS, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEVBHUMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT. (PACKAGE - 2)
Name of Road & Details	<ol style="list-style-type: none"> 1. Construction of Hume Pipes Drain on Dwarka Vasai Hamusar Road Between Km.16/200 to 16/220 (ODR) Ta. Dwarka. 2. Construction of skew Slab Drain on Premsar to Tankariya Road Bet, Km 0/700 to 0/900 Ta. Kalyanpur. 3. Construction of Box Culvert on Raval to Gorana Road (VR) Km.2/60 to 2/70 Ta. Kalyanpur. 4. Construction of Box Culvert on Suryavadar to Sanidam Road Between Km 1/800 to 2/0 (MDR) Ta. Kalyanpur. 5. Construction of New Minor Bridge on Local River at CH. 7/600 to 7/700 & Construction of Pipe Culvert at CH. 1/800 to 2/000 on Reta Kalavad-Sankhla Road Taluka Bhanvad District Devbhumi Dwarka. 6. Construction of Box Type Minor Bridge at Ch. 0/900 to 1/000 & Pipe Culvert at Ch. 1/100 To 1/200 On Sajadiyali Gunda Road Tal. Bhanwad Dist. Devbhumi Dwarka. 7. Construction Of New Minor Bridge on Vasai-Makanpur Road at Ch. 3/80 To 4/00 Taluka Dwarka District Devbhumi Dwarka. 8. Reconstruction of Existing Bridge on Local River at Ch 2/800 to 2/700 on Dangarvad Ashiyavdar Road, Taluka- Kalyanpur, District - Dev Bhumi Dwarka. 9. Construction of New Box Culvert on Local River at Ch. 0/400 To 0/600 on Haripur - Paneli Road Ta. Kalyanpur, Dist. Devbhumi Dwarka. 10. Reconstruction of Existing Bridge on Local River at Ch. 0/000 To 0/200 on Danta to Highway Road Near Danta village Khambhalia. 11. Construction of Hume Pipe Drain on Dwarka Vasai Hamusar Road Between Km.16/800 to 16/820 (ODR) Ta. Dwarka 12. Construction of Hume Pipe Drain on Padali to Goriyali Road Between Km.4/600 To 4/800 (ODR) Ta. Dwarka 13. Construction of Hume pipes Drain on Gaga Approach Road Between Km.3/000 to 3/600 (MDR) Ta. Devbhumi Dwarka 14. Construction of Hume pipes Drain on Bhatvadiya Gokalpar Road Between Km.2/500 to 2/700 (ODR) Ta. Kalyanpur. 15. Construction to Vented Causeway & P/W On Dholamulavasar Nanabhavda Aniyari Khatumba Road Between 7/400 to 7/600 (ODR) Ta Dwarka 16. Construction of Hume pipes Drain on Gaga Approach Road Between Km.3/600 to 3/800 Ta. Devbhumi Dwarka. 17. Construction of High-level Vented Causeway on Kenedi to Khakhara Road Between Km.0/400 to 0/600 (VR) Ta. Kalyanpur 18. Construction of Low-Level Causeway on Jambusar Joshipara to Join MDR Road Between Km.1/250 to 1/350 (VR) Ta. Bhanvad. 19. Construction of Vented Causeway on Sanosari to Jamdevaliya Road Between Km.1/100 to 1/300 Ta. Kalyanpur.

PROJECT INFORMATION

CLIMATE:

(a) TEMPERATURE

The project road lies in the State of Gujarat. This state is situated in western part of India and has semi arid climate Ref. Index. Map. Large part of the state lies between 35° C and isotherms. May is the hottest month and January the coldest. The isotherm generally run east west and the temperature increase steadily as one move southward.

(b) RAIN FALL

Gujarat receives most of its rainfall form the south-west monsoon between June and September with maximum intensity in July and August. The monsoon arrives earlier in the south and east and last longer than in the northwest. Hence the rainfall intensity ranges from over 2400 mm in the southwest to less than 250 mm in the extreme west. Some depressions and cyclones in the Arabian Sea which move across the coastal area sometimes bring rains and strong winds in the months of April to June and October to November.

The State can be divided into four different rainfall Zones:

- (i) Areas with more than 1000 mm rainfall include the districts of Valsad, Dangs, Surat and the eastern parts of Bharuch with Rajpipla Hills.
- (ii) Areas receiving rainfall between 800 mm and 1000 mm include Panchmahals, Vadodara, Anand, Ahmedabad and part of Ahmedabad.
- (iii) Areas having rainfall between 400 mm and 800 mm include Saurashtra and areas north of Ahmedabad.
- (iv) Areas receiving less than 400 mm rainfall include Kachchh, Banaskantha and Coastal Jamnagar.

(c) HUMIDITY:

The relative humidity in all parts of the State, with the exception of the coastal areas is low in the summer the relative humidity varies from 75 and 80 percent in winter from 40 to 50 percent. The coastal areas, on the other hand, have moderately high humidity all the year round with a maximum in the summer months reaching as high as high as 90 percent.

(d) HYDROLOGY:

Narmada river is the major river (perennial) in the south of the state which serves as the main water source for drainage – Narmada river, river discharge in to Gulf of Khambhat.

(e) TOPOGRAPHY:

Gujarat is located in western side of the India and bounded by the State of Rajasthan in the north, Madhya Pradesh in east and Maharashtra in south. It has also an international border with Pakistan on its north for length of about 360 km. The state of Gujarat covers a total area of 195,904 sq. km. and is situated between 20°06" to 24°42" North latitude and 68°10" to 74°24" East longitude. The state has the longest coastline in the country measuring about 1600 km along western part of India, extending from Lakhpat in North to Damam in the south.

The state is divided into five major physiographic divisions.

- (i) The Alluvial Plains extend in North Gujarat to Bulsar in the south, and westward to the little Rann and Banni area of Kachchh.
- (ii) The Eastern hilly tract lies between the altitude of 300 –1400 m and forms a major divide.
- (iii) Uplands of Kachchh and Saurashtra consist of sandstone shale and basalt rock with elevations of about 150-500 m sloping radically towards the coast. The Girnar hill forest is at an elevation 1117 m.
- (iv) The Eastern hilly tract lies between the altitude of 300 –14000 m and forms a major divide.
- (v) The low-laying coastal tract ranges in elevation from 3-25 m surrounding the Kachchh and Saurashtra uplands. These low laying areas extend from Rann of Kachchh to little Rann of Kachchh and to the low laying delta region of Bhadar, Bhojavo, Mahl, Dhadar. Narmada and Tapi rivers.
- (vi) The Marshy to saline desert of Rann of Kachchh and little Rann of Kachchh extend into the saline Tracts around the Gulf of Cambay. This vast fields of salt mixed with clay is devoid of any vegetation or habitation. The general elevation of this tract varies between 3 To 10 Mtr.

(f) ACCESS:

Gandhinagar the state capital is about 950 km. away from the National capital (New Delhi). The state is accessible by road, rail and air from the National capital as well as from other metropolitan cities of the country. The main arterial highway traversing through this state is NH-8 linking Delhi to Mumbai. It enters the state from Rajasthan near Shamlaji and touches important towns of Ahmedabad and Vadodara and enters into Maharashtra from its southern border.

(g) ROAD TRANSPORT FACILITY:

Passenger Road Transport in the state is mainly provided by Gujarat State Transport Corporation; a State Government undertaking Goods transport operation is with the private sector.

(h) COMMUNICATION FACILITIES:

The communication facilities in the State consist of post, telegraph, telex and fax. These facilities are provided by the Post and Telegraph Department of Government of India. Besides private sector operated courier, fax and other similar services, Government facilities also exist in all important cities of the state.

(i) MEDICAL FACILITY:

All the important cities have full fledged Government medical Hospitals besides private clinics and nursing homes etc.

(j) PROJECT LAYOUT:

Project layout for the contracts is given in the Index Map.

(k) EXPECTED CONSTRUCTION PERIOD:

Expected construction period from contracts is 24 Months (Twenty-Four) from the date of award.

(l) FACILITY AND SERVICES PROVIDED BY THE EMPLOYER:

Free access to the work sites will be assured by the Employer for expected Agencies.

(m) OTHER RELEVANT INFORMATION:

1. Soil Characteristics

The Soils of Gujarat state can be classified into Black Cotton Soils. Alluvial Soils, Saline Alkaline Soils and desert Soils.

a) Black Soils: The black soils are either medium black or deep black.

i) Medium Black Soil: - Medium black soils are found in Saurashtra, some parts of Sabarkantha and Panchmahals district,

South – west of Ahmedabad and parts of Vadodara and Kachchh district. This soil type is not so deep. Soil textures clay loam to clayey.

.a) Deep Black Soil. The deep black soils are found in the district of Vadodara, Bharuch, Surat and Valsad, Soil depth varies from less than one meter to as deep as six meters. These soils have very heavy clay content. Montmorilloniteper domination.

.b) Alluvial Soils: These soils in Gujarat are formed due to silting by Indus River system. These soils occur through Banaskantha district and the greater part of Mehsana and Sabarkantha. Ahmedabad, Ahmedabad district, Further more alluvial soils also occur in the northern part of Vadodara and Jambusar and eastern part of Surat and Valsad district.

.c) Saline – Alkaline Soils : These soils are found in " Bhal Tract " of Bhavnagar, Ahmedabad, and Ahmedabad district and also in southern part of state along the sca coast except in Bharuch, Surat and Valsad

district. Saline soil is also found in portions Kachchh. Mehsana and Banaskantha district due to less rain – fall and high evaporation.

.d) Desert Soils : These are mainly found in Rann of Kachchh (Northern and north – eastern parts).

.e) Earthquake Zone: The District of Kachchh comes under the Zone-5 of the earth quake where as districts of Saurashtra comes under Zone-3 & Zone-4. The part of Bharuch district comes under Zone-4 where as other district of Gujarat comes under Zone-3. Since the district of Kachchh and some district of Saurashtra, part of Bharuch district comes under Earth quake Zones of moderate intensity, necessary precautions are to be taken for the construction works.

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

1.0 PREAMBLE

- 1.1 The Technical Specifications contained herein shall be read in conjunction with the other Bidding Documents as specified in this Volume.

1.2 Site Information:

- 1.2.1 The information given here under and provided elsewhere is given in good faith by the Employer but the Contractor shall satisfy himself regarding all aspects of site conditions and no claim will be entertained on the plea that the information supplied by the Employer is erroneous or insufficient.

2.0 GENERAL REQUIREMENTS

The technical specifications in accordance with which the entire work described herein after shall be constructed and completed by the Contractor shall comprise of the: "**SPECIFICATION**"

- 2.1 Though "**SPECIFICATION**" for each item are attached with tender they are based on following:

- (1) "SPECIFICATONS FOR ROAD AND BRIDGE WORKS" (Fourth REVISION printed in year 2001) issued by the Ministry of Road Transport & Highways (MORT&H), Government of India and Published by the Indian Roads Congress, hereinafter to as MORT&H Specifications.
- (2) The General Technical Specifications for Road Works
- (3) The General Technical Specifications for Bridge Works
- (4) The General Technical Specifications for Asphaltic Works
- (5) The General Technical Specifications for Building Works

Note (2) To (5) are Conventional Specifications Booklets usually attached for (R&B) Works.

- 2.2 If, a particular clause (which is in corporate in "**SPECIFICATION**") of specification booklets (1) To (5) above is Amended / Modified / Added upon then the Amendment / Modification / Addition shall supersede the relevant clause incorporated in "**SPECIFICATION**"

- 2.3 In so far as Amended/Modified/Added Clause may come in conflict or be inconsistent with any of the provisions of the MORT&H Specifications under reference, the Amended/Modified/Added Clause and the additional specifications shall always prevail.

- 2.4 In the absence of any definite provisions on any particular issue in the aforesaid Specifications, reference may be made to the latest codes and specification, of IRC and BIS in that order. Where even these are silent, the construction and completion of the works shall conform to sound engineering practice as approved by the 'Engineer' and, in case of any dispute arising out of the interpretation of the above, the decision of the 'Engineer' shall be final and binding on the Contractor.

Signature of Contractor

**Executive Engineer
R&B Panchayat Division
Devbhumi Dwarka**