

# RAJKOT MUNICIPAL CORPORATION

e - Tender No.RMC/ENGG/EZ/24-25/30



## Bid Documents For CONSTRUCTION OF SLAB CULVERT NR. SCHOOL NO.70 AT JUNGLESHWAR MAIN ROAD IN WARD NO.16

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#MeraShahar,MeriPehchan 2023

### Milestone dates for e-tendering are as under

|  |                                      |
|--|--------------------------------------|
| 1. Downloading of e-documents  | 09-01-25 To 24-01-25 upto 17.00 Hrs. |
| 2. Pre-bid meeting in the O/o CE   | 16-01-25 at 16.00 Hrs.               |
| 3. Last date for online submission   | 24-01-25 upto 18.00 Hrs.             |
| 4. Submission of EMD, Tender fee and other documents for verification by Regd.Post.A.D. / Speed Post | Before 31-01-25 and 18.00 Hours      |
| 5. Opening of Technical Bid  | 01-02-25 at 11.00 Hours onwards      |
| 6.Verification of submitted documents (EMD, e - Tender fee, etc.)                                    | 01-02-25 at 11.00 Hours onwards      |
| 7.Opening of Price Bid (For Technically qualified bidders only)                                      | 03-02-25 at 11.00 Hours onwards      |
| 8.Bid Validity   | 120 Days                             |

2024-25

CITY ENGINEER  
RAJKOT MUNICIPAL CORPORATION  
SHRI ZAVERCHAND MEGHANI BHAWAN  
EAST ZONE, BHAVNAGAR ROAD,  
RAJKOT - 360003 (GUJARAT)

# RAJKOT MUNICIPAL CORPORATION

## BID DOCUMENT FOR

CONSTRUCTION OF SLAB CULVERT NR. SCHOOL NO.70 AT  
JUNGLESHWAR MAIN ROAD IN WARD NO.16

### PART-I

Section-1 Invitation to Bid, Instructions to Bidders  
and Formats.

Section-2 General Conditions of Contract

### PART-II

Section-3 Technical Specifications

### PART-III

Bill of Quantities ( With Price )

# ABBREVIATIONS

Statement showing the details of abbreviations

| <b>Full Form</b>                          | <b>Abbreviation</b> |
|---|---------------------|
| CITY ENGINEER                             | ACE                 |
| Operation and Maintenance                 | O&M                 |
| Net Present Value                         | NPV                 |
| Engineering Procurement and Construction  | EPC                 |
| Paschim Gujarat Vij Co. Ltd.              | PGVCL               |
| Critical Path Method                      | CPM                 |
| Reinforced Cement Concrete                | RCC                 |
| High Ground Level Reservoir               | HGLR                |
| Kilometer                                 | KM                  |
| Mild Steel                                | MS                  |
| Bureau of Indian Standard                 | BIS                 |
| American Water Works Association          | AWWA                |
| American Petroleum Industries             | API                 |
| Million Liter per Day                     | MLD                 |
| High Yield Strength Deformed bar          | HYSD                |
| Corrosion Resistance Steel                | CRS                 |
| Ordinary Portland Cement                  | OPC                 |
| American Standard for Testing of Material | ASTM                |
| Flux Compensated Magnetic Amplifier       | FCMA                |
| Cost Insurance and Freight                | CIF                 |
| Free On Board                             | FOB                 |
| EX – Works                                | EXW                 |

**PART - I**  
**SECTION - 1**

**INVITATION FOR BIDS**

**RAJKOT MUNICIPAL CORPORATION**  
**e-TENDER NOTICE**

The e-Tenders are invited with two bid system by e-Tendering from the experienced contractors registered in GWSSB / State Government / Central Government / Semi Government in appropriate class for below mentioned work:

| Sr No | Name of work   | a) Estimated cost in Rs.<br>b) EMD<br>c) E-TENDER fee<br>d) Time limit for completion of work                         |
|-------|--|---|
| 1     | CONSTRUCTION OF SLAB CULVERT NR. SCHOOL NO.70 AT JUNGLESHWAR MAIN ROAD IN WARD NO.16<br><br>e-TENDER No.RMC/ENGG/EZ/24-25/30 | a.1) Rs.45,00,000/- (with GST)<br>a.2) Rs.38,10,000/- (without GST)<br>b) Rs.39,000/-<br>c) Rs.3,000/-<br>d) 5 Months |

| Milestone dates for e-tendering are as under   |                                      |
|--|--------------------------------------|
| 1. Downloading of e-documents  | 09-01-25 To 24-01-25 upto 17.00 Hrs. |
| 2. Pre-bid meeting in the O/o CE   | 16-01-25 at 16.00 Hrs.               |
| 3. Last date for online submission   | 24-01-25 upto 18.00 Hrs.             |
| 4. Submission of EMD, Tender fee and other documents for verification by Regd.Post.A.D. / Speed Post | Before 31-01-25 and 18.00 Hours      |
| 5. Opening of Technical Bid  | 01-02-25 at 11.00 Hours onwards      |
| 6.Verification of submitted documents (EMD, e - Tender fee, etc.)                                    | 01-02-25 at 11.00 Hours onwards      |
| 7.Opening of Price Bid (For Technically qualified bidders only)                                      | 03-02-25 at 11.00 Hours onwards      |
| 8.Bid Validity   | 120 Days                             |

1. The e-tender fee will be accepted only in form of Demand Draft in favor of "Rajkot Municipal Corporation" Rajkot, payable at Rajkot from any Nationalized Bank or Scheduled Bank (except Co-operative Bank) in India and must be delivered to above address.
2. All bidders must submit Bid security (EMD) as above either directly deposited in ICICI Bank Account No.015305010638 (Rajkot Municipal Corporation) IFSC Code ICIC0000153 or submit at the below mentioned address in form of Demand Draft in favour of "Rajkot Municipal Corporation", Rajkot, from any Nationalized Bank or Scheduled Bank (except Co-operative Bank) in India. ~~Bank Guarantee will also be accepted.~~

3. Submission of required documents shall have to be done at the below mentioned address:

**Office of the CITY ENGINEER**  
Rajkot Municipal Corporation  
SHRI ZAVERCHAND MEGHANI BHAWAN,  
Construction Branch, BHAVNAGAR ROAD,  
Rajkot – 360003

4. The pre-qualification requirement is as under:

**i) Financial Criteria:**

1. The Bidder must have achieved a minimum annual turnover in any one year over the last seven financial years of the annual value of contracts value.
2. The Bidder should give undertaking that he has access to or has available, liquid assets and/or credit facility equal to 25% of the value of the contract / contracts applied.
3. Available Bid Capacity (ABC) must be more than the estimated tender cost.

Available bid capacity (ABC) =  $(A \times N \times 2) - B$ ,  
where,

**A** = Maximum of updated total amount of work executed in any one year of the last seven financial years taking into account the completed as well as works in progress

**B** = Amount of the existing commitments and ongoing works to be completed during time interval of N years from the bid due date.

**N** = Number of years prescribed for completion of the proposed works

4. Bidder must have minimum "E-1" Class registration.

**ii) Experience Criteria:**

The bidder should possess following minimum experience:

1. Bidder should have completed OR substantially completed at least one work of 40% of tender amount either in Government or Semi-Government or Government Autonomous Body as a main contractor in period of last seven years.

**Note:**

- i) Substantially completed works means those works which are completed at least 90% of original contract price on the date of submission of this tender and execution is satisfactory.
  - ii) The work may have been executed by the applicant as prime contractor or as a member of a joint venture. In case a project has been executed as a joint venture, joint venture proportion will be taken into consideration.
2. Bidder should have enough machinery and experienced personnel to supervise the work.

**Note on pre-qualification requirement:**

1. Enhancement factor at 10% per year for last seven years will be applicable to arrive at average annual turnover and experience to finalize the magnitude of work done in last seven years.

| Sr. No. | Year                       | Enhance Factor |
|---------|----------------------------|----------------|
| 1       | Current Year (2024-25)     | 1.00           |
| 2       | Current Year - 1 (2023-24) | 1.10           |
| 3       | Current Year - 2 (2022-23) | 1.21           |
| 4       | Current Year - 3 (2021-22) | 1.33           |
| 5       | Current Year - 4 (2020-21) | 1.46           |
| 6       | Current Year - 5 (2019-20) | 1.61           |
| 7       | Current Year - 6 (2018-19) | 1.77           |
| 8       | Current Year - 7 (2017-18) | 1.95           |

2. For Financial and Experience criteria, the estimated cost of Rs.45,00,000/- will be considered.
5. Bidder has to quote their rates without GST and including other taxes. The invoice should be submitted by contractor showing the breakup of GST in the bill. GST will be paid extra at the prevailing rate at the time of execution.
6. The contractor shall have to purchase the material required for this tender work, only from the supplier having registered GST Number. RMC will not be responsible to pay any amount towards GST if the material is purchased from the unregistered supplier / not having GST Number.
7. After opening of Technical Bid, the procedure for the pre-qualification shall be adopted and the Price Bid of only successful qualified bidder shall be opened for final evaluation of the contract. The decision of Municipal Commissioner regarding the pre-qualification shall be final and binding to all the bidders.
8. The Tender of those bidder(s) those who fails to produce the required documents physically within the stipulated date and time, will be treated as non responsive and their Price Bid will not be opened.
9. The bidder should not have been Black Listed, suspended, terminated, backed out, debarred & delisted by any Municipal Body / Urban Local Body / Development Authority in any State Government Body or undertaking / any department or undertaking of Government of India, since inception of the firm / Company. Such a case will be rejected out rightly. A Declaration in this regard on Rs.300/- Stamp Paper duly Notarized shall have to be submitted as per Annexure along with the tender documents. Submission of the bid document without such Notarized declaration will be rejected out rightly.
10. The bidder should provide accurate information on any litigation history or arbitration resulting from contracts completed or under execution by him over the last ten years. This should also include such cases, which are in process / progress. A consistent history of awards against the bidder may result in failure of the bid. In case the bidder has not provided such information and has come to the notice of the authority, the tender will be rejected at what so ever stage and in such case all the losses that will arise

out of this issue will be recovered from the Bidder / bidder and he will not have any defense for the same.

11. Joint Venture is not permitted for this tender.
12. Conditional Tenders will be out rightly rejected.
13. If no agency remains present and are no points for Prebid meeting, "NIL" minutes to be considered and the same will not be uploaded.
14. Rajkot Municipal Corporation, Rajkot, reserves the right to accept / reject any or all e-tender(s) without assigning any reasons thereof.

**CITY ENGINEER**  
**Rajkot Municipal Corporation**



**CHECKLIST FOR SUBMISSION OF DOCUMENTS**  
**(ONLINE AND OFFLINE)**

The bidder must submit the relevant documents as per below:

| Sr No | Document Name                             | ONLINE SUBMISSION | OFFLINE SUBMISSION |
|-------|---|-------------------|--------------------|
| 1     | Tender Fee                                | ✓                 | ✓                  |
| 2     | EMD                                       | ✓                 | ✓                  |
| 3     | Tender Documents with Corrigendum, if any | ✓                 | --                 |
| 4     | Agency Registration Certificate           | ✓                 | --                 |
| 5     | GST Registration                          | ✓                 | --                 |
| 6     | PAN Card                                  | ✓                 | --                 |
| 7     | PF Registration                           | ✓                 | --                 |
| 8     | ESIC Registration                         | ✓                 | --                 |
| 9     | Labour License & CESS Registration        | ✓                 | --                 |
| 10    | Profession Tax (PEC and PRC)              | ✓                 | --                 |
| 11    | Non-Blacklist Declaration                 | ✓                 | --                 |
| 12    | Turnover Certificate from CA              | ✓                 | --                 |
| 13    | Work Experience Certificates              | ✓                 | --                 |
| 14    | Other documents, if any                   | ✓                 | --                 |

**Note:** The bidder must submit all relevant documents as per qualification criteria and tender conditions. No correspondence to the agency will be done for shortfall documents.

Original documents to be brought by bidder/authorized person for verification on the date and time as communicated by engineer-in-charge. Successful bidder to submit hard copy of tender documents including addenda/Corrigendum, if any and other supportive documents as required in this tender, duly stamped & signed on all pages.

**CITY ENGINEER**  
**Rajkot Municipal Corporation**

Name and signature of Bidder

| <b>Check List for submission of Documents Tab</b>  |          |
|--|----------|
| Tender Fee submitted as per Tender   | Yes / No |
| Tender Earnest Money Deposit submitted as per Tender   | Yes / No |
| Registration documents submitted as per tender requirement   | Yes / No |
| <b>Financial Details:</b>  |          |
| Turnover details submitted as per requirement  | Yes / No |
| Working Capital as per requirement of tender is submitted  | Yes / No |
| <b>Experience Details:</b>   |          |
| Details of Technical Staff and details of machineries submitted  | Yes / No |
| Address proof submitted  | Yes / No |
| Identity proof submitted   | Yes / No |
| Fresh Declaration on Non-Judicial Stamp Paper regarding not black listed or Terminated or Debarred, is | Yes / No |
| Professional Tax Receipt of current  | Yes / No |

**Note:**

Over and above, the agency shall also have to submit all other necessary documents as may be required for pre-qualification, failing which, the agency will be treated as Non-responsive and will be DISQUALIFIED and also the online price bid of such agency will not be opened.

Signature of contractor with seal

**INSTRUCTIONS  
TO  
BIDDERS**

## **INSTRUCTIONS TO BIDDER**

### **IT 1. GENERAL**

The contract documents may be secured in accordance with the Notice Inviting E-TENDER for the work called. The work shall include supply of materials necessary for construction of the work.

### **IT 2. INVITATION TO E-TENDER**

The Rajkot Municipal Corporation hereinafter referred as the Corporation will receive e-Tenders for the work of as per the specifications and schedule of prices in the e-Tender document. The e-Tenders shall be opened online as specified in the e-Tender notice in the presence of interested Bidders or their representatives. The Corporation reserves the right to reject the lowest or any other or all e-Tenders or part of it which in the opinion of the Corporation does not appear to be in its best interest, and the Bidder shall have no cause of action or claim against the Corporation or its officers, employees, successors or assignees for rejection of his e-Tender.

### **IT 3. LANGUAGE OF e-TENDER**

E-TENDERS shall be submitted in English, and all information in the e-Tender shall also be in English, Information in any other language shall be accompanied by its translation in English. Failure to comply with this may make the e-Tender liable to rejection.

### **IT 4. QUALIFICATIONS OF BIDDERS**

- A. The Bidders shall abide by the laws of the Union of India and of Gujarat State and legal jurisdiction of the place where the works are located.
- B. The Bidder shall furnish a written statement of financial and technical parameters with details and documents along with his e-Tender which contains namely as below:
- i. The Bidder's experience in the fields relevant to this contract.
  - ii. The Bidder's financial capacity/resources and standing over at least 7 (Seven) years.
  - iii. The Bidder's present commitments (Jobs on hand).
  - iv. The Bidder's capability and qualifications of himself and his regular staff etc.
  - v. Plants and Machinery available with the Bidder for the work e-Tendered.
- C. Joint venture : (N.A.)
- i. For the work mentioned above Joint Venture shall be allowed with maximum number of partner two, however all the fees, guarantee amount etc will be in the name of lead partner.
  - ii. In Joint Venture, the lead partner as well as any other partner should have experience of similar nature of work, minimum 15 % of the estimated cost.

In case of Joint venture the tender evaluation will be as under:

**Financial :-**

The finance of each partner will be consider proportionate to their share in the Joint venture agreement.

**Technical :-**

The experienced of each partner will be added in the tender evaluation.

Bids submitted by a joint venture of two firms as partners shall comply with the following requirements.

- i. Tender fee, Earnest Money Deposit, Security Deposit and other financial details will be in the name of the lead partner.
- ii. All the partners shall have to enter into the Joint venture agreement and original agreement duly notarized shall have to be submitted along with tender documents.
- iii. The bid, and in case of a successful bid, the Form of Contract Agreement, shall be signed so as to be legally binding on all partners.
- iv. One of the partners shall be authorized to be in charge, and his authorization shall be evidenced by submitting a power of attorney by legally authorized signatories of all the partners.
- v. The partner in charge shall be authorizes to incur liabilities, receive payments and receive instructions for and on behalf of any or all partners of the joint venture and the entire execution of the Contract.
- vi. All partners of the joint venture shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms and relevant statement to this effect shall be included in the authorization mentioned under (iv) above as well as in the Bid Form and the Form of Contract Agreement ( in case of successful bid ); and
- vii. Permissible Joint venture partners shall be restricted to two numbers.  
The owner or the Engineer-in-charge is not obliged to disclose his findings or his Assessment.

The Bidder shall furnish original documents on the date mentioned in tender notice. The bid for those bidder will be treated as non-responsive who failing to produce original documents on specified date.

#### **IT 5. e-TENDER DOCUMENTS**

The e-Tender documents and drawings shall comprehensively be referred to as e-TENDER document. The several sections form in the document are the essential parts of the contract and a requirement occurring in one shall be as binding as though occurring in all, they are to be taken as mutually, explanatory and describe and provide for complete works.

#### **IT 6. EXAMINATION BY BIDDERS**

- A. At this own expense and prior to submitting his e-Tender, each Bidder shall (a) examine the Contract Documents, (b) visit the site and determine local conditions which may affect the work including the prevailing wages and other pertinent cost factors, (c) familiarize, himself with all central, state and local laws, ordinance, rules regulations and codes affecting the material supply including the cost of permits and licenses required for the work and (d) correlate his observations, investigations, and determinations with the requirements of the e-TENDER Documents, site & subsoil investigation.
- B. The e-Tender is invited on ..%. rate and contractor shall have to quote his price on % bases above or below in the schedule -B./ Price Schedule. The works shall have to be completed in all respect as stated in the e-Tender document to the satisfaction of the Corporation.

C. The following comprises in Contract Documents at a price of Rs.3,000-00.

**e-TENDER Document:**

**Part-I**

1. Notice inviting Bidders.
2. Instructions to the Bidder.
3. Check List
4. Formats
5. General conditions of contract

**Part-II**

Technical specifications

**Part-III**

- a. Bid Form (With Price )
- b. Preamble to Price schedule
- c. Price Schedule (Schedule-B)

**General Specifications**

1. General note & site description.
2. Definition.
3. Scope of Contract.
4. e-Tender price.
5. Completion Schedule.
6. Site investigation.
7. Contractor's responsibility.
8. Safety.
9. Quality Assurance.
10. Classification of Strata.

D. Copy of the E-TENDER Document should be completed, checked in a responsible manner, digitally signed, and submitted. Security Bond shall be submitted in person by the stipulate date, which shall form the e-Tender.

The e-Tender is required to complete with all the pages in which entries are required to be made by the Bidder are contained in the e-Tender documents and the Bidder shall not take out or add to or amend the text of any of the documents except in so far as may be necessary to comply with any addenda issued pursuant to Clause IT.17 hereof.

**IT 7. EARNEST MONEY DEPOSIT:**

- A. Each Bidder must submit a receipt of deposit as Tender guarantee towards Earnest money amounting to Rs.39,000/- in any form mentioned below:
  - a) By a Demand Draft on the Rajkot Branch of any Nationalized Bank or Scheduled Bank except co-operative bank.
  - b) It can be directly deposited in the account of Rajkot Municipal Corporation.

- c) ~~A Bank Guarantee from Rajkot Branch of any Nationalized Bank or Scheduled Bank except co-operative bank. It shall be valid for a period of not less than Three hundred and Sixty (360) days from the date of submission.~~

EMD shall comply with the requirements for Bond as stipulated in the General conditions of contract. The Tender guarantee bond will be held by the owner as a guarantee that the Bidder, if awarded the contract, will enter into the contract agreement in good faith and furnish the required bonds. Any e-Tender not accompanied by a Tender guarantee in the form of earnest money deposited for the sum stipulated in the e-Tender Document will be summarily rejected.

- B. The Earnest Money Deposit will be refunded to the unsuccessful Bidders after an award has been finalized.
- C. The Earnest Money Deposit (Tender Guarantee) will be forfeited in event the successful Bidder fails to accept the contract and fails to submit the "Performance Guarantee Bonds to the Owner as stipulated in this e-Tender document within ten (10) days after receipt of notice of award of contract.

The successful Bidder shall furnish the required Security Deposit for performance and plus additional security if any for unbalanced bids in accordance with the condition of the contract and attend the office of the Engineer In-charge for execution of the contract documents. If he fails to furnish the Security Deposit for performance or enter into an agreement to execute the contract for the work offered to him, his Earnest Money Deposit will be forfeited and the Bidder will be Black Listed / Debarred from tendering for further works of Rajkot Municipal Corporation for the period of three years.

- D. The Earnest Money Deposit of the successful Bidder shall be returned after the performance guarantee bond, as required, is furnished by the contractor.
- E. No interest shall be paid by the owner on any e-Tender guarantee.

**IT 8. INCOME TAX CLEARANCE CERTIFICATE: (DELETED)**

Latest Income Tax clearance Certificates must accompany with the e-Tender without which the e-Tender is liable to be summarily rejected. The Income Tax Clearance Certificate obtained from the Income Tax Officer shall clearly indicate the Income Tax Pan No/Circle/Ward, District and the reference number of the assessment along with the assessment year.

**IT 9. PREPARATION OF e-TENDER DOCUMENTS**

Bidders are required to note the following while preparing the e-TENDER Documents:

- A. e-TENDER shall be submitted on the e-TENDER form bound here in English. All statements shall be properly filled in. Numbers shall be stated both in words and in figures were so indicated.

- B. All entries or prices and arithmetic shall be checked before submission of the e-TENDER. If there is discrepancy between the rates quoted in figures and in words, the rates expressed in words shall be considered as binding.
- C. Each e-Tender shall be accompanied by the prescribed e-Tender security bond and other required documents and drawings. All witnesses and sureties shall be persons of status and probity and their full names, occupations and addresses shall be stated below their signature.
- D. Variation to the contract Documents requested by the Bidder may be affixed and duly signed and stamped. Such variations may be approved or refused by the Corporation is not obliged to give reason for his decisions.

#### **IT 10. SUBMISSION OF e-TENDER DOCUMENTS**

Bidders are requested to submit the e-TENDER Documents on following lines.

- A. Volume containing following documents:
  - I. Earnest Money Deposit.
  - II. Certificates as registered contractor in appropriate class with Government of Gujarat or appropriate authority.
  - III. Bidder's financial capability statement including last three years Income tax returns, balance sheet, duly signed by registered chartered account.
  - IV. Bidder's experience in the field relevant to this contract.
  - V. A list of the equipment the Bidder possesses and that which he proposed to acquire and use for the purpose related to the work.

The time limit for receipt of e-Tender shall strictly apply in all cases. The Bidders should therefore ensure that their e-Tender is received by the competent authority **The Rajkot Municipal Corporation** at before expiry of the time limit. No delay on account of any cause for receipt of e-Tender shall be entertained.

The e-Tender must contain the name address of residence and place of business of the person or persons submitting the e-Tender and must be digitally signed.

e-TENDER by partnership firm must be furnished with the full names and addresses of all partners and be signed by one of the members of the partnership or by a legally authorized representative holding power of attorney followed by signature and designation of the person of person signing.

e-TENDER by Corporations/Companies must be signed with the legal name of the Corporation/Companies by the president/or by the secretary or other person or persons legally authorized to bind the Corporation/Company in the matter.

#### **IT 11 TENDER VALIDITY PERIOD**

The validity period of the e-Tender submitted for this work shall be of One Hundred and Twenty (120) calendar days from the date opening of Technical



bid of eTender and that the Bidder shall not be allowed to withdraw or modify the e-Tender offer on his own during the validity period. The Bidder will not be allowed to withdraw the e-Tender or make any modifications or additions in the terms and conditions on his own e-Tender. If this is done then the owner shall, without prejudice to any other right or remedy, be at liberty to reject the e-Tender and forfeit the earnest money deposit in full.

**IT 12 GENERAL PERFORMANCE DATA**

Bidder shall present all the information which sought for in the e-Tender document in form of various schedules if given. e-TENDERS may not be considered if left blank or the schedules are not properly filled in.

**IT 13 SIGNING OF e-TENDER DOCUMENTS**

If the Tender is made by an individual it shall be signed with his full name above his current address. If the Tender is made by a proprietary firm, it shall be signed by the proprietor above his name and the name of his firm with his current address.

If the e-Tender is made by a firm in partnership, it shall be signed by all the partners of the firm above their full names and current address, or by a partner holding the power of attorney for the firm, in which case a certified copy of the power of attorney shall accompany the e-TENDER. A certified copy of the partnership deed, current addresses of all the partners of the firm shall also accompany the e-Tender.

If the e-Tender is made by a limited company or a limited corporation, it shall be signed by a duly authorized person holding the power of attorney, shall accompany the e-Tender. Such limited company or corporation may be required to furnish satisfactory evidence of its existence before the contract is awarded.

If the e-TENDER is made by a group of firms, the sponsoring firm shall submit complete information pertaining to each firms in the group and state along with the bid as to which of the firms shall have the responsibility for e-Tendering and for completion of the contract documents and furnish evidence admissible in law in respect of the authority to such firms on behalf of the group of firms for e- Tendering and for completion of contract documents. The full information and satisfactory evidence pertaining to the participation of each member of the group of firms in the e-Tender shall be furnished along with the e-Tender.

All witnesses and sureties shall be persons of status and probity and their full names, occupations and addresses shall be stated below their signatures. All the signatures in the e-Tender document shall be dated.

**IT 14 WITHDRAWAL OF TENDERS**

If, during the tender validity period, the Bidder withdraws his Tender, Tender security (Earnest Money) shall be forfeited and Bidder will be debarred for next three years to quote in R.M.C.

**IT 15 INTERPRETATIONS OF e-TENDER DOCUMENTS**

Bidders shall carefully examine the e-TENDER Document and fully inform themselves as to all the conditions and matters which may in any way affect the work or the cost thereof. If a Bidder finds discrepancies or omission from the specifications or other documents or should be in doubt as to their meaning, he should at once address query to the CITY ENGINEER, R.M.C. The result of interpretation of the e-TENDER will be issued as addendum.

**IT 16 ERRORS AND DISCREPANCIES IN e-TENDERS**

In case of conflict between the figures and words in the rates the rate expressed in words shall prevail and apply in such cases.

**IT 17 MODIFICATION OF DOCUMENTS**

Modification of specifications and extension of the closing date of the e-Tender, if required will be made by an addendum. Each addendum will be made available online to all Bidders. These shall form a part of e-Tender. The Bidder shall not add to or amend the text of any of the documents except in so far as may be necessary to comply with any addendum.

**ADDENDA**

Addenda form part of the Contract Documents, and full consideration shall be given to all Addenda in the preparation of e-Tender. Bidders shall verify the number of Addenda issued, if any and acknowledge the receipt of all Addenda in the e-TENDER Failure to so acknowledge may cause the e-Tender to be rejected.

A. RMC may issue Addenda to advise Bidders of changed requirements. Such addenda may modify previously issued Addenda.

B. No addendum may be issued after the time stated in the notice inviting e-Tenders.

**IT 18 TAX AND DUTIES ON MATERIALS**

All charge on account of excise duties, Central / State, sales tax, work contract tax and other duties etc. on materials obtained for the works from any source shall be borne by the contractors. No (P) or 'C' or 'D' form shall be supplied.

**IT 19 EVALUATION OF e-TENDERS**

While comparing e-Tenders, the Rajkot Municipal Corporation shall consider factors like price offer is workable with the market price, efficiency and reliability of construction method proposed, compliance with the specifications, relative quality, work done in past with Rajkot Municipal Corporation or other Government Organizations, litigation issues etc. Evaluation criteria specifically mentioned in the specification will also be taken into consideration in the evaluation of e-Tenders.

**IT 20 TIME REQUIRED FOR COMPLETION**

The completion period mentioned in this schedule is to be reckoned from the date of notice to proceed. Total completion period is 5 Months from the date

of issue of notice to proceed and contractor should adhere to this completion time. Monsoon period from 1<sup>st</sup> July to 30<sup>th</sup> September will be considered as non-working period and hence excluded in time limit.

**IT 21 POLICY FOR TENDER UNDER CONSIDERATION**

TENDER shall be termed to be under consideration from the opening of the e-Tender until such time any official announcement or award is made.

While e-Tenders are under consideration, Bidders and their representative or other interested parties are advised to refrain from contacting by any means any Corporation personnel or representatives on matters related to the e-Tenders under study. The Corporation's representatives if necessary will obtain clarification on e-Tenders by requesting such information from any or all the Bidders, either in writing or through personal contact, as may be necessary. The Bidder will not be permitted to change the substance of his e-Tender after e-Tenders have been opened. This includes any post Tender price revision. Non-compliance with his provision shall make the Tender liable for rejection.

**IT 22 PRICES AND PAYMENTS**

The Bidder must understand clearly that the prices quoted are for the total works or the part of the total works quoted for and include all costs due to materials, labour, equipment, supervision, other services, royalties, taxes etc. and to include all extra to cover the cost. No claim for additional payment beyond the prices quoted will be entertained and the Bidder will not be entitled subsequently to make any claim on any ground.

**IT 23 PAYMENT TERMS**

The terms of payment are defined in the General Conditions of Contract and Technical specifications. The Corporation shall not under any circumstances relax these terms of payment and will not consider any alternative payment terms. Bidders should therefore in their own interest note this provision to avoid rejection of their e-Tenders.

**IT 24 AWARD**

Award of the contract or the rejection or e-TENDERS will be made during the Tender validity period. A separate Schedule-B (Price Schedule) is given. The contractors are requested to quote their price offer in % below or above on the given price in the schedule-B of Price Schedule only.

- A. After all contract contingencies are satisfied and the Notice of Award is issued, the successful Bidder shall execute the Contract Agreement within the time stated and shall furnish the Bond as required herein. The contract Agreement shall be executed, in form stipulated by the Owner.
- B. If the Bidder receiving the Notice of Award fails or refuses to execute the Contract Agreement within the stated time limit or fails or refuses to furnish the Bond as required herein. The Owner may annul his award and declare the e-Tender security forfeited and will take action as deemed fit.

- C. A Corporation, partnership firm or other consortium acting as the Bidder and receiving the award shall furnish evidence of its existence and evidence that the officer signing the contract agreement and Bonds for the corporation, partnership firm or other consortium acting as the Bidder is duly authorized to do so.

#### **IT 25 SIGNING OF CONTRACT**

The successful Bidder shall be required to execute the contract agreement within 10 days of receipt of intimation to execute the contract, failing which the Corporation will be entitled annul to the award and forfeit the Earnest Money Deposit. The person to sign the contract document shall be person as detailed in Article IT.13 (signing of e-Tender documents).

#### **IT 26 DISQUALIFICATION**

A e-Tender shall be disqualified and will not be taken for consideration if,

- (a) The envelope does not show on the outside the reference of bid and thus gets opened before the due date of opening (as per Article IT 10 i.e. submission of tender document)
- (b) The Tender fee and Tender Earnest Money Deposit is not deposited in full and in the manner as specified as per Article IT.7 i.e. Earnest Money Deposit.
- (c) The e-Tender is in a language other than English or does not contain its English Translation in case of other language adopted for e-Tender preparation.
- (d) The e-Tender documents are not signed by an authorized person (as per Article IT. 13 i.e. signing of e-Tender documents).
- (e) The general performance data for qualification is not submitted fully (as per Article IT 12 i.e. General performance Data).
- (f) Bidder does not agree to payment terms defined as per Article IT. 23 i.e. payment terms.

A. A e-Tender may further be disqualified if,

- (a) Price variation is proposed by the Bidder on any principle other than those provided in the e-TENDER Documents.
- (b) Completion schedule offered is not consistent with the completion schedule defined and specified in e-Tender document.
- (c) The validity of e-Tender bond is less than that mentioned in Article IT. 11 i.e. e - Tender validity period.
- (d) Any of the page or pages of e-Tender is/are removed or replaced.
- (e) Any conditional tender.
- (f) All corrections or posted slips are not initiated by Bidder.
- (g) Any erasure is made in the e-tender.

#### **IT 27 PERFORMANCE GUARANTEE (SECURITY DEPOSIT)**

As a contract security the Bidder to whom the award is made shall furnish a performance guarantee (Security deposit) for the amount of 5% of the contract price to guarantee the faithful performance, completion and maintenance of the works of the contract in accordance with all conditions and terms specified herein and to the satisfaction of the Engineer-in-charge and ensuring the discharge of all obligations arising from the execution of contract.

Additional performance guarantee is payable if,

1. the contract price offered by the selected bidder is lower than 10% but upto 20% of the estimated project cost than the additional performance security shall be calculated @ 20% of the difference in the estimated project cost minus 10% of the estimated project cost and Contract price offered by the selected bidder.
2. the contract price offered by the selected bidder is lower than 20% of the Estimated project cost than the additional performance security shall be calculated @ 30% of the difference in the Estimated project cost minus 10% of the Estimated project cost and Contract price offered by the selected bidder.

This additional performance security shall be treated as part of the performance security.

Performance security shall be valid beyond 60 days of the defect liability period and the additional performance security shall be valid beyond 28 days of project completion date.

Final SD will be calculated at the time of final bill i.e. actual completion amount.

Performance as mentioned above may be in the forms mentioned below:

- d) By a Demand Draft on the Rajkot Branch of any Nationalized Bank or Scheduled Bank except co-operative bank.
- e) A fixed deposit receipt of any Schedule Bank or Nationalized Bank (except Co-operative Bank) duly endorsed in favour of the **Rajkot Municipal Corporation, Rajkot.**
- f) A Bank Guarantee from Rajkot Branch of any Nationalized Bank or Scheduled Bank except co-operative bank.

The performance guarantee shall be delivered to the Corporation within ten (10) days of the notice of award and at least three (3) days before the contract agreement is signed unless otherwise specified by the Engineer-in-charge. Alternatively, the contractor may at his option deposit an amount of 2.5% of the value of the contract price within ten days and the balance 2.5% to be recovered in installments through deduction @ the rate of 10% from the running account bills. It is further clarified that Performance Guarantee (SD) for extra work will also be recovered @ 10% from the bill of extra work i.e. works beyond tender amount.

On due performance and completion of the contract in all respects, **THE PERFORMANCE GUARANTEE (SECURITY DEPOSIT) WILL BE RELEASED TO THE CONTRACTOR WITHOUT ANY INTEREST AFTER DEFECT LIABILITY PERIOD IS OVER.**

**IT 28 STAMP DUTY**

The successful Bidder shall have to enter into an agreement on a non-judicial stamp paper of amount as per Stamp Duty Act in the form of the agreement approved by the Corporation. The cost of stamp paper and adhesive stamp shall be borne by the contractor.

**IT 29 BRAND NAMES**

Specific reference in the specifications to any material by manufacturer's name, or catalogue shall be constructed as establishing a standard or quality and performance and not as limiting competition and the Bidder in such cases, may at his option freely use only other product, provided that it ensures an equal of higher quality than the standard mentioned and meets Corporation approval.

**IT 30 NON TRANSFERABLE**

e-TENDER documents are not transferable.

**IT 31 COST OF e-Tendering**

The owner will not defray expense incurred by Bidders in e-Tendering.

**IT 32 EFFECT OF e-Tender**

The e-Tender for the work shall remain for a period of One hundred and Twenty (120) calendar days from the date of opening of Technical Bid for this work and that the Bidder shall not be allowed to withdraw or modify the offer in his own during the period. If any Bidder withdraws or makes any modification or additions in the terms and conditions of his own e-Tender, then the Corporation shall, without prejudice to any other right or remedy, be at liberty to reject the e-Tender and forfeit the earnest money in full.

**IT 33 CHANGE IN QUANTITY**

The Corporation reserves the right to waive any information in any e-Tender and to reject one or all e-Tenders without assigning any reasons for such rejection and also to vary the quantities of items or group as specified in the scheduled of prices as may be necessary.

**IT 34 NEW EQUIPMENT AND MATERIAL**

All materials, equipment and spare parts thereof shall be new, unused and originally coming from manufacturer's plant to the Corporation. The rebuilt or overhauled equipment/materials will not be allowed to be used on works.

**IT 35 RIGHTS RESERVED**

The owner reserves the right to reject any or all e-Tenders, to waive any informality or irregularity in any e-Tender without assigning any reason. The owner further reserves the right to withhold issuance of the notice to proceed, even after execution of the contract agreement. No payment will be

made to the successful Bidder on account of such withholding. The owner is not obliged to give reasons for any such action.

**IT 36 ADDITIONAL RIGHTS RESERVED**

The Commissioner, Rajkot Municipal Corporation, reserves the right to reduce the scope of work & split the e-Tender in two or more parts without assigning any reason even after the awards of contract.

**IT 37 MOBILIZATION ADVANCE**

No mobilization advance or advance on machinery will be given.

**IT 38 CONDITIONAL e-Tenders**

The scope of work is clearly mentioned in the e-Tender documents. The contractor shall have to carry out the work in accordance with the details specifications. No condition will be accepted. The conditional e-Tender will liable to be rejected.

**IT 39 CESS & REGISTRATION:**

For the welfare of labour working under construction Industry, the agency shall have to take the registration with competent authority as per Circular No.CWA/2004/841/M-3 dated 30-01-2006 of Government of Gujarat. Rajkot Municipal Corporation will deduct prevailing CESS of the value of work and will deposit the same in Government.

**IT 40 ESI REGISTRATION:**

The contractors who are liable to be registered under ESI Act must possess ESI registration number at the time of filling of tender. The agency should follow all the rules and regulations of ESI Act as per prevailing norms.

**IT 41 PROFESSIONAL TAX**

The bidder shall have to pay the Professional Tax for current financial year imposed by Government of Gujarat, and also the bidder shall have to produce Enrollment Certificate for the same.

**IT 42 PF CODE:**

The contractors who are liable to be registered under EPF Act, 1950 must possess EFP code at the time of filling of tender. The agency should follow all the rules and regulations of the Act as prevailing currently.

**IT 43 LABOUR LICENSE:**

The contractors who are liable to be registered under Contract Labour Act, 1970 must possess online Labour License at the time of filling of tender. The agency should follow all the rules and regulations of the Act as prevailing currently.

**IT 44 FILLING OF e-TENDER**

The bidder shall have to fill all the details required in on-line bidding form of e-Tender. Incomplete OR inappropriate OR wrong information filled may cause the e-Tender to be rejected.

Add. Asst. Engineer  
Rajkot Muni.

Dy. Executive Engineer  
Rajkot Muni. Corporation

CITY ENGINEER  
Rajkot Muni. Corporation

Signature of Contractor with Seal



# **F O R M A T S**

Financial & Other Statements

Information / Details to be submitted by the Bidders in the Performa mentioned under Statement no 1 to 9. All the documents submitted herewith as supporting documents shall be duly attested and certified true copy.

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STATEMENT NO-1

DECLARATION

I / We \_\_\_\_\_ hereby declared that I am / We partner(s) are not black listed or Terminated or Debarred or suspended, backed out, delisted or connected with firm black listed or terminated or debarred or suspended or backed out or delisted in any States, CPWD/ MES/ Railways or any Government, Semi- Government or Private body since the inception of the firm / company. Also, no Police complaint is lodged against the firm / company or Staff deployed by me / us.

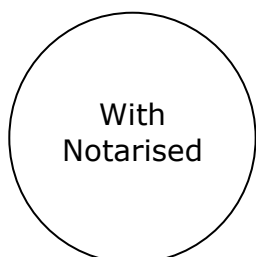
At present I am / we are registered as approved contractor(s), firms in \_\_\_\_\_ State, CPWD / MES / Railways.

I, owner / We, the partners of this firm, hereby give an undertaking that we are jointly and severally responsible to meet all the liabilities ever and above the business of this firm and make good the above financial loss sustained by the Rajkot Municipal Corporation as a result of our abandoning the works entrusted to us.

I further undertake that if above declaration proves to be wrong/ incorrect or misleading, our tender/ contract stands to be cancelled/ terminated.

Date:  
Place:

\_\_\_\_\_  
Signature of Authorized Person



## STATEMENT NO-2

### **APPLICABILITY OF PROVIDENT FUND AND MISCELLANEOUS PROVISIONS ACT 1952**

Successful bidder i.e. the agency whose tender is accepted by the RMC shall have to comply the necessary formalities under the employees provident fund and Miscellaneous Provisions Act, 1952 as Contributory Provident Fund Scheme is applicable to labourers engaged in construction activity and shall have to submit proofs regarding deduction of provident fund and other dues and depositing the same with government department under the act and the scheme regularly on monthly basis failing which no running / final bill payment will be made by the RMC to the contractor in any circumstances.

**A certificate to the above effect has to be given by the contractor as under.**

### **Declaration Of Depositing Provident Fund contribution**

This to certify that we have deducted the employees' P.F. and deposited the same along with employer's contribution towards provident fund on labour charges / wages paid by us to the labourers engaged for the work of \_\_\_\_\_

\_\_\_\_\_ with Provident Fund Authority under our Provident Fund Code No. \_\_\_\_\_

We produce herewith the copies of the challans for the provident fund deduction and contribution deposited as mentioned above.

Date:

Seal and Signature of the Bidder

**STATEMENT NO. -3**

**CURRICULAM VITAE**

| Sr.No. | Details of person                   |  |
|--------|-------------------------------------|--|
| 1.     | Name                                |  |
| 2.     | Age                                 |  |
| 3.     | Qualifications                      |  |
| 4.     | Experience in Project Related field |  |
| 5.     | Other experiences                   |  |
| 6.     | Employment Record.                  |  |

| Sr.No. | Period<br>From - To | Organization<br>under which<br>work | Status<br>/position in<br>the |
|--------|---------------------|-------------------------------------|-------------------------------|
|        |                     |                                     |                               |
|        |                     |                                     |                               |
|        |                     |                                     |                               |
|        |                     |                                     |                               |

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Note:**

- (1) Separate sheet for each person to be furnished as above.
- (2) The contractor's Project Team should consist of persons in the following disciplines.
  - a) Senior Engineer with experience of Building work
  - b) Senior material Engineer.
  - c) Senior Quantity Surveyor.
  - d) Project management expert.
  - e) Site in charge

## STATEMENT – 4

### INFORMATION REGARDING FINANCIAL CAPACITY OF THE CONTRACTORS

| Sr. | Details   | Amount (Rs. in lakhs) | Remarks   |
|-----|---|-----------------------|---|
| 1.  | Solvency  |                       | <del>A Banker's Certificate of current financial year may please be attached.</del> |
| 2.  | Annual Turnover for the last seven years.       |                       | Certified true copy to be attached  |
| 3.  | Price of biggest similar nature job carried out |                       | Certified true copy to be attached  |

**STATEMENT NO. – 4/A**

**BIDDER'S FINANCIAL CAPACITY**

| Sr. No. | Financial Year | Annual Turnover in Engineering Project Rs. | Net worth Rs. | Net Cash Rs. | Working Capital Rs. |
|---------|----------------|--|---------------|--------------|---------------------|
| 1       | 2023-2024      |  |               |              |                     |
| 2       | 2022-2023      |  |               |              |                     |
| 3       | 2021-2022      |  |               |              |                     |
| 4       | 2020-2021      |  |               |              |                     |
| 5       | 2019-2020      |  |               |              |                     |
| 6       | 2018-2019      |  |               |              |                     |
| 7       | 2016-2017      |  |               |              |                     |

**Note:-**

- 1) *Figures to be taken from audited balance sheets. Duly certified attested true copy*
- 2) *Copies of the balance sheet to be attached..*
- 3) *The bidder shall have to provide that for a period of at least 5 Months the bidder has ability to sustain negative cash balance and how he proposes to meet with the same.*
- 4) *Cash Plan / Cash flow Statement.*

**STATEMENT NO. – 4 / B**

**AVAILABLE BID CAPACITY**

|  | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|--|---------|---------|---------|---------|---------|---------|---------|
| Value of works executed in Rs. Crores. |         |         |         |         |         |         |         |

The available bid capacity will be worked out as follows.

$$\text{Available bid capacity} = (A \times N \times 2) - B,$$

where

**A** = Maximum of updated total amount of work executed in any one year of the last five financial years.

**B** = The amount of the existing commitments and ongoing works to be discharge during time interval of N years from the bid due date.

**N** = Number of years prescribed for completion of the proposed works



**STATEMENT NO. – 5**

**LIST OF SINGLE PROJECT WORK OF NOT LESS THAN 60% OF THE ESTIMATED COST COMPLETED DURING THE LAST SEVEN YEARS.**

| <b>Sr. No</b> | <b>Year of Construction work</b> | <b>Name of Project</b> | <b>Name of owner &amp; contact person of the project, address, phone</b> | <b>Total cost of the work</b> | <b>Total value of work done</b> | <b>Date of starting work</b> | <b>Date of Actual completion of work</b> |
|---------------|----------------------------------|------------------------|--|-------------------------------|---------------------------------|------------------------------|--|
| <b>1</b>      | <b>2</b>                         | <b>3</b>               | <b>4</b>   | <b>5</b>                      | <b>6</b>                        | <b>7</b>                     | <b>8</b>                                 |
| 1             |                                  |                        |  |                               |                                 |                              |  |
| 2             |                                  |                        |  |                               |                                 |                              |  |
| 3             |                                  |                        |  |                               |                                 |                              |  |
| 4             |                                  |                        |  |                               |                                 |                              |  |
| 5             |                                  |                        |  |                               |                                 |                              |  |
| 6             |                                  |                        |  |                               |                                 |                              |  |
| 7             |                                  |                        |  |                               |                                 |                              |  |
| 8             |                                  |                        |  |                               |                                 |                              |  |
| 9             |                                  |                        |  |                               |                                 |                              |  |
| 10            |                                  |                        |  |                               |                                 |                              |  |

**Note:** Certificate from the owners in support of above works may be enclosed with this statement.

**STATEMENT NO. 5/ A**

Detailed information of similar type of work costing not less than 50% of tender amount completed with good quality and workmanship in the past seven years.

Name of Contractor: \_\_\_\_\_

| Sr. No | Name of work | Name of client | Estimated cost of work (Rs. Lakhs) | Tendered amount (Rs. Lakhs) | Date of award of contract | Target date of completion | Actual date of completion | Reason for delay | Amount of work done during last seven years preceding this tender (Rs. Lakhs). |      |      |      |      |      |      | Amount of work done after March 2021 (Rs. Lakhs) | Remarks |      |  |
|--------|--------------|----------------|------------------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|------------------|--|------|------|------|------|------|------|--|---------|------|--|
|        |              |                |                                    |                             |                           |                           |                           |                  | 2017   | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |  |         | 2024 |  |
|        |              |                |                                    |                             |                           |                           |                           |                  |  |      |      |      |      |      |      |  |         |      |  |
|        |              |                |                                    |                             |                           |                           |                           |                  |  |      |      |      |      |      |      |  |         |      |  |
|        |              |                |                                    |                             |                           |                           |                           |                  |  |      |      |      |      |      |      |  |         |      |  |
|        |              |                |                                    |                             |                           |                           |                           |                  |  |      |      |      |      |      |      |  |         |      |  |
|        |              |                |                                    |                             |                           |                           |                           |                  |  |      |      |      |      |      |      |  |         |      |  |
|        |              |                |                                    |                             |                           |                           |                           |                  |  |      |      |      |      |      |      |  |         |      |  |

**Note:** Certificate from the owners in support of above works may be enclosed with this statement.

**STATEMENT NO – 5/B**  
**DETAILS OF IMPORTANT CONSTRUCTION PROJECTS**

| Sr. No | Name of Project | Estimated cost | Prescribed time of performance |                 | Actual Completion |                 | Actual Completion Cost Rs. | Name, address and |
|--------|-----------------|----------------|--------------------------------|-----------------|-------------------|-----------------|----------------------------|-------------------|
|        |                 |                | Start Date                     | Completion Date | Start Date        | Completion Date |                            |                   |
| 1      | 2               | 3              | 4                              | 5               | 6                 | 7               | 8                          | 9                 |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |
|        |                 |                |                                |                 |                   |                 |                            |                   |

*Note: Certificate from the owners in support of above works may be enclosed with this statement.*

STATEMENT NO. – 5/C

**DETAILS OF ONGOING PROJECT**

| <b>Sr.<br/>No</b> | <b>Name of project</b> | <b>Value of<br/>remaining<br/>work Rs. in<br/>lakhs.</b> | <b>Start<br/>date</b> | <b>Likely<br/>date of<br/>completi<br/>on</b> | <b>Name, address,<br/>telephone, fax no. of<br/>project authority and<br/>contact person.</b> |
|-------------------|------------------------|--|-----------------------|---|---|
|                   |                        |  |                       |   |   |

**STATEMENT NO.-6****DETAILS OF PLANT & MACHINERY TO BE DEPLOYED ON THIS WORK**

Name of the contractor/company\_\_\_\_\_

| Sr. No | Name of plants/machinery | Nos. available (with make & year) | Nos. proposed to be deployed for this project | Present location | Present value of plant/ machineries |
|--------|--------------------------|-----------------------------------|---|------------------|-------------------------------------|
| 1      | 2                        | 3                                 | 4   | 5                | 6                                   |
|        |                          |                                   |   |                  |                                     |
|        |                          |                                   |   |                  |                                     |
|        |                          |                                   |   |                  |                                     |
|        |                          |                                   |   |                  |                                     |
|        |                          |                                   |   |                  |                                     |

**Note:**

*Plant / machineries which are proposed to be procured shall have to be procured at the earliest after award of the work and before the start of the work.*

**STATEMENT NO. 7****METHOD STATEMENT AND WORK PLAN**

The Bidder shall have to provide a brief write up to be enclosed with the "Technical Bids" covering his approach and methodology to handle the project construction activities including his details work plan. The brief shall include the following aspects.

| Sr. No. | Components  |  |
|---------|---|--|
| 1.      | Methodology   |  |
| 2.      | Construction equipment availability and plan of deployment. |  |
| 3.      | PERT / Construction chart / Bar chart.                      |  |

## Application Form(1) General Information

*All individual firms and each partner of a consortium applying for qualification are requested to complete the information in this form. Nationality information to be provided for all owners or applicants who are partnerships or individually-owned firms.*

*Where the Applicant proposes to use named subcontractors for critical components of the works, or for work contents in excess of 10 percent of the value of the whole works the following information should also be supplied for the specialist subcontractor(s).*

|    |                                     |  |
|----|-------------------------------------|--|
| 1. | Name of Firm                        |  |
| 2. | Head office address                 |  |
| 3. | Telephone                           | Contact                                |
| 4. | Fax                                 | Telex                                  |
| 5. | Place of incorporation/registration | Year of incorporation/<br>registration |

|    | Nationality of owners |             |
|----|-----------------------|-------------|
|    | Name                  | Nationality |
| 1. |                       |             |
| 2. |                       |             |
| 3. |                       |             |
| 4. |                       |             |
| 5. |                       |             |



| Name of Bidders officers / Persons to be contacted |         |            |      |
|--|---------|------------|------|
| Name.  | Address | Phone Nos. | Fax. |
|  |         |            |      |
|  |         |            |      |
|  |         |            |      |
|  |         |            |      |
|  |         |            |      |

## Application Form (1A)

### Structure and Organization

|   |  |
|---|--|
| <p>The applicant is<br/> an individual<br/> a proprietary firm<br/> a firm in partnership<br/> a Limited Company or Corporation<br/> a group of firms/consortium (if Yes, give completion information in respect of each partner)</p>                     |  |
| <p>Attach the Organization Chart showing the structure of the organization including the names of the Directors and position of officers</p>  |  |
| <p>Number of years of experience :<br/> as a Prime Contractor (contractor shouldering major responsibility in own country<br/> other countries (specify country)</p>  |  |
| <p>in a consortium<br/> in own country<br/> other countries (Specify country)</p>   |  |
| <p>as a sub-contractor (specify main contractor)<br/> in own country<br/> other countries (Specify country)</p>   |  |
| <p>4. Name and address of any associates the applicant has in India (in case the applicant happens to be from foreign country) who are knowledgeable in the procedures of customs, immigration, taxes and other information necessary to do the work.</p> |  |
| <p>For how many years has your organization been in business of similar work under its present name? What were your fields when your organization was established? Whether any new fields were added in your organization? And if so, when?</p>           |  |
|   |  |

|   |  |
|---|--|
| <p>5. Were you ever required to suspend construction for a period of more than six months continuously after you started? If so, give the name of project and give reasons thereof.</p> |  |
| <p>6. Have you ever left the work awarded to you incomplete? If so, give name of project and reasons for not completing work.</p>   |  |
| <p>In which fields of civil engineering construction do you claim specialization and interest?</p>  |  |
| <p>Give details of your experience in mechanized cement concrete lining and in modern concrete technology for manufacture and quality control.</p>                                      |  |
| <p>Give details of your experience in using heavy earth moving equipment and quality control in compaction of soils.</p>  |  |
| <p>Give details of your experience in Underground Drainage work in rocky area.</p>  |  |
| <p>Give details of civil work for drainage pumping station</p>  |  |
| <p>Give details for construction of sewerage treatment plant</p>  |  |
| <p>Give details for pumping machinery in drainage pumping station</p>   |  |

# **GENERAL CONDITIONS OF CONTRACT**

**:: TABLE OF CONTESTS ::**

| <b>No.</b> | <b>Description</b>  |
|------------|---|
| GC-1       | Definitions and Interpretations                                     |
| GC-2       | Location of site and accessibility                                  |
| GC-3       | Scope of work   |
| GC-4       | Ruling language   |
| GC-5       | Interpretation of Contract Document                                 |
| GC-6       | Contractor to understand himself fully                              |
| GC-7       | Errors in submissions   |
| GC-8       | Sufficiency of E-TENDER   |
| GC-9       | Discrepancies   |
| GC-10      | Performance Guarantee (Security Deposit)                            |
| GC-11      | Inspection of work  |
| GC-12      | Defect Liability  |
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GC-01

**DEFINITIONS AND INTERPRETATIONS :**

- 1.0 In the contract (as hereinafter defined) the following words and expressions shall, unless repugnant to the subject or context thereof, have the following means as signed to them.
- 1.1 The "Owner / Corporation" shall mean Rajkot Municipal Corporation and shall include its Municipal Commissioner or other Officers authorized by the Corporation and also include owner's successors and assignees.
- 1.2 The "Contractor" shall mean the person or the persons, firm or Company whose e-Tender has been accepted by the Owner and includes the Contractor's legal representative, his successors and permitted assignees.
- 1.3 **DELETED**
- 1.4 The "Engineer-In-Charge" shall mean the person designated as such by the owner from time to time and shall include those who are expressly authorized by the Corporation to act for and on its behalf for all functions pertaining to the operation of this contract.
- 1.5 Engineer-In-Charge's Representative shall mean any resident Engineer or Assistant to the Engineer-In-Charge appointed from time to time by the owner to perform duties set forth in the E-TENDER Document whose authority shall be notified in writing to the Contractor by the Engineer-In-Charge.
- 1.6 "E-TENDER" – the offer or proposal of the Bidder submitted in the prescribed form setting for the prices for the work to be performed, and the details thereof.
- 1.7 "Contract Price" shall mean total money payable to the Contractor under the contract. (This includes estimated amount as well as GST and Contractor's premium)
- 1.8 "Addenda" shall mean the written or graphic notices issued prior to submission of e-Tender which modify or interpret the contract documents.
- 1.9 "Contract Time" – the time specified for the completion of work.
- 1.10 "Contract" shall mean agreement between the parties for the execution of works including therein all contract documents.
- 1.11 "Contract Document" shall mean collectively the e-Tender documents, designs, drawings, specifications, agreed variations, if any and such other documents constituting the e-Tender and acceptance thereof.
- 1.12 "The Sub-Contractor" shall mean any person, firm or company (other than the Contractor) to whom any part of the work has been entrusted by the Contractor with the written consent of the Engineer-In-Charge and the legal representative successors and permitted assignee of such person, firm or company.
- 1.13 The "Specifications" shall mean all directions, the various Technical Specifications, provisions and requirements attached to the contract which pertain to the method and manner of performing the work, to the quantities and qualities of the work and the materials to be furnished under the contract for the work and any order(s) or instruction(s) there under. It shall also mean the latest Indian Standard Institute Specification

relative to the particular work or part thereof, so far as they are not contrary to the E-TENDER specifications and in absence of any other Country applied in Indian as a matter of standard engineering practice and approved in writing by the Engineer-In-Charge with or without modification.

- 1.14 The "Drawings" shall include maps, plans, tracings, or prints thereof with any modification approved in writing by the Engineer-In-Charge and as such other drawings as may, from time to time, be furnished or approved in writing by the Engineer-In-Charge in connection with the work.
- 1.15 The "Work" shall mean the works to be executed in accordance with the contract or the part thereof as the case may be and shall include extra, additional, altered or substituted works as required for the purpose of the contract. It shall mean the totality of the work by expression or implication envisaged in the contract and shall include all materials, equipment and labour required for or relative or incidental to or in connection with the commencement, performance and completion of any work and / or incorporation in the work.
- 1.16 The "Permanent Work" shall mean works which will be incorporated in and form part of the work to be handed over to the owner by the Contractor on completion of the contract.
- 1.17 The "Temporary Work" shall mean all temporary works of every kind required in or about the execution, completion and maintenance of the work.
- 1.18 "Site" shall mean the land and other places, on, under, in or through which the permanent works are to be carried out and any other lands or places provided by the Corporation for the purpose of the contract together with any other places designated in the contract as forming part of the site.
- 1.19 The "Construction Equipment" shall mean all appliances / equipment of whatever nature required in or for execution, completion or maintenance of works or temporary works (as herein before defined) but does not include materials or other things intended to form or forming part of the permanent work.
- 1.20 **"Notice in writing or written Notice"** shall mean a notice written, typed or in printed form delivered personally **OR** sent by Registered Post to the last known private or business address or Registered Office of the Contractor **OR** through e-mail **OR** mobile message shall be deemed to have been received in the ordinary course of post it would have been delivered.
- 1.21 The "Alteration / variation order" shall mean an order given in writing by the Engineer-In-Charge to effect additions or deletions from or alterations in the work.
- 1.22 "Final Test Certificate" shall mean the final test certificate issued by the owner within the provisions of the contract.
- 1.23 The "Completion Certificate" shall mean the certificate to be issued by the Engineer-In-Charge when the work has been completed and tested to his satisfaction.



- 1.24 The "Final Certificate" shall mean the final certificate issued by the Engineer-In-Charge after the period of defects liability is over and the work is finally accepted by the owner.
- 1.25 "Defects Liability Period" shall mean the specified period between the issue of Completion Certificate and the issue of final certificate during which the Contractor is responsible for rectifying all defects that may appear in the works.
- 1.26 "Approved" shall mean approved in writing including subsequent confirmation in writing of previous verbal approval and "Approval" means approved in writing including as aforesaid.
- 1.27 "Letter of Acceptance" shall mean an intimation by a letter to Bidder that his e-Tender has been accepted in accordance with the provisions contained therein.
- 1.28 "Order" and "Instructions" shall respectively mean any written order or instruction given by the Engineer-In-Charge within the scope of his powers in terms of the contract.
- 1.29 "Running Account Bill" shall mean a bill for the payment of "On Account" money to the Contractor during the progress of work on the basis of work done and the supply of non-perishable materials to be incorporated in the work.
- 1.30 "Security Deposit" shall mean the deposit to be held by the owner as security for the due performance of the contractual obligations.
- 1.31 The "Appointing Authority" for the purpose of Arbitration shall be the Municipal Commissioner, Rajkot Municipal Corporation.
- 1.32. "Retention Money" shall mean the money retained from R.A.Bills for the due completion of the "LET WORKS".
- 1.33 Unless otherwise specifically stated, the masculine gender shall include the feminine and neuter genders and vice-versa and the singular shall include the plural and vice-versa.

**GC-02 LOCATION OF SITE AND ACCESSIBILITY :**

The intending bidders should inspect the site & make thyself familiar with site conditions and available communication facilities.

Non-availability of access roads shall in no case be the cause to condone delay in the execution of the work and no claim or extra compensation will be paid.

**GC-03 SCOPE OF WORK :**

The scope of work is defined broadly in the special conditions of contract and specifications. The Contractor shall provide all necessary materials, equipment and labour etc. for the execution and maintenance of the work. All material that go with the work shall be approved by the Engineer-In-Charge prior to procurement and use.

**Power Supply :**

The Contractor shall make his own arrangement for power supply during installation.

**Land for Contractor's Field Office, Godown Etc.:**

Owner will not be in a position to provide land required for Contractor's field office, godown, etc. The Contractor shall have to make his own arrangement for the same.

GC-04

**RULING LANGUAGE :**

The language according to which the contract shall be construed and interpreted shall be English. All entries in the contract document and all correspondence between the contractor and the Corporation or the Engineer-In-Charge shall be in English/Gujarati. All dimensions for the materials shall be given in metric units only.

GC-05

**INTERPRETATION OF CONTRACT DOCUMENT :**

1. The provision of the General Conditions of Contract and Special Conditions of Contract shall prevail over those of any other documents of the contract unless specifically provided otherwise, should have there be any discrepancy, inconsistency, error or omission in the several documents forming the contract, the matter may be referred to the Engineer-In-Charge for his instructions and decision. The Engineer-In-Charge's decision in such case shall be final and binding to the Contractor.
2. Works shown upon the drawings but not described in the specifications or described in the specifications without showing on the drawings shall be taken as described in the specifications and shown on the drawings.
3. The headings and the marginal notes to the clause of these General Conditions of Contract or to the specifications or to any other part of e-Tender documents are solely for the purpose of giving a concise indication and not a summary of contents thereof. They shall never be deemed to be part thereof or be used in the interpretation or construction of the contract.
4. Unless otherwise states specifically, in this contract documents the singular shall include the plural and vice-versa wherever the context so requires. Works imparting persons shall include relevant Corporations / Body of individual / firm of partnership.
5. Notwithstanding the sub-division of the documents into separate section and volumes every part of each shall be supplementary to and complementary of every other part and shall be read with and into the context so far as it may be practicable to do so.
6. Where any portion of the General Conditions of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, then, unless a different intention appears, the provisions of the special conditions of contract shall be deemed to over ride the provisions of General Conditions of Contract to the extent of each repugnancy of variance.
7. The materials, design, and workmanship shall satisfy the relevant IS, and codes referred to. If additional requirements are shown in the specifications, the same shall be satisfied over and above IS and other codes.

8. If the specifications mention that the Contractor shall perform certain work or provide certain facilities, it shall mean that the Contractor shall do so at his own cost.

9. **Contractor to Collect His Own Information -**

The details given in the e-Tender are arranged making necessary investigations for framing an estimate. However, when the work is being executed, changes in soil conditions are likely to be met with in view of the formation of soil, strata in Rajkot District. It is, therefore, desirable that the Contractor makes his own investigations or additional investigations as may be required for correctly assessing the cost of different items of work and submit his e-Tender accordingly. Any change in description or quantity of an item shall not vitiate the contract or release the Contractor from executing the work comprised in the contract according to the drawings and specifications at the e-Tendered rates.

He is deemed to have know the scope, nature and magnitude of the work and the requirements of materials and labour involved and as to whatever work he has to complete in accordance with the contract. The Contractor is expected to visit the site and surroundings to satisfy himself as to the nature of all existing structures, if any, and also as to the nature and the conditions of railways, roads, bridges and culverts, means of transport and communications whether by land, air or water and as to possible interruptions thereto and the access and gross from the site, to have examined and satisfied himself as to the sites for obtaining sand, stones, bricks and other materials, the site for disposal of surplus materials, the available accommodation and make such enquiries as may be necessary for executing and completing the work, to have local enquiries as to the sub-soil, subsoil water and variation thereof, storms, prevailing winds, climatic conditions and all other similar matters, effecting work. He is expected to be familiar with his liability for payment of Government taxes, customs and excise duty and other charges etc. in contract with the execution of this contract.

GC-06 **CONTRACTOR TO UNDERSTAND HIMSELF FULLY :**

The Contractor by e-Tendering shall be deemed to have satisfied himself, as to all considerations and circumstances affecting the e-Tender price, as to the possibility of executing the works as shown and described in the contract and to have fixed his prices according to his own view on these matters and to have understood that no additional allowances except as otherwise expressly provided, will afterwards be made beyond the contract price. The Contractor shall be responsible for any misunderstanding or incorrect information, however, obtained.

GC-07 **ERRORS IN SUBMISSIONS :**

The Contractor shall be responsible for any errors or omissions in the particulars supplied by him, whether such particulars have been approved by the Engineer-In-Charge or not.

GC-08 **SUFFICIENCY OF e-TENDER :**

The Contractor shall be deemed to have satisfied himself before e-Tendering as to the correctness of the e-Tender rates which rates shall, except as otherwise provides for, cover all the Contractor's liabilities and obligations set forth or implied in the contract for the proper execution of the work for compliance with requirements of Article GC-19 thereof.

GC-09

**DISCREPANCIES :**

The drawings and specifications are to be considered as mutually explanatory of each other, detailed drawings being followed in preference to small-scale drawings and figured dimensions in preference to scale and special conditions in preference to General Conditions. The special directions or dimensions given in the specifications shall supercede all else. Should any discrepancies however, appear or should any misunderstanding arise as to the meaning and intent of the said specifications or drawings, or as to the dimensions or the quality of the materials or the due and proper execution of the works, or as to the measurement or quality and valuation of the work executed under this contract or as extra there upon, the same shall be explained by the Engineer-In-Charge and his explanation shall be subject to the final decision of the Municipal Corporation in case reference be made to it, be binding upon the Contractor and the Contractor shall execute the work according to such explanation and without addition or to deduction from the contract price and shall also do all such works and things necessary for the proper completion of the works as implied by the drawings and specifications, even though such works and things are not specially shown and described in the said specifications. In cases where no particular specifications are given for any article to be used under the contract, the relevant specifications of the Indian Standard Institution shall apply.

GC-10

**PERFORMANCE GUARANTEE (SECURITY DEPOSIT) :**

1.

A sum of 5% of the contract price shall be deposited by the Bidder (hereinafter called the contractor when e-Tender is accepted) as security deposit with the owner for the faithful performance, completion and maintenance of the works in accordance with the contract documents and to the satisfaction of the Engineer-In-Charge and assuring the payment of all obligations arising from the execution of the contract. This shall be deposited in one of the forms mentioned below :

- a. By a Demand Draft on the Rajkot Branch of any Scheduled Bank except co-operative bank.
- b. A Fixed Deposit Receipt of a Schedule Bank duly endorsed in favour of the "RAJKOT MUNICIPAL CORPORATION", Rajkot.
- c. The Contractor may pay 2.5% of the value of works as initial security deposit and the balance 2.5% shall be recovered in installments through deductions at the rate of 10 (ten) percent of the value of each Running Account Bill till the total security execution exceeds the accepted value of e-Tender because of allotment of further work, further recoveries towards security deposit shall be effected at 10% of the R A Bills to make up the five percent security deposit of the revised value of contract. Alternatively, the Contractor may at his option deposit the full amount of 5 percent of security deposit within ten days of receipt by him of the notification accepting the e-Tender in the form as aforesaid. **PERFORMANCE GUARANTEE (SECURITY DEPOSIT) WILL BE RELEASED TO THE CONTRACTOR WITHOUT ANY INTEREST AFTER DEFECT LIABILITY PERIOD IS OVER.**

2.

If the Contractor, sub-contractor or their employees shall break, deface or destroy any property belonging to the owner or other agency during the execution of the contract, the same shall be made good by the contractor at his own expense and in default thereof, the Engineer-In-Charge may cause the same to be made good by other agencies and recover expense

from the Contractor (for which the certificate of the Engineer-In-Charge shall be final). These expenses can be recovered from the security deposit if recovery from other sources is not possible. The amount as reduced in security deposit will be made good by deduction from the next R A Bill of the Contractor.

**GC-11**

**INSPECTION OF WORK :**

1. The Engineer-In-Charge shall have full power and authority to inspect the work at any time wherever in progress either on the site or at the Contractor's or any other manufacturer's workshop or factories wherever situated and the Contractor shall afford to Engineer-In-Charge every facility and assistance to carry out such inspection, Contractor or his authorized representative shall, at all time during the usual working hours and all times when so notified, remain present to receive orders and instructions.

Orders given to Contractor's representative shall be considered to have the same force as if they had been given to the Contractor himself. Contractor shall give not less than ten (10) days notice in writing to the Engineer-In-Charge before covering up or otherwise placing beyond reach of inspection and measurement any work in order that the same may be inspected and measured. In the event of breach of the above, the same shall be uncovered at Contractor's expenses for carrying out such inspection or measurement.

2. The material shall be dispatched from Contractor's store on site of work before obtaining approval in writing of the Engineer-In-Charge. Contractor shall provide at all times during the progress of work and maintenance period of proper means of access with ladders, gangways, etc. and make necessary arrangement as directed for inspection or measurement of work by Engineer-In-Charge.

**GC-12**

**DEFECT LIABILITY :**

1. Contractor shall guarantee the work for a period of 24 Months. Any damage or defect that may arise or that may remain undiscovered at the time of issue of Completion Certificate connected in any way with the equipment or materials supplied by him or in the workmanship shall be rectified or replaced by Contractor at his own expense as desired by Engineer-In-Charge or in default Engineer-In-Charge may cause the same to be made good by other agency and deduct expenses of which the certificate of Engineer-In-Charge shall be final from any sums that may then or any time thereafter become due to Contractor or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof.
2. From the commencement to completion of work Contractor shall take full responsibility for the care of the work including all temporary works and in case any damages, occur from any cause whatsoever he shall at his own cost, repair and make good the same so that on completion, work shall be in good order and in conformity, in every respect, with the requirements of contract and as per the instructions of the Engineer-In-Charge.
3. If at any time before the work is taken over, the Engineer-In-Charge -
  - a) Decide that any work done or materials used by the Contractor are defective or not in accordance with the contract or that work or any portion thereof is defective or do not fulfill the requirements of contract (all such materials being herein after called defects in this clause) he shall,

as soon as reasonably practicably, give notice to Contractor in writing of the said defect specifying particulars of the same then Contractor shall at his own expense and with all speed make good the defects so specified.

- b) In case Contractor fails to do so, owner may take, at the cost of the Contractor, such stops as may in all circumstances be responsible to make good such defects. The expenditure so incurred by owner will be recovered from the amount due to Contractor. The decision of Engineer-In-Charge with regard to the amount to be recovered from Contractor will be final and binding on the Contractor.

**GC-13      POWER OF ENGINEER-IN-CHARGE TO GIVE FURTHER INSTRUCTIONS:**

The Engineer-In-Charge shall have the power and authority from time to time and at all times to give further instructions and directions as may appear to him necessary or proper for the guidance of the Contractor and the works and efficient execution of the works according to the terms of the specifications, and the Contractor shall receive, execute, obey and be bound by the same, according to the true intent and meaning thereof, as fully and effectively as though the same had accompanied or had been mentioned or referred to in the specifications. No work which radically changes the original nature of the contract shall be ordered by the Engineer-In-Charge and in the event of any deviation being ordered, which in the opinion of the Contractor changes the original nature of the contract, he shall nevertheless carry it out and any disagreement as to the nature of the work and the rate to be paid to thereof shall be resolved.

The time of completion of works shall, in the event of any deviations being ordered resulting in additional cost or reduction in cost over the contract sum, be extended or reduced reasonably by the Engineer-In-Charge. The Engineer-In-Charge's decision in the case shall be final and binding.

**GC-14      PROGRAMME :**

The time allowed for execution of works shall be the essence of the contract. The contract period shall commence from the date of notice of intimation to proceed. The Bidder at the time of submitting his e-Tender shall indicate in the construction schedule his programme of execution of work commencement with the total time specified. The Contractor shall provide the Engineer-In-Charge a detailed programme of time schedule for execution of the works in accordance with the specifications and the completion date. The entire programme to be finalized by the Contractor, has to conform to the execution period mentioned along with the Bill of Quantities in the e-Tender documents. The Engineer-In-Charge upon scrutiny of such submitted programme by Contractor, shall examine suitability of it to the requirement of contract and suggest modifications, if found necessary.

**GC-15      SUB-LETTING OF WORK :**

No part of the contract nor any share of interest thereon shall in any manner or degree be transferred, assigned or sublet by the Contractor directly or indirectly to any person, firm or Corporation whatsoever except as provided for in the succeeding sub-clause, without the consent in writing of the owner.

**GC-16      SUB-CONTRACTS FOR TEMPORARY WORKS ETC. :**

The owner may give written consent to sub-contractors for execution of any part of the works at the site, being entered upon the contractor provided each individual contract is submitted to the Engineer-In-Charge before being entered into and is approved by him. List of sub-contractors to be supplied.

Notwithstanding any subletting with such approval as aforesaid and notwithstanding the Engineer-In-Charge shall have received of any sub-contractors, the Contractor shall be and shall remain solely responsible for the quality and proper and expeditious execution of the works and the performance of all the conditions of contract in all respects as if such subletting or subcontracting had not taken place and as if such works had been done directly by the Contractor.

**GC-17**      **TIME FOR COMPLETION :**

1. The work covered under this contract shall be commenced from the date the Contractor is served with a notice to proceed with the work and shall be completed before the date as mentioned in the time schedule of work. The time is the essence of the contract and unless the same is extended as mentioned in Clause GC-18 "Extension of Time", the Contractor shall pay liquidated damages for the delay.
2. The general time schedule for construction is given in the e-Tender document. Contractor shall prepare a detailed weekly or monthly construction programme in consultation with the Engineer-In-Charge soon after the agreement and the work shall be strictly executed accordingly. The time for construction includes, the time required for testing, rectifications, if any, retesting and completion of the work in all respects to the entire satisfaction of the Engineer-In-Charge except the items which are not coming in the way to commission the project.
3. ~~Monsoon period from 1st July to 30th September shall be considered as non working period hence excluded in time limit.~~

**GC-18**      **EXTENSION OF TIME :**

Time shall be considered as the essence of the contract. If, however, the failure of the Contractor to complete the work as per the stipulated dates referred to above arises from delays on the part of Corporation in supplying the materials or equipment, it has undertaken to supply under the contract or from delays on the quantity of work to be done under the contract, or force majeure an appropriate extension of time will be given by the Corporation. The Contractor shall request for such extension within one month of the cause of such delay and in any case before expiry of the contract period.

**GC-19**      **CONTRACT AGREEMENT :**

The successful Bidder shall enter into and execute the contract agreement within 10 (ten) days of the notice of award, in the form shown in e-Tender documents with such modifications as may be necessary in the opinion of the Corporation. It shall be incumbent on the Contractor to pay the stamp duty and the legal charges for the preparation of the contract agreement.

**GC-20**      **LIQUIDATED DAMAGES :**

If the Contractor fails to complete the work or designated part thereof within the stipulated completion date for the work or for the part, he shall pay liquidated damages at 0.1 (zero point one) percent of contract value

for per day of delay subject to maximum of 10% of the contract value or as decided by Municipal Commissioner.

The Contractor shall complete one-sixth quantum of work within one fourth period, four-tenth quantum of work within one-half period and eight-tenth quantum of work within three-fourth period, failing which, the Contractor shall be liable to pay liquidated damages an amount as specified above, or as decided by Municipal Commissioner.

The amount of liquidated damages shall, however, be subjected to a maximum of 10 percent of the contract value.

GC-21

**FORFEITURE OF SECURITY DEPOSIT :**

Whenever any claim against the Contractor for the payment of a sum of money out of or under the contract arises, the Corporation shall be entitled to recover such sum by appropriating in part or whole, the security deposit of the Contractor. In case the security deposit is insufficient, the balance recoverable shall be deducted from any sum then due or which at any time thereafter may become due to the Contractor. The Contractor shall pay to the owner on demand any balance remaining due.

GC-22

**ACTION OF FORFEITURE OF SECURITY DEPOSIT :**

In any case in which under any Clause or Clauses of the contract, the Contractor shall committed a breach of any of the terms contained in this contract, the owner shall have power to adopt any of the following courses as he may deem best suited to his interest.

- a) To rescind the contract (of which recession notice in writing to the contractor under the hand of the owner shall be conclusive evidence) in which case the security deposit of the Contractor shall stand forfeited and be absolutely at the disposal of the owner.
- b) To employ labour and to supply materials to carry out the balance work debiting Contractor with the cost of labour employed and the cost of materials supplied for which a certificate of the Engineer-In-Charge shall be final and conclusive against the Contractor and 10% of costs on above to cover all departmental charges and crediting him with the value of work done at the same rates as if it has been carried out by the Contractor under the terms of his contract. The certificate of Engineer-In-Charge as to the value of the work done shall be final and conclusive against the Contractor.
- c) To measure up the work of the contractor and to take such part thereof as shall be unexecuted out of his hand and give it to another Contractor to complete, the same. in this case the excess expenditure incurred than what would have been paid to the original Contractor, if the whole work had been executed by him, shall be borne and paid by the original Contractor and shall be deducted from any money due to him by the owner under the contract or otherwise and for the excess expenditure, the certificate of the Engineer-In-Charge shall be final and conclusive.

In the event any of the above courses being adopted by the owner, the Contractor shall have no claims for compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any agreements or made any advance on account of or with a view to the execution of the work or the performance of the contract.



In purchase the Contractor shall not be entitled to recover or be paid any sum for any work actually performed under this contract unless the Engineer-In-Charge will certify in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

In the event of the owner putting in force the powers as stated in a, b, c, above vested in him under the proceeding clause, he may, if he so desires, take possession of all or any tools and plant, materials and stores in or upon the works or the site thereof belonging to the Contractor, or procured by him and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates to be certified by the Engineer-In-Charge. The Engineer-In-Charge may give notice in writing to the Contractor or his representative requiring him to remove such tools, plant, materials or stores from the premises within the time specified in the notice and in the event of the Contractor failing to comply with any such notice, the Engineer-In-Charge may remove them at the Contractor's expenses or sell them by auction or private sale on account of the Contractor and his risks in all respects without any further notice as to the date, time or place of the sale and the certificate of Engineer-In-Charge as to the expense of any such removal and the amount of the proceeds and the expenses of any such sale shall be final and conclusive against the Contractor.

GC-23

**COMPENSATION FOR ALTERATION IN OR RESTRICTION IN WORK :**

If at any time from the commencement of the work, the owner shall for any reasons whatsoever not require the whole work or part thereof as specified in the e-Tender to be carried out, the Engineer-In-Charge shall give notice in writing of the fact to the Contractor, who shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of full amount of the work not having been carried out. He also shall not have any claim for compensation by reasons of any alterations having been made in original specifications, drawings, designs and instructions which shall involve any curtailment of the work as originally contemplated.

When the Contractor is a partnership firm, the prior approval in writing of the owner shall be obtained before any change is made in the Constitution of the firm. Where the Contractor is an individual or a Hindu Undivided Family or business concern, such approval as aforesaid shall, likewise be obtained before Contractor enters into an agreement with other parties where under, the reconstituted firm would have the right to carry out the work hereby undertaken by the Contractor. In either case, if prior approval as aforesaid is not obtained, the contract shall be deemed to have been allotted contravention of subletting clause hereof and the same action may be taken and the same consequence shall ensure as provided in the subletting clause.

GC-24

**IN THE EVENT OF DEATH OF THE CONTRACTOR :**

Without prejudice to any of the rights or remedies under the contract, if the Contractor dies, the owner shall have the option of terminating the contract without compensation to the Contractor.

- GC-25      **MEMBERS OF THE OWNER NOT INDIVIDUALLY LIABLE :**  
No official or employee of the owner shall in any way be personally bound or liable for the acts or obligation of the owner under the contract, or answerable for any default or omission in the observance or performance of any acts, matters or things, which are herein, contained.
- GC-26      **OWNER NOT BOUND BY PERSONAL REPRESENTATIONS :**  
The Contractor shall not be entitled to any increase on the schedule of rates or any other rights or claims whatsoever by reason of representation, promise or guarantees given or alleged to have been given to him by any person.
- GC-27      **CONTRACTOR'S OFFICE AT SITE :**  
The Contractor shall provide and maintain an office at the site for the accommodation of his agent and staff and such office shall remain open at all reasonable hours to receive information, notices or other communications.
- GC-28      **CONTRACTOR'S SUBORDINATE STAFF AND THEIR CONDUCT :**
1.            The Contractor on award of the work shall name and depute a qualified Engineer having experience of carrying out work of similar nature, whom equipments, materials, if any, shall be issued and instructions for work given. the Contractor shall also provide to the satisfaction of Engineer-In-Charge sufficient and qualified staff, competent sub-agents, foreman and loading hands including those specially qualified by previous experience to supervise the type of works comprised in the contract in such manner as will ensure work of the best quality and expeditious working. If, in the opinion of the Engineer-In-Charge additional properly qualified supervision staff is considered necessary, it shall be employed by the Contractor, without additional charge on account thereof. The Contractor shall ensure to the satisfaction of the Engineer-In-Charge that sub-contractors, if any, shall provide competent and efficient supervision over the work entrusted to them.
  2.            If and whenever any of the Contractor's or sub-contractor's agents, sub-agents, assistants, foreman or other employees shall, in the opinion of the Engineer-In-Charge, be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties or that in the opinion of the owner or Engineer-In-Charge, it is undesirable for administrative or any other reason for person or persons to be employed in the works, the Contractor if so directed by the Engineer-In-Charge, shall at once remove such person or persons from employment thereon. Any person or persons so removed shall not again be re-employed in connection with the works without the written permission of the Engineer-In-Charge. Any person, so removed from the works shall be immediately replaced at the expense of the Contractor by a qualified and competent substitute. Should the Contractor be required to repatriate any person removed from the works he shall do so after approval of Engineer-In-Charge and shall bear all costs in connection therewith.
  3.            The Contractor shall be responsible for the proper behavior of all the staff, foreman, workmen and others and shall exercise proper control over them and in particular and without prejudice to the said generality, the Contractor shall be bound to prohibit and prevent any employee from trespassing or acting in any way detrimental or prejudicial to the interest of the community or of the properties or occupiers of land and properties

in the neighborhood and in the event of such employees so trespassing, the Contractor shall be responsible therefore and relieve the owner of all consequent claims, actions for damages or injury or any other ground whatsoever. The decision of the Engineer-In-Charge upon any matter arising under this claim shall be final.

4. If and when required by the owner, the Contractor's personnel entering upon the owner's premises shall be properly identified by badges of a type acceptable to the owner which must be worn at all times on owner's premises.

**GC-29 TERMINATION OF SUB-CONTRACT BY OWNER :**

If any sub-contractor engaged upon the works at the site execute any work which in the opinion of Engineer-In-Charge is not accordance with the contract documents, the owner may by written notice to the Contractor request him to terminate such sub-contract and the Contractor upon the receipt of such notice shall terminate such sub-contracts and the latter shall forthwith leave the works, failing which, the owner shall have the right to remove such sub-contractors from the site.

No action taken by the owner under the above clause shall relieve the Contractor of his liabilities under the contract or give rise to any right to compensation, extension of time or otherwise.

**GC-30 POWER OF ENTRY :**

If the Contractor shall not commence the work in the manner previously described in the contract documents or if he shall at any time, in the opinion of Engineer-In-Charge –

- i) Fail to carry out works in conformity with the contract documents, or
- ii) Fail to carry out the works in accordance with the time schedule, or
- iii) Substantially suspend work or the works for a period of seven days without authority from Engineer-In-Charge, or
- iv) Fail to carry out and execute the work to the satisfaction of the Engineer-In-Charge, or
- v) Fail to supply sufficient or suitable construction plant, temporary works, labour, materials or things, or
- vi) Commit breach of any other provisions of the contract on his part to be performed or observed or persists in any of the above mentioned breaches of the contract for seven days after notice in writing shall have been given to the Contractor by the Engineer-In-Charge requiring such breach to be remedied, or
- vii) Abandon the work, or
- viii) During the continuance of the contract becomes bankrupt, make any arrangement or compromise with his creditors, or permit any execution to be levied or go into liquidation whether compulsory or voluntary not being merely a voluntary liquidation for the purpose of amalgamation or reconstruction then in any such case.

The owner shall have the power to enter upon the works and take possession thereof and of the materials, temporary works, constructional plant and stores therein and to revoke the Contractor's license to use the same and to complete the works by his agents, other Contractor or workmen, to relate the same upon any terms to such other person firm or Corporation as the owner in his absolute discretion may think proper to employ, and for the purpose aforesaid to use or authorize the use of any materials, temporary works, constructional plant, and stores as aforesaid

with making payments or allowance to the Contractor for the said materials other than such as may be certified in writing by the Engineer-In-Charge to be reasonable and without making any payment or allowance to the Contractor for the use of said temporary works, constructional plant and stock or being liable for loss or damage thereto. If the owner shall be reason of his taking possession of the works or of the work being got completed by other Contractor incurred excess expenditure be deducted from any money which may be due for the work done by the Contractor under the contract and not paid for. Any deficiency shall forthwith be made good and paid to the owner by the Contractor and the owner shall have power to sell in such manner and for such price as he may think fit all or any of the constructional plant, materials etc., consist constructed by or belonging to and to recoup and retain the said deficiency or any part thereof out of the proceeds of the sale.

**GC-31 CONTRACTOR'S RESPONSIBILITY WITH THE OTHER CONTRACTOR AND AGENCIES :**

Without repugnance to any other conditions, it shall be the responsibility of the Contractor executing the work, to work in close co-operation and co-ordination with other Contractors or their authorized representatives and the Contractor will put a joint scheme with the concurrence of other contractors or their authorized representatives showing the arrangements for carrying his portion of the work to the Engineer-In-Charge and get the approval. The Engineer-In-Charge before approving the joint scheme will call the parties concerned and modify the scheme if required. No claim will be entertained on account of the above. The Contractor shall conform in all respects with the provisions of any statutory regulations, ordinances or bylaws of any local or duly constituted authorities or public bodies which may be applicable from time to time to works or any temporary works. The Contractor s shall keep the owner indemnified against all penalties and liabilities of every kind arising out of non-adherence to such statutes, ordinance, laws, rules, regulations etc.

**GC-32 OTHER AGENCIES AT SITE :**

The Contractor shall have to execute the work in such place and condition where other agencies will also be engaged for other works, such as site grading, filling and leveling, electrical and mechanical engineering works etc. No claim shall be entertained for works being executed in the above circumstances.

**GC-33 NOTICES :**

Any notice under this contract may be served on the Contractor or his duly authorized representative at the job site or may be served by Registered Post direct to the official address of the Contractor. Proof of issue of any such notice could be conclusive of the Contractor having been duly informed of all contents therein.

**GC-34 RIGHTS OF VARIOUS INTERESTS :**

The owner reserves the right to distribute the work between more than one Contractor. Contractor shall co-operate and afford reasonable opportunity to other Contractor s for access to the works, for the carriage and storage of materials and execution of their works. Whenever the work being done by department of the owner or by other Contractor employed by the owner is contingent upon work covered by this contract, the respective rights of the various interests shall be determined by the Engineer-In-Charge to secure the completion of various portions of the work in general harmony.

- GC-35      **PRICE ADJUSTMENTS :**  
No adjustment in price shall be allowed and no price escalation will be allowed.
- GC-36      **TERMS OF PAYMENT :**  
The payment of bills shall be made progressively according to the rules and practices followed by the Corporation. The progressive payment unless otherwise provided in the contract agreement or subsequently agreed to by the parties shall be made generally monthly on submission of a bill by the Contractor in prescribed form of an amount according to the value of the work performed less the price of materials supplied by owner aggregate of previous progressive payments and as required by Clause GC-37 (Retention of Money) herein. All such progressive payments shall be regarded as payments by way of advance against final payment. Payment for the work done by the Contractor will be based on the measurement at various stages of the work, in accordance with the condition at clause GC-81 (measurement of work in progress).
- GC-37      **RETENTION MONEY :**  
Pursuance to clause GC-36 (Terms of Payment) any on at money due to the Contractor for work done, Corporation will hold as Retention money five (5) percent of the value of work. The retention money will not normally be due for payment until the completion of the entire work and till such period the work has been finally accepted by the Corporation and a completion certificate issued by the Corporation in pursuant to Clause-GC 79 (Completion Certificate).
- GC-38      **PAYMENTS DUE FROM THE CONTRACTOR :**  
All costs, damages or expenses, for which under the contract, Contractor is liable to the Corporation, may be deducted by the Corporation from any money due or becoming due to the Contractor under the contract or from any other contract with the Corporation or may be recovered by action at law or otherwise from the Contractor.
- GC-39      **CONTINGENT FEE :**
- i)      The Contractor warrants that he has not employed a person to solicit or secure the contract upon any agreement for a commission, percentage, and brokerage contingent fee. Breach of this warranty shall give the Corporation the right to cancel the contract or to take any drastic measure as the Corporation may deem fit. The warranty does not apply to commissions payable by the Contractor to establish commercial or selling agent for the purpose of securing business.
  - ii)      No officer, employer or agent of the Corporation shall be admitted to any share or part of this contract or to any benefit that may rise there from.
- GC-40      **BREACH OF CONTRACT BY CONTRACTOR :**  
If the Contractor fails to perform the work under the contract with due diligence or shall refuse or neglect to comply with instructions given to him in writing by the Engineer-In-Charge in accordance with the contract, or shall contravene the provisions of the contract, the Corporation may give notice in writing to the Contractor to make good such failure, neglect, or contravention. Should the Contractor fail to comply with such written notice within 10 (Ten) days of receipt, it shall be lawful for the Corporation, without prejudice to any other rights the Corporation may have under the contract, to terminate the contract for all or part of the

works, and make any other arrangements it shall deem necessary to complete the work outstanding under the contract at the time of termination. In this event, the performance Bond shall immediately become due and payable to the Corporation. The value of the work done on the date of termination and not paid for shall be kept as deposit for adjustment of excess expenditure incurred in getting the remaining work completed and the Corporation shall have free use of any works which the Contractor may have at the site at the time of termination of the contract.

If Contractor fails to carry out the work in timely manner as mentioned in clause 20 (Liquidated damages), Rajkot Municipal Corporation may give notice in writing to the Contractor to expedite the work, so that the work can be completed as per time schedule. If Contractor fails to expedite the work within 10 days of receipt of notice, Rajkot Municipal Corporation may terminate the contract and debar the Contractor for three years and the remaining work will be executed through other agency at the risk and cost of the Contractor.

**GC-41**

**DEFAULT OF CONTRACTOR :**

- i) The Corporation may upon written notice of default to the Contractor terminate the contract circumstances detailed as under:
  - a) If in the opinion of the Corporation, the Contractor fails to make completion of works within the time specified in the completion schedule or within the period for which extension has been granted by the Corporation to the Contractor.
  - b) If in the opinion of the Corporation, the Contractor fails to comply with any of the other provisions of this contract.
- ii) In the event, the Corporation terminates the contract in whole or in part as provided in Article GC-50 (Termination of the Contract) the Corporation reserves the right to purchase upon such terms and in such manner as it may be deem appropriate, plant similar to one which is not supplied by the Contractor and the Contractor will be liable to the Corporation for any additional costs for such similar plant and / or for liquidated damages for delay until such time as may be required for the final completion of works.
- iii) If this contract is terminated as provided in this paragraph GC-40 AND/OR GC-30 (Power of Entry) (1) the Corporation in addition to any other rights provided in this clause, may require the Contractor to transfer title and deliver to the Corporation.
  - a) Any completed works
  - b) Such partially completed information and contract rights as the Contractor has specifically produced or acquired for the performance of the contract so terminated.
- iv) In the event, the Corporation does not terminate the contract as provided in the paragraph GC-50 (Termination of Contract) the Contractor shall continue performance of the contract, in which case, he shall be liable to the Corporation for liquidated damages for delay until the works are completed and accepted.

**GC-42**

**BANKRUPTCY :**

If the Contractor shall become bankrupt or insolvent or has a receiving order made against him, or compound with his creditors, or being the

Corporation commence to be wound up not being a member voluntary winding up for the purpose of amalgamation or reconstruction, or carry on its business under a receiver for the benefit of his creditors or any of them, the Corporation shall be at liberty to either (a) terminate the contract forthwith by giving notice in writing to the Contractor or to the receiver or liquidator or to any person or Organization in whom the contract may become vested and to act in the manner provided in Article GC-41 (Default of Contractor) as though the last mentioned notice had been the notice referred to in such article or (b) to give such receiver, liquidator or other persons in whom the contract may become vested the option of carrying out the contract subject to his providing a satisfactory guarantee for the due and faithful, performance of the contract up to an amount to be agreed. In the event that the Corporation terminates the contract in accordance with this article, the performance bond shall immediately become due and payable on demand to Corporation.

**GC-43**      **OWNERSHIP :**

Works hand over pursuant to the contract shall become the property of the Corporation from whichever is the earlier of the following times, namely;

- a) When the works are completed pursuant to the contract.
- b) When the contractor has been paid any sum to which he may become entitled in respect thereof pursuant to Clause GC-36 (Terms of Payment).

**GC-44**      **DECLARATION AGAINST WAIVER :**

The condemnation by the Corporation of any breach or breaches by the Contractor or an authorized sub-contractor of any of the stipulations and conditions contained in the contract, shall in no way prejudice or affect or be construed as a waiver of the Corporation's rights, powers and remedies under the contract in respect of any breach or breaches.

**GC-45**      **LAWS GOVERNING THE CONTRACT :**

This contract shall be construed according to and subject to the laws of India and the State of Gujarat and under the jurisdiction of the Courts of Gujarat at Rajkot.

**GC-46**      **OVER PAYMENT AND UNDER PAYMENT :**

Whenever any claim for the payment of a sum to the Corporation arises out of or under this contract against the Contractor, the same may be deducted by the Corporation from any sum then due or which at any time thereafter may become due to the Contractor under this contract and failing that under any other contract with the Corporation (which may be available with the Corporation), or from his retention money or he shall pay the claim on demand. The Corporation reserves the right to carry out post payment audit and technical examinations of the final bill including all supporting vouchers, abstracts etc. The Corporation further reserves the right to enforce recovery of any payment when detected, notwithstanding the fact that the amount of the final bill may be included by one of the parties as an item of dispute before an Arbitrator, appointed under Article GC-49 (Arbitration) of this contract and notwithstanding the fact that the amount of the final bill figures in the arbitration award. If as a result of such audit and technical examinations any over payment is discovered in respect of any work done by the Contractor or alleged to have been done by him under the contract, it shall be recovered by the Corporation from the Contractor as prescribed above. If any under payment is discovered by the Corporation, the amount due to the Contractor under this contract,

may be adjusted against any amount then due or which may at any time thereafter become due before payment is made to the Contractor.

**GC-47 SETTLEMENT OF DISPUTES :**

Except as otherwise specifically provided in the contract, all disputes concerning questions of fact arising under the contract shall be decided by the Engineer-In-Charge subject to a written appeal by the Contractor to the Engineer-In-Charge and those decisions shall be final and binding on the parties hereto. Any disputes or differences including those considered as such by only one of the parties arising out of or in connection with this contract shall be to the extent possible settled amicably between the parties. If amicable settlement cannot be reached then all disputed issues shall be settled as provided in Article GC-48 (Disputes or differences to be referred to) and Article No.GC-49 (Arbitration).

**GC-48 DISPUTES OF DIFFERENCES TO BE REFERRED TO :**

If at any time, any question, disputes or differences of any kind whatsoever shall arise between the Engineer-In-Charge and the contractor upon or in relation to or in connection with this contract either party may forthwith give to the other, notice in writing of the existence of such question, dispute or difference as to any decision, opinion, instruction, direction, certificate or evaluation of the Engineer-In-Charge. The question, dispute or differences shall be settled by the Municipal Commissioner, Rajkot Municipal Corporation, who shall state his decision in writing and give notice of same to the Engineer-In-Charge and to the Contractor. Such decision shall be final and binding upon both parties. The contract and work on contract if not already breached or abandoned shall proceed normally unless and until the same shall be revised (or uphold) by any arbitration proceedings as hereinafter provided. Such decisions shall be final and binding on the Engineer-In-Charge and the Contractor unless the Contractor shall require the matter to be referred to an Arbitration panel as hereinafter provided.

**GC-49 ARBITRATION :**

In case of any dispute arising during the course of execution, the matter should be referred to Municipal Commissioner who will be sole Arbitrator whose decisions will be final and binding to the Contractor.

The word "Arbitration" or "Arbitration Clause" wherever mentioned in this tender document, is to be treated to be referred to GC-49. In this context, an Order bearing No.RMC/Legal/1858 dated 18-02-2017 of Legal Department of Rajkot Municipal Corporation is uploaded separately along with this tender, which Order, will hereafter referred and taken into consideration for Arbitration related purpose.

**GC-50 TERMINATION OF THE CONTRACT :**

- i) If the Contractor finds it impracticable to continue operation owing to force majeure reasons or for any reasons beyond his control and/or the Corporation find it impossible to continue operation, then prompt notification in writing shall be given by the party affected to the other.
- ii) If the delay or difficulties so caused cannot be expected to cease or become unavoidable or if operations cannot be resumed within two (2) months then either party shall have the right to terminate the contract upon ten (10) days written notice to the other. In the event of such termination of the contract, payment to the Contractor will be made as follows :



- a) The Contractor shall be paid for all works approved by the Engineer-In-Charge and for any other legitimate expenses due to him.
  - b) If the Corporation terminates the contract owing to Force Majeure or due to any cause beyond its control, the Contractor shall additionally be paid for any work done during the said two (2) months period including any financial commitment made for the proper performance of the contract and which are not reasonably defrayed by payments under (a) above.
  - c) The Corporation shall also release all bonds and guarantees at its disposal except in cases where the total amount of payment made to the Contractor exceeds the final amount due to him in which case the Contractor shall refund the excess amount within thirty (30) days after the termination and the Corporation thereafter shall release all bonds and guarantees. Should the Contractor fail to refund the amounts received in excess within the said period such amounts shall be deducted from the bonds or guarantees provided.
- iii) On termination of the contract for any cause the Contractor shall see the orderly suspension and termination of operations, with due consideration to the interests of the Corporation with respect to completion safeguarding of storing materials procured for the performance of the contract and the salvage and resale thereof.

GC-51

**SPECIAL RISKS :**

If during the contract, there shall be an outbreak of war (whether war is declared or not), major epidemic, earthquake or similar occurrence in any part of the world beyond the control of either party to the contract which financially or otherwise materially affects the execution of the contract, the Contractor shall unless and until, the contract is terminated under the provisions of this article use his best endeavors to complete the execution of the contract, provided always that the Corporation shall be entitled at any time after the onset of such special risks, to terminate the contract by giving written notice to the contractor and upon such notice being given this contract shall terminate but without prejudice to the rights of either party in respect of any antecedent breach thereof.

The Contractor shall not be liable for payment of compensation for delay or for failure to perform the contract for reasons of Force Majeure such as acts of public enemy, acts of Government, fires, floods, cyclones, epidemics, quarantine restrictions, lockouts, strikes, freight embargoes and provided that the Contractor shall within 10 (ten) days from the beginning of such delay notify the Engineer-In-Charge in writing, of the cause of delay, the Corporation shall verify the facts and grant such extension as the facts justify.

GC-52

**CHANGE IN CONSTITUTION :**

Where the Contractor is a partnership firm, the prior approval in writing of the owner shall be obtained before any change is made in the constitution of the firm. Where the Contractor is an individual or undivided family business concern such approval as aforesaid shall likewise be obtained before the Contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the Contractor. If prior approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of contract.

**GC-53      SUB-CONTRACTUAL RELATIONS :**

All works performed for the contract by a sub-contractor shall be pursuant to an appropriate agreement between the Contractor and the sub-contractor, which shall contain provision to –

- a) Protect and preserve the rights of the Corporation and the Engineer-In-Charge with respect to the works to be performed under the sub-contracting party will not prejudice such rights.
- b) Require that such work be performed in accordance with the requirements of contract documents.
- c) Require under such contract to which the contractor is a party, the submission to the Contractor of application for payment and claims for additional costs, extension of time, damages for delay or otherwise with respect to the sub-contracted portions of the work in sufficient time, that the Contractor may apply for payment comply in accordance with the contract documents for like claims by the Contractor upon the Corporation.
- d) Waive all rights the contracting parties may have against one another for damages caused by fire or other perils covered by the property insurance except such rights as they may have to the proceeds of such insurance held by the Corporation as trustee and,
- e) Obligate each sub-contractor specifically to consent to the provisions of this Article.

**GC-54      PATENTS AND ROYALTIES :**

1. Contractor, if licensed under any patent covering equipment, machinery, materials or composition of matter to be used or supplied or methods and process to be practiced or employed in the performance of this contract agrees to pay all royalties and license fees, which may be due with respect thereto. If any equipment, machinery, materials, composition matters, to be used or supplied or methods practiced or employed in the performance of this contract, is covered by a patent under which Contractor is not licensed, then the Contractor before supplying / using the equipment, machinery, materials, compositions, methods of process shall obtain such license and pay such royalties and license fees as may be necessary for performance of this contract. In the event Contractor fails to pay such royalty or to obtain any such license, any suit for infringement of such patents which is brought against the Contractor or the owner as a result of such failure will be defended by the Contractor at his own expenses and the Contractor will pay any damages and costs awarded in such suit. The Contractor shall promptly notify the owner if the Contractor has acquired knowledge of any plant under which a suit for infringement could be reasonably brought because of the use by the owner of any equipment machinery, materials, process methods to be supplied in hereunder. Contractor agrees to and does hereby grant to owner together with the right to extend the same to any of the subsidiaries of the owner an irrevocable royalty fee license to use in any Country, any invention made by the Contractor or his employees in or as a result of the performance of work under contract.
2. With respect to any sub-contract entered into by Contractor pursuant to the provisions of the relevant clause hereof, the Contractor shall obtain from the sub-contractor an understanding to provide the owner with the same patent protection that contracts is required to provide under the provisions of the clause.

3. The Contractor shall indemnify and save harmless the owner from any loss on account of claims against owner for the contributory infringement of patent rights arising out of and based upon the claim that the use by the Corporation of the process included in the design prepared by the Contractor and used in the operation of the plant infringes on any patent rights.

GC-55 **LIEN :**  
If, at any time, there should be evidence of any lien or claim for which owner might have become liable and which is chargeable to the Contractor, the owner shall have the right to retain out of any payment then due or thereafter to become due an amount sufficient to completely indemnify the owner against such lien or claim or if such lien or claim be valid the owner may pay and discharge the same and deduct the amount as paid from any money which may be due or become due and payable to the Contractor. If any lien or claims remaining unsettled after all payments are made, the Contractor shall refund or pay to the owner all money that the latter may be compelled to pay in discharging such lien or claim including all costs and reasonable expenses.

GC-56 **EXECUTION OF WORK :**  
The whole work shall be carried out in strict conformity with the provisions of the contract document, detailed drawings, specifications and the instructions of the Engineer-In-Charge from time to time. The Contractor shall ensure that the whole work is executed in the most substantial, and proper manner with best workmanship using materials of best quality in strict accordance with the specifications to the entire satisfaction of the Engineer-In-Charge.

GC-57 **WORK IN MONSOON :**  
When the work continues in monsoon if required, the Contractor shall maintain minimum labour force required for the work and plan and execute the construction and erection work according to the prescribed schedule. No extra rate will be considered for such work in monsoon. During monsoon and entire construction period, the Contractor shall keep the site free from water at his own cost. ~~However, monsoon period from 1st July to 30th September will be excluded in time limit.~~

GC-58 **WORK ON SUNDAYS AND HOLIDAYS :**  
No work except curing shall be carried out on Sunday and holidays. However, if the exigencies of the work need continuation of work on Sundays and Holidays, written permission of the Engineer-In-Charge shall be obtained in advance.

GC-59 **GENERAL CONDITIONS FOR CONSTRUCTION WORK :**  
Working hours shall be eight every day. The over time work in two shifts could be carried out with the written permission of the Engineer-In-Charge but no compensation shall be paid for the same. The rate quoted shall include this. The Contractor shall plan his work in such a way that his labourers do not remain idle. The owner will not be responsible for idle labour of the Contractor. The Contractor shall submit to the owner progress report every week. The details and proforma of the report will be as per mutual agreement.

GC-60 **DRAWINGS TO BE SUPPLIED BY THE OWNER : (N.A.)**  
The drawings attached with the e-Tender documents shall be for general guidance of the Contractor to enable him to visualize the type of work

contemplated and scope of work involved. Detail working drawings according to which the work is to be done shall be prepared by the Contractor for executing the work.

GC-61

**DRAWINGS TO BE SUPPLIED BY THE CONTRACTOR:**

Where drawings, data are to be furnished by the Contractor they shall be as enumerated in special conditions of contract and shall be furnished within the specified time. Where approval of drawings has been specified it shall be Contractor's responsibility to have these drawings got approved before any work is taken up with regard to the same. Any changes becoming necessary in those drawings during the execution of the work shall have to be carried out by the Contractor at no extra cost. All final drawings shall bear the certification stamp as indicated below duly signed by both the Contractor and Engineer-In-Charge.

Certified true for.....Project Agreement No.....

Signed .....

Contractor Charge

Engineer-In-Charge

Drawings will be approved within three (3 weeks of the receipt of the same by the Engineer-In-Charge.

GC-62

**SETTING OUT WORK :**

The Contractor shall set out the work on the site handed over by the Engineer-In-Charge and shall be responsible for the correctness of the same. The work shall be carried out to the entire satisfaction of Engineer-In-Charge. The approval thereof or partaking by Engineer-In-Charge or setting out work shall not relieve Contractor of any of his responsibilities. The Contractor shall provide at his own cost all necessary level posts, pegs, bamboos, flags, ranging rods, strings and other materials and labourers required for proper setting out of the work. The Contractor shall provide fix and be responsible for the maintenance of all stakes, templates, level markets, profiles and similar other things and shall take all necessary precautions to prevent their removal or disturbance and shall be responsible for the consequences for such removal or disturbance. The Contractor shall also be responsible for the maintenance of all existing survey marks, boundary marks, and distance marks and centerline marks either existing or face lines and cross lines shall be marked by small masonry pillars. Each pillar shall have distance mark at the center for setting up the theodolite. The work shall not be started unless the setting out is choked and approved by Engineer-In-Charge in writing but such approval shall not relieve the Contractor of his responsibilities about the correctness of setting out. The Contractor shall provide all materials, labour and other facilities necessary for checking at his own cost. Pillars bearing geodetic marks on site shall be protected by the Contractor. On completion of the work, the Contractor shall submit the geodetic documents according to which the work has been carried out.

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**RESPONSIBILITIES OF CONTRACTOR FOR CORRECTNESS OF THE WORK :**

The Contractor shall be entirely and exclusively responsible for the correctness of every part of the work and shall rectify completely any errors therein at his own cost when so instructed by Engineer-In-Charge. If any error has crept in the work due to non-observance of this clause,

the Contractor will be responsible for the error and bear the cost of corrective work.

1. **Materials to be supplied by the Contractor:**  
Contractor shall procure and provide all the material required for the execution and maintenance of work including M S rods; all tools, tackles, construction plant and equipment except, the materials to be supplied by the owner detailed in the contract documents. Owner, shall make recommendations for procurement of materials to the respective authorities if desired by the Contractor but assumes no responsibility of any nature. Owner shall insist for procurement of materials with ISI marks supplied by reputed firms of the DGS & D list.
2. If however, the Engineer-In-Charge feels that the work is likely to be delayed due to Contractor's inability to procure materials, the Engineer-In-Charge shall have the right to procure materials, from the market and the Contractor will accept these materials at the rates decided by Engineer-In-Charge.

**GC-64 MATERIALS TO BE SUPPLIED BY THE OWNER :**

1. If the contract provided certain materials or stores to be supplied by the owner, such materials and stores transported by the Contractor at his cost from owner's stores or Railway Station. The cost from Contractor for the value of materials supplied by the owner will be recovered from the R.A.Bill on the basis of actual consumption of materials in the work covered and for which R A Bill has been prepared. After completion of the work, the Contractor has to account for the full quantity of materials supplied to him.
2. The value of store materials supplied by owner to the Contractor shall be charged at rates shown in the contract document and in case any other material not listed in the schedule of materials is supplied by the owner, the same shall be charged at cost price including carting and other expenses incurred in procuring the same. All materials so supplied shall remain the property of the owner and shall not be removed from the site on any account. Any material remaining unused at the time of completion of work or termination of contracts shall be returned to owner's store or any other place as directed by the Engineer-In-Charge in perfectly good condition at Contractor's cost. When materials are supplied free of cost for use in work and surplus and unaccounted balance thereof are not returned to the owner, recovery in respect of such balance will be effected at double the applicable issue rate of the material or the market rates whichever is higher.

**GC-65 CONDITIONS OF ISSUE OF MATERIALS BY THE OWNER: (N.A.)**

The materials specified to be issued by the owner to the Contractor shall be issued by the owner at his store and all expenses for it carting site shall be borne by the Contractor will be issued during working hours and as per rules of owner from time to time.

Contractor shall bear all expenses for storage and safe custody at site of materials issued to him before use in work.

Material shall be issued by the owner in standard / non-standard sizes as obtained from manufacturer.

Contractor shall construct suitable godowns at site for storing the materials to protect the same from damage due to rain, dampness, fire, theft etc.

The Contractor should take the delivery of the materials issued by the owner after satisfying himself that they are in good condition. Once the materials are issued, it will be the responsibility of the Contractor to keep them in good condition and in safe custody. If the materials get damaged or if they are stolen, it shall be the responsibility of the Contractor to replace them at his cost according to the instructions of the Engineer-In-Charge.

For delay in supply or for non-supply of materials to be supplied by the owner, on account of natural calamities, act of enemies, other difficulties beyond the control of the owner, the owner carries no responsibilities. In no case the Contractor shall be entitled to claim any compensation for loss suffered by him on this account.

None of the materials issued to the contractor, shall be used by the Contractor for manufacturing items which can be obtained from the manufacturer's. The materials issued by the owner shall be used for the work only and no other purpose.

Contractor shall be required to execute indemnity bond in the prescribed form for the safe custody and account of materials issued by the owner.

Contractor shall furnish sufficiently in advance a statement of his requirements of quantities of materials to be supplied by the owner and the time when the same will be required for the work, so as to enable Engineer-In-Charge to make arrangements to procure and supply the materials.

A daily account of materials issued by the owner shall be maintained by the contractor showing receipt, consumption and balance on hand in the form laid down by Engineer-In-Charge with all connected paper and shall be always available for inspection in the site office.

Contractor shall see that only the required quantities of materials are got issued and no more. The Contractor shall be responsible to return the surplus materials at owner's store at his own cost.

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**MATERIALS PROCURED WITH ASSISTANCE OF THE OWNER :**

Notwithstanding anything contained to the contrary in any of the clauses of this contract, where any materials for the execution of the contract are procured with the assistance of the owner either by issue from owner's stock or purchase made under orders or permits or licenses issued materials as trustees for owner, and use such materials not disposed them off without the permission of owner and unserviceable materials that may be left with him after completion of the contract or at its termination for any reason whatsoever on his being paid or credited such price as Engineer-In-Charge shall determine having due regard to the conditions of the materials. The price allowed to Contractor shall not exceed the amount charged to him excluding the storage of breach of the aforesaid condition, the Contractor shall in terms of license or permits and/or for criminal breach of trust be liable to compensate owner at double the rate or any higher rates. In the event of these materials at that time having higher rate or not being available in the market then any other rate to be

determined by the Engineer-In-Charge at his decision shall be final and conclusive.

**GC-67 MATERIALS OBTAINED FROM DISMANTLING :**

If the Contractor, in the course of execution of work, is called upon to dismantle any part of work for reasons other than on account of bad or imperfect work, the materials obtained from dismantling will be property of the owner and will be disposed off as per instructions of Engineer-In-Charge in the best interest of the owner.

**GC-68 ARTICLE OF VALUE OF TREASURE FOUND DURING CONSTRUCTION :**

All gold, silver and other minerals of any description and all precious stones, coins, treasures, relics, antiques and other similar things which shall be found in, under or upon site shall be the property of the owner and the Contractor shall properly preserve the same to the satisfaction of the Engineer-In-Charge and shall hand over the same to the owner.

**GC-69 DISCREPANCIES BETWEEN INSTRUCTIONS:**

If there is any discrepancy between various stipulations of the contract documents or instructions to the Contractor or his authorized representative or if any doubt arises as to the meaning of such stipulation or instructions, the Contractor shall immediately refer in writing to the Engineer-In-Charge and shall hand over the same to the owner.

**GC-70 ALTERATIONS IN SPECIFICATIONS & DESIGNS & EXTRA WORK :**

The Architect / Engineer-In-Charge shall have power to make any alterations in, omission from, addition to substitution for, the schedule of rates, the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of work and the Contractor shall be bound to carry out such altered / extra / new items of work in accordance with any instructions which may be given to him in writing signed by Engineer-In-Charge and such alteration omissions, additions or substitutions, shall not invalidate contract and any altered, additional or substituted work shall be carried out by the Contractor on the same conditions of contract. The time of completion may be extended by Architect as may be considered just and reasonable by him. The rates for such additional, altered or substitute work shall be worked out as under :

- a) If the rates for additional, altered or substitutes work are specified in the contract for work, the Contractor is bound to carry out such work at the same rates as specified in the contract.
- b) If the rates for additional, altered or substituted work are not specifically provided in the contract for the work, the rates will be derived from the rates of similar items of work in the contract work. The opinion of Engineer-In-Charge as to whether the rates can be reasonably so derived the items of contract will be final and binding to the Contractors.
- c) If the rates of altered, additional or substitute work cannot be determined as specified in (a) or (b) above, the rate shall be paid as per S.O.R. of RMC and if not available in RMC SOR than it will be paid according to SOR of R&B/GWSSB.
- d) If the rates of altered, additional or substitute work cannot be determined as specified in (a) or (b) or (c) above, the Contractor shall within seven

days of the receipt of order to carry out the work inform the Architect / Engineer-In-Charge of the rate which he intends to charge for such work supported by rate analysis and the Architect / Engineer-In-Charge will determine the rate on the basis of prevailing market rates of materials, labour cost at schedule of labour plus 15% there on as Contractor's supervision overheads and profit. The opinion of Architect / Engineer-In-Charge as to the market rates of materials and the quantity of labour involved per unit of measurement will be final and binding on Contractor.

But under no circumstances, the Contractor suspends work or the plea of non settlement of items falling under this clause.

- GC-71**      **ACTION WHEN NO SPECIFICAITONS ARE ISSUED :**  
In case of any class of work for which no specifications is supplied by the owner in the e-Tender documents, such work shall be carried out in accordance with relevant latest ISS and if ISS do not cover the same, the work shall be carried out as per General Technical Specification for building work; and if not covered in then it is to be with standard Engineering Practice subject to the approval of Engineer-In-Charge.
- GC-72**      **ABNORMAL RATES :**  
Contractor is expected to quote rate for each item after careful analysis of cost involved for the performance of the completed item considering all specifications and conditions of contract.
- GC-73**      **ASSISTANCE TO ENGINEER-IN-CHARGE:**  
Contractor shall make available to Engineer-In-Charge free of cost all necessary instruments and assistance in checking of any work made by the Contractor setting out for taking measurement of work etc.
- GC-74**      **TESTS FOR QUALITY OF WORK :**
1.            All workmanship shall be of the best kind described in the contract documents and in accordance with the instructions of Engineer-In-Charge and shall be subjected from time to time to such tests at Contractor's cost as the Engineer-In-Charge may direct at the place of manufacture of fabrication or on the site or at any such place. Contractor shall provide assistance, instruments, labour and materials as are normally required for examining, measuring and testing of any work of workmanship as may be selected and required by Engineer-In-Charge.
  2.            All tests necessary in connection with the execution of work as decided by Engineer-In-Charge shall be carried out at an approved laboratory at Contractor's cost.
  3.            Contractor shall furnish the Engineer-In-Charge for approval when requested or if required by the specification, adequate samples of all materials and finished goods to be used in work sufficiently in advance to permit tests and examination thereof. All materials furnished and finished goods applied in work shall be exactly as per the approved samples.
- GC-75**      **ACTION AND COMPENSATION IN CASE OF BAD WORKMANSHIP :**  
If it shall appear to the Engineer-In-Charge that any work has been executed with materials of inferior description, or quality or are unsound or with unsound, imperfect or unskilled workmanship or otherwise not in accordance with the contract, the Contractor shall, on demand in writing



from Engineer-In-Charge or his authorized representative specifying the work, materials or articles complained of, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the work, so specified. In the event of failure to do so within a period to be specified by the Engineer-In-Charge in his aforesaid demand, Contractor shall be liable to pay compensation at the rate of half a percent of the estimated cost of work for every work limited to a maximum of ten (10%) percent of the value of work while his failure to do so continues and in the case of any such failure, the Engineer-In-Charge may on expiry of the notice period rectify and remove and re-execute the work or remove and replace with others at the risk and cost of the Contractor. The decision of the Engineer-In-Charge as to any question arising under this clause shall be final and conclusive.

**GC-76      SUSPENSION WORK :**

Contractor shall, if ordered in writing by Engineer-In-Charge or his representative temporarily suspended the work or any part thereof for such time (not exceeding one month) as ordered and shall not after receiving such written notice proceed with the work until he shall have received a written order to proceed therewith. The Contractor shall not be entitled to claim compensation for any loss or damage sustained by him by reason of temporary suspension of work as aforesaid. An extension of time for completion of work will be granted to the Contractor corresponding to the delay caused by such suspension of work if he applies for the same provided the suspension was not consequent upon any default or failure on the part of the Contractor.

**GC-77      OWNER MAY DO PART OF THE WORK :**

When the Contractor fails to comply with any instructions given in accordance with the provisions of this contract, the owner has the right to carry out such parts of work as the owner may designate whether by purchasing materials and engaging labour or by the agency of another Contractor. In such case the owner shall deduct from the amount which otherwise might become due to Contractor, the cost of such work and materials with then (10) percent added to cover all departmental charges and should the total amount thereof exceed the amount due to contract, Contractor shall pay the difference to owner.

**GC-78      POSSESSION PRIOR TO COMPLETION :**

The Engineer-In-Charge shall have the right to take possession of or to use any completed or partly completed work or part of work. Such possession or use shall not be deemed to be an acceptance of any work completed in accordance with the contract. If such prior possession or use by Engineer-In-Charge delays the process of work, equitable adjustment in the time of completion will be made and the contract shall be deemed to be modified accordingly.

**GC-79      COMPLETION CERTIFICATE :**

As soon as the work has been completed in accordance with contract (except in minor respects that do not effect their use for the purpose for which they are intended and except for maintenance thereof) as per General Conditions of Contract the Engineer-In-Charge shall issue a certificate (hereinafter called completion certificate) in which shall certify the date on which work has been completed and has passed the said tests and owner shall be deemed to have taken over work on the date so

certified. If work has been divided in various groups in contract, owner shall be entitled to take over any group or groups before the other or others and there upon the Engineer-In-Charge will issue a completion certificate, which will, however, be for such group or groups so taken over.

In order that Contractor could get a completion certificate, he shall make good will all speed any defect arising from the defective materials supplied by Contractor of workmanship or any act or omission of Contractor that may have been discovered or developed after the work or groups of works has been taken over. The period allowed for carrying out such work will be normally, one month. If any defect be not remedied within the time specified, owner may proceed to do work at Contractor's (Agency, or Firm) risk and expenses and deduct from the final bill such amount as may be decided by owner. If by reason of any default on the part of the Contractor, a completion certificate has not been issued in respect of every portion of work within one month after the date fixed by contract for completion of work, owner shall be at liberty to use work or any portion thereof in respect of which a completion certificate has been issued, provided that work or the portion thereof so used as aforesaid shall be afforded reasonable opportunity for completion of that work or the portion thereof so used as aforesaid shall be afforded reasonable opportunity for completion of that work for the issue of completion certificate.

**GC-80**

**SCHEDULE OF RATES :**

1. The rates quoted by the Contractor shall remain firm till the completion of the work and shall not be subject to escalation. Schedule of rates shall be deemed to include and cover all costs, expenses and liabilities of every description and risks of every kind to be taken in executing, completing and handing over the work to owner by Contractor. The contractor shall be deemed to have known the nature, scope, magnitude and the extent of work and materials required though contract documents may not fully and precisely furnish them. He shall make such provision in the Schedule of Rates as he may consider necessary to cover the cost of such items of work and materials as may be reasonable and necessary to complete the work. The opinion of Engineer-In-Charge as to the item of work which are necessary and reasonable for completion of the work shall be final and binding on Contractor although the same may be not shown on drawings or described specifically in contract documents.
2. The Schedule of Rates shall be deemed to include and cover the cost of all constructional plant, temporary work, materials, labour and all other matters in connection with each item in Schedule of Rates and the execution of work or any portion thereof finished complete in every respect and maintained as shown or described in the contract document or as may be ordered in writing during the continuance of the contract.
3. The Schedule of Rates shall be deemed to include and cover the cost of all royalties and fees for the articles and processes, protected by letters patent or otherwise incorporated in or used in connection with work, also all royalties, rents and other payments in connection with obtaining material of whatsoever kind for work and shall include an indemnity to owner which Contractor hereby gives against all action, proceedings, claims, damages, costs and expenses arising from the incorporation in or use on the works of any such articles, processes or materials. Other Municipal or local Board charges if levied on material, equipment or machineries to be brought to site for use on work shall be borne by the Contractor.

4. No exemption or reduction of custom duties, excise duties, sales tax or any other taxes or charges of the Central or State Government or of any Local Body whatsoever will be granted or obtained and all such expenses shall be deemed to have been included in and covered by Schedule of Rates. Contractor shall also obtain and pay for all permits or other privileges necessary to complete the work.
5. The Schedule of Rates shall be deemed to include and cover risk on account of delay and interference with Contractor's conduct of work which may occur from any cause including orders of owner in the exercise of his powers and on account of extension of time granted due to various reasons.
6. For work under unit rate basis, no alteration will be allowed in the Schedule of Rates by reasons of work or any part of them being modified, altered, extended, diminished or omitted.

**GC-81      PROCEDURE FOR MEASUREMENT OF WORK IN PROGRESS:**

1. All measurements shall be in metric system. All the work in progress will be jointly measured by the representative of Engineer-In-Charge and Contractor's authorized agent. Such measurements will be got recorded in the Measurement Book by the Engineer-In-Charge or his authorized representative and signed by the Contractor or his authorized agent in token of acceptance. If the Contractor or his authorized agent fails to be present whenever required by the Engineer-In-Charge for taking measures for every reasons whatsoever, the measurement will be taken by the Engineer-In-Charge or his authorized representative notwithstanding the absence of Contractor and these measurements will be deemed to be correct and binding on the Contractor.
2. Contractor will submit a bill in approved proforma in quadruplicate to the Engineer-In-Charge of the work giving abstract and detailed measurements of various items executed during a month as mutually agreed. The Engineer-In-Charge shall verify the bill and the claim, as far as admissible, adjusted if possible, within 10 days of presentation of the bills.

**GC-82      RUNNING ACCOUNT PAYMENTS TO BE REGARDED AS ADVANCES :**

1. All running account payments shall be regarded as payments by way of advance against the final payment only and not as payment for work actually done and completed and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or rejected or to be considered as an admission of the due performance of contract or any part thereof.
2. Five (5) percent of the gross R A Bill amount shall be retained from each bill as retention amount and the same will be paid with the final bill.

**GC-83      NOTICE FOR CLAIM FOR ADDITIONAL PAYMENT :**

If the Contractor considers that he is entitled to extra payment or compensation or any claim whatsoever in respect of work, he shall forthwith give notice in writing to the Engineer-In-Charge about his extra payment and / or compensation. Such notice shall be given to the Engineer-In-Charge within ten (10) days from the happening of any event upon which Contractor basis such claims and such notice shall contain full

particulars of the nature of such claim with full details and amount claimed. Failure on the part of the Contractor to put forward any claim with the necessary particulars as above, within the time above specified shall be an absolute waiver thereof. No omission by owner to reject any such claim and no delay in dealing therewith shall waiver by owner or any rights in respect thereof.

**GC-84****PAYMENT OF CONTRACTOR'S BILL :**

1. The price to be paid by the owner to Contractor for the work to be done and for the performance of all the obligations undertaken by the Contractor under contract shall be based on the contract price and payment to be made accordingly for the work actually executed and approved by the Engineer-In-Charge.
2. No payment shall be made for work costing less than Rs.2,00,000/- till the work is completed and a certificate of completion for Construction is given. But in case of work estimated to cost more than Rs.2,00,000/-, Contractor on submitting the bill thereof will be entitled to receive a monthly payment proportionate to the part thereof, approved and passed by Engineer-In-Charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against contractor. This payment shall be made after necessary deductions as stipulated elsewhere in the contract documents for materials, security deposit etc. The payment shall be released to the Contractor within two (2) month of submission of the bill duly pre-occupied on proper revenue stamp. Payment due to Contractor shall be made by the owner by ECS/RTGS mode in Indian currency. Successful bidder must furnish his Bank details for RTGS/ECS with Account Branch of RMC.

**GC-85****FINAL BILL :**

The final bill shall be submitted by Contractor within one (1) month of the date of physical completion of work, otherwise the Engineer-In-Charge's certificate of the measurement and of total amount payable for work shall be final and binding on all parties.

**GC-86****RECEIPT FOR PAYMENT :**

Receipt for payment made on account of work when executed by a firm must be signed by a person holding Power of Attorney in this respect on behalf of Contractor except when described in the e-Tender as a limited company in which case the receipt must be signed in the name of the Company by one of its principal officers or by some person having authority to give effectual receipt for the Company.

**GC-87****COMPLETION CERTIFICATE :**

1. When the Contractor fulfils his obligation as per terms of contract, he shall be eligible to apply for Completion Certificate. Contractor may apply for separate Completion Certificate in respect of each such portion of work by submitting the completion documents along with such application for Completion Certificate.

The Engineer-In-Charge shall normally issue to Contractor the Completion Certificate within one (1) month after receiving an application thereof from Contractor after verifying, from the completion documents and satisfying himself that work has been completed in accordance with and as set out in the construction and erection drawings and the contract documents. Contractor after obtaining the Completion Certificate is eligible to present the final bill for work executed by him under the terms of contract.

2. Within one month of completion of work in all respects Contractor shall be furnished with a certificate by the Engineer-In-Charge of such completion but no certificate shall be given nor shall work be deemed to have been executed until all (i) scaffolding, surplus materials and rubbish is cleaned off site completely, (ii) until work shall have been measured by the Engineer-In-Charge whose measurement shall be binding and conclusive and, (iii) until all the temporary works, labour and staff colonies etc. constructed are removed and the work site cleaned to the satisfaction of the Engineer-In-Charge. If Contractor shall fail to comply with the requirements as aforesaid or before date fixed for the completion of work, the Engineer-In-Charge may at the expense of Contractor remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit.
  
3. The following documents will form the completion documents:-
  - a) Technical documents according to which the work has been carried out.
  - b) Three sets of construction drawings showing therein the modifications and corrections made during the course of execution signed by the Engineer-In-Charge.
  - c) Completion Certificate for "Embedded" or "Covered" up work.
  - d) Certificate of final levels as set out for various works.
  - e) Certificate of test performed for various work.
  - f) Material appropriation statement for the materials issued by owner for work and list of surplus materials returned to owner's store duly supported by necessary documents. (N.A.)
  
4. Upon expiry of the period of defect liability and subject to Engineer-In-Charge being satisfied that work has been duly maintained by Contractor during the defect liability period of fixed originally or as extended subsequently and that Contractor has in all respects made up any subsidence and performed all his obligations under contract, the Engineer-In-Charge (without prejudice to the rights of owner in any way) give final certificate to that effect. The Contractor shall not be considered to have fulfilled the whole of his obligation until final certificate shall have been given by the Engineer-In-Charge.
  
5. **Final Certificate only evidence of completion:**  
 Except the final certificate, no other certificate of payment against a certificate or on general account shall be taken to be an admission by owner of the due performance of contract or any part thereof of occupancy or validity or any claim by the Contractor.

**GC-88****TAXES, DUTIES, ETC. :**

1. Contractor agrees to and does hereby accept full and exclusive liability for the payment of any and all taxes including Sales Tax, Duties, etc., now or hereinafter imposed, increased or modified from time to time in respect of work and materials and all contributions and taxes for unemployment, compensation, insurance and old age pension or annuities now or hereinafter imposed by the Central or State Government authorities with

respect to or covered by the wages, salaries or other compensation paid to the persons employed by Contractor.

If the Contractor is not liable to Sales Tax assessment, a certificate to that effect from the Competent Authority shall be produced without which final payment to the Contractor shall not be made No.P, 'C' and 'D' Form shall be supplied by the owner, and the Contractor shall be required to pay full tax as applicable.

2. Contractor shall be responsible for compliance with all obligations and restrictions imposed by the labour law or any other law affecting employer-employee relationship.
3. Contractor further agrees to comply and to secure the compliance of all sub contractors with applicable Central, State, Municipal and local laws and regulations and requirement. Contractor also agrees to defend, indemnify the hold harmless the owner from any liability or penalty which may be imposed by Central, State or local authority by reasons of any violation by Contractor or sub Contractor of such laws, regulations or requirements and also from all claims, suits or proceedings that may be brought against owner arising under, growing out of or by reasons or work provided for by this Contract by third parties or by Central or State Government authority or any administrative Sub-Division thereof.

The Sales Tax on work contract will be borne by Contractor.

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**INSURANCE :**

Contractor shall at his own expenses carry and maintain the reputable Insurance Companies to the satisfaction of owner as follows :

1. Contractor agrees to and uses hereby accept full and exclusive liability for compliance with all obligations imposed by the Employer's State Insurance Act, 1948 and Contractor further agrees to defend, indemnify and hold owner hardness from any liability or penalty which may be imposed by the Central or State Government or local authority by reasons of any assorted violation by Contractor or Sub-Contractor or the Employees State Insurance Act, 1948 and also from all claims, suits or proceedings that may be brought against owner arising under, growing out of or by reasons of the work provided for by this contract whether brought by employees of Contractor by third parties or by Central or State Government authority or any administrative Sub-division thereof.

Contractor agrees to fill in with the Employees State Insurance Corporation, the declaration form and all forms which may be required in respect of Contractor's or sub-Contractor's employees whose aggregate remuneration is Rs.400/- p.m. or less and who are employed in work provided for or those covered by ESI from time to time under the agreement. The Contractor shall deduct and secure the agreement of the sub-Contractor to deduct the employees contribution as per the first schedule of the Employees State Insurance Act from wages. Contractor shall remit and secure the agreement of sub-contractor to remit to the State Bank of Indian Employees State Insurance Accounts, the employee's contribution as required by the Act. Contractor agrees to maintain all cards and records as required under the Act in respect of employees and payments and Contractor shall secure the agreements of the sub contractors to maintain in such records, any expenses incurred for the contributions, making contributions or maintaining records shall be to

Contractors or sub-contractors own account. owner shall retain such sum as may be necessary from the contract value until Contractor shall furnish satisfactory proof that all contribution as required by the Employees State Insurance Act, 1948 have been paid.

2. **Workman's compensation and employees liability insurance:** Insurance shall be effected for all Contractors employees engaged in the performance of this contract. If any part of work is sublet, Contractor shall require the sub-Contractor to provide workman's compensation and employer's liability insurance, which may be required by owner.
3. Other Insurance required under law of regulations or by owner Contractor shall also carry and maintain any and all other insurance which may be required under any law or regulation from time to time. He shall also carry and maintain any other insurance, which may be required by owner.

**GC-90 DAMAGE TO PROPERTY :**

1. Contractor shall be responsible for making good to the satisfaction of owner any loss of and any damage to all structures and properties belonging to owner or being executed or procured or being procured by owner or of other agencies within the premises of all work of owner, if such loss or damage is due to fault and / or the negligence of willful act or omission of Contractor, his employees, agent, representatives or sub-Contractor s.
2. Contractor shall indemnify and keep owner harmless of all claims for damage to properties other than property arising under by reasons of this agreement, such claims result from the fault and / or negligence or willful act or omission of Contractor, his employees, agents representative or sub-contractor.

**GC-91 CONTRACTOR TO INDEMNIFY OWNER :**

1. The Contractor shall indemnify and keep indemnified the owner and every member, officer and employee of owner from and against all actions, claims, demands and liabilities whatsoever under the in respect of the breach of any of the above clauses and / or against any claim, action or demand by any workman / employee of the Contractor or any sub-contractor under any laws, rules or regulations having force of laws, including but not limited to claims against the owner under the workman compensation Act, 1923, the Employee's Provident Funds Act, 1952 and / or the contract labour (Abolition and Regulations) Act, 1970.
2. **PAYMENTS OF CLAIMS AND DAMAGES :** If owner has to pay any money in respect of such claims or demands aforesaid, the amount so paid and the cost incurred by the owner shall be charged to and paid by Contractor without any dispute not withstanding the same may have been paid without the consent or authority of the Contractor.
3. In every case in which by virtue of any provision applicable in the workman's Compensation Act, 1923 or any other Act, owner be obliged to pay compensation to workmen employed by Contractor the amount of compensation so paid, and without prejudice to the rights of owner under Section-(12) Sub-section-(2) of the said Act, owner shall be at liberty to recover such amount from any surplus due to on to become due to the Contractor or from the security deposit. Owner will not be bound to contest any claim made under Section-(12) Sub-section-(2) of the said act

except on written request of Contractor and giving full security for all costs consequent upon the contesting of such claim.

The Contractor shall protect adjoining sites against structural, decorative and other damages that could be caused to adjoining premises by the execution of these works and make good at his cost, any such damage, so caused.

**GC-92      IMPLEMENTATION OF APPRENTICE ACT 1954 :**

Contractor shall comply with the provisions of the apprentice Act 1954 and the orders issued there under from time to time. If he fails to do so, it will be a breach of contract.

**GC-93      HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS:**

Contractor shall comply with all the rules and regulations of the local Sanitary Authorities or as framed by owner from time to time for the protection of health and provide sanitary arrangements of all labour directly or indirectly employed on the work of this contract.

**GC-94      SAFETY CODE :**

**General :**

Contractor shall adhere to safe construction practice and guard against hazardous and unsafe working conditions and shall comply with owner's rules as set forth herein.

**1.0      First Aid and Industrial Injuries :**

1.1      Contractor shall maintain First-Aid facilities for its employees and those of his sub-contractors.

1.2      Contractor shall make outside arrangements for ambulance service and for the treatment of industrial injuries. Name of those providing these services shall be furnished to Engineer-In-Charge prior to start of construction, and their telephone numbers shall be prominently posted in Contractor's field office.

1.3      All injuries shall be reported promptly to Engineer-In-Charge and a copy of Contractor's report covering each personal injury requiring the attention of a physician shall be furnished to owner.

**2.0      General Rules :**

2.1      Carrying and striking, matches, lighters inside the project area and smoking within the job site is strictly prohibited. Violators of smoking rules shall be discharged immediately. Within the operation area, no hot work shall be permitted, without valid gas, safety, fire permits. The Contractor shall also be held liable and responsible for all lapses of his sub-Contractors / employees in this regard.

**3.0      Contractor's Barricades :**

3.1      Contractor shall erect and maintain barricades without any extra cost, required in connection with his operation to guard or protect during the entire phase of the operation of this contract for -

- i)      Excavation
- ii)     Hoisting areas
- iii)    Areas adjudged hazardous by Contractor's OR Owner's inspectors.
- iv)    Owner's existing property liable to be damaged by Contractor's operations, in the opinion of Engineer-In-Charge / Site Engineer.



- 3.2 Contractor's employees and those of his sub-contractors shall become acquainted with owner's barricading practices and shall respect the provisions thereof.
- 3.3 Barricades and hazardous areas adjacent to but not located in normal routes of travel shall be marked by red lantern at night.
- 4.0 **Scaffolding :**
- 4.1 Suitable scaffolding shall be provided for workman for all works that cannot safely be done from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and handholds shall be provided on the ladder and the same shall be given an inclination not steeper that 1 in 4 (1 horizontal and 4 vertical).
- 4.2 Scaffolding or staging, more than 3.6 M. (12') above the ground or floor, swing or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached, bolted, braced and otherwise fixed at least 1.0 M (3') high above the floor or platform or scaffolding or staging and extending along the entire length of the outside ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- 4.3 Working platforms, gangways, and stairways should be so constructed that they should not sag unduly or inadequately and if the height of the platform or the gangway of the stairway is more than 3.6 (12') above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in 4.2 above.
- 4.4 Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fail of persons or materials by providing suitable fencing or railing whose minimum height shall be 1.0 M (3'.0").
- 4.5 Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9.0 M. (30') in length while the width between the side rails in rung ladder shall in no case be less than 30 cms (12 inches) for ladder up to and including 3.0 M. (10'), in longer ladders this width would be increased at least 6 mm (1/4") for each addition 30 c.m. (1.0) of length. Uniform step spacing shall not exceed 30 cms. (12"). Adequate precaution shall be taken to prevent danger from electrical equipment. No materials on any of the side of work shall be so stacked or placed as to cause danger or inconvenience to any person or public. The Contractor shall also provide all necessary all necessary fencing and lights to protect the workers and staff from accidents, and shall be bound to bear the expenses of defence of every suit action or other proceedings at law that may be brought by any persons for injury sustained owing to neglect of the above precautions and to pay damages and costs which may be awarded in any such suit or action or proceedings to any such person, or which, may be with the consent of the Contractor be paid to compromise any claim by any such person.

**5.0 Excavation :**

5.1 All trenches 1.2 M (4') or more in depth, shall at all time be supplied with at least one ladder.

5.2 Ladder shall be extended bottom of the trench to at least 3" above the surface of the ground. The side of the trench which are 1.5 M (5') or more in depth shall be stopped back to give suitable slope, or securely held by timber bracing, so as to avoid the danger of sides to collapse. The excavated materials shall not be placed within 1.5 M (5') of the trench of half of the trench depth whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or under cutting be done.

**6.0 Demolition :**

6.1 Before any demolition work is commenced and also during the progress of the work all roads and open area adjacent to the work site shall either be closed or suitably protected.

6.2 No electric cable or apparatus which is liable to be a source of danger shall remain electricity charged.

6.3 All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor or other part of the building shall be so over loaded with debris or materials as to render it unsafe.

**7.0 Safety Equipment :**

7.1 All necessary personal safety equipment as considered necessary by the Engineer-In-Charge should be made available for the use of persons employed on the site and maintained in a condition suitable for immediate use, and the Contractor should take adequate steps to ensure proper use of equipment by those concerned.

7.2 Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective gloves.

**8.0 Risky Place :**

8.1 When the work is done near any place where there is a risk of drowning, all necessary safety equipment shall be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first-aid treatment of all injuries likely to be sustained during the course of the work.

**9.0 Hoisting Equipment :**

9.1 Use of hoisting machines and tackles including their attachments, and storage and supports shall conform to the following standards or conditions.

9.2 These shall be of good mechanical construction, sound material and adequate strength and free from patent defect and shall be kept in good condition and in good working order.

9.3 Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength and free from patent defects.

9.4 Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 Years should be in-charge of any hoisting machine including any scaffolding.

- 9.5 In case of every hoisting machine and of every chain ring hook, shackle, swivel and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
- 9.6 In case of departmental machine, the safe work load shall be notified by the Engineer-In-Charge, as regards Contractor's machine, the Contractor shall, notify, the safety working load of the machine to the Engineer-In-Charge. Whenever the Contractor brings any machinery to site of work he should get it verified by the Engineer-In-Charge concerned.
- 10.0 Electrical Equipment :**  
Motors, gears, transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safeguards, hoisting appliances should be provided with such means when will reduce to the minimum the risk of accidental descent of the load, adequate precautions shall be taken to reduce to the minimum the risk of any part or a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel such as gloves, and booths as may be necessary shall be provided. The workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- 11.0 Maintenance of Safety Devices :**  
All scaffolds, ladders and other safety devices as mentioned or described herein shall be maintained in sound condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near place of work.
- 12.0 Display of Safety Instructions :**  
The safety provisions should be brought to the notice of all concerned by display on a Notice Board at a prominent place at the work spot. The persons responsible for compliance of the safety code shall be named therein by the Contractor.
- 13.0 Enforcement of Safety Regulations :**  
To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangement made by the Contractor shall be open to inspection by the Welfare Officer, Engineer-In-Charge or Safety Engineer of the owner or their representatives.
- 14.0 No Exemption :**
- 14.1 Notwithstanding the above clause 1.0 to 13.0 there is nothing to exempt the Contractor from the operations of any other Act or Rules in force in the Republic of India.
- 14.2 In addition to the above, the Contractor shall abide by the safety code provisions as per C.P.W.D. safety code framed from time to time.
- GC-95 ACCIDENTS :**  
It shall be Contractor's responsibility to protect against accidents on the works. He shall indemnify the owner against any claim for damage or for injury to person or property resulting from, and in the course of work and also under the provisions of the workman's compensation Act. On the occurrence of an accident arising out of the works which results in death

or which is so serious as to be likely to result in death, the Contractor shall within twenty-four hours of such accident, report in writing to the Engineer-In-Charge, the facts stating clearly and in sufficient details the circumstances of such accident and the subsequent action. All other accidents on the works involving injuries to person or damage to property other than that of the Contractor shall be promptly reported to the Engineer-In-Charge, stating clearly and in sufficient details the facts and circumstances of the accidents and the action taken. In all cases, the Contractor shall indemnify the owner against all loss or damage resulting directly or indirectly from the Contractor's failure to report in the manner aforesaid. This includes penalties or fines, if any, payable by the owner as a consequence of failure to give notice under the Workman's Compensation Act, or failure to conform to the provisions of the said act in regard to such accidents.

In the event of an accident in respect of which compensation may become payable under the Workman's Compensation Act VIII of 1923 including all modification thereof, the Engineer-In-Charge may retain out of money due and payable to the Contractor such sum of sums of money as may in the opinion of Engineer-In-Charge be sufficient to meet such liability. On receipt of award from the Labour Commissioner in regard to quantum of compensation, the difference in amount will be adjusted.

Addl/Asst. Engineer  
R.M.C.

Dy.Ex.Engineer  
R.M.C.

CITY ENGINEER  
R.M.C.

Signature of Contractor with Seal

**PART-II**  
**SECTION - 3**

# **TECHNICAL SPECIFICATIONS**

**PART-II**  
**SECTION – 3**  
**TECHNICAL SPECIFICATIONS**

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## :: TECHNICAL SPECIFICATIONS ::

### A. GENERAL

#### 1. SCOPE OF CONTRACT :

The work entitled comprise of excavation of trenches with shoring and strutting wherever required bailing out water wherever necessary, laying of pipes, jointing including supply of material and material required for jointing, testing as per specifications, Construction of appurtenances such as brick Masonry Manholes , house chambers etc. as per the type design specified entirely of the specification of various works stipulated in the e- Tender. The work includes supply of sewer pipes i.e. stone ware pipes of ISI Marked and R.C.C. precast manhole frames & covers which shall have to be supplied at site or Municipal store by the contractor at specified and shown in schedule "B". Other material like cement etc shall have to supplied by the contractor from open market.

#### 2. e-TENDER PRICE:

The rates quoted in the bill of quantities shall cover everything necessary for the due and complete execution of the work according to the drawings and other condition and stipulations of the contract including specifications of the evident, intend and meaning of all or either of them or according to customary usage and for periodical and final inspection and test and proof of the work in every respect and for measuring, numbering or weighing the same, including setting out and laying or fixing in position and the provision of all materials, power, tools, rammers, labour, tackle, platforms with impervious lapped joints for scaffolding, ranging roads, straight edged, cantering and boxing, wedges, moulds, templates, posts, straight rods, straight edged, cantering and boxing, wedges, moulds, templates, posts, straight rails, boning staves strutting, barriers, fencing lighting pumping apparatus, temporary arrangement for passage of traffic access to premises and continuance to drainage water supply and lighting (if interrupted by contractor's work) temporary sheds, painting, varnishing, polishing establishment for efficient supervision and staging arrangements for the efficient protective of life and property and all requisite plant and machinery of every kind.

The contractor shall keep every portion of the work clear of accumulation from time to time and shall leave every portion of the work clean, clear, perfect and at the conclusion of whole, providing at their own cost all such material implement, appliances and labour as the Engineer in charge may require to prove if it to be so.



**3. COMPLETION SCHEDULE:**

The contract period shall be as prescribed in tender document, from the date of notice to proceed. The Contractor shall submit his completion schedule and the program of works together with this e-Tender in conformity with completion schedule given in the documents.

**4. GENERAL TECHNICAL GUIDELINE:**

- 4.1 All the items occurring in the work and as found necessary during actual execution shall be carried out in the best workman like manner as per specifications and the written order of the Engineer in charge
- 4.2 Extra Claim in respect of extra work shall be allowed only if such work is ordered to be carried out in writing by the Engineer in charge
- 4.3 The contractor shall engage a qualified Engineer for the Execution of work who will remain present for all the time on site and will receive instructions and orders from the Engineer in charge or his authorized representative. The instruction and orders given to the contractor representative on site shall be considered as it given to the contractor himself.
- 4.4 The work order book as prescribed shall be maintained on the site of the work by the contractor and the contractor shall sign the orders given by the inspecting offers and shall carry out them properly.
- 4.5 Quantities specified in the e-Tender may vary at the time of actual execution and the contractor shall have no claim for compensation on account of such variation
- 4.6 Unexcavated lengths shall be left wherever required and so directed by the Engineer in charge during the currency of the contract and shall be tackled. If required, before completion of work.
- 4.7 Diversion of road, if necessary, shall be provided and maintained during the currency of the contract by the contractor at his cost.
- 4.8 Figured Dimensions of drawing shall supersede measurements by scale, special dimensions or directions in the specifications shall supersede all other dimensions.
- 4.9 All levels are given on drawings and the contractor shall be responsible to take regular level on the approved alignment before actually starting the work. The levels shall be commence to the G.T.S. levels and shall be got approved from the Engineer in charge

4.10 If the arrangement of temporary drainage is required to be made during any work of this Contract, this shall be made by the Contractor without claiming any extra cost.

#### 5. CLASSIFICATION OF STRATA:

5.1 All materials encountered in excavation will be classified in the following groups irrespective of mode of excavating the materials and the decision of the Engineer in charge in this regard shall be final and binding to the contractor.

##### 5.2 Soils :

Soils of all sorts, silt, sand, gravel, soft murrum, stiff clay, kunkar and other soft excavation not covered in the items mentioned hereunder.

##### 5.3 Hard Murrum :

Hard Materials comprising of all kinds of disintegrated rock or shale or indurate conglomerate interspersed with boulders, weathered and decomposed rock which could be removed with pick, bar, shove, wedges and hammers, though not without some difficulties.

##### 5.4 Soft – Rock:

This shall include all materials which is rock but which does not need blasting and can be removed with a pick bar, wedges, pavement breakers, pneumatic tools etc.

##### 5.5 Hard Rock:

This shall include rock occurring in mass or boulders which need blasting, this will also include rock to be removed by chiseling or any other method where blasting is not permissible.

6. The rates are inclusive of dewatering, if required.
7. Regarding water supply for hydro testing, necessary water, power, labour, etc. required for necessary test shall be arranged by the contractor at his own cost.
8. During construction activity, proper care must be taken for labour safety and must follow the provisions of the Labour laws.
9. TMT bars of Fe-500 should be confirming to IS:1786. The approved makes shall be TATA, SAIL, Vizag, Gallent, Electrotherm or other equivalent make as approved by engineer-in-charge.
10. Cement shall be ordinary Portland cement 53 Grade conforming to

IS:269, IS:8112 or IS:12269 for all the works as per the instructions of engineer-in-charge. The approved makes shall be Ambuja, Ultratect, LOTUS, Hathi or as per IS confirming. Minimum Cement content for the work should be as per attached circular No.RMC/C/Vigi.(Tech)/231 dt. 11/03/2022.

11. Testing of the materials like Brick, Sand, Aggregate, Reinforcement steel, etc. should have to be tested periodically as suggested by the Engineer-in-charge at Government approved material testing Laboratory and testing charges for the same has to be borne by the contractor.
12. In case of any ambiguity found in inspections / drawings etc, the decision of engineer-in-charge shall be final and binding to the contractor.

**A. DETAILED TECHNICAL SPECIFICATIONS**

**B1 MATERIAL SPECIFICATION**

1. **Material:**

M-1 **Water:**

Water shall not be salty or brackish and shall be clean, reasonably clear and free from objectionable quantities of silt and traces of oil and injurious alkalis, salts, organic matter and other deleterious material which will either weaken the mortar of concrete or cause efflorescence or attack the steel in RCC container for transport, storage and handling of water shall be clean. Water shall conform to the standards specified in I.S. 456 - Latest edition.

If required by the engineer-in-charge, it shall be tested by comparison with distilled water. Comparison shall be made by means of standard cement tests for soundness, change in time of setting and mortar strength as specified in I.S. 269 (Latest edition). Any indication of unsoundness, change in time of setting by 30 minutes or more or decrease of more than 10 per cent in strength of mortar prepared with water sample when compared with the results obtained with mortar prepared with distilled water shall be sufficient cause for rejection of water under test.

Water for curing mortar, concrete or masonry should not be too acidic or too alkaline. It shall be free of elements which significantly affect the hydration reaction or otherwise interfere with the hardening of mortar or concrete during curing or those which produce objectionable stains or other unsightly deposits on concrete or mortar surface.

Hard and bitter water shall not be used for curing.

Potable water will generally found suitable for curing mortar of concrete.

M-2 **Lime:**

Lime shall be hydraulic lime as per I S 712 - Latest Edition. Necessary tests shall be carried out as per I S 6932 9 (Parts I to X) Latest edition.

The following field tests for limes are to be carried out:

- i) A very rough idea can be formed about the type of lime by its visual examination i.e. fat lime bears pure white colour, lime in form of porous lumps of dirty white colour indicates quick lime and solid lumps are the unburnt lime stone.
- ii) Acid tests for determining the carbonate content in lime, lime Excessive amount of impurities and rough determination of lime.

Storage shall comply with I S 712 - Latest Edition. The slaked lime, it stored, shall be kept in a weather proof and damp-proof shed with impervious floor and sides to protect it against rain, moisture, and weather and extraneous materials mixing with it. All lime that has been damaged in any way shall be and all rejected materials shall be removed from site of work.

Field testing shall be done according to I S 269 (latest edition) to show the acceptability of materials.

**M-3 Cement:**

Cement shall be ordinary portland cement as per IS:269 or IS:8112 and IS:12669 (All Latest edition).

**M-4 White Cement:**

The white cement shall conform to I S 8042-E Latest edition.

**M-5 Colored Cement:**

Color cement shall be with white or grey portland cement as specified in the item of the work.

The pigments used for colored cement shall be of approved quality and shall not exceed 10% of cement used in the mix. The mixture of pigment and cement shall be properly ground to have a uniform color and shade. The pigments shall have such properties as to provide for durability under exposure to sunlight and weather.

The pigment shall have the property such that it is neither affected by the cement nor detrimental to it.

**M-6 Sand:**

Sand shall be natural sand or silica, clean well graded, hard strong, durable and gritty particles free from injurious amounts of dust, clay, kankar nodules, soft or flaky particles Shale, alkali, salts organic matter, loam, mica or other deleterious substances and shall be got approved from the engineer-in-charge. The sand shall not contain more than 8 percent of silt as determined by field test. If necessary, the sand shall be washed to make it clean.

**Coarse Sand:**

The fineness modules of coarse sand shall not be less than 2.5 and shall not exceed 3.0. The sieve analysis of coarse shall be as under:

| I.S. Sieve Designation | Percentage by weight passing sieve | IS Sieve Designation | percentage by weight passing sieve. |
|------------------------|------------------------------------|----------------------|-------------------------------------|
| 4.75 mm                | 100                                | 600 Micron           | 30-100                              |
| 2.36 mm                | 90 to 100                          | 300 Micron           | 5-70                                |
| 1.18 mm                | 70-100                             | 150 Micron           | 0-50                                |

**Fine Sand:**

The fineness modules shall not exceed 1.0 The sieve analysis of fine sand shall be as under:

| I.S. Sieve Designation | Percentage by weight passing sieve | IS Sieve Designation | percentage by weight passing sieve. |
|------------------------|------------------------------------|----------------------|-------------------------------------|
|------------------------|------------------------------------|----------------------|-------------------------------------|

|         |        |            |       |
|---------|--------|------------|-------|
| 4.75 mm | 100    | 600 Micron | 40-85 |
| 2.36 mm | 100    | 300 Micron | 5-50  |
| 1.18 mm | 75-100 | 150 Micron | 0-10  |

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**M-7 Stone Dust:**

This shall be obtained from crushing hard black trap or equivalent. It shall not contain more than 8% of silt as determined by field test with measuring cylinder. The method of determining silt contents by fields test is given as under:

A sample of stone dust to be tested shall be placed without drying in 200 mm measuring cylinder. The quantity if the sample shall be such that it fills the cylinder upto 100 mm mark, the clean water shall be added upto 150 mm mark. The mixture shall be stirred vigorously and content allowed to settle for 3 hours.

The height of silt visible as settled layer above the stone dust shall be expressed as percentage of the height of the stone dust below. The stone containing more than 8% silt shall be washed so as to bring the content within the allowable limit.

The fitness nodules of stone dust shall not be less than 1.80

**M-8 Stone Grit:**

Grit shall consist of crushed or broken stone and be hard, strong dense durable clean of proper gradation and free from skin or coating likely to prevent proper adhesion of mortar. Grit shall generally be cubical in shape and as far as possible flaky elongated pieces shall be avoided. It shall generally comply with the provisions of IS 383 (Latest Edition). Unless special stone of particular quarries is mentioned, grit shall be obtained from the best black trap or equivalent hard stone as approved by the engineer-in-charge. The grit shall have no deleterious reaction with cement.

The grit shall conform to the following gradation as per sieve analysis:

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| I.S. Sieve Designation | Percentage passing through sieve | IS Sieve Designation | percentage passing through sieve |
|------------------------|----------------------------------|----------------------|----------------------------------|
| 12.50 mm               | 100%                             | 4.75 mm              | 0-20%                            |
| 10.00 mm               | 85-100%                          | 2.36 mm              | 0-25%                            |

---

The crushing strength will be such as to allow the concrete in which it used to build up the specified strength of concrete.

The necessary tests for grit shall be carried out as per the requirements of I S 2386 (Part I to VIII) Latest edition as per instruction of engineer-in-charge. The necessity of test will be decided by the engineer-in-charge.

**M-9 Cinder:**

Cinder is well burnt furnace residue which has been fused or sintered into lumps of varying sizes.



Cinder aggregates shall be well burnt furnaces residue obtained from furnace using coal fuel only. It shall be sound clean and free from clay, dirt, ash or other deleterious matter.

The average grading for cinder aggregate shall be as mentioned below:

| I.S. Sieve Designation | Percentage passing | IS Sieve Designation | percentage passing |
|------------------------|--------------------|----------------------|--------------------|
| 20 mm                  | 100%               | 4.75 mm              | 70                 |
| 10 mm                  | 86                 | 2.36 mm              | 52                 |

#### M-10 Lime Mortar:

**Lime:** Lime shall conform to specification M-2. **Water:** Water shall conform to specification M-1. **Sand:** Sand shall conform to specification M-6.

##### **Proportion of Mix:**

Mortar shall consist of such proportions of slaked lime and sand as may be specified in item. the slaked lime and sand shall be measured by volume.

##### **Preparation of Mortar:**

Lime mortar shall be prepared by process as per IS 1625 Latest edition. Power drive mill shall be used for preparation of lime mortar. The slaked lime shall be placed in the mill in an even layer and ground for 180 revolutions with a sufficient water. Water shall be added as required during grinding (care being taken not to add more water) that will bring the mixed material to a consistency of stiff paste. Thoroughly wetted sand shall then be added evenly and the mixture ground for another 180 revolutions.

##### **Storage:**

Mortar shall always be kept damp, protected from sun and rain till used up, covering it by tarpaulin or open sheds.

All mortar shall be used as soon as possible after grinding. It should be used on the day on which it prepared. But in no case, mortar made earlier than 36 hours shall be permitted for use.

#### M-11 Cement Mortar:

Water shall conform to specification M-1. **Cement:** Cement shall conform to specifications M-3. **Sand:** Sand shall conform to M-6.

##### **Proportion of Mix:**

Cement and sand shall be mixed to specified proportion, sand being measured by measuring boxes. The proportion of cement will be by volume on the basis of 50 kg/Bag of cement being equal to 0.342 Cu.M. The mortar may be hand mixed as directed.

**Proportion of Mortar:**

In hand mixed mortar, cement and sand in the specifications shall be thoroughly mixed dry on a clean impervious platform by turning over at least 3 times or more till a homogeneous mixture of uniform color is obtained. mixing platform shall be so arranged that no deleterious extraneous material shall get mixed with mortar or mortar shall flow out. While mixing, the water shall be gradually added and thoroughly mixed to form a still plastic mass of uniform color so that each particle of sand shall be completely covered with a film of wet cement. the water cement ratio shall be adopted as directed.

The mortar so prepared shall be used within 30 minutes of adding water. Only such quantity of mortar shall be prepared as can used within 30 minutes.

**M-12 Stone Coarse Aggregate for Nominal Mix Concrete.**

Coarse aggregate shall be of machine crushed stone of black trap or equivalent and be hard, strong, dense, durable clean and free from skin and coating likely to prevent proper adhesion of mortar.

The aggregate shall generally be cubical in shape. Unless special stones of particular quarries are mentioned, aggregates shall be machine crushed from the best black trap or equivalent hard tone as approved. Aggregate shall have no deleterious reaction with cement. The size of the coarse aggregate for plain cement concrete and ordinary reinforced cement concrete shall generally be as per the table given below, however, in case of reinforced cement concrete the maximum limit may be restricted to 6 mm, less than the minimum lateral clear distance between bars of 6 mm less than the cover whichever is smaller.

| I S Sieve designation | Percentage passing for single sized aggregates of nominal size |        |       | IS Sieve designation | Percentage passing for single sized aggregates of nominal size |       |       |
|-----------------------|--|--------|-------|----------------------|--|-------|-------|
|                       | 40 mm  | 20 mm  | 16 mm |                      | 40 mm  | 20 mm | 16 mm |
| 80 mm                 | --   | --     | --    | 12.5 mm              | --   | --    | --    |
| 63 mm                 | 100  | --     | --    | 10 mm                | 0.5  | --    | 0.30  |
| 40 mm                 | 85-100   | 100    | --    | 4.75 mm              | --   | 0.20  | 0.5   |
| 20 mm                 | 0-20   | 85-100 | 100   | 2.35 mm              | --   | 0.50  | --    |
| 16 mm                 |  |        | 8-100 | --                   | --   | --    | --    |

**Note:**

This percentage may be the engineer-in-charge when considered necessary for obtaining better density and strength of concrete.

The grading test shall be taken in the beginning and at the change of source of materials. The necessary tests indicated in IS 383 Latest edition and IS 456 Latest edition shall have to be carried out to ensure the acceptability. The aggregates shall be stored separately and handled in such a manner as to prevent the intermixing of different aggregates. If the aggregates are covered with dust, they shall be washed with water to make them clean.

**M-13 Black Trap or Equivalent Hard Stone Coarse:****Aggregate for Design Mix concrete:**

Coarse aggregate shall be of machine crushed stone of black trap or equivalent hard stone and be hard strong, dense, durable, clean and free from skin and coating likely to prevent proper adhesion of mortar.

The aggregates shall generally be cubical in shape. Unless special stones of particular quarries are mentioned, aggregates shall be machine crushed from the best, black trap or equivalent hard stones as approved. Aggregate shall have no deleterious reaction with cement.

The necessary tests indicated in IS 383 Latest edition and IS 456 Latest edition shall have to be carried out to ensure the acceptability of the material.

If aggregate is covered with dust, it shall be washed with water to make it clean.

**M-14 Brick Bats Aggregate:**

Brick bat aggregate shall be broken from well burnt or slightly over burnt and dense bricks. It shall be homogeneous in texture, roughly cubical in shape, clean and free from dirt of any other foreign material. The brick bats shall be of 40 mm to 50 mm size unless otherwise specified in the item. The under burnt or over burnt brick bats shall not be allowed.

The brick bats shall be measured by suitable boxes as directed.

**M-15 Bricks:**

The bricks shall be hard or machine moulded and made from suitable soils and burnt. They shall be free from cracks and flaws and nodules of free lime. They shall have smooth rectangular faces with sharp corners and shall be of uniform colors.

The bricks shall be moulded with a frog of 100 mm x 40 mm and 10 mm to 20 mm deep on one of its flat sides. The bricks shall not break when thrown on the ground from a height of 600 mm.

The size of modular bricks shall be 190 mm x 90 mm.

The size of the conventional bricks shall be as under:  
(9" x 4.3/8" x 2,3/4") 225 x 110 x 75 mm

Only bricks of one standard size shall be used in one work. The following tolerances shall be permitted in the conventional size adopted in a particular work.

Length  $\pm 1/8"$  (3mm) width :  $\pm 1/16"$  (1.5mm)

Height:  $\pm 1/16"$  (1.5 mm)

The crushing strength of the brick shall not be less than 35 kg/sq.cm. The average water absorption shall not be more than 20 percent by weight. Necessary tests for crushing strength and water absorption etc., shall be carried out as per IS: 3495 (Part I to IV) - latest edition.

**M-16 Stone:**

The stone shall be of the specified variety such as granite / trap stone / quartzite or any other type of good hard stones. The stones shall be obtained only from the approved quarry and shall be hard, sound, durable and free from defects like cavities cracks, sand holes flaws, injurious reins, patches of loose or soft materials etc. and weathered portion and other structural defects or imperfection tending to affected their soundness and strength. The stone with round surface shall not be used. The percentage of water absorption shall not be more than 5% dry or wet. When tested in accordance with I.S.1124 - Latest edition. The minimum crushing strength of the stone be 200 kg/sq.cm unless otherwise specified.

The samples of the stone to be used shall be got approved before the work is started.

The khanki facing stone shall be dressed by chisel as specified in the item for khanki facing in required shape and size. The face of the stone shall be so dressed that the bushing on the exposed face shall not project by more than 40 mm from the general wall surface and on face to be plastered it shall not project by more than 19 mm nor shall it have depressions more than 10 mm from the average wall surface.

**M-17 Laterite Stone**

Laterite stone shall be obtained from the approved quarry. It shall be compacted, in texture, sound, durable and free from soft patches. Its shall have minimum crushing strength of 10 Kg/sq.cm in its dry condition. It shall not absorb water more than 20 % of its own weight, when immersed for 24 hours in water After quarrying, the stone shall be allowed to weather for some time before using in work. '

The stone shall be dressed into regular rectangular blocks so that all faces are free from waviness and unevenness, and the edges true and square.

Those types of stone in which white cly occurs should not be used.

Special corner stones shall be provided where so directed.

**M-18 Mild Steel Bars:**

Mild steel bars reinforcement for RCC work shall confirm to IS 432 (Part-II) Latest edition and shall be of tested quality. It shall also comply with relevant part of IS 456 Latest edition.

All the reinforcement shall be clean and free from dirt, paint, grease, mill scale or loose or thick rust at the time of placing.

For the purpose of payment, the bar shall be measured correct upto 10 mm length and weight payable worked out at the rate specified below:

|   |      |             |   |       |             |
|---|------|-------------|---|-------|-------------|
| 1 | 6 mm | 0.22 Kg/Rmt | 8 | 20 mm | 2.47 Kg/Rmt |
| 2 | 8 mm | 0.39 Kg/Rmt | 9 | 22 mm | 2.98 Kg/Rmt |

|   |       |             |    |       |             |
|---|-------|-------------|----|-------|-------------|
| 3 | 10 mm | 0.62 Kg/Rmt | 10 | 25 mm | 3.85 Kg/Rmt |
| 4 | 12 mm | 0.89 Kg/Rmt | 11 | 28 mm | 4.83 Kg/Rmt |
| 5 | 14 mm | 1.21 Kg/Rmt | 12 | 32 mm | 6.31 Kg/Rmt |
| 6 | 16 mm | 1.58 Kg/Rmt | 13 | 36 mm | 7.99 Kg/Rmt |
| 7 | 18 mm | 2.00 Kg/Rmt | 14 | 40 mm | 9.86 Kg/Rmt |

**M-19 High Yield Strength Steel Deformed Bars:**

High yield strength steel deformed bars shall be either cold twisted other rolled and shall conform to IS 1786 Latest edition and IS 1139 Latest edition respectively.

Other provisions and requirements shall conform to specification No.M-18 for Mild Steel Bars.

**M-20 High Tensile Steel Wires:**

The high tensile wires for use in prestressed concrete work shall conform to IS 2090 Latest edition.

The tensile strength of the high tensile steel bars shall be as specified in the item. In absence of the given strength the minimum strength shall be taken as per part 6-1 of the IS 1785 Latest edition. Testing shall be done as per I S requirements.

The high tensile shall be free from loose mill scale, rust, oil grease, or any other harmful matter. Cleaning of steel bars may be carried out immersion in solvent solution, wire brushing or passing through a pressure box containing carborundum.

The high tensile wire shall be obtained from manufacturer in coil having diameter not less than 350 times the diameter of wire itself, so that wire springs back straight on being uncoiled.

**M-20(A) Plain Carbon Drawn Steel Wires:**

The plain carbon drawn steel wires for use in precast concrete work shall be conform to IS 1785 (Part-II) Latest edition.

The tensile strength of the P C steel bars shall be as specified in the item. In absence of the given strength, the minimum strength shall be taken as per IS:1785 Latest edition. Testing shall be done as per IS requirements.

The P C steel bars shall be free from loose mill scale, rust, oil grease, or any other harmful matter. Cleaning of steel bars may be carried out immersion in solvent solution, wire brushing or passing through a pressure box containing carborandum.

**M-21 Mild Steel Binding Wire:**

The mild steel wire shall be of 1.63 mm, 22 mm (16 or 18 gauge) diameter and shall conform to I S 280 Latest edition.

The use of black wire will be permitted to binding reinforcement bars. It shall be free rust, oil paint, grease, loose mill scale or any other undesirable coating which may prevent adhesion of cement mortar.

**M-22 Structural Steel:**

All structural steel shall conform to IS 226 Latest edition. The steel shall be free from the defects mentioned in IS 226 Latest edition and shall have a smooth finish. the material shall be free from loose mill scale, rust pits or other defects affecting the strength and durability. River bars shall conform to IS 1148 Latest edition.

When the steel is supplied by the contractor, test certificate of the manufacturer shall be obtained according to IS 226 Latest edition and other relevant Indian Standards.

**M-23 Galvanized Iron Sheets :**

The galvanized iron sheets shall be plain or corrugated sheets of gauges as specified in item. The G.I. Sheets shall conform to I.S.latest edition. The sheets shall be undamaged in carriage and handling either by rubbing off of zinc coating or otherwise. They shall have clean and bright surface and shall be free from bends, holes, rust or white powdery deposit.

The length and width G.I. sheet shall be as directed as per site condition.

**M-23-A : G.I. Valleys gutter, ridges :**

The G.I. ridges and hips shall be of plain galvanized sheets Class-3 of the thickness as specified in item. These shall be 600 mm in and width and properly bent up to shape without damage to the sheets an in process of bending.

Valleys gutters and flashings shall also be of galvanized sheets of thickness as specified in item. Valleys shall be 900 mm. wide overall and flashing shall be 380 mm. wide overall. They shall be bent to the required shape without damage to the sheet in the process of bending.

**M-24. Asbestos Cement Sheets :**

Asbestos cement sheets plain, corrugated or semi-corrugated shall - conform shall conform to I.S. latest edition. The thickness of the sheets shall be as specified in The item. the sheets shall be free from all defects such as cracks, holes, deformities, edges or otherwise damaged.

**Ridge & Hips :**

Ridge and hips shall, be of same thickness as that of A.C. sheets. The types of ridges shall be suitable for the type of sheets and location.

Other accessories to be used in roof such as flashing pieces eaves filler pieces, valley gutters, north light and ventilator curves, barge boards etc. shall be of standard manufacture and shall be suitable for the type of sheets and location.

**M-25. Manglore Pattern Roof Tiles :**

The mangalore pattern tiles shall conform to I.S. latest edition for Class AA or class A type as specified in item. Sample of the tiles to be provided shall be got approved from the Engineer-in-charge. Necessary tests shall be carried out as directed.

**M-34. Welded Steel Wire Fabric**

Welded steel wire fabric for general purpose shall be manufactured from cold drawn steel wire "as drawn" or galvanized steel conforming to LS. Latest edition with longitudinal and transverse wire securely connected at every intersection by a process of electrical resistance welding and conforming to I.S. latest edition. It shall be fabricated and finished in workmanlike manner and shall be free from injurious defects and shall be rust proof. The type of mesh shall be oblong or square as directed. The mesh sizes and size of wire for square as well as oblong welded steel wire fabric shall be as directed. The steel wire fabric in panels shall be in one whole piece in each panel as far as stock sizes permit.

**M-36. Mild Steel Wire (Wire Gauze Jali) :**

Mild steel wire may be galvanized, as indicated. All finished steel wire shall be well cleanly drawn to the dimensions, and size of wire as specified in item. The wire shall be sound, free from splits, surface flaws, rough jagged-and imperfect edges and other harmful surface defect and shall conform to I.S. latest edition.

**M-78. Barbed Wire.**

The barbed wire shall be of galvanized steel and it shall generally conform to IS: latest edition. The barbed wire shall be of type-I whose nominal diameter for line wire shall be 2.5 mm and point wire 2.24 mm. The nominal distance between two barbs shall be 75 mm, unless otherwise specified in the item. The barbed wire shall be formed by twisting together two line wires, one containing the barbs. The size of the line and point wires and barb spacing shall be as specified above. The permissible deviation from the nominal diameter of the line wire and point wire shall not exceed 0.08 mm.

The barbs shall carry four points and shall be formed by twisting two point wires, each two turns, lightly round one line wire, making altogether four complete turns. The barbs shall be so finished that the four points are set and locked at right angles to each other. The barbs shall have a length of not less than 13 mm. and not more than 18 mm. The point shall be sharp and cut at an angle not greater than 35 degree of the axis of the wire forming the barbs.

The line and point wires shall be circular section, free from scale and other defects and shall be uniformly galvanized. The line wire shall be in continuous length and shall not contain any welds other than those in the rod before it is drawn. The distance between two successive splices shall not be less than 15 meters.

The lengths per 100 Kg. of barbed wire IS: type I shall be as under :  
Nominal 1000 meters. Minimum 934 Meter. Maximum 1066 Meter.

Signature of Contractor

**DETAILED TECHNICAL SPECIFICATIONS**

**Item No.1 and 2:**

**Dismantling of Super Structure and disposing it in 90 mtr lead area**  
**And**

**Removal of Wire fencing / Gurder railing / Angle Post Gurder railing**

1. The work shall consist of removing, as herein after set forth; existing culverts, bridges, pavement, kerbs and other structures like guards- rails, fences, utility poles, manholes, catch basins, inlets, etc. Which are in place but interfere with the new construction or are not suitable to remain in place and of salvaging and disposing of the resulting materials and back-filling the resulting trenches and pits.
2. Existing culverts, bridges, pavements and other structures which are within the work area and which are designated to be removed, shall be removed up to the limits and extent specified in the drawings or as indicated by the Engineer-in-charge.
3. Dismantling and removal operations shall be carried out with such equipment and in such a manner as to leave undisturbed, adjacent pavement, structures and other work to be left intact.
4. All operations necessary for the removal of any existing structure which might endanger new construction shall be completed prior to the start of new work.
5. The structures shall be dismantled carefully and the resulting materials so removed as not to cause any damage to the serviceable materials to be salvaged, the part of structure to be retained and any other properties or structures nearby.
6. Unless otherwise specified, the superstructure portion of culverts / bridges shall be entirely removed and other parts removed to below the ground level or as necessary depending upon the interference they cause to the new construction. Removal of overlying of adjacent material if required in connection with the dismantling of the structures shall be incidental to this item.
7. Where existing culverts / bridges are to be extended or otherwise incorporated in the new work only such part or parts of the existing structure shall be removed as are necessary to provide a proper connection to the new work. The connecting edges, shall be cut, chipped and trimmed to the required lines and grades without weakening or damaging any part of the structure to be retained. Reinforcing bars which are to be left in place so as to project into new work as dowels or ties shall not be injured during removal of concrete.



8. Pipe culverts shall be carefully removed in such a manner as to avoid damage to the pipes.
9. Steel structures shall unless otherwise provided be carefully dismantled in such a manner as to avoid damage to members thereof. If specified in the drawing or directed by the Engineer-in-charge that structure is to be removed in a condition suitable for re-erection, all members shall be match marked by the contractor with white lead paint before dismantling. End pins, nuts, loose, plates, etc. shall be similarly marked to indicate their proper location. All pins, pin holes and machined surfaces shall be painted with a mixture of white lead and tallow and loose parts shall be securely wired to adjacent members or packed in boxes.
10. Timber structures shall be removed in such a manner as to avoid damages to such timber or lumber as is designated by the Engineer-in-charge to be salvaged.
11. In removing pavements, kerbs, gutters, and other structures, like guard rails, fences, manholes, catch, basins, inlets etc. where portions of the existing construction are to be left in the finished work, the same shall be removed to an existing joint or cut and chipped to a true line with a face perpendicular to the surface of the existing structure. Sufficient removal shall be made to provide for proper grades and corresponding with the new work as directed by the Engineer-in-charge.
12. All concrete pavements base course in carriageway and shoulders etc. designated for removal shall be broken to pieces whose volumes shall not be exceed 0.02 cubic meter and, stockpiled at designated locations if the material is to be used later or otherwise arranged for disposal as directed.
13. Where directed by the engineer-in-charge holes and depressions caused by dismantling operations shall be backfilled with excavated or other approved material and thoroughly compacted in line with surrounding area.
14. All materials obtained by dismantling shall be the property of Government. Unless otherwise specified, materials having any salvage value shall be placed in neat stack of like material within the right-of-way as directed by the Engineer-in-charge, for which contractor will remain responsible for its safe custody and preservation for 60 days after recording measurements of the salvaged material.
15. Pipe culverts that are removed shall be cleared and neatly piled on the right-of-way at points designated by the Engineer-in-charge.
16. Structural steel removed from old structure shall, unless otherwise specified or directed be stored in a neat and presentable manner on

blocking in locations suitable for loading. Structures or portions thereof which are specified in the contract for re-erections shall be stored in separate piles.

17. Timber of lumber from old structures which is designated by the Engineer-in-charge as materials to be salvaged shall have all nuts and bolts removed from and shall be stored in neat piles in locations suitable for loading.
18. All the products of dismantling operations which in the opinion of the Engineer-in-charge cannot be used or auctioned shall be disposed as directed, within 100 meters.
19. The work of dismantling structure shall be paid for in units indicated below by taking measurement before and after, as applicable;
 

|       |  |              |
|-------|--|--------------|
| i)    | Dismantling brick / stone / concrete<br>(Plain and reinforced) masonry     | Cubic Meter  |
| ii)   | Dismantling flexible and cement<br>concrete pavement                       | Cubic Meter  |
| iii)  | Dismantling steel structure  | Ton          |
| iv)   | Dismantling timber structure   | Cubic Meter  |
| v)    | Dismantling pipes, guard rails, kerbs,<br>gutters and fencing              | Linear Meter |
| vi)   | Utility poles  | No.s         |
| vii)  | Removal of flooring – CC Precast Tiles /<br>Shahbadi ladi / tiles flooring | Sqr. Mtr     |
| viii) | Removal of road divider strip  | No.s         |
20. The contract unit rates for the various items of dismantling shall be for payment in full for carrying out the required operations including full compensation for all labor, materials, tools equipment, safeguard and incidentals necessary to complete the work. These will also include excavation and backfilling where necessary and for handling, salvaging, piling and disposing of the dismantled material within all lifts and up to a lead of 100 meters.

**Item No.3:**

**Removal of Excavated Stuff and Laying within the sites specified in Notification as directed by Engineer-in-Charge**

Surplus earth shall have to cart by the contractor within specified limit including loading, transporting, unloading, spreading, etc.

The surplus stuff shall be disposed off at the following sites as directed within the prescribed limits of Notification as directed by the engineering in charge.

1. Beside Kotharia Police Station near Stone Quarry
2. All Quarry areas of Raiya Smart City
3. TP Scheme No.10, FP-87, Dhebar Road (South), Atika Area, Nr. PGVCL Office

4. TP Scheme No.23, FP-23, Nr. IOC Godown, Morbi Road
5. TP reservation plot at Samrat industrial Area, Bh. ST Workshop
6. TP Scheme No.9, FP-5, Nr. Raiyadhar Garbage Station
7. TP Scheme No.20, FP-35, Bh. Pradhuman Green
8. TP Scheme No.28 (Mavdi), FP-46/A, Nr. GETCO Circle
9. TP Scheme No.12, FP-38/A and 39/B, Nr. Lijjat Papad, Kothariya Nationla Highway

If the contractor fails to dispose the excavated stuff as specified, penalty will be imposed by Rajkot Municipal Corporation as per the Notification for C&D waste.

The excavated material of black cotton soil should be stacked at the location specified by the engineer in charge.

**Mode of Measurement and Payment:**

The measurement of excavation in trenches for foundation shall be made according to the sections of trenches shown on the drawing or as per sections given by the engineer-in-charge.

No payment shall be made for surplus excavation made in excess of above requirement or due to stopping and sloping back as found necessary on account of conditions of soil and requirements of safety.

The rate shall be for a unit of one cubic Meter.

**Item No.4 and 5:**

**Excavation of Foundation in Soft Murrum. Soil or Sand from 0.0 mtr. to 3.00 mtr depth including lifting and laying as instructed**

**1.0 General:**

- 1.1 Any soil which generally yields to the application of the pickaxes and shovels, phawaras rakes or any such ordinary excavation implement or organic soil, gravel, slit, sand turf lawn, clay, peat etc. fall under this category.

**2.0 Cleaning the site:**

- 2.1 The site on which the structure is to be built shall be cleared, and all obstructions, loose stone, materials and rubbish of all kind, bush, wood and trees shall be removed as directed. The materials so obtain shall be property of the government and shall be conveyed and stacked as directed within RMC limit. The roots of the tree coming in the sides shall be cut and coated with a asphalt.
- 2.2 The rate of site clearance is deemed to be included in the rate of earth work for which no extra will be paid.

**3.0 Setting out:**

After clearing the site, the center lines will be given by the engineer-in-charge. The contractor shall assume full responsibility for alignment, elevation and dimension and of each and all parts of the work. Contractor shall supply labors, materials, etc required for

setting out the reference marks and bench marks and shall maintain them as long as required and directed.

#### 4.0 Excavation:

The excavation in foundation shall be carried out in true line and level and shall have the width and depth as shown in the drawings or as directed. The contractor shall do the necessary shoring and strutting or providing necessary slopes to a safe angle, at his own cost. The bottom of the excavated area shall be leveled both longitudinally and transversely as directed by removing and watering as required. No earth filling will be allowed for bringing it to level, if by mistake or any other reason excavation is made deeper or wider than that shown on the plan or directed. The extra depth or width shall be made up with concrete of same proportion as specified for the foundation concrete at the cost of the contractor. The excavation upto 1.5 mt depth shall be measured under this item.

#### 5.0 Disposal of the excavated stuff:

The excavated stuff of the selected type shall be used in filling the trenches and plinth or leveling the ground in layers including ramming and watering etc.

The balance of the excavated quantity shall be removed by the contractor from the site of work to a place as directed within RMC limit and all lift.

After refilling, surplus earth shall have to carted by the contractor within specified limit including loading transporting unloading spreading without any extra cost.

The surplus stuff shall be disposed off at the following sites as directed within the prescribed limits of Notification as directed by the engineering in charge.

It will be the sole responsible of agency to repair any extra paver / road damages at it's own cost. Excavated material / Bitumen surface shall be disposed at following site as Notified by RMC and as directed by the engineering in charge.

1. Beside Kotharia Police Station near Stone Quarry
2. All Quarry areas of Raiya Smart City
3. TP Scheme No.10, FP-87, Dhebar Road (South), Atika Area, Nr. PGVCL Office
4. TP Scheme No.23, FP-23, Nr. IOC Godown, Morbi Road
5. TP reservation plot at Samrat industrial Area, Bh. ST Workshop
6. TP Scheme No.9, FP-5, Nr. Raiyadhar Garbage Station
7. TP Scheme No.20, FP-35, Bh. Pradhuman Green
8. TP Scheme No.28 (Mavdi), FP-46/A, Nr. GETCO Circle
9. TP Scheme No.12, FP-38/A and 39/B, Nr. Lijjat Papad, Kothariya Nationla Highway

If the contractor fails to dispose the excavated stuff as specified, penalty will be imposed by Rajkot Municipal Corporation as per the Notification for C&D waste.

**Mode of Measurement and Payment:**

The measurement of excavation in trenches for foundation shall be made according to the sections of trenches shown on the drawing or as per sections given by the engineer-in-charge. No payment shall be made for surplus excavation made in excess of above requirement or due to stopping and sloping back as found necessary on account of conditions of soil and requirements of safety.

The rate shall be for a unit of one cubic Meter.

**Item No.6:**

**Excavation of Foundation in Soft Rock and Hard Rock from 0.00 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed**

**1.0. Workmanship**

- 1.1. The relevant specification of item No.4 shall be followed except that the excavation for foundation work shall be carried out in soft/hard rock.
- 1.2. Excavation shall be done by blasting to the dimensions shown in the drawings or as directed. The blasting shall be carried out only with written permission of the Engineer-in-charge. All the laws, regulations etc,- pertaining to the precautions, acquisition, transport, landing and use of explosive shall be rigidly followed. The Magazine for the storage for the explosive shall be built to the design and specifications of explosive authority and located at the approved site No unauthorised persons shall be admitted into the magazine and when not in use it shall be kept securely locked No matches or inflammable materials shall be allowed in Magazine. The Magazine shall have an-effective lightning conductor. The rules of explosive 1940 revised from time to time shall be followed strictly for obtaining starting, handling, undertaking blasting work.
- 1.3. The contractor shall be responsible for damage to property, workmen public due to any accident due to use of explosives and operations
- 1.4. **Precautions**
  - 1.4.1. The blasting operation shall remain in charge of competent and experienced supervisor and workmen who are thoroughly acquainted with the detail of handling explosive and blasting operations. The blasting shall be carried our during fixed hours of the day, preferably during the mid-day lunch hours or at the close of the work as ordered in writing by the Engineer-m-charge. The hours of blasting shall be notified in advance to the people in the vicinity. All the charges shall be prepared by the man in charge only.
  - 1.4.2. Red danger flags shall be displayed prominently in all direction during the blasting operations.
  - 1.4.3. People except those who actually light the fuse shall be prohibited from entering into this area. The flags shall be stationed at 200 m. from the firing-site in all directions and all persons including workmen shall be

excluded from the flagged area at least 1.0 minutes before the firing warning whistle being sounded for this purpose

- 1.4.4. During excavation in rock by blasting, the lowest 15 cm. of stratus shall be blasted with light charge so as not to shatter or weaken the underlying rock on which the foundation will be actually laid. If excavation in rock is done to large widths and length than those shown on the drawings or as directed, no payment shall be made for such over break. If excavation is done to depths greater than shown on the drawings or directed, excess depth shall be made up with foundation grade concrete as directed at the contractor's cost.
- 1.4.5. The charged hole shall be drilled to the required depth and in suitable places when blasting is done with powder, the fuse cut to the required length shall be inserted in the holes and the powder dropped in. The powder shall be gently tamped with copper rod with rounded ends. The explosive powder shall then be covered with trapping materials which shall be tamped lightly out firmly. When blasting is done with dynamite and other high explosive, dynamite cartridges shall be prepared by inserting the square cut ends of fuse into the detonator, and finished with dippers at the open ends. The detonator should be gently pushed into the detonator and finished with dippers at the opened ends. The detonator should be gently pushed explosive. Bore holes shall be of such size that the cartridges can be easily passed down. The holes shall be cleared of all debris and explosive inserted. The space for about 20 cms, above the charge shall then be gently filled with dry clay pressed home and rest of tamping is with firmed any convenient materials gently packed with a wooden cover.
- 1.4.6. At a time not more than 10 such charge shall be prepared and fired. The man in charge shall blow a whistle in a recognised manner for cautioning the people. All the people shall then be required to move to number of explosions. He shall satisfy himself that all the charges have been exploded before allowing the workmen to go to the work site.
- 1.4.7. The contractor shall be fully responsible to strictly follow the prevailing rules and procedures regarding blasting procedures
- 1.5. Misfire
  - 1.5.1. In case of a misfire the following procedure shall be observed :
  - 1.5.2. Sufficient time shall be allowed to account for the delayed blast. The man in charge shall inspect all the charges and determine the missed charge.
  - 1.5.3. If it is the blasting powder charge it shall be completely flooded with water. A new hole shall be drilled at, about 45 cm. from the old and fired. This should blast the old charge. Should^ it not blast the old charge, the procedure shall be repeated till the old charge is blasted.
  - 1.5.4. In case of charge of gelatins, dynamite etc, the man in charge shall gently remove the tamping and the primer with detonator and primer shall then be used to blast the charge. Alternatively the hole may be cleared of one foot of tamping and the direction then ascertained by placing a stick in the hole. Another hole may then be drilled 15 cm away and parallel to it. The man in charge shall report to the office all cases of misfire and cause of the same and what steps were taken in connection therewith.
  - 1.5.6. If a misfire has been found to be due to defective or dynamite, the whole quantity in the box from which defective article was taken must

be sent to authority as directed for inspection to ascertain whether all the remaining materials in the box are also defective or not.

**1.6. Accidents:**

- 1.6.1. The contractor shall be solely responsible for any accident during the entire procedure of handling explosive and blasting and shall pay necessary compensation to persons affected or damage to lands or property etc, due to the blasting, without extra claims on the department.

**1.7. Account:**

- 1.7.1. A careful and day to day account of explosives shall be maintained by the contractor in an approved manner and shall be open to inspection of the Engineer-in charge Surprise visits may also be paid by the Engineer-in-charge to the storage and in case of any unaccountable shortage or unsatisfactory accounting, the contractor shall be liable to be penalised by forfeiture of part or whole of his Security Deposit or by cancellation of tender in which case he shall not be entitled for any compensation .-

**1.8. Disposal of Excavated Materials:**

- 1.8.1 No materials excavated from foundation trenches of whatever kind they may be, are to be placed even temporarily nearer than 1.5 m. or distance prescribed by the Engineer from the outer edge of excavation. All materials excavated shall remain the property of Government. Rate for excavation includes sorting out of useful materials and stacking them separately as directed within the specific lead. Materials suitable and useful for backfilling or other use shall be stacked in convenient places but not in such a way as to obstruct free movement of men, animals and vehicles or encroach upon the area required for constructional purpose. The site shall be left clean of all debris on completion.

- 1.8.2. Disposal of excavated materials is subject to the following:

Unsuitable materials obtained from clearing site and excavation shall be disposed off within a lead of 50 meters as directed. Useful materials obtained from clearing site and excavation shall be stacked within a lead of 50 M beyond the building areas is directed. Materials suitable for back-filling shall be stacked at convenient places within a lead of 50 M. from the structure for reuse. Useful stones from rock excavation shall be stacked neatly within a lead of 50 M. and will be allowed to be used by the contractor on payment at rates laid down in the contract or if not so laid down, at scheduled rates of the Division or at a mutually agreed rates if there are no such rates in the schedule of rates.

- 1.8.3. If surplus materials are required to be conveyed beyond 50 M, conveyance will be paid for under a separate item

**2.0. Mode of measurements & Payment**

- 2.1. The work shall be measured for the work limited to the dimensions shown on drawings or directed Excavation to dimension in excess of the above will not be measured or paid for and if so ordered by the Engineer the contractor shall have to fill up the excess depth with cement concrete specified for foundation without extra payment.

- 2.2. Driving of sounding bars, drill holes to explore the nature of substratum up to a total length of meter distributed in 2 or 3 places in each foundation if necessary, will be considered incidental work and will not be paid for separately.

- 2.3. Removal of slips and blows in the foundation trenches will not be measured or paid for.
- 2.4. if it is necessary in the opinion of the Engineer-in-charge to carry foundation below the levels shown on the plans, the excavations for the 1.5 M of addition depth will be included in the quantity for the particular classification and will be paid for as extra at rate to be decided under the general conditions of contract unless, the contractor is willing to accept payment as tendered rates.
- 2.5. The rate shad be for a unit of one cubic meter.

**Item No.7:**

**20 mm dia Rock Anchroing work**

The work is to be carried out as per the guidance and instructions from engineer-in-charge.

The rate shad be for a unit of one number.

**Item No.8:**

**Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Ramming, Curing etc.**

- 1.0. Materials
  - 1.1 Water shall conform to M-1. Cement shall conform shall conform to M-3. Sand shall conform to M-6. Stones aggregate 20 mm. nominal size shall conform to M- 12.
- 2.0 Workmanship
  - 2.1 General
    - 2.1.1 Before starting concrete the bed of foundation trenches shall be cleared of all loose materials, leveled, watered and rammed as directed.
  - 2.2 Proportion of Mix
    - 2.2.1 The proportion of cement, sand and coarse aggregate shall be one part of cement, 2 parts of sand and 4 parts of stone aggregate; and shall be measured by volume.
  - 2.3 Mixing
    - 2.3.1 The concrete shall he mixed in a mechanical mixer at the site of work. Hand mixing may however be allowed for smaller quantity of work if approved by the Engineer-in-charge. When hand mixing is permitted by the Engineer-in-charge in case of break-down of machineries and in the interest of the work, it shall be carried out on a water tight platform and care shall be taken to ensure that mixing is continued until the mass is uniform in colour and consistency. However in such cases 10% more cement than otherwise required shall have to be used without any extra cost. The mixing in mechanical mixer shall be done for a period 1½ to 2 minutes. The



quantity of water shall be just sufficient to produce a dense concrete of required workability for the purpose.

2.4 Transporting & placing the concrete.

2.4.1 The concrete shall, be handed from the place of mixing to the final position in not more than 15 minute by the method as directed and shall be placed into its final position, compacted and finished within 30 minutes of mixing with water i.e. before the setting commences.

2.4.1 The concrete shall be laid in layers of 15 cms to 20 cms.

2.5 Compacting:

2.5.1 The concrete shall be rammed with heavy iron rammers and rapidly to get the required compaction and to allow all the interstices to be filled with mortar.

2.6 Curing

2.6.1 After the final set, the concrete shall be kept continuously wet if required by ponding for a period of not less then 7 days from the date of placement.

2.7 Mode of measurements and payment:

2.7.1 The concrete shall he measured for its length, breadth, and depth, limiting dimensions to those specified on plan or as directed.

2.7.2 The rate shall be for a unit of one cubic meter.

**Item No.9 to 11:**

**C.C.M-30 Control concrete for water retaining structures**

**Footing / Column / Slab work M-30 Grade Retaining wall work M-30 Grade Retaining wall M-30 Grade**

**Providing and cast in situ C.C. in grade M-30 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 inducing scaffolding centering formwork, needle vibrated consolidation, curing and hydraulic testing etc. complete (excluding cost of reinforcement) up to 6 meter height /depth Av. G.L. for all water retaining structures**

- A: Flat bottom slabmoor slab/slab with shutterino
- B: Above 15 cm to 20 cm
- C: Above 25 cm

All RCC work is to be carried out through ready mix design as approved by engineer-in-charge.

1.1 Design Submissions

Complete detailed design calculations of foundations and superstructure together with general arrangement drawings and explanatory sketches shall be submitted to Addl. City Engineer. Separate calculations for foundations or superstructures

submitted independent of each other shall be deemed to be incomplete and will not be accepted by Addl. City Engineer.

The design considerations described hereunder establish the minimum basic requirements of plain and reinforced concrete structures, masonry structures and structural steel works. However, any particular structure shall be designed for the satisfactory performance of the functions for which the same is being constructed. The Contractor shall also take care to check the stability of partly completed structures.

## 1.2 Design Standards

All designs shall be based on the latest Indian Standard (I.S.) Specifications or Codes of Practice. The design standards adopted shall follow the best modern engineering practice in the field based on any other international standard or specialist literature subject to such standard reference or extract of such literature in the English language being supplied to and approved by Addl. City Engineer. In case of any variation or contradiction between the provisions of the I.S. Standards or Codes and the specifications given along with the submitted tender document, the provision given in this Specification shall be followed.

All reinforced concrete structural design shall generally conform to the following publications of the Indian Standards Institution :

|           |  |
|-----------|--|
| I.S. 456  | Code of Practice for plain and reinforced concrete                                 |
| I.S. 875  | Code of Practice for design loads for buildings and structures<br>(Part 1 to 5 )   |
| I.S. 3370 | Code of Practice for concrete structures for the storage of liquids (Part I to IV) |
| I.S. 1893 | Criteria for earthquake resistant design of structures                             |
| I.S. 2974 | Code of Practice for design and construction of machine foundations (Part 1 to 4)  |

All structural steel design shall generally conform to the following publications of the Indian Standards Institution:

|           |  |
|-----------|--|
| I.S. 800: | Code of Practice for general construction in steel                       |
| I.S. 806: | Code of Practice for use of steel tubes in general building construction |

## 1.3 Design Life

The design life of all structures and buildings shall be 60 years.

## 1.4 Design Loading

All buildings and structures shall be designed to resist the worst combination of the following loads / stresses under test and working conditions; these include dead load, live load, wind load, seismic load, stresses due to temperature changes, shrinkage and creep in materials, dynamic loads, impact load and other specific loads.

### 1.4.1 Dead Load

This shall comprise all permanent construction including walls, floors, roofs, partitions, stairways, fixed service equipment and other items of machinery.

The following minimum loads shall be considered in design of structures :

|   |  |
|---|--|
| Weight of water   | 9.81 kN/m <sup>3</sup>                     |
| Weight of soil (irrespective of strata available at site and type of soil used for filling etc). However, for checking stability against uplift, actual weight of soil as determined by field test shall be considered. | 20.00 kN/m <sup>3</sup>                    |
| Weight of plain concrete  | 24.00 kN/m <sup>3</sup>                    |
| Weight of reinforced concrete   | 25.00 kN/m <sup>3</sup>                    |
| Weight of brickwork (exclusive of plaster)  | 22.00 N/m <sup>2</sup> per mm thickness of |
| Weight of plaster to masonry surface  | 18.00 N/m <sup>2</sup> per mm thickness    |
| Weight of granolithic terrazzo finish or rendering screed, etc.   | 24.00 N/m <sup>2</sup> per mm thickness    |

### 1.4.2 Live Load

Live loads shall be in general as per I.S. 875. However, the following minimum loads shall be considered in the design of structures:

- i) Live load on roofs (accessible) : 1.50 kN/m<sup>2</sup>  
(Non-accessible) : 0.75 kN/m<sup>2</sup>
- ii) Live load on floors supporting equipment such as pumps, blowers, compressors, valves, etc. : 10.00
- iii) Live load on all other floors walkways, stairways and platforms. : 5.00 kN/m<sup>2</sup>

In the absence of any suitable provisions for live loads in I.S. Codes or as given above for any particular type of floor or structure, assumptions made must receive the approval of Addl. City Engineer prior to starting the design work. Apart from the specified live loads or any other load due to material stored, any other equipment load or possible overloading during maintenance

or erection / construction shall be considered and shall be partial or full whichever causes the most critical condition.

#### 1.4.3 Wind Load

Wind loads shall be as per I.S. 875.

#### 1.4.4 Earthquake Load

This shall be computed as per I.S. 1893 considering earthquake 2001. An importance factor appropriate to the type of structure shall be considered for design of all the structures.

#### 1.4.5 Dynamic Load

Dynamic loads due to working of items such as pumps, blowers, compressors, switch gears, travelling cranes, etc. shall be considered in the design of structures as per manufacturer's data.

### 1.5 Joints

Movement joints such as expansion joints, complete contraction joints, partial contraction joints and sliding joints shall be designed to suit the structure. However, contraction joints shall be provided at specified locations spaced not more than 7.5 m in both right angle directions for all walls and rafts.

Expansion joints of suitable gap at suitable intervals not more than 30 m shall be provided in all walls, floors and roof slabs of water retaining structures.

Construction joints shall be provided at right angles to the general direction of the member. The locations of construction joints shall be decided on convenience of construction. To avoid segregation of concrete in walls, horizontal construction joints are normally to be provided at every 2-m height. PVC water-stops of 150 mm width shall be used for walls and 230 mm width for base slabs. Alternatively contractor can use G.I. Sheets of 18 gauge and 200 mm wide.

Expansion joints for non-liquid retaining structures shall be provided as per IS 3414.

### 1.6 Design Conditions for Underground or Partly Underground Liquid Retaining Structures

All underground or partly underground liquid containing structures shall be designed for the following conditions:

- (i) Liquid depth to be considered up to full height of wall and no relief due to soil pressure from other side to be considered.
- (ii) Structure empty condition (i.e., empty of liquid, any material, etc.): full earth pressure with saturation and surcharge pressure wherever applicable, to be considered.

- (iii) Partition wall between dry sump and wet sump : to be designed for full liquid depth up to full height of wall.
- (iv) Partition wall between two compartments : to be designed as one compartment empty and other full for both the directions.
- (v) Structures shall be designed for uplift in empty conditions with no live load with the appropriate water table.
- (vi) Walls shall be designed under operating conditions to resist earthquake forces from earth pressure mobilization and dynamic water loads.
- (vii) Underground or partially underground structures shall also be checked against stresses developed due to any combination of full and empty compartments with appropriate ground/uplift pressures from below to base slab. A minimum factor of 1.2 shall be ensured against uplift or floatation.
- (viii) For tender evaluation, the Soil bearing capacity is to be consider 10 MT/Sq.mt for sump and pump house foundation but on award of the work, contractor shall have to carry out detailed soil analysis & based on actual S.B.C. structure shall have to be designed.

## 1.7 Foundations

- (i) The minimum depth of foundations for all structures, equipment, buildings and frame foundations and load bearing walls shall be as per IS 1904.
- (ii) Maximum safe bearing capacity of soil strata shall be taken as indicated in geo-technical reports.
- (iii) Care shall be taken to avoid the foundations of adjacent buildings or structure foundations, either existing or not within the scope of this Contract. Suitable adjustments in depth, location and sizes may have to be made depending on site conditions. No extra claims for such adjustments shall be accepted by Addl. City Engineer.
- (iv) Special attention shall drawn to danger of uplift being caused by the ground water table. Localised water table shall be consider up to existing ground level. Also Ground water table of said plot shall be study in advance inclusive of rain water/other water deposition effect to foundation. That shall be consider in design and implementation of foundation and bottom slab of structure regarding absolute resistation against uplift pressure.
- (v) All ground level structural slab wherever applicable shall be designed for uplift forces due to ground water pressure.
- (vi) Where there is level difference between the natural ground level & the foundations of structure or floor slabs, this difference shall be filled up in the following ways:
  - In case of non-liquid retaining structures the natural top soil shall be removed till a firm strata is reached (minimum depth of soil removed shall be 500 mm.) and the level difference shall be made up by compacted backfill as per specifications. However the thickness of each layer shall not exceed 150 mm. The area of backfilling for floor slabs

shall be confined to prevent soil from slipping out during compaction. The safe bearing capacity of this well compacted backfilled soil shall not exceed 100 kN/sq.m.

- In case of liquid retaining structures, the natural top soil shall be removed as described above and the level difference shall be made up with Plain Cement Concrete (1:5:10)

#### 1.8 Design Requirements

The following are the design requirements for all reinforced or plain concrete structures:

- a) All binding and leveling concrete shall be a minimum 100 mm thick in concrete grade 1:3:6.
- b) All water retained structure are make M-30 grade mix concrete with a maximum 20 mm aggregate size for footings and base slabs and all other structural members. The structures shall have to be designed as per IS : 3370 (Part I-IV).
- c) The reinforced concrete for water retaining structures for M-30 grade mix concrete shall have a minimum cement content of  $410 \text{ kg/m}^3$  with a maximum 20 mm size aggregate as per IS : 3370 (Part I-IV).
- d) The minimum reinforcement for water retaining structures in each direction should be 0.35% of cross section. The minimum clear cover to all reinforcement including stirrups and links shall be 50 mm for all water retaining structures.
- e) All buildings shall have a minimum 1 metre wide, 100 mm thick plinth protection paving in M15 grade concrete or stone slabs/tiles. All plinth protection shall be supported on well compacted strata.
- f) Any structure or pipeline crossing below roads shall be designed matching classification of road (anything from Class A to AA of IRC loading )
- g) The bridges & bridge supporting structures shall be designed to safely withstand the loading.
- h) All pipes & conduits laid below the structural plinth & road works shall be embedded in reinforced concrete of grade M15 of minimum thickness 150 mm.
- i) Approved quality water proofing compound (chloride free) shall be added during concreting of all liquid containing structure in the proportions specified by manufacturer or 2 % by weight of cement whichever is higher.

- The wall and floor panels shall be poured in sequential order with a minimum time gap of 4 days.

The following minimum thickness shall be used for different reinforced concrete members, irrespective of design thickness:

|  |          |
|--|----------|
| (i) Walls for liquid retaining structures                                  | : 250 mm |
| (ii) Roof slabs for liquid retaining structures<br>(other than flat slabs) | : 150 mm |
| (iii) Bottom slabs for liquid retaining structures                         | : 200 mm |
| (iv) Floor slabs including roof slabs, walkways,<br>canopy slabs           | : 100 mm |
| (v) Walls of cables / pipe<br>trenches,<br>underground pits etc.           | : 125 mm |
| (vi) Column footings   | : 300 mm |
| (vii) Parapets, chajja   | : 100 mm |
| (viii) Precast trench cover  | : 75 mm  |

- In Mix design, the water cement ratio should not exceed 0.45. The exposer condition to be considered severe as chlorinated water is to be stored.
- The inside surface of the container of ESR and GSR shall be provided 20 mm thick water proof cement mortar plaster in CM 1:3 whereas outside surface of the GSR shall be sand faced in both admixture for water proofing comply to BIS shall add in plastering works as per guidelines of design and engineer in charge and that of all surfaces of ESR i.e. container, shaft, etc. shall be exposed finished.

#### 1.9 Materials in General

The term "materials" shall mean all materials, goods and articles of every kind whether RAW, processed or manufactured and equipment and plant of every kind to be supplied by the Contractor for incorporation in the Works.

Except as may be otherwise specified for particular parts of the works the provision of clauses in "Materials and Workmanship" shall apply to materials and workmanship for any part of the works.

All materials shall be new and of the kinds and qualities described in the Contract and shall be at least equal to approved samples.

As soon as practicable after receiving the order to commence the Works, the Contractor shall inform Addl. City Engineer of the names of the suppliers from whom he proposes to obtain any materials but he shall not place any order without the approval of Addl. City Engineer which may be withheld until samples have been submitted and satisfactorily tested. The Contractor shall thereafter keep Addl.

City Engineer informed of orders for and delivery dates of all materials.

Materials shall be transported, handled and stored in such a manner as to prevent deterioration, damage or contamination failing which such damaged materials will be rejected and shall not be used on any part of the Works under this contract.

#### 1.10 Samples and Tests of Materials

The Contractor shall submit samples of such materials as may be required by Addl. City Engineer and shall carry out the specified tests directed by Addl. City Engineer at the Site, at the supplier's premises or at a laboratory approved by Addl. City Engineer. Addl. City Engineer may appoint separate third party inspection for the material testing to ensure the quality of the work. The Contractor shall replace the defective material as an outcome of these tests.

Samples shall be submitted and tests carried out sufficiently early to enable further samples to be submitted and tested if required by Addl. City Engineer.

The Contractor shall give Addl. City Engineer seven days' notice in writing of the date on which any of the materials will be ready for testing or inspection at the supplier's premises or at a laboratory approved by Addl. City Engineer. Representative of Addl. City Engineer shall attend the test at the appointed place within seven days of the said date on which the materials are expected to be ready for testing or inspection according to the Contractor, failing which the test may proceed in his absence unless instructed by Addl. City Engineer to carry out such a test on a mutually agreed date in his presence. The Contractor shall in any case submit to Addl. City Engineer's Representative within seven days of every test such number of certified copies (minimum six) of the test results as Addl. City Engineer may require.

Approval by Addl. City Engineer as to the placing of orders for materials or as to samples or tests shall not prejudice any of Addl. City Engineer's powers under the Contract.

The provisions of this clause shall also apply fully to materials supplied under any nominated sub-contract.

#### 1.11 Standards

Materials and workmanship shall comply with the relevant Indian Standards (with amendments) current on the date of submission of the tender. All the governing items, materials, goods and equipments shall bear ISO-9001-2000 certification.

Where the relevant standard provides for the furnishing of a certificate to Addl. City Engineer, at his request, stating that the materials



supplied comply in all respects with the standard, the Contractor shall obtain the certificate and forward it to Addl. City Engineer.

The specifications, standards and codes listed below are considered to be part of this Bid specification. All standards, specifications, codes of practices referred to herein shall be the latest editions including all applicable official amendments and revisions.

In case of discrepancy between the Bid Specification and the Standards referred to herein, the Bid Specification shall govern.

a) **Materials**

|           |  |
|-----------|--|
| IS : 269  |  |
| IS : 383  | Specification for coarse and fine aggregates from natural sources for concrete   |
| IS : 428  | Specification for distemper, oil emulsion, colour as required  |
| IS : 432  | Specification for mild steel and medium tensile steel bars and hard drawn steel wire for concrete reinforcement (Parts 1 & 2 ) |
| IS : 455  | Specification for Portland slag cement   |
| IS : 458  | Specification for precast concrete pipes(with and without reinforcement)   |
| IS : 650  | Specification for standard sand for testing of cement  |
| IS : 651  | Specification for salt glazed stoneware pipes and fittings   |
| IS : 777  | Specification for glazed earthenware tiles   |
| IS : 808  | Specification for dimensions for hot rolled steel beam, column, channel and angle sections                                     |
| IS : 814  | Specification for covered electrodes for manual metal arc welding of Carbon and Carbon Manganese steel                         |
| IS : 1003 | Specification for timber paneled and glazed shutters(Parts 1 & 2)  |
|           | Specification for steel doors, windows and ventilators   |
| IS : 1038 |  |
| IS : 1077 | Specification for common burnt clay building bricks  |
| IS : 1398 | Specification for packing paper, water proof, bitumen laminated  |
| IS : 1489 | Specification for Portland pozzolana cement (Parts 1&2)  |
| IS : 1566 | Specification for hard drawn steel wire fabric for concrete reinforcement  |
| IS :1580  | Specification for bituminous compounds for water proofing and caulking purposes  |
| IS : 1786 | Specification for high strength deformed steel bars and wires for concrete reinforcement                                       |

- IS : 1852 Specification for rolling and cutting tolerances for hot rolled  
 IS : 1948 steel products  
 Specification for aluminium doors, windows and ventilators
- IS : 1977 Specification for structural steel (ordinary quality)  
 IS : 2062 Specification for steel for general structural purposes  
 IS : 2185 Specification for concrete masonry units (Parts 1 & 2)  
 IS : 2202 2) Specification for wooden flush door shutters (Parts 1 & 2)
- IS : 2645 Specification for integral cement water proofing compounds
- IS : 2750 Specification for steel scaffoldings  
 IS : 2835 Specification for flat transparent sheet glass  
 IS : 3384 Specification for bitumen primer for use in waterproofing  
 IS : 3502 and damp roofing  
 Specification for steel chequered plates  
 IS : 4021 Specification for timber door, window and ventilator frames
- IS : 4350 Specification for concrete porous pipes for under drainage  
 IS : 4351 Specification for steel door frames  
 IS : 4990 Specification for plywood for concrete shuttering work  
 IS : 8112 Specification for 43 grade ordinary Portland cement  
 IS : 9862 Ready mixed paint, brushing, bituminous, black, lead free, acid, alkali, water and chlorine resisting
- IS : 10262 Recommended guidelines for concrete mix design  
 IS : 12269 Specification for 53 grade ordinary Portland cement  
 IS : 12330 Specification for sulphate resisting Portland cement  
 IS : 12709 Glass fibre reinforced plastics (GRP) pipes, joints and fittings
- b) Tests for use for potable water supply
- IS : 516 Method of test for strength of concrete  
 IS : 1182 Recommended practice for radiographic examination of fusion welded butt joints in steel plates
- IS : 1199 Methods of sampling and analysis of concrete  
 IS : 2386 Methods of test for aggregates for concrete(Parts 1 to 8)  
 IS : 2720 Methods of test for soils (Parts 1 to 39)  
 IS : 3025 Methods for sampling and test (physical and chemical) for water and wastewater (Parts 1 to 44)
- IS : 3495 Method of test for burnt clay building bricks(Parts 1 to 4)  
 IS : 3613 Acceptance tests for wire flux combination for submerged arc welding
- IS : 4020 Methods of tests for wooden flush doors Type tests  
 IS : 4031 Methods of physical tests for hydraulic cement (Parts 1 to 15)
- IS : 5807 Method of test for clear finishes for wooden furniture (Parts

1 to 6)  
 IS : 7318 Approval tests for welders when welding procedure approval is not required (Parts 1 and 2)

c) Codes of Practice

IS :456 Code of practice for plain and reinforced concrete  
 IS : 783 Code of practice for laying of concrete pipes  
 IS : 800 Code of practice for general construction in steel  
 IS : 806 Code of practice for use of steel tubes in general building construction  
 IS : 816 Code of practice for use of metal arc welding for general construction in mild steel  
 IS : 817 Code of practice for training and testing of metal arc welders  
 IS : 875 Code of practice for design loads (other than earthquake) for building structures(Parts 1 to 5)  
 IS : 1081 Code of practice for fixing and glazing of metal (steel and aluminum) doors, windows and ventilators  
 IS : 1172 Code of practice for basic requirements for water supply, drainage and sanitation  
 IS : 1477 Code of practice for painting of ferrous metals in buildings (Parts 1 & 2)  
 IS : 1597 Code of practice for construction of stone masonry (Parts 1 &2)  
 IS : 1742 Code of practice for building drainage  
 IS : 1893 Criteria for earthquake resistant design of structures  
 IS : 2065 Code of practice for water supply in buildings  
 IS : 2212 Code of practice for brickwork  
 IS : 2338 Code of practice for finishing of wood and wood based materials (Parts 1 & 2)  
 IS : 2394 Code of practice for application of lime plaster finish  
 IS : 2395 Code of practice for painting, concrete, masonry and plaster surfaces (Parts1 & 2)  
 IS : 2470 Code of practice for installation of septic tanks (Parts 1 & 2)  
 IS : 2502 Code of practice for bending and fixing of bars for concrete reinforcement  
 IS : 2571 Code of practice for laying in situ cement concrete flooring  
 IS : 2595 Code of practice for radiographic testing  
 IS : 2751 Recommended practice for welding of mild steel plain and deformed bars for reinforced construction  
 IS : 2974 Code of practice for design and construction of machine

- foundations (Parts 1 to 4)
- IS : 3114 Code of practice for laying of Cast Iron pipes
- IS : 3370 Code of practice for concrete structures for the storage of liquids (Parts 1 to 4)
- IS : 3414 Code of practice for design and installation of joints in buildings
- IS : 3558 Code of practice for use of immersion vibrators for consolidating concrete
- IS : 3658 Code of practice for liquid penetrant flaw detection
- IS : 3935 Code of practice for composite construction
- IS : 4000 Code of practice for High strength bolts in steel structures
- IS : 4014 Code of practice for steel tubular scaffolding (Parts 1 & 2)
- IS : 4111 Code of practice for ancillary structures in sewerage system (Parts 1 to 4)
- IS : 13920 Code of practice for laying of glazed stoneware pipes
- IS: 4326 Code of practice for Earthquake Resistant Design and Construction of Buildings
- IS : 4353 Recommendations for submerged arc welding of mild steel and low alloy steels
- IS : 5329 Code of practice for sanitary pipe work above ground for buildings
- IS : 5334 Code of practice for magnetic particle flaw detection of welds
- IS : 5822 Code of practice for laying of welded steel pipes for water supply
- IS : 7215 Tolerances for fabrication of steel structures
- IS : 9595 Recommendations for metal arc welding of carbon and carbon manganese steels
- IS : 10005 SI units and recommendations for the use of their multiples and of certain other units

**d) Construction Safety**

- IS : 3696 Safety code for scaffolds and ladder (Parts 1 & 2)
- IS : 3764 Safety code for Excavation work
- IS : 7205 Safety code for erection of structural steel work

**1.12 Orientation**

The works shall be laid out within the confines of the Site in order to interface to the existing infrastructure of roadways and inlet and outlet pipe work

Underground services requiring to be relocated in order to accommodate the proposed site layout shall, with the approval of Addl. City Engineer, be relocated by the Contractor.

**1.13 Valve Chambers**

- a) All valve chambers are to be of an adequate size to facilitate maintenance and operation. The base slab of valve chambers shall

slope towards a sump pit from which water can be pumped to keep the chamber dry. All valve chambers shall be constructed in M15 grade reinforced concrete. Chambers shall have removable cast iron / reinforced concrete covers, as appropriate, approach ladders and valve supports.

#### 1.14 Landscaping

The pump house plot site shall be landscaped once the Works are substantially complete. The landscaping scheme shall be submitted and got approved from Addl. City Engineer prior to start of actual work.

Landscaping shall include planting of suitable trees and development of grassed areas. Landscaping in general shall meet ecological and environmental conditions of the site. Road widths shall determine the size of the tree height and spread to be selected for planting. Trees suitable for local conditions shall be selected. Medicinal and fruit trees shall be avoided.

### Ready Mix Concrete:

#### Form Work

The form work shall conform to the shape lines and dimension as shown on the plans and be so constructed as to remain sufficiently rigid during the placing and compacting of the concrete. Adequate arrangements shall be made by the contractor to safe-guard against any settlement of the form work during the course of concreting and after concreting. The form work of shuttering, centering, scaffolding bracing etc. shall be as per design.

Cleaning & Treatment of forms :- All rubbish, particularly chippings shaving and saw dust shall be removed from the interior of the Form before the concrete is placed and the form work in contact with concrete shall be cleaned and thoroughly Welled or treated. The surface shall be then coated with soap solution applied before concreting is done. Soap solution for the purpose shall be prepared by dissolving yellow soap in water to get consistency of Paint. Alternatively a coat of raw linseed oil or form oil of approved manufacture may be applied in' case steel Shuttering is used. Soap solution or raw linseed oil shall be applied after thoroughly cleaning the surface. Care shall be taken that the coating does not get on construction joint surface and reinforcement bars.

Stripping time:- 1 In normal circumstances and where ordinary cement is used forms may be struck after expiry of following periods. :

In normal circumstances and where ordinary cement is used forms may be struck after expiry of following periods. :

- (a) Sides of walls columns and vertical faces of beam -24 to 48 hours.
- (b) Beam softies; (Props left under) -7 days.
- (c) Removal of props slabs.
  - (i) Slabs spanning up to4.5m. ----- 7 days.

- (ii) Spanning over 4.5 m. - -----14 days.
- (d) Removal of props to beams and Arches
  - (i) Spanning up to 6----- 14 days,
  - (ii) Spanning over 6 m. ----- 21 days

Procedure when removing the form work:- All form work shall be removed without such shock or vibrations as would damage the reinforced concrete surface. Before the softies form work and struts are removed, the Softies and the concrete surface shall be exposed' where necessary in order to ascertain that the concrete has sufficiently hardened.

#### **Centering:**

The centering to be provided shall be got approved. It shall be sufficiently strong to ensure absolute safety of the form work and concrete work before, during and after pouring concrete. Watch should be kept to see that behavior of centering and form work is satisfactory during concreting. Erection should also be such that it would allow removal of forms in proper sequence without damaging either the concrete or the forms to be removed.

The props of centering shall be provided on firm foundation or base of sufficient strength to carry the loads without any settlement. The centering and form work shall be inspected and approved by the Engineer-in-charge before Concreting. But this will not relieve the contractor of his responsibility for strength, adequacy and safety of Form work and centering. If there is a failure of form work or centering, contractor shall be responsible for the Damages to the work, injury to life and damage to property.

Scaffolding: AH scaffolding, hoisting arrangements and ladders etc. required for the facilitating of concreting shall be provided and removed on completion work by contractor at his own expense. The scaffolding, hoisting Arrangements and ladders etc. shall be strong enough to withstand all live, dead and impact loads expected.

### **3.7 Concrete**

#### **3.7.1 General**

In concrete grade M15, M20, M25, M30 etc. the number represents the specified characteristic compressive strength of 150 mm cube at 28 days, expressed in N/sq. mm as per IS: 456. Concrete in the works shall be "DESIGN MIX CONCRETE" or "NOMINAL MIX CONCRETE". All concrete works of grade M5, M7.5 and M10 shall be NOMINAL MIX CONCRETE whereas all other grades, M15 and above, shall be DESIGN MIX CONCRETE.

#### **3.7.2 Design Mix Concrete**

##### **(a) Mix Design & Testing**

For design mix concrete, the mix shall be designed according to IS: 10262 and SP: 23 to provide the grade of concrete having the required workability and characteristic strength not less than appropriate values given in IS: 456. The design mix shall in addition to such that it is cohesive and does not segregate and should result in dense and durable concrete and also capable of giving the finish as specified. For water retaining structure, the mix shall also result in water tight concrete. The Contractor

shall exercise great care while designing the concrete mix and executing the workers to achieve the desired result.

Unless otherwise specially mentioned, the minimum cement content and maximum water cement ratio for Design Mix Concrete shall be as given below :

| Grade of Concrete | Minimum cement Content in Kg/Cum of | Maximum |
|-------------------|-------------------------------------|---------|
| M20               | 360                                 | 0.55    |
| M25               | 380                                 | 0.50    |
| M30               | 400                                 | 0.45    |

The minimum cement content stipulated above shall be adopted irrespective of whether the Contractor achieves the desired strength with less quantity of cement. The CONTRACTOR's quoted rates for concrete shall provide for the above eventuality and nothing extra shall become payable to the CONTRACTOR in this account. Even in the case where the quality of cement required is higher than that specified above to achieve desired strength based on an approved mix design, nothing extra shall become payable to the CONTRACTOR.

It shall be the Contractor's sole responsible to carry out the mix designs at his own cost. He shall furnish to the Engineer-in-charge at least 30 days before concreting operations, a statement of proportions proposed to be used for the various concrete mixes ascertained on 150 mm cubes as per IS:516 shall comply with the requirements of IS:456.

| Grade of Concrete | Minimum compressive strength N/Sq.mm | Specified characteristic compressive |
|-------------------|--------------------------------------|--------------------------------------|
| M15               | 10.0                                 | 15.0                                 |
| M20               | 13.5                                 | 20.0                                 |
| M25               | 17.0                                 | 25.0                                 |
| M30               | 20.0                                 | 30.0                                 |
| M35               | 23.5                                 | 35.0                                 |
| M40               | 27.0                                 | 40.0                                 |

A range of slump which shall generally be used for various types of construction unless otherwise instructed by the Engineer-in-charge is given below:

| Structure/Member                                       | Slump in |         |
|--|----------|---------|
|  | Maximum  | Minimum |
| Reinforced foundation walls and footings               | 75       | 25      |
| Plain footings, caissons and substructure walls        | 100      | 25      |
| Slabs, Beams and reinforced walls Pump & miscellaneous | 75       | 25      |
| Foundations  | 100      | 25      |
| Building Column  | 50       | 25      |
| Pavements  | 50       | 25      |
| Heavy mass construction                                | 50       | 25      |

**(b) Batching & Mixing of Concrete**

Proportions of aggregates and cement, as decided by the concrete mix design, shall be by weight. These proportions shall be maintained during subsequent concrete batching by means of weigh batchers capable of controlling the weights within one percent of the desired value. Amount of water added shall be such as to produce dense concrete of required consistency, specified strength and satisfactory workability and shall be so adjusted to account for moisture content in the aggregates. Water-cement ratio specified for use by the Engineer-in-charge shall be maintained. Each time the work stops, the mixer shall be cleaned out, and while recommencing, the first batch shall have 10% additional cement to allow for sticking in the drum.

Arrangement should be made by the Contractor to have the cubes tested in an approved laboratory or in field with prior consent of the Engineer-in-charge. Sampling and testing of strength and workability of concrete shall be as per IS: 1199, IS: 516 and IS: 3370.

**(c) Ready Mix Concrete**

Minimum cement consumption shall be as specified in tender document. However, necessary computer print out for consumption of all materials and admixtures if permitted shall be made available as and when required in any frequencies as directed by Engineer-in-charge.

Necessary slump requirements at the pouring places shall be made available with ready mix concrete.

Concrete mix shall be design for 33% higher strength than the grade of concrete specified. The proportions for ingredients chosen shall be such that concrete has adequate workability for condition prevailing on the work in question and can be properly compacted with the means available. Use of cementitious material like Fly ash etc. shall not be permissible.

Except where it can be shown to the satisfaction of the Engineer-in-charge that a supply of properly graded aggregate of uniform quality can be maintained till the completion of work, grading of aggregate should be strictly controlled. The different sizes shall be stocked in separate stock piles. Required quality of material shall be stock-piled several hours, preferably a day, before use. Grading of coarse and fine aggregate shall be checked as frequently as possible, frequency for a given job being determined by the Engineer-in-charge to ensure that the suppliers are maintaining the uniform grading as approved for samples use in the design mix.

The quantity of both cement and aggregate shall be determined by weight. Water shall either be measured by volume in calibrated tanks or weighed. All measuring equipment shall be maintained in a clean and serviceable condition. Their accuracy shall be periodically checked.

It is most important to keep the specified water – cement ratio constant and its correct value. To this end, the moisture content in both fine and



coarse aggregates shall be determined by the Engineer-in-charge according to the weather conditions. The amount of mixing water shall then be adjusted to compensate for variations in the moisture content. For the determination of moisture content in the aggregates, IS: 2386 (Part-III) shall be referred to. Suitable adjustments shall also be made in the weights of aggregates to allow for the variation in weights of aggregates due to variation in their moisture content.

The special Conditions / Specification regarding **Ready Mix Concrete** are as follows. The details like locations, capacity, experience, delivery schedule etc. of the **Ready Mix Concrete** agency shall be submitted by the successfully tenderer for prior approval of the undersigned.

The **Ready Mix Concrete** shall be conforming to IS :4926 with its latest amendments.

All the responsibility of **Ready Mix Concrete** i.e. procurement for all materials, operation of plant and machinery, transit mixers, pumping machineries relevant piping etc. shall be on the account of the contractor.

The Rajkot Municipal Corporation shall not be held responsible for any delay / damage / loss due to deployment of **Ready Mix Concrete** for this project.

The octroi or any other type of tax / cess for the **Ready Mix Concrete** shall have to be borne by the contractor as per prevailing rates. **Ready Mix Concrete** process shall be fully automatic and computerized.

When a transit mixer is used for transportation of concrete, no extra water should be added to the concrete from else where after initial introduction of mixing water from the batch, except when on arrival at the site of the work, the slump of the concrete is less than that specified : such additional water to bring the mixer under such pressure and direction of flow that requirements for uniformity are met.

**Records and certificates :**

The contractor shall keep from the manufacture batch records of the quantities by mass of all mixing and of the results of all tests. If required by the Rajkot Municipal Corporation, the contractor shall furnish certificates, at agreed intervals, giving this information.

**The contractor shall supply the following information for guidance of the manufacturer :**

- The type of cement to be used
- Details Specification of aggregates to be used.
- Type of admixture to be used. If specified.
- Min. acceptable strength
- Slump of concrete or compaction factor
- Ages at which the test cubes or beams are to be tested and the frequency and number of test to be made.
- Any other requirement.

**Tolerance** : Unless otherwise agreed to between the Rajkot Municipal Corporation (RMC) and the contractor, the concrete shall be deemed to comply with the requirements of this, if these results of testes where applicable lie with in the tolerance specified below.

**Consistency of workability** : The slump average of two tests shall not differ from the specified value by + 10 mm for a specified slump of 75 mm. The compacting factor average of two tests shall be within + 0.03 of the value specified. If any other method of determining consistency to be used a suitable tolerance shall be agreed to be between the purchaser and the manufacture. The tests for consistency or workability shall be complete within 15 minutes of the time of receipt of the ready mix concrete at the site.

**Aggregate** : When tested in accordance with IS 2386 (Part-I) 1963, the quantity of aggregate larger than the max size specified by the purchaser shall not exceed 5% of the qty. of coarse aggregate and all such pass sieve of next higher size.

### 3.7.3 Nominal Mix concrete. (DELETED)

#### (a) Mix design and testing

Mix design and preliminary test are not necessary for Nominal Mix concrete. However works test shall be carried out as per IS : 456. Proportions for Nominal Mix Concrete and w/c ratio may be adopted as per Table 3 of IS : 456. However it will be the Contractor's role responsibility to adopt appropriate nominal mix proportions to yield the specified strength.

#### (b) Batching & Mixing of Concrete

Based on the adopted nominal mixes, aggregates shall be measured by volume. However cement shall be by weight only.

### 3.8 Formwork

formwork shall be all inclusive and shall consist of but not be limited to shores, bracing's sides of footing , walls, beams and columns, bottom of slabs etc. including ties, anchors, hangers, inserts, false work, wedges etc.

The design and engineering of the formwork as well its construction shall be the responsibility of the Contractor. However, if so desired by the Engineer-in-charge the DRAWING and calculating for the design of the formwork shall be submitted to the Engineer-in-charge for approval.

Formwork shall be designed to fulfill the following requirements:

- (a) Sufficiently rigid and tight to prevent loss of grout or mortar from the concrete at all stages and appropriate to the method of placing and compacting.
- (b) Made of suitable materials.

- (c) Capable of providing concrete of the correct shape and surface finish within the specified tolerance limits.
- (d) Capable of withstanding without deflection the worst combination of self weight, reinforcement and concrete weight, all loads and dynamics effect arising from construction and compacting activities, wind and weather forces.
- (e) Capable of easy striking out without shocks, disturbance or damages to the concrete.
- (f) Soffit forms capable of imparting a camber if required.
- (g) Soffit forms and supports capable of being left in position if required.
- (h) Capable of being cleaner and/or coated if necessary immediately prior to casting the concrete; design temporary openings where necessary for these purposes and to facilitate the preparation of construction joints.

The formwork may be of timber, plywood, steel, plastic or concrete depending upon the approval of the Engineer-in-charge. Timber of formwork shall be well seasoned, free sap, shakes, loose knots, worm holes, warps and other surface defects. Joints between formwork and formwork and between formwork and structures shall be sufficiently tight to prevent loss of slurry from concrete, using seals if necessary.

The faces of formwork coming in contact with concrete shall be cleaned and two coats of approved mould oil applied before fixing reinforcement. All rubbish, particularly chippings, sailings, sawdust, wire pieces cut etc. shall be removed from the interior of the forms before the concrete is placed. Where directed, cleaning of forms shall be done by blasting with a jet of compressed air at no extra cost.

Forms intended for reuse shall be treated with care. Forms that have deteriorated shall not be used. Before reuse, all forms shall be thoroughly scraped, cleaned, nails removed, holes suitably plugged, joints repaired and warped lumber replaced to the satisfaction of the Engineer-in-charge. The Contractor shall equip himself with enough shuttering to allow for wastage so as to complete the job in time.

Permanent formwork shall be checked for its durability and compatibility with adjoining concrete before it is used in the structure. It shall be properly anchored to the concrete.

Wire ties passing through beams, columns and walls shall not be allowed. In their place bolts passing through sleeves shall be used. Formwork spacers left in situ shall not impair the desired appearance or durability of the structure by causing spalling, rust staining or allowing the passage of moisture.

For liquid retaining structures, sleeves shall not be provided for through bolts nor shall through bolts be removed if provided. The bolts, in the latter case, shall be cut at 25 mm depth from the surface and the hole made good by cement mortar of the same proportion as the concrete just after striking the formwork.

Where specified all corners and angles exposed in the finished structure shall have chamfers or fillets of 20 mm X 20 mm size.

Form for substructure may be omitted when, in the opinion of the Engineer-in-charge, the open excavation is firm enough (in hard non-porous soils) to act as a form, such excavation shall be larger, as approved by the Engineer-in-charge that required as per DRAWING to compensate for irregularities in excavation.

The Contractor shall provide adequate props carried down to a firm bearing without overloading any of the structure.

The shuttering for beams and slabs shall be so erected that the side shuttering of beams can be removed without disturbing the bottom shuttering. If the shuttering for a column is erected for the full height of the column, one side shall be build up in sections as placing of concrete proceeds or windows left for placing concrete from the side to limit the drop of concrete to 1.0 m or as approved by the Engineer-in-charge. The Contractor shall temporarily and securely fix items to be cast (embodiment's/inserts) in a manner that will not hinder the striking of forms or permit loss of grout.

Formwork showing excessive distortion, during any stage of construction, shall be repositioned and strengthened. Placed concrete affected by faulty formwork, shall be entirely removed and formwork corrected prior to placement of new concrete at Contractor's cost.

The striking time for formwork shall be determined based on the following requirement:

- a) Development of adequate concrete strength;
- b) Permissible deflection at time of striking form work;
- c) Curing procedure employed-its efficiency and effectiveness;
- d) Subsequent surface treatment to be done;
- e) Prevention of thermal cracking at re-entrant angles;
- f) Ambient temperatures;
- g) Aggressiveness of the environment (unless immediate adequate steps are taken to prevent damage to the concrete).

Under normal circumstances (generally where temperatures are above 20<sup>o</sup>C) forms may be struck after expiry of the time period given in IS:456 unless approved otherwise by Engineer-in-charge, it is the Contractor's responsibility to ensure that forms are not struck until the concrete has developed sufficient strength to support itself, does not undergo excessive deformation and resist surface damage and any stresses arising during the construction period.

### 3.9 Reinforcement

#### Workmanship

Reinforcement bars supplied bent or in coils shall be straightened cold without damage. No bending shall be done when ambient temperature is below 5°C. Local warming may be permitted if steel is kept below 5°C.

All bars shall be accurately bent gradually and according to the size and shapes shown on the DRAWING schedules or as directed by Engineer-in-charge.

Re-bending or straightening incorrectly bent bars shall not be done without the approval of the Engineer-In-Charge.

Reinforcement shall be accurately fixed and maintained firmly in the correct position by the use of blocks, spacers, chairs, binding wire etc. to prevent displacement during placing and compaction of concrete. The tied in place reinforcement shall be approved by the Engineer-in-charge prior to concrete placement. Spacers shall be of such materials and design as will be durable, not lead to corrosion of the reinforcement and not cause spalling of the concrete cover.

Binding wire shall be 16 gauges soft annealed wire. End of the binding wire shall be bent away from the concrete surface and in no case encroach into the concrete cover.

Substitution of reinforcement; laps/splices not shown on Drawing shall be subject to Engineer-in-charge's approval.

### 3.10 Tolerances

Tolerance for formwork and concrete dimensions shall be as per IS: 456 unless specified otherwise.

Tolerances specified for horizontal or vertical building lines or footings shall not be construed to permit encroachment beyond the legal boundaries.

The formwork shall be designed and constructed to the shapes, lines and dimensions shown on the Drawings within the tolerances given below:

|     |   |   |
|-----|---|---|
| (a) | Deviation from specified dimensions of cross section of columns and beams   | -6 mm   |
| (b) | Deviations from dimensions of footings (tolerances apply to concrete dimensions only, not to positioning of vertical reinforcing steel or dowels) | +12 mm  |
| 1.  | Dimension in plan   | -12<br>+50 mm   |
| 2.  | Eccentricity  | 0.02 times the width of the footing in the direction of deviation but not more than |

|    |           |                                     |
|----|-----------|-------------------------------------|
| 3. | Thickness | +0.05 times the specified thickness |
|----|-----------|-------------------------------------|

### 3.11 Preparation Prior to Concrete

#### Placement

Before concrete is actually placed in position, the inside of the formwork shall be cleaned and mould oil applied, insert and reinforcement shall be correctly positioned and securely held, necessary openings, pockets, etc. provide.

All arrangements formwork, equipment and proposed procedure, shall be approved by the Engineer-in-charge, Contractor shall maintain separate Pour card for each pour as per the format enclosed.

### 3.12 Transporting, Placing and Compacting Concrete

Concrete shall be transported from the mixing plant to the formwork with minimum time lapse by methods that shall maintain the required workability and will prevent segregation, loss of any ingredients or ingress of foreign matter or water.

In all cases concrete shall be deposited as nearly as practicable directly in its final position. To avoid segregation, concrete shall not be rehandled or cause to flow. For locations where direct placement is not possible and in narrow forms the Contractor shall provide suitable drops and "Elephant Trunks". Concrete shall not be dropped from a height of more than 1.0 m

Concrete shall not be placed in flowing water. Under water, concrete shall be placed in position by termite or by pipeline from the mixer and shall never be allowed to fall freely through the water.

#### Concreting under water :

When it is necessary to deposit concrete under water, the methods, equipments, and materials of the mix to be used shall be got approved from the Engineer-in-charge before any work is started. Such concreting be considered as controlled concrete i.e. design mix.

Concrete shall not be placed under temperature below 50 degree centigrade. The temperature of concrete, when deposited, shall be however not less than 50 centigrade nor more than 40 degree centigrade.

Concrete to be placed under water shall contain ten percent more cement than that required for the same mix placed in the dry.

The slump shall not be less than 100 mm nor more than 180 mm. The slump shall be tested as per I. S. 516.

Coffer-dams or forms shall be water tight to ensure still water conditions if practicable and in any case to reduce the flow of water to less than 3 meters per minute through the space into which concrete is to be deposited. The forms in still water shall be sufficiently tight to prevent loss of mortar through the joints in the walls. Pumping shall not be done while concrete is being placed, or until 24 hours thereafter.

Concrete shall continue to be deposited until it has been brought to the required height. The top surface shall always be kept as wet as far as possible and formation of seams avoided. For concrete any one of the following methods may be used.

**(a) Tremie :**

When concrete is to be deposited under water by means of tremie, the top section of the tremie shall be a hopper large enough to hold one full batch mix or the entire contents of the transporting bucket. The tremie pipe shall not be less than 200 mm dia. and also shall be large enough to allow a free flow of concrete and strong enough to with stand the external pressure of water in which it is suspended, even if a partial vacuum develops inside the pipe. Preferably, flanged steel pipe of adequate strength for the job shall be used. A separate lifting device shall be provided for each tremie pipe with its hopper at the upper end. Unless the lower end of the pipe is equipped with an approved automatic check valve, the upper end of the pipe shall be plugged with a wedging by use of gunny sacks or other approved material before delivering the concrete to the tremie pipe through the hopper, so that when the concrete is forced down from the hopper to the pipe, it will force the plug (and along with it any water in the pipe) down the pipe and out of the bottom end. Thus establishing a continuous stream of concrete. It will be necessary, to raise slowly the tremie in the order to allow a uniform flow of concrete, but it shall not be emptied so that water enters above the concrete in the pipe.

At all times after the placing of concrete is started and until all the requirement quantity has been placed, the lower end of the tremie pipe shall be kept below the top surface of the plastic instead of flowing out over the surface, and thus avoid formation of layers of laitance. If the charge in the tremie is lost while depositing, the tremie shall be raised above the concrete surface, and unless sealed by a check valve it shall be re-plugged at the top end, as at the beginning before refilling for depositing further concrete.

**(b) Drop Bottom Bucket :**

The top of the bucket shall be closed. The bottom doors shall move freely downward and outward when tripped. The bucket shall be filled completely and lowered slowly to avoid backwash. It shall not be dumped until it rests on the surface upon which the concrete is to be deposited and when discharged shall be withdrawn slowly until well above the concrete.

To minimize the formation of laitance, great care shall be exercised to disturb the concrete as far as possible while it is being deposited.

**While placing concrete the Contractor shall proceeds as specified below and also ensure the following.**

- a) Continuously between construction joints and pre-determined abutments.
- b) Without disturbance to forms or reinforcement.
- c) Without disturbance to pies, ducts, fixing and the like to be cast in: ensure that such items are securely fixed. Ensure that concrete cannot enter open ends of pipes and conduits etc.
- d) Without dropping in a manner that could cause segregation or shock.
- e) In deep pours only when the concrete and formwork designed for this purpose and by using suitable chutes or pipes.
- f) Do not place if the workability is such that full compaction cannot be achieved.
- g) Without disturbing the unsupported sides of excavations; prevent contamination of concrete with earth. Provide sheeting if necessary. In supported excavations, withdraw the lining progressively as concrete is placed.
- h) If placed directly on to hardcore or any other porous material, dampen the surface to reduce loss of water from the concrete.;
- i) Ensure that there is no damage or displacement to sheet membranes.
- j) Record the time and location of placing structural concrete.

Concrete shall normally be compacted in its final position within thirty minutes of leaving the mixer. Concrete shall be compacted during placing with approved vibrating equipment without causing segregation until it forms a solid mass free from voids thoroughly worked around reinforcement and embedded fixtures and into all corners of the formwork. Immersion vibrators shall be inserted vertically at points not more than 450 mm apart and withdrawn slowly till air bubbles cease to come to the surface, leaving no voids. When placing concrete in layers advancing horizontally, care shall be taken to ensure adequate vibration blending and melting of the concrete between successive layers. Vibrators shall not be allowed to come in contact with reinforcement, formwork and finished surfaces after start of initial set. Over-vibration shall be avoided.

Concrete may be conveyed and placed by mechanically operated equipment after getting the complete procedure approved by the Engineer-in-charge. The slump shall be held to the minimum necessary for conveying concrete by this method. When concrete is to be pumped, the concrete mix shall be specially designed to suit pumping. Care shall be taken to avoid stoppages in work once pumping has started.

Except when placing with slip forms, each placement of concrete in multiple lift work shall be allowed to set for at least 24 hours after the final set of concrete before the start of subsequent placement. Placing shall stop when concrete reaches the top of the opening in walls or bottom surface of slab, in slab and beam construction, and it shall be resumed before concrete takes initial set but not until it has had to settle as approved by the Engineer-in-charge. Concrete shall be protected against damage until final acceptance.

### **3.13 Mass Concrete Works**

Sequence of pouring for mass concrete works shall be as approved by the Engineer- in- charge. The Contractor shall exercise great care to prevent



shrinkage cracks and shall monitor the temperature of the placed concrete if directed.

### 3.14 Curing

Curing and protection shall start immediately after the compaction of the concrete to protect it from:

- a) Premature drying out, particularly by solar radiation and wind;
- b) Leaching out by rain and flowing water;
- c) Rapid cooling during the first few days after placing;
- d) High internal thermal gradients;
- e) Low temperature or frost;
- f) Vibration and impact which may disrupt the concrete and interfere with its bond to the reinforcement.

All concrete, unless approved otherwise by the Engineer-in-charge shall be cured by use of continuous sprays or pounded water or continuously saturated coverings of sacking, canvas, hessian or other absorbent material for the period of complete hydration with a minimum of 7 days. The quality of curing water shall be the same as that used for mixing.

Where a curing membrane is approved to be used by the Engineer-in-charge, the same shall be of a non-wax base and shall not impair the concrete finish in any manner. The curing compound to be used shall be applied with spraying equipment capable of a smooth, even textured coat.

Curing may also be done by covering the surface with an impermeable material such as polyethylene, which shall be sealed and fastened.

### 3.15 Construction Joints and Keys

Construction joints will be shown on the DRAWING or as approved by the Engineer-in-charge. Concrete shall be placed without interruption until completion of work between construction joints. If stopping of concreting becomes unavoidable anywhere, construction joints shall be made with the approval of the Engineer-in-charge.

Dowels for concrete work, not likely to be taken up in the near future, shall be coated with cement slurry and encased in lean concrete as indicated on the DRAWINGS or as approved by the Engineer-in-charge.

Before resuming concreting on a surface which has not fully hardened, all laitance and loose stone shall be thoroughly removed by wire brushing/hacking and surface washed with high pressure water jet and treated with thin layer of cement slurry for vertical joints and horizontal layers.

When concreting is to be resumed on a surface which has not fully hardened, all laitance shall be removed by wire brushing the surface wetted, free water removed and a coat of cement slurry applied. On this, a layer of concrete not exceeding 150 mm thickness shall be placed and well rammed against the old work. Thereafter work shall proceed in the normal way.

### **3.16 Foundation Bedding**

All earth surfaces upon which or against which concrete is to be placed, shall be well compacted and free from standing water, mud or debris. Soft or spongy areas shall be cleaned out and back filled with either soil-cement mixture, lean concrete or clean sand compacted as approved by the Engineer-in-charge. The surfaces of absorptive soils shall be moistened.

Concrete shall not be deposited on large sloping rock surfaces. The rock shall be cut to form rough steps or benches by picking, barring or wedging. The rock surface shall be kept wet for 2 to 4 hours before concreting.

### **3.17 Finishes**

#### **3.17.1 General**

The formwork for concrete works shall be such as to give the finish as specified. The Contractor shall make good any unavoidable defects as approved consistent with the type of concrete and finish specified. Defects due to bad workmanship (e.g. damaged or misaligned forms, defectives or poorly compacted concrete) will not be accepted. The Contractor shall construct the formwork using the correct materials and meet the requirements of the design and to produce finished concrete to required dimension, plumbs, planes and finishes.

#### **3.17.2 Surface Finish Type F1**

The main requirement is that of dense, well compacted concrete. No treatment is required except repair of defective areas filling all form tie holes and cleaning up of loose or adhering debris. For surface below grade which will receive waterproofing treatment the concrete shall be free of surface irregularities which would interfere with proper and effective application of waterproofing material specified for use.

#### **3.17.3 Surface Finish Type F2**

The appearance shall be that of a smooth dense, well-compacted concrete showing the slight marks of well fitted shuttering joints. The Contractor shall make good any blemishes.

#### **3.17.4 Surface Finish Type F3**

This finish shall give an appearance of smooth, dense, well-compacted concrete with no shutter marks, stain free and with no discoloration, blemishes, arises, air holes etc. only lined or coated plywood with very tight joints shall be used to achieve this finish. The panel size shall be uniform and as large as practicable. Any minor blemishes that might occur shall be made good by the Contractor.

#### **3.17.5 Integral Cement Finish on Concrete Floor**

In all cases where integral cement finish on a concrete floor has been specified, the top layer of concrete shall be screeded off to proper level and tamped with tamper having conical projections so that the aggregate shall be forced below the surface. The surface shall be finished with a wooden float and a trowel with pressure. The finish shall be continued till the concrete reaches its initial set. No cement or cement

mortar finish shall be provided on the surface. Where specified, a floor hardener as approved by the Engineer-in-charge shall be supplied and used as recommended by the manufacturer.

### **3.18 Repair and Replacement of Unsatisfactory Concrete**

Immediately after the shuttering is removed, all the defective areas such as honeycombed surfaces, rough patches and holes left by form bolts etc. shall be inspected by the Engineer-in-charge who may permit patching of the defective areas or reject the concrete work.

All through holes for shuttering shall be filled for full depth and neatly plugged flush with surface.

Rejected concrete shall be removed and replaced by the Contactor at no additional cost of the Owner.

For patching of defective areas all loose materials shall be removed and the surface shall be prepared as approved by the Engineer-in-charge.

Bonding between hardened and fresh concrete shall be done either by placing cement mortar or by applying epoxy. The decision of the Engineer-in-charge as to the method of repair to be adopted shall be final and binding on the Contractor. The surface shall be saturated with water for 24 hours before patching is done with 1:1 cement sand mortar. The use of epoxy for rebinding fresh concrete shall be carried out as approved by the Engineer-in-charge.

### **3.19 Vacuum dewatering of Slabs**

Where specified floor slabs, either grade or suspended, shall be finished by vacuum dewatering including all operations such as poker vibration, surface vibration, vacuum processing, flatting and trowelling as per equipment manufacturers recommendation.

The equipment to be used shall be subject to the Engineer-in-charge.

### **3.20 Hot Weather Requirements**

Concrete during hot weather shall be carried out as per IS: 7861(Part I).

Adequate provisions shall be made lower concrete temperatures which shall not exceed 40°C at the time of placement of fresh concrete.

Where directed by the Engineer-in-charge, the Contractor shall spray non-wax based curing compound on unformed concrete surfaces at no extra costs.

### **3.21 Cold weather Requirement**

Concreting during cold weather shall be carried out as per IS: 7861(Part II).

The ambient temperature during placement and up to final set shall not fall below 5 deg.C. Approved antifreeze/accelerating additives shall be used where directed.

For major and large scale concreting works the temperature of concrete at times of mixing and placing, the thermal conductivity of the formwork and its insulation and stripped period shall be closely monitored.

### **3.22 Liquid Retaining Structures**

The Contractor shall take special care for concrete for liquid retaining structures, underground structures and those others specifically called for to guarantee the finish and water tightness.

The minimum level of surface finish for liquid retaining structures shall be Type F2. All such structures shall be hydro-tested.

The Contractor shall make all arrangement for hydro-testing of structure, all arrangements for testing such as temporary bulk heads, pressure gauges, pumps, pipe lines etc.

The Contractor shall also make all temporary arrangements that may have to be made to ensure stability of the structures during construction.

Any leakage that may occur during the hydro-test or subsequently during the defects liability period or the period for which the structure is guaranteed shall be effectively stopped either by cement/epoxy pressure grouting, guniting or such other methods as may be approved by the Engineer-in-charge. All such rectification shall be done by the CONTRACTOR to the entire satisfaction of the Engineer-in-charge at no extra cost to the OWNER.

### **3.23 Testing Concrete Structures for Leakage**

Hydro-static test for water tightness shall be done at full storage level or soffit of cover slab, as may be directed by the Engineer-in-charge as described below:

In case of structures whose external faces are exposed, such as elevated tanks, the requirements of the test shall be deemed to satisfied if the external forces show no sign off leakage or sweating and remain completely dry during the period of observation of seven days after allowing a seven day period for absorption after filling with water.

In the case of structures whose external faces are buried and are not accessible for inspection, such as underground tanks, the structures shall be filled with water and after the expiry of seven days after the filling; the level of the surface of the water shall be recorded. The level of water shall be recorded again at subsequent intervals of 24 hrs. over a period of seven days. Backfilling shall be withheld till the tanks are tested .The total drop in surface level over a period for seven days shall be taken as an indication of the water tightness of the structure. The Engineer-in-charge shall decide on the actual permissible nature of this drop in the surface level, taking into account whether the structures are open or closed and the corresponding effect it has on evaporation looses. Unless specified otherwise, a structure whose top is covered shall be deemed to be water tight if the total drop in the surface level over a period of seven days does not exceed 40 mm.

Each compartment/segment of the structure shall be tested individually and then all together.

For structures such as pipes, tunnels etc. the hydrostatic test shall be carried out by filling with water , after curing as specified ,and subjecting to the specified test pressure for specified period .If during this period the loss of water does not exceed the equivalent of the specified rate, the structure shall be considered to have successfully passed the test.

### 3.24 Optional Tests

If the Engineer-in-charge feels that the materials i.e. cement, sand, coarse aggregates, reinforcement and water are not in accordance with the Specifications or if specified concrete strengths are not obtained, he may order tests to be carried out on these materials in laboratory, to be approved by the Engineer-in-charge as per relevant IS Codes. Contractor shall have to pay for these tests.

In the event of any work being suspected of faulty material or workmanship requiring is removal or if the works cubes do not give the stipulated strengths, the Engineer-in- charge reserves the right to order the Contractor to take out cores and conduct tests on them or do ultrasonic testing or load testing of structure ,etc. The Engineer-in- charge also reserves the right to ask the Contractor to dismantle and re-do such unacceptable work, at no cost to the Owner. Alternately Engineer-in-charge also reserves the right to ask the CONTRACTOR to dismantle and re-do such unacceptable work at the cost of CONTRACTOR.

### 3.25 Grouting

#### 3.25.1 Standard Grout

Grout shall be provided as specified on the DRAWINGS.

The proportion of Standard grout shall be such as to produce a flow able mixture consistent with minimum water content and shrinkage. Surfaces to be grouted shall be thoroughly roughened and cleaned. All structural steel elements to be grouted shall be cleaned of oil, grease, dirt etc. The use of hot, strong caustic solution for this purpose will be permitted. Prior to grouting, the hardened concrete shall be saturated with water and just before grouting, water in all pockets shall be removed. Grouting once started shall be done quickly and continuously. Variation in grout mixes and procedures shall be permitted if approved by the Engineer-in-charge. The grout proportions shall be limited as follows:

| Sr no | Use         | Grout Thickness                    | Mix Proportions                           | W/C Ratio |
|-------|-------------|------------------------------------|---|-----------|
| a)    | Fluid mix   | Under 25 mm                        | One part Portland Cement to one part sand | 0.44      |
| b)    | General mix | 25 mm and over but less than 50 mm | One part Portland Cement to two part sand | 0.53      |
| c)    | Stiff mix   | 50 mm and over                     | One part Portland Cement to               | 0.53      |

#### 3.25.2 Non-Shrink Grout

Non-shrink grout where required shall be provided in strict accordance with the manufacturer's instructions/specifications on the DRAWINGS.

### **General**

#### *Inspection*

All materials, workmanship and finished construction shall be subject to continuous inspection and approval of Engineer-in-charge. Material rejected by Engineer-in-charge, shall be expressly removed from site and shall be replaced by Contractor immediately.

### **Clean-up**

Upon the completion of concrete work, all forms, equipment, construction tools, protective coverings and any debris, scraps of wood, etc. resulting from the work shall be removed and the premises left clean.

### **Acceptance Criteria**

Any concrete work shall satisfy the requirements given below individually and collectively for it to be acceptable.

- a) Properties of constituent material;
- b) Characteristic compressive strength;
- c) Specified mix proportions;
- d) Minimum cement content;
- e) Maximum free-water/cement ratio;
- f) Workability;
- g) Temperature of fresh concrete;
- h) Density of fully compacted concrete;
- i) Cover to embedded steel;
- j) Curing;
- k) Tolerances in dimension; l) Tolerance in levels; m) Durability;
- n) Surface finishes;
- o) Special requirements such as;
  - i) Water tightness
  - ii) Resistance to aggressive chemicals
  - iii) Resistance to freezing and thawing
  - iv) Very high strength
  - v) Improved fire resistance
  - vi) Wear resistance
  - vii) Resistance to early thermal cracking

The Engineer-in-charge decision as to the acceptability or otherwise of any concrete work shall be final and binding on the Contractor.

For work not accepted, the Engineer-in-charge may review and decide whether remedial measures are feasible so as to render the work acceptable. The Engineer-in-charge shall in that case direct the Contractor to undertake and execute the remedial measures.

These shall be expeditiously and effectively implemented by the Contractor. Nothing extra shall become payable to the contractor by the Owner for executing the remedial measures.

### **3.26 Water stops**

### 3.26.1 Material

The material for the PVC water stops shall be a plastic compound with the basic resin of polyvinyl chloride and additional resins, plasticizers, inhibitors, which satisfies the performance characteristics specified below as per IS: 12200. Testing shall be in accordance with IS: 8543.

|    |  |   |
|----|--|---|
| a) | Tensile strength   | 3.6 N/mm <sup>2</sup> minimum                         |
| b) | Ultimate elongation  | 300% minimum  |
| c) | Tear resistance  | 4.9 N/mm <sup>2</sup> minimum                         |
| d) | Stiffness in flexure   | 2.46 N/mm <sup>2</sup> minimum                        |
| e) | Accelerated extraction<br>I) Tensile strength<br>II) Ultimate elongation | 10.50% N/mm <sup>2</sup> minimum<br>250% minimum      |
| f) | Effect of Alkali<br>i) Weight increase<br>ii) Weight decrease            | 7 days<br>0.10% maximum<br>0.10% maximum<br>±5 points |
| g) | Effect of Alkali<br>i) Weight increase<br>ii) Weight decrease            | 28 days<br>0.40% maximum<br>0.30% maximum<br>±1 %     |

PVC water stops shall be either of the bar type, serrated with centre bulb and grips for use within the concrete elements or of the surface (Kicker) type for external use.

PVC water stops shall be of approved manufacture. Samples and the test certificate shall be got approved by the Engineer-in-charge before procurement for incorporation in the works.

### 3.26.2 Workmanship

Water stops shall be cleaned before placing them in position. Oil or grease shall be removed thoroughly using water and suitable detergents.

Water stops shall be procured in long lengths as manufactured to avoid joints as far as possible. Standard L or T type of intersection pieces shall be procured for use depending on their requirement. Any non-standard junctions shall be made by cutting the pieces to profile for jointing. Lapping of water stops shall not be permitted. All jointing shall be of fusion welded type as per manufacturer's instructions.

Water stops shall be placed at the correct location/level and suitably supported at intervals with the reinforcement to ensure that it does not deviate from its intended position during concreting and vibrating. Care shall also be taken to ensure that no honey-combing occurs because of the serrations/end grips, by placing concrete with smaller size aggregates in this region. Projecting portions of the water stops embedded in concrete shall be thoroughly cleaned of all mortar/concrete coating before resuming further

concreting operations. The projecting water stops shall also be suitably supported at intervals with the reinforcement to maintain its intended position during concreting so as to ensure that it does not bend leading to formation of pockets. In addition, smaller size aggregates shall be used for concreting in this region also.

### 3.27 Preformed Fillers and Joint Sealing Compound

#### 3.27.1 Materials

Preformed filler for expansion/isolation joints shall be non-extruding and resilient type of bitumen impregnated fibers conforming to IS: 1838(Part I) Bitumen coat to concrete/masonry surfaces for fixing the preformed bitumen filler strip shall conform to IS: 702. Bitumen primer shall conform to is: 3384

Sealing compound for filling the joints above the preformed bitumen filler shall conform to Grade "A" as per IS: 1834

#### 3.27.2 Workmanship

The thickness of the preformed bitumen filler shall be 25 mm for expansion joints and 50 mm for isolation joints around foundation supporting rotatory equipments. Contractor shall procure the strips of the desired thickness and width in length as manufactured.

Assembly of small pieces/thickness of strips to make up the specified size shall not be permitted.

The concrete /masonry surface shall be cleaned free from dust and any loose particles. When the surface is dry, one coat of industrial blown type bitumen of grade 85/25 conforming to IS: 702 shall be applied by brushing at the rate of 1.20Kg/sq.m.

When the bitumen is still hot the performed bitumen filler shall be pressed at held in position till completely adheres. The surface of the filler against which further concreting/masonry work is to be done shall similarly be applied with one coat of hot bitumen at the rate of 1.20Kg/sq.m.

Sealing compound shall be heated to a pouring consistency for enabling it to run molten in a uniform manner into the joint. Before pouring the sealing compound, the vertical faces of the concrete joint shall be applied hot with a coat of bitumen primer conforming to IS: 3384 in order to improve the adhesive quality of the sealing compound.

Expansion joints between beams/slabs shall be provided with 100 mm wide x 4 mm thick mild steel plate at the soffit of RCC beams/slabs to support and prevent the performed joint filler dislodging. This plate shall be welded to an edge angle of IS A 50x50x6 mm/slabs, by intermittent fillet welding. Steel surfaces shall be provided with 2 coats of red oxide zinc chrome primer and 3 coats of synthetic enamel paint finish.

| <b>CONCRETE POUR CARD</b> |            |
|---------------------------|------------|
| POUR NO:                  | DATE:      |
| DRG NO:                   | STRUCTURE: |
| CONCRETE GRADE QUALITY:   | MAX.       |



| AGGREGATE SIZE: |  |   |                                   |
|-----------------|--|---|-----------------------------------|
| Sr no.          | Item   |   | Remarks if any                    |
| 1.              | BEFORE CONCRETION  | Centerlines checked   | Yes/No.                           |
| 2.              |  | Form work and Staging checked for accuracy, strength & finish | Yes/No.                           |
| 3.              |  | Reinforcement checked   | Yes/No.                           |
| 4.              |  | Cover to reinforcement checked                                | Yes/No.                           |
| 5.              |  | Verified test certificate for cement/steel                    | Yes/No.                           |
| 6.              |  | Adequacy of materials/equipment for pour                      | Yes/No.                           |
| 7.              |  | Embedded parts (location & plumb)                             | Yes/No.                           |
| 8.              | SOFFIT(S) & POUR TOP (T) LEVELS CHECKED BEFORE (B) & AFTER (A) FORM REMOVAL (ONLY OF BEAMS OF OVER 10 M SPAN & IMPORTANT |   | S(B)<br>T(B)<br>S(B)<br>T(B)      |
| 9.              | CONSTRUCTION JOINTS LOCATION & TIME (IF NOT AS PER DRAWING)  |   |                                   |
| 10.             | CEMENT CONSUMPTION IN KGS.   |   |                                   |
| 11.             | NUMBER OF CUBES AND IDENTIFICATION   |   |                                   |
| 12.             | TEST CUBE RESULTS (7 DAYS/28 DAYS)   |   |                                   |
| 13.             | CONCRETE CONDITION ON FORM REMOVAL   |   | Very good/<br>good/fair<br>/ poor |

Notes: - Each pour to have separate cards, in triplicate one each for Owner/client, Contractor & site office.

Under remarks indicate deviations from drawings & specifications, congestion in reinforcement if any, unusual occurrences such as failure of equipment's, sinking of supports/Props, heavy rains affecting concreting, poor compaction, improper curing, other deficiencies, observation etc.

### 3.28 MODE OF MEASUREMENT AND PAYMENT

The unit rate for concrete work under various categories shall be all inclusive and no claims for extra payment on account of such items as leaving holes, embedding inserts, etc. shall be entertained unless separately provided for in the schedule of quantities. No extra claim shall also be entertained due to change in the number, position and / or dimensions of holes, slots or openings, sleeves, inserts or on account of any increased lift, lead of scaffolding etc. All these factors should be taken into consideration while quoting the unit rates. Unless provided for in the

Schedule of Quantities the rates shall also include fixing insets in all concrete work, whenever required.

Payments for concrete will be made on the basis of unit rates quoted for the respective items in the Schedule of Quantities. No deduction in the concrete quantity will be made for reinforcements, inserts etc. and opening less than 0.100 of a sq.m in areas where concrete is measured in sq.m and 0.010 cu.m where concrete is measured in cu.m. Where no such deduction for concrete is made, payment for shuttering work provided for such holes, pockets, etc. will not be made. Similarly the unit rates for concrete work shall be inclusive or exclusive of shuttering as provided for in the Schedule of Quantities.

Payment for beams will be made for the quantity based on the depth being reckoned from the underside of the slabs and length measured as the clear distance between supports. Payment for columns shall be made for the quantity based on height reckoned upto the underside of slab / beams.

The unit rate for precast concrete members shall include formwork, mouldings, finishing, hoisting and setting in position including setting mortar, provision of lifting arrangement etc. complete. Reinforcement and inserts shall be measured and paid for separately under respective item rates.

Only the actual quantity of steel embedded in concrete including laps as shown on drawings or as approved by Engineer shall be measured and paid for, irrespective of the level or height at which the work is done. The unit rates for reinforcement shall include lap chairs, spacer bars etc.

**Item No.12:**

**Railing work = Providing and fixing 4.0 cm dia GI pipe Class-B on 75/40/5 mm channel section at 1.82 to 2.40 m interval with double coat oil paint**

The railing work shall have to be carried out by providing and fixing 4.0 cm dia GI pipe Class-B on 75/40/5 mm channel section at 1.82 to 2.40 m interval with double coat oil paint including cutting, welding as required complete as per instructions of engineer in charge. The pattern of railing shall be as approved by the engineer in charge.

The rate shall be for a unit of one running meter.

**Item No.13:**

**Providing Steel work for RCC work supplying, bending, binding & hooking by binding wire with Thermo Mechanically Treated (TMT) bars confirming to IS 1786, Fe-500**

**1:0. Materials**

1.11. TMT bars of Fe-500 should be confirming to IS:1786.

## 2.0. Workmanship

- 2.1. The work shall consist of furnishing and placing reinforcement to the shape and dimensions shown as on the drawings or as directed.
- 2.2. Steel shall be clean and free from rust and loose mill scale at the time of fixing in position and subsequent concreting.
- 2.3. Reinforcing steel shall conform accurate to the dimensions given in the bar bending schedules shown on relevant drawings. Bars shall be bent cold to specified shape and dimensions or as directed, using a proper bar bender, operated by hand or power to attain proper radius of bends. Bars shall not be bent or straightened in a manner that will damage the material. Bars bent during transport or, handling shall be straightened before being used on the work. They shall not be heated to facilitate bending. Unless otherwise specified, a 'U' type hook at the end of each bar shall invariably be provided to main reinforcement. The radius of the bend shall not be less than twice the diameter of circle having an equivalent effective area. The hooks shall be suitably encased to prevent any splitting of the concrete.
- 2.4. All the reinforcement bars shall be accurately placed in exact position shown on the drawings, and shall be securely held in position during placing of concrete by annealed binding wire not less than 1 mm in size and by using stay blocks or metal chair spacers, metal hangers, supporting wires or other approved devices at sufficiently close intervals, Bars shall not be allowed to sag between supports nor displaced during concreting or any other operations of the work. All devices used for positioning shall be of non-corrodible material. Wooden and metal supports shall not extend to the surface of concrete, except where shown on drawings. Placing bars on, layers of freshly laid concrete as the work progresses for adjusting bar spacing shall not be allowed. Pieces of broken stone or brick and wooden blocks shall not be used. Layers of bars shall be separated by spacer bars, precast mortar bricks or their approved devices. Reinforcement after being placed in position shall be maintained in a clean condition until completely embedded in concrete. Special care shall be exercised to prevent any displacement of reinforcement in concrete already placed: To prevent reinforcement from corrosion, concrete cover shall be provided as indicated on drawings. All the bars producing from concrete and to which other bars are to be spliced and which are, likely to be exposed for a period exceeding 10 days shall be protected by a thick coat of neat cement grout.
- 2.5. Bars crossing each other where required shall be secured by binding wire (annealed) of size not less than 1 mm in such a manner that they do not slip; over each other at the time of fixing and concreting:
- 2.6. As far as possible, bars of full length shall be used. In case this is not possible. Overlapping of bars shall be done as directed, When practicable, overlapping bars shall not touch each other, but be kept apart by 25 mm. or 1.25 times the maximum size of the coarse aggregate whichever is greater by concrete between them. Where not

feasible, overlapping bars shall be bound with annealed wires not less than 1 mm. thick twisted tight. The overlaps shall be staggered for different bars and located at points, along the span where neither shear nor bending moment is maximum.

- 2.7. Whenever indicated on the drawings or desired by the Engineer-in-charge, bars shall be joined by couplings which shall have a cross-section sufficient to transmit the full stresses of bars at the ends of the bars that are joined by coupling shall be upset for sufficient length so that the effective cross section at the base of threads is not less than the normal cross-section of the bar. Threads shall be standard threads: Steel for coupling shall conform to I:S.226 (Latest edition)
- 2.8. When permitted or specified on the drawing's joints of reinforcement bars shall be butt-welded so as to transmit their full stresses. Welded joints shall preferably be located at points when steel will not be subject to more than 75 percent of the maximum permissible stresses and welds shall be staggered so that at any one section not more than 20 percent of the rods are welded. Only electric arc welding using a process which excludes air from the molten metal and conforms to any or all other special provisions for the work shall be accepted. Suitable means shall be provided for holding bars securely in position during welding. It shall be ensured that no voids are left in welding and when welding is done in two or three stages, previous surface shall be cleaned properly. Ends of the bars shall be cleaned of all loose scale, rust, grease, paint and other foreign matter before welding. Only competent welders shall be employed on the work. The M.S. electrodes used for welding shall conform to I.S. 814 (Latest edition). Welded pieces of reinforcement shall be tested: Specimen shall be taken from the actual site and their number and frequency of test shall be as directed.
- 3.0. Mode of measurements & payment
- 3.1. Reinforcement shall be measured in length including overlaps, separately for different diameters as actually used in the work. Where welding or coupling is resorted to, in place of lap joints, shall be measured for payment as equivalent length of overlap as per design requirement. From the length so measured, the weight of reinforcement shall be calculated in Kgs. Length shall include hooks at the ends. Wastage and annealed steel wire for binding shall not be measured and the cost of these items shall be deemed to be included in the rate for reinforcement.
- 3.2. The rate for reinforcement includes cost of steel binding wires, its carting to work site, cutting, bending; placing, binding and fixing in position as shown on the drawings and as directed, It shall also include all devices for keeping reinforcement in approved position, cost of joining as per approved method and all wastage and spacer bars.
- 3.3. The rate shall be for a unit of One Kg.

Addl/Asst. Engineer  
R.M.C.

Dy.Ex.Engineer  
R.M.C.

CITY ENGINEER  
R.M.C.

Signature of Contractor with Seal

| <u>LIST OF APPROVED MAKE (Civil Work)</u> |   |   |  |             |             |
|---|---|---|--|-------------|-------------|
| NO.                                       | SPACE   | PARTICULAR  | COMP   |             |             |
| 1   | Ready mixed Concrete  |   | Lafarge/Bhanu/ultra tech/RJ/Krishna  |             |             |
| 2   | Ordinary Portland Cement (Minimum 53 Grade)   |   | UltraTech /Birla/ ACC /Ambuja/Hathi/Sanghi   |             |             |
| 3   | Flush doors   |   | BIS approved brand (ISI Mark)  |             |             |
| 4   | FRP Doors   |   | Fibrevent, Techno skills or Equivalent (or as approved by Engineer Incharge)                 |             |             |
| 5   | PVC Doors with Frame  |   | ISI and approved by Engineer Incharge  |             |             |
| 6   | Hydraulic floor Spring/ Door  |   | Everite, Garnish, Hardwyn  |             |             |
| 7   | White Cement  |   | JK White   | Birla white | Nihon White |
| 8   | Reinforcement/Structural Steel (Each LOT shall accompany manufacturer's Test Certificate) |   | (TMT BARS Fe-500) Gallent/ET/ASR/Friend or BIS approved manufacturers                        |             |             |
| 9   | Dining, Drawing, Bed Room, Kitchen, Toilet/Bath/Wash etc,                                 | Vitrified/ Ceramic /Glaze Tiles/Wall Tiles/ Parking Floor Tiles | Somani/Nitco/Kajaria/RAK/Jhonson/Simpolo/Bell/Asian/ Euro/Vermora                            |             |             |
| 10  | Toilet/Bath/Wash  | PVC/UPVC pipes & Fittings                                       | Astral/Supreme/Prince/finolex /Simco/Plumber With Clamp open type of outer side of Building  |             |             |
| 11  |   | Sanitary ware   | Jaquar/cera/Hindware/Jhonson and any other standard brandh as approved by engineer-in-charge |             |             |
| 12  | Teak Wood   |   | Bulsar   | C.P.Teak    |             |
| 13  | Inter locking Paver blocks  |   | ISI Mark – Balaji,Regency,Supreme  |             |             |
| 14  | Plywood Products Commercial Block Board Commercial PlyTeak Ply                            |   | ISI Mark as approved by engineer-in-charge   |             |             |
| 15  | Glass/Float/Sheet   |   | Saint Gobain   | Modi/HNG    | Asahi       |
| 16  |   | Laminates   | Neolux/Formica/Sunmica/Merino or as per IS   |             |             |
| 17  | Aluminum sections   |   | Jindal   | Indal       | Banco       |

- A) The contractor shall produce samples of the materials for approval of the RMC/PMC. The materials of the makes out of the above as approved by the RMC/PMC shall be used on the work. RMC/PMC member has not bide to give any reason for rejection of any brand from the above list and its decision will be consider as final.

- B) In respect of materials for which approved makes are not specified above, these will be of makes to be decided by the RMC / PMC.
- C) Contractor can use for any material of equivalent make of the above specified company after taking prior permission of RMC/PMC.

The agency has to use item/material mentioned in the list above. In no case other item/material shall be allowed except those mentioned in the list unless and until the unavailability of the above said item/material noticed that too, prior approved of RMC/PMC

**D. ADDITIONAL CONDITIONS**



#### D. ADDITIONAL CONDITIONS:

1. The contractor shall have to provide his own level instrument for this work.
2. The safety of the traffic and surrounding properties is the prime important factor. As it is the renovation work in existing residential and commercial area the fencing, lighting, covering etc., requires to be provided as per clause 1.1.15. and as per the site requirement. Sign Board shall have to be provided at required locations, so that there will not be any fatal accident.
3. In case of any ambiguity found in inspections / drawings, specifications, etc, the decision of engineer-in-charge shall be final and binding to the contractor.
4. Rates quoted in Bill of Quantities to cover everything necessary for complete Execution of work :

The rates quoted will be held to cover everything necessary of the due and complete execution of the work according to the drawings and the several conditions and the stipulations of the contract, including specification, or the evident intent and meaning of all or either of them or according to customary usage and for the periodical and final inspection and test and proof of the work in every respect and for measuring, numbering or weighing the same including setting out and laying or fixing in position and the provision of all materials,

Power, tool rammers, beaters, labour, tackle platforms with impervious lapped joints for scaffolding ranging rods, straight edges, centering and boxes, wedges, moulds, templates, post straight rails, boning-staves, measuring rods, page boards, shores, barriers, fencing, lighting, pumping apparatus, temporary arrangements of passage of traffic, access to premises and continuance of drainage, water supply and lighting (if interrupted by the work) lard temporary sheds and buildings nahanis roofed in or otherwise haulage, painting, varnishing, polishing, establishments for efficient supervision and watching arrangements for the efficient protection of life and property and all requisite plant, implements and appliances every kind, except only such matter and things as it may be distinctly stated here in are to be supplied by the contractors. A rate for anyone description of work is to be held to include such items of other classes of and for these on separate specific charge will be admitted. The contractors shall keep every portion of the work clear of accumulation from time to time and shall leave every portion of the work clean, clear, perfect and at the

conclusion of whole, providing at their own cost all such material implement appliances and labour as the Engineer may require to prove if it is to be so.

5. The contractors are particularly directed to observe from the Articles of Agreement and the specifications, what is to be included in their rates for the several portions of the work and also under what conditions payments are to be made.
6. The contractor shall have to avail P F Code as per the prevailing Circular of Government for the employees on work. The process for preparation of bill will be taken up only after submission of the Challan for the amount of P.F. deposited every month for the employees on work, which will be binding to the contractor. The required documents shall have to be submitted every month by the contractor to the competent authority.
7. The contractor shall have to get registered under ESI (Employer's State Insurance) Act and obtain ESI Registration number if the number of workers are 10 Nos. or more. Also, the agency shall have to give all the benefits to the workers as available under the ESI Act. The agency should follow all the rules and regulations of ESI Act as per prevailing norms.
8. This office Circular bearing No.RMC/C/329 dated 22-12-2012 and Order No.RMC/C/132 dated 10-06-2013 are uploaded separately as a part of tender document. The Contractors/Consultants quoting their rates shall have to read, implement, and submit the same duly signed along with the documents to be submitted during physical submission.
9. In reference to the above Circular and Order cited para above, the Contractors/Consultant who have quoted their rates for this work will be called in person for verification of original documents. The date and time for verification of original documents will be as prescribed in the tender document.
10. After issuance of work order for this tender, if the work falls under any kind of dispute then Rajkot Municipal Corporation reserves the right to terminate the contract for this work awarded to the contractor or execute part work. The decision of Rajkot Municipal Corporation in this regard will be final and binding to the contractor.
11. Till the Completion Certificate is issued by Rajkot Municipal Corporation, the agency will be the sole responsible for security of material and structure at site.

12. The quantities given in the Schedules are provisional. The Rajkot Municipal Corporation reserves the right to increase or decrease the quantity of work or totally omit any item work and the contractor shall not be entitled to claim any extras or damages on these grounds & he is bound to execute the work as per the instruction of the Engineer-in-charge. Rajkot Municipal Corporation will not entertain any dispute in this regard.
13. It is further clarified that Performance Guarantee (SD) for extra work will also be recovered @ 10% from the bill of extra work i.e. works beyond tender amount.
14. The bidder must understand clearly that the prices quoted are for the totally works or the part of the total works quoted for and include all costs due to materials, labour, equipments, supervision, other services, royalties, taxes, duties, etc., and to include all extra to cover the cost. No claim for additional payment beyond the prices quoted will be entertained and the bidder will not be entitled subsequently to make any claim on any ground.
15. Qualified engineer must be deployed on site and at Plant. The details of qualified engineers are to be given to RMC at the time of bidding of this tender.
16. If any irregularities found during the work then penalty will be imposed by Engineer-in-charge or any higher officer. If any disputes arises regarding penalty imposed by Engineer-in-charge then decision of Municipal Commissioner will be final and binding to agency.
17. The time limit will remain same as mentioned in the tender document and the work is to be completed accordingly.
18. Tender of such Contractor not having registration in appropriate Class and Category, will be treated as non-responsive. In case of any conflicting provisions between registration of appropriate category and Pre-qualification criteria, the later shall govern the process of bid evaluation.
19. The agency shall have to quote their rates only after visiting the site and looking to the site conditions.
20. DEFECTS: Date of completion for start of defect liability period for the entire work will be considered as the last date mentioned in the completion of work recorded in Measurement Book. The contractor shall be required to make good all the damages/ defects identified and conveyed to him, during the entire defect liability period. The

method and time limit of rectification will be decided by the Engineer in charge. If the contractor fails to carry out rectification as per the instructions, the same will be carried out at his cost and the cost will be recovered from the amount retained.

21. Joint venture shall not be allowed under this tender.
22. After the completion of work, at the interval of every three months, joint inspection must be done by the agency and RMC staff and then agency has to submit the report stating the condition of work to Rajkot Municipal Corporation. The final checking report stating the condition of work is also to be submitted by the agency before one month of the expiry of defect liability period to the competent authority.
23. The Royalty of each and every material, required to be paid is to be borne by the contractor.
24. Testing of each material as and when required by Rajkot Municipal Corporation, is to be carried out in Government approved laboratory by the contractor at his own cost. Schedule of testing of material will be as per R&B, State Government Manual and I S Code provision.
25. Necessary tests for material quality, soil tests etc. shall be carried out as per the instructions of engineer-in-charge by contractor at his own cost and reports to be submitted to the engineer-in-charge.
26. As this work is to be done in existing structure and also keeping in mind surrounding properties, all due precautions should be taken so that no damage occurs to any of the services like; water connection, drainage connection, water pipeline, drainage line or any other services. However, if any damage occurs to any of such service(s) then the contractor shall have to carry out necessary repairs immediately and satisfactorily, at his own cost.
27. Wherever the rolling with the road roller is not possible on metalling work and murrum work, the compaction with hand roller or by any other means at such places shall have to be carried out by the contractor satisfactorily as per instructions of engineer-in-charge.
28. The Contractor shall carry out modifications in the procedure of work, if found necessary, as directed by the Engineer during inspection. Works falling short of quality shall be rectified / redone by the Contractor at his own cost, and defective work shall also be removed from the site of works by the Contractor at his own cost.

29. Defective Materials: All materials which the Engineer / his representative has determined as not confirming to the requirements of the Contract shall be rejected whether in place or not; they shall be removed immediately from the site as directed. Materials, which have been subsequently corrected, shall not be used in the work unless approval is accorded in writing by the Engineer. Upon failure of the Contractor to comply with any order of the Engineer / his representative given under this clause, the Engineer-in-charge shall have authority to cause the removal of rejected material and to deduct the removal cost thereof from any payments due to the contractor.
30. The Defect Liability period for this work is 24 Months. After completion of work, a report at the interval of every six months by way of joint inspection shall have to be submitted to the competent authority. The portion which is observed defective / damaged by normal cause during the joint inspection shall have to be repaired/rectified and necessary evidence along with photographs shall also have to be submitted to the competent authority.
31. The agency shall have to get interior done from the approved Architect / Engineer and also to get approved from engineer-in-charge. The agency shall have to get the approval within a period of 7 (Seven) days.
32. The Plans got prepared by the agency shall have to be get the design done from the Structural Engineer, the cost of which also is to be borne by the agency.
33. The work order will be given only after getting the preliminary approval from Town Planning Department.
34. Providing and fixing of precast RCC slab and column shall have to be carried out in line and level.
35. For excavation of trench, use of JCB machine will not be permitted directly on the top surface of the road. After excavation up to minimum 1.00 mt. depth from road surface or existing ground level, same shall have to be carried out manually or by using Breaker and after locating underground services like; water supply pipeline, water connection lines, pipe gutters, telephone cables, electric cables etc., and thereafter upon taking the prior approval of the Engineer-In-Charge, the excavation can be carried out by using JCB machine.
36. Rajkot Municipal Corporation shall recommend to the competent authority to give Controlled Blasting License to the contractor for

carrying out excavation in hard rock. In case of blasting license not permissible from the competent authority in some places then excavation is to be done by using wedges and hammers, chiseling, breakers, pneumatic tools, etc. Also in case where blasting license is permitted but even then if there is no possibility of carrying out the blasting for whatsoever reason, the excavation is to be done by using Wedges and hammers, chiseling, breakers, pneumatic tools etc. No extra payment shall be made for excavation to be carried out in any of the above mentioned both the situations.

37. Excavation in soft rock and hard rock shall have to be carried out only by Chiseling, Breaker (pneumatic tools) etc., as far as possible. If excavation is not possible in terms of above and if excavation is required to be carried out with the help of blasting then the same shall have to be carried out only after taking prior approval and necessary license for blasting from the competent authority.
38. In case of excavation not possible manually or by chiseling in certain place(s) as well as if blasting is also not possible due to various reasons i.e. to avoid damage to nearby water pipeline, pipe gutter, telephone cables / Duct, Raw houses / week buildings / narrow street etc., then the excavation by blasting will not be permitted. Under these circumstances, excavation shall have to be carried out only by Breaker (pneumatic tools) as per the instructions of the Engineer-In-Charge. No extra payment will be made for such type of excavation done by using Breaker. The rate for excavation shall be paid as per the rate of related item mentioned in Schedule-B.
39. Regarding the width of excavation, as (a) it is difficult to carry out the vertical trench excavation, (b) possibility of sliding the soil, and (c) uneven excavation trench width in case of blasting. In this connection, for every 1.5 mt lift if there is less width up to 5 cm at the bottom then the top width of excavated trench, it shall be considered as per the specified trench width or actual trench width carried out at the ground level by the contractor whichever is less. If excavation is carried out more than the specified width then the payment will be made only for the specified width of excavation.
40. After entering into an agreement, the agency shall have to finalize the agency for supply of the material like Precast RCC slab and column and the name of manufacturer / supplier should immediately be informed to Rajkot Municipal Corporation so that Rajkot Municipal Corporation can also expedite the manufacturer / supplier for the material. If necessary, Rajkot Municipal Corporation will visit and inspect the factory. During the inspection, if Rajkot Municipal Corporation is not satisfied then the contractor shall have

- to procure the material from other manufacturer(s).
41. During construction activity, proper care must be taken for labor safety and all the provisions of the labor laws must be followed by the contractor.
  42. The G.A. Drawings and other Drawings as provided at present with the tender document are indicative, however, there is possibility of any change or modification in the said drawing and as such the contractor shall have to carry out the work accordingly at the approved rates without any extra cost.
  43. The contracting Agency then has to prepare bar bending schedule as per Structural Drawings and submit it to RMC after then RMC shall permit to work to start. Structure design is in the scope of work of contractor and its cost is to be borne by the contractor. The structure designer should be RMC license holder. The proof check of the structure design should be done by one of the structure designers, as suggested by RMC. (If the structure designer is suggested by RMC, then the proof check is not needed.) Bar Bending Schedule, register shall be maintained on site with the details of cut length of bar. The certificate for same shall be denoted in Pour Card.
  44. Contract Agency has to provide a Site Office Room, a separate Laboratory included with necessary lab instruments for slump test, sieve analysis, etc. whatever suggested by Site Engineer in charge on site premises. There shall be provision of minimum 24 cube mould of 15 x 15 x 15 cm size and 12 mould of 7.5 x 7.5 x 7.5 cm. There shall be a provision of necessary stationary & Furniture. The periodical calibration of instruments like weigh batch Plant, Electronic Balance etc. shall be carried out as per instruction of Engineer in Charge. Without satisfactory report for the same the work may not be continued.
  45. The Mix Design of Cement Concrete shall be revised submitted with respect to changes in Materials like Cement, Sand, Aggregate
  46. The Final Completion Drawings shall be submitted in hard copy and as Auto Cad format by Agency. If the same is not submitted, the permanent deposit 0.25 % of Final Bill amount will be deducted from Final bill.
  47. After the drawings for the proposed work are finalized by RMC, the agency has to submit the same to qualified & experienced structure engineer.
  48. The agency has to submit the approved & signed copies of structure

design 3 sets to Rajkot Municipal Corporation

49. Additional alternation changes during the work shall has to be incorporated in the structure drawing & shall be re submitted to Rajkot Municipal Corporation accordingly.
50. The contracting Agency then has to prepare bar bending schedule, submit it to Rajkot Municipal Corporation. & After checking the bar bending schedule, then Rajkot Municipal Corporation shall permit to work to start.
51. Approval to the samples of various materials given by the Engineer-in-charge shall not absolve the contractor from the responsibility of replacing defective material brought on site of materials used in the work found defective at a later date. The contractor shall have no claim to any payment of compensation whatsoever on account of any such materials being rejected by the Engineer-in-charge.
52. The agency has to facilitate the Town Planning department in all respective terms and has to provide all the required items as instructed by a surveyor of Town planning Dept. The items which are required for demarcation are colors, Tags, Nails, labors and agency will also be responsible for cleaning of the plot without any extra cost.
53. The agency has to create the passage/access to the plot where the work is supposed to start. If in case the access to plot is restricted by any farming land, then the agency has to take a proper arrangement for passage and whatever the cost occurred in the construction of the passage, the agency has to pay the cost of its own.
54. The compound wall has to be constructed with the proper guidance by the Engineer- in- charge, such as if the land has difference in the level (irregular topography), then the agency has to construct the compound wall in the step pattern form.
55. The top of the precast wall will be either in Semi-circular or triangular whichever instructed by the Engineer-in-charge. The Measurement of the Semi-circular or triangular item of the precast wall will be taken from the middle of the section of the item.
56. If in case the Semi-circular or triangular item of the precast wall will not be fixed, then the agency has to keep the top section of precast pole empty, without any curtailment in the height of the pole. But the measurement will be counted only for the constructed slabs.



57. In the precast wall, either the cement mortar in the ratio of 1:1 or Standard chemical mortar to be filled in Groove i.e. the area between two precast slabs and the area between the slabs and pole, whichever instructed by the Engineer- in- charge.
58. The restoration work for the excavation done is to be carried out immediately as per the instructions of engineer in charge. The excess material shall have to be disposed with no extra cost at the site specified by engineer-in-charge.

The word "Arbitration" or "Arbitration Clause" wherever mentioned in this tender document, is now to be treated as "Deleted". In this context, an Order bearing No.RMC/Legal/1858 dated 18-02-2017 of Legal Department of Rajkot Municipal Corporation is uploaded separately along with this tender, which Order, will hereafter be referred and taken into consideration for Arbitration related purpose for the tenders of Rajkot Municipal Corporation.

**CITY ENGINEER**  
**Rajkot Municipal Corporation**

**Signature of Contractor with Seal**

**Rajkot Municipal Corporation**

**:: SPECIAL CONDITIONS ::**

1. The Royalty of each and every material, required to be paid is to be borne by the contractor.
2. Testing of each material as and when required by Rajkot Municipal Corporation, is to be carried out by the contractor at his own cost. Schedule of testing of material will be as per R&B, State Government Manual and I S Code provision.
3. The whole work shall be executed by qualified Site Engineer. The required L- Section and Cross section is to be prepared by contractor at his own cost. The work should be done by levelling instrument. The Drawings shall be submitted accordingly in advance before starting the work. No extra payment will be made for the above work. Contractor has to submit Bill form with hard copy and soft copy of cross section and L-section of work completed. No bill will be accepted without above drawings.
4. Necessary tests for material quality, Paving Blocks, soil tests etc. shall be carried out as per the instructions of engineer-in-charge by contractor at his own cost and reports to be submitted to the engineer-in-charge.
5. The contractor shall have to get registered under ESI (Employer's State Insurance) Act and obtain ESI Registration number if the number of workers are 10 Nos. or more. Also, the agency shall have to give all the benefits to the workers as available under the ESI Act. The agency should follow all the rules and regulations of ESI Act as per prevailing norms.
6. The testing of metal and the design as per IRC shall have to be carried out by the contractor at his own cost.
7. Structure design is to be prepared by contractor and after approval of engineer-in-charge the work can be started.
8. Agency intending to carry out excavation will be able to carry out excavation / digging only after prior intimation through "Call before U Dig" mobile application.

**CITY ENGINEER  
Rajkot Municipal Corporation**

**Signature of Contractor with Seal**

**PART-III**  
**BILL OF QUANTITIES**  
**(Attached in Separate Folder)**

**BID FORM(WITH PRICE)**

**CONTRACT No: RMC/ENGG/EZ/24-25/30**

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

The Commissioner  
Rajkot Municipal Corporation  
Dr. Ambedkar Bhavan  
Dhebar Road  
Rajkot

Dear Sir,

**SUB : CONSTRUCTION OF SLAB CULVERT NR. SCHOOL  
NO.70 AT JUNGLESHWAR MAIN ROAD IN WARD  
NO.16**

1. Having visited the site and examined the Bid Documents, Drawings, Conditions of Contract, Specifications, Schedules, Annexures, Preamble to Price Schedules, Price Schedules etc. including Addenda/Amendments to the above, for the execution of the above Contract, we the undersigned offer to carry out as given in Conditions of Contract and in conformity with the Drawings, Conditions of Contract, Specifications, Preamble to Price Schedules, Price Schedules, Annexures, Bidding Documents, including Addenda Nos. \_\_\_\_\_ (insert numbers) for \_\_\_\_\_ %age (in \_\_\_\_\_ figure)

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(in words) below / above than the rates given in Price Schedule.

2. I / We agree that
  - (a) if we fail to provide required facilities to the Employer's representative or any other person/agency by the employer to perform on his behalf for carrying out the inspection and testing of materials and workmanship  
OR
  - (b) if we incorporate into the Works, materials before they are tested and approved by the Engineer's representative  
OR
  - (c) if we fail to deliver raw water of required quantity according to the conditions/stipulations of the Contract, the Engineer will be at liberty to take any action including termination of Contract and impose at his absolute discretion any penalties, and/or reject the work.

3. We undertake, if our Bid is accepted, to complete and deliver the Works in accordance with the Contract within 5 Months of construction period from the date of Work Order issued to us by you.
4. We agree to abide by this Bid for a period of 120 Days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
5. In the event of our Bid being accepted, we agree to enter into a formal Contract Agreement with you incorporating the conditions of Contract thereto annexed but until such agreement is prepared this Bid together with your written acceptance thereof shall constitute a binding Contract between us.
6. We agree, if our Bid is accepted, to furnish Performance Bond/Security in the forms and of value specified in the Conditions of Contract of a sum equivalent to 5% of the Contract price for due performance of the Contract.
7. We have independently considered the amounts of liquidated damages shown in Appendix to Bid and agree that they represent a fair estimate of the damages likely to be suffered by you in the event of the Work not being completed by us in time.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_.

Company Seal

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

\_\_\_\_\_  
(Name of the person)

\_\_\_\_\_  
(Name of firm)  
Duly authorised to sign Bid for  
and on behalf of  
(Fill in block capitals)

\_\_\_\_\_  
(In the capacity of)

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

Witness  
Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

# PREAMBLE TO PRICE SCHEDULES

## Note on Schedule:

The bid is percentage rate bid for CONSTRUCTION OF SLAB CULVERT NR. SCHOOL NO.70 AT JUNGLESHWAR MAIN ROAD IN WARD NO.16.

1. The bid is percentage rate bid.
2. The rates and prices shall be submitted in the formats given in the online Price Schedules. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
3. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
4. In Price Schedule, bidder shall quote his percentage Equal/Above/Below for items listed in the schedule. Prices quoted in Schedule only will be considered for price evaluation & shall form a part of the Contract Agreement.
5. The Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
6. The bidder shall be deemed to have allowed in his price for provision, maintenance and final removal of all temporary works of whatsoever nature required for construction including temporary bunds, diverting water, pumping, dewatering etc. for the proper execution of works. The rates shall also be deemed to include any works and setting out that may be required to be carried out for laying out of all the works involved.
7. Where there is a discrepancy between the unit rates and the amount entered, the latter shall govern.
8. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.
9. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.
10. The bidder shall interpret the data furnished and carry out any additional survey work, or investigative work required at his own cost.
11. The prices quoted shall also include the cost of materials utilized for testing.



12. The bidder should acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to worksites at his own cost. These accesses will be used by the other contractors working for RMC.
13. The material shall be inspected Departmentally, the cost of which, if any, is to be borne by contractor.
14. Bidder has to quote their rates without GST and including other taxes. The invoice should be submitted by contractor showing the breakup of GST in the bill. GST will be paid extra at the prevailing rate at the time of execution.

The contractor shall have to purchase the material required for this tender work, only from the supplier having registered GST Number. RMC will not be responsible to pay any amount towards GST if the material is purchased from the unregistered supplier not having GST Number.

15. In case of extra item work if quoted and approved tender price is above Percentage Rate then no above percentage rate will be given, only the rates as per S.O.R. will be paid for such extra item. But, if the quoted and approved tender price is below percentage rate then that below percentage rate will be considered for paying of any extra item.
16. The whole work is to be done under the supervision of RMC.
17. The rates and prices shall be submitted in the formats given in the enclosed Price Schedules. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
18. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
19. In Price Schedule, bidder shall quote his percentage Equal/Above/Below for items listed in the schedule. Prices quoted in Schedule only will be considered for price evaluation & shall form a part of the Contract Agreement.
20. Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
21. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.

22. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.
23. The bidder shall interpret the data furnished and carry out any additional survey work, or investigation work required at his own cost.
24. The prices quoted shall also include the cost of materials utilized for testing.
25. The bidder should acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to worksites at his own cost. These accesses will be used by the other contractors working for RMC.
26. From each Running Account Bill, labour cess will be deducted as per norms.
27. In Every running bill 0.25% amount shall be retained as extra security deposit if Drawings of work done are not submitted by agency.
28. The quoted rates should be inclusive of all taxes and duties.
29. The prices shall have to be quoted firm & fix including all the taxes & duties without any statutory variation. RMC will not consider any statutory variation as well as the price rise in the market and if any, those shall be on account of contractor.
30. The work contract tax will be borne by the agency.
31. While considering experience of ongoing sewer/storm water pipeline works, part work completed in all respect will be considered for evaluation of bid. In this regard contractor shall be required to submit part completion certificate along with bid document from competent authority.
32. Use of ready mix concrete may be permitted if it fulfils tender specifications.
33. No extra item or extra width will be paid due to excavating method or type of machinery.
34. For any type of license regarding labour, etc. has to be achieved by agency.

35. This office Circular bearing No. RMC/C/329 dated 22-12-2012 and Order No. RMC/C/132 dated 10-06-2013 are uploaded in tender document.
36. In reference to the above Circular and Order cited at above, the Contractor firm who have quoted their rates for this work will be called in person for verification of original documents. The date and time for verification of original documents will be intimated to the Contractors.
37. If the progress of work is found slow then Extra security Deposit may be recovered from any running bill as decided by Engineer in charge up to maximum 5% amount of concerned R.A. Bill amount.
38. In case of Extra Item, No "On" %age i.e. +ve % age Rate will be given but if there is Down %age i.e, -ve % age Rate that will be applied to that rate of that Extra Item.

**CITY ENGINEER**  
**Rajkot Municipal Corporation**

**Signature of Contractor with Seal**

# PRICE SCHEDULE

**Rajkot Municipal Corporation**  
**Price Schedule – B**

Name of work:

**CONSTRUCTION OF SLAB CULVERT NR. SCHOOL NO.70 AT  
JUNGLESHWAR MAIN ROAD IN WARD NO.16**

| Sr. No. | Qty.   | Items   | Rate    | Units. | Amount    |
|---------|--------|---|---------|--------|-----------|
| 1       | 94.00  | Dismantelling of Super Structure and disposing it as directed   | 313.00  | cu.mt  | 29422.00  |
| 2       | 20.00  | Removal of Wire fencing / Gurder railing / Angle Post Gurder railing  | 46.00   | Rmt    | 920.00    |
| 3       | 620.00 | removal of excavated stuff within rmc limit etc complete..  | 171.00  | cu.mt  | 106020.00 |
| 4       | 180.00 | Excavation of Foundation in Soft Murrum, Soil or Sand from 0.0 mtr. to 1.50 mtr depth   | 133.00  | Cu.MT  | 23940.00  |
| 5       | 78.00  | Excavation of Foundation in Soft Murrum, Soil or Sand from 1.5 mtr. to 3.00 mtr depth   | 144.00  | Cu.MT  | 11232.00  |
| 6       | 132.00 | Excavation of Foundation in Hard Rock with Breaker / Blasting /Gann from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed | 706.00  | Cu.MT  | 93192.00  |
| 7       | 60.00  | <b>20 mm dia Rock Anchroing work</b>  | 1893.00 | Nos    | 113580.00 |
| 8       | 23.00  | Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Ramming, Curing etc.  | 4626.00 | Cu.MT  | 106398.00 |
| 9       | 74.00  | RCC footing using aggregate of size 10–20 mm, centring, curing, finishing etc. complete (without reinforcement) M–30  | 5830.00 | Cu.MT  | 431420.00 |
| 10      | 110.00 | CC work M-30 for Column using aggregate of size 10-20 mm, centring,curing, finishing etc. complete (without reinforcement)  | 6750.00 | Cu.MT  | 742500.00 |
| 11      | 72.00  | CC work M30 for RCC slab using aggregate of size 10-20 mm, centring, curing, finishing etc. complete (without reinforcement)  | 6500.00 | Cu.MT  | 468000.00 |
| 12      | 40.00  | Railing work - Providing & fixing 4.0 cm dia GI pipe clas-B on 100/50/5 mm channel section at 1.82 to 2.40 m interval with double coat oil paint.                   | 1130.00 | Rmt    | 45200.00  |

| Sr. No. | Qty.     | Items  | Rate        | Units. | Amount     |
|---------|----------|--|-------------|--------|------------|
| 13      | 25200.00 | Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost | 65.00       | Kg     | 1638000.00 |
|         |          |  |             | Total  | 3809824.00 |
|         |          |  | Add 9% SGST |        | 342884.16  |
|         |          |  | Add 9% CGST |        | 342884.16  |
|         |          |  |             | Total  | 4495592.32 |
|         |          |  |             | Say Rs | 4500000.00 |

Addl/Asst. Engineer  
R.M.C.

Dy.Ex.Engineer  
R.M.C.

CITY ENGINEER  
R.M.C.

I/We agree to carry out the above said work at (to be quoted online) % Equal / above / below on the tendered rates shown in Schedule.

Signature of Contractor with Seal



## રાજકોટ મહાનગરપાલિકા

ડો. આંબેડકર ભવન, ઢેબરભાઈ રોડ, રાજકોટ - ૩૬૦ ૦૦૧.

વેબસાઈટ : www.rmc.gov.in

આર.એમ.સી./સી./વીજી. (ટેક.) /જા. નં. - ૨૩૦

તા. ૧૧/૦૩/૨૦૨૨

### પરીપત્ર:-

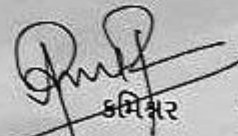
રાજકોટ મહાનગરપાલિકા અને RSCDL ખાતે ટેન્ડરથી થતા કામમાં સિમેન્ટ કોન્ક્રીટની કામગીરી કરવામાં આવે છે. આ કામોમાં ક્વોલિટી કન્ટ્રોલ જળવાઈ રહે તે માટે નીચે દર્શાવેલ દર્શાવ્યા મુજબ જુદા જુદા સિમેન્ટ કોન્ક્રીટ ગ્રેડ વાઈઝ મીનીમમ સિમેન્ટ કન્ટેન્ટના ધોરણો અનુસરવા અને તેનો સમાવેશ ટેન્ડર ડોક્યુમેન્ટમાં કરવા આથી હુકમ કરવામાં આવે છે.

|     |   |
|-----|---|
| (અ) | NABL માન્ય લેબ દ્વારા IS, IRC કે MORTH મુજબ તૈયાર કરાયેલ સિમેન્ટ કોન્ક્રીટ મીક્સ ડીઝાઈન રીપોર્ટ મુજબ કિગ્રા સિમેન્ટ કન્ટેન્ટ પ્રતિ ઘનમીટર |
| (બ) | નીચે દર્શાવેલ ટેબલ મુજબ મીનીમમ કિગ્રા સિમેન્ટ કન્ટેન્ટ પ્રતિ ઘનમીટર   |

| Sr. No. | Cement Concrete Grade | 28 Days Strength in N/mm <sup>2</sup> | Minimum Cement in Kg |
|---------|-----------------------|---------------------------------------|----------------------|
| 1       | M-7.5 for PCC Work    | 7.5 N/mm <sup>2</sup>                 | 160 Kg               |
| 2       | M-10 for PCC Work     | 10 N/mm <sup>2</sup>                  | 220 Kg               |
| 3       | M-15 for PCC Work     | 15 N/mm <sup>2</sup>                  | 290 Kg               |
| 4       | M-20 for RCC Work     | 20 N/mm <sup>2</sup>                  | 360 Kg               |
| 5       | M-25 for RCC Work     | 25 N/mm <sup>2</sup>                  | 380 Kg               |
| 6       | M-30 for RCC Work     | 30 N/mm <sup>2</sup>                  | 410 Kg               |
| 7       | M-35 for RCC Work     | 35 N/mm <sup>2</sup>                  | 425 Kg               |
| 8       | M-40 for RCC Work     | 40 N/mm <sup>2</sup>                  | 440 Kg               |
| 9       | M-45 for RCC Work     | 45 N/mm <sup>2</sup>                  | 450 Kg               |

ઉપરોક્ત (અ) અને (બ) પૈકી જે વધુ હોય, તે સિમેન્ટ કન્ટેન્ટ ને ફાઈનલ મીનીમમ સિમેન્ટ કન્ટેન્ટ પ્રતિ ઘનમીટર ગણવા હુકમ કરવામાં આવે છે.

ઉપરોક્ત બાબતની અમલવારી તાત્કાલિક અસરથી ચુસ્તપણે કરવાની રહેશે.

  
કમિશ્નર  
રાજકોટ મહાનગરપાલિકા

નકલ રવાના (જાણ તથા અમલવારી અર્થે)

- નાયબ કમિશ્નરશ્રી (ઝોન-વેસ્ટ, સેન્ટ્રલ, ઇસ્ટ)

નકલ રવાના - (અમલવારી અર્થે)

- તમામ સીટી એન્જીનીયરશ્રી, એડી. સીટી એન્જીનીયરશ્રી, એક્ઝીક્યુટીવ એન્જીનીયરશ્રી, એન્વાયરમેન્ટ એન્જીનીયરશ્રી (S.W.M.)

R.M.C./C/ ૧૩૨

કમિશ્નર વિભાગ,  
રાજકોટ મહાનગર સેવાસહન  
તા. ૧૦/૬/૨૦૧૩

**હુકમ :-**

**વિષય:-** ઈ-ટેન્ડર / ઓપન ટેન્ડર પદ્ધતિથી મંગાવવામાં આવતી તમામ પ્રકારની ઓફરો સાથે બિનઅધિકૃત રજુ થતાં ડોક્યુમેન્ટસ સામે કડક કાર્યવાહી હાથ ધરવા બાબત.

**સંદર્ભ :-** આ અગાઉનાં પરીપત્ર નં. આર.એમ.સી./સી./૩૨૯. તા. ૨૨/૧૨/૨૦૧૨.

રાજકોટ મહાનગર સેવાસહનના ત્રણ જોનનાં તમામ વોર્ડમાં શહેરનાં વિકાસ તથા જાળવણી માટે વિવિધ કામગીરી કરાવવા ઈ-ટેન્ડર / ઓપન ટેન્ડર પદ્ધતિથી અલગ અલગ એજન્સીઓ પાસેથી સ્પર્ધાત્મક ધોરણે અગત્યની પ્રતિષ્ઠિથી ભાવો ટુ બીડ સીસ્ટમ (૧) ટેકનીકલ બીડ (૨) પ્રાઈઝ બીડ થી મંગાવવામાં આવે છે.

સંદર્ભના પ્રતિષ્ઠિ કરેલ પરીપત્ર મુજબ તમામ ઈ-ટેન્ડર / ઓપન ટેન્ડરથી મંગાવવામાં આવતાં ભાવો સાથે ભાવ ભરનાર એજન્સીઓ / બીડરો દ્વારા ટેન્ડર બીડ માટે રજુ કરવાનાં થતાં તમામ ડોક્યુમેન્ટસ ફરજિયાતપણે ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ રજુ કરવા આદેશ કરવામાં આવેલ છે. જે સંબંધે નીચે મુજબનાં હુકમની અમલવારી તાત્કાલીક અસરથી કરવા આદેશ કરવામાં આવે છે.

(૧) તમામ ટેન્ડરકામોના ટેકનીકલ બીડ ઓપન કરતી વખતે જે ટેન્ડર બીડ ભરનાર એજન્સીઓ દ્વારા તમામ ડોક્યુમેન્ટસ કે તે પૈકી કોઈપણ એક ડોક્યુમેન્ટસ ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ રજુ કરેલ ન હોય તો રજુ થયેલ ટેકનીકલ બીડ ઓપન કરવાની કાર્યવાહી દરમ્યાન ટેકનીકલ બીડ ઓપન કરનાર સંબંધીત અધિકારીશ્રી / કર્મચારીશ્રીએ Disqualify પ્રકારનો રબ્બર સ્ટેમ્પ બિનઅધિકૃત રજુ થયેલ ટેન્ડરનાં તમામ પાને લગાવી ટેકનીકલ બીડમાં ટેન્ડર Disqualify ફરજિયાતપણે કરવાનું રહેશે.

જે ટેન્ડર ખરી નકલ કે સેલ્ફ એટેસ્ટેડ સાથે રજુ થયેલ નથી, તેવું ટેકનીકલ બીડમાં ધ્યાને આવ્યેથી રજુ થયેલ ટેન્ડરને Disqualify ન કરી, તે બીડરનું જો પ્રાઈઝ બીડ ખોલવામાં આવશે તો આવા પ્રાઈઝ બીડ ખોલનાર તમામ સંબંધીત અધિકારીશ્રી / કર્મચારીશ્રી સામે સખત શિક્ષાત્મક પગલાં લેવાની ફરજ પડશે.

(૨) તમામ ટેન્ડરોનાં ડિસ્સાઓમાં સંબંધીત ખરી નકલમાં રજુ થયેલ તમામ ડોક્યુમેન્ટસની મુખ (ઓરીજીનલ) નકલ મંગાવી તેની ખરી નકલની ચકાસણી ફરજિયાતપણે સંબંધીત ડી.ઈ.ઈ.શ્રી તથા મ.ઈ.શ્રી / અ.મ.ઈ.શ્રીએ કરવાની રહેશે. જે મુજબ નકલ સાથે વેરીફાઇ કર્યાની સહી ફરજિયાતપણે દરેક ખરી નકલમાં સંબંધીત ડી.ઈ.ઈ.શ્રી / મ.ઈ.શ્રી / અ.મ.ઈ.શ્રીએ કરવાની રહેશે. તે પહેલાં તે ટેન્ડરની પ્રાઈઝ બીડ ઓપન કરી શકાશે નહીં, જેમાં ફરજિયાત થયેથી સંબંધીત જવાબદાર ડી.ઈ.ઈ.શ્રી / મ.ઈ.શ્રી / અ.મ.ઈ.શ્રી ની સામે કડક માતાકીય પગલાં લેવાની ફરજ પડશે.

(૩) ક્રમ નં. (૧) તથા (૨) મુજબની ચકાસણી કરવા છતાં જે ડિસ્સામાં ટેકનીકલ બીડ ઓપન કરતાં બીડર દ્વારા કોઈપણ પ્રકારનાં ફોડ ડોક્યુમેન્ટસ રજુ કરી કામ મેળવવા માટે પ્રયાસ કર્યાનું સાબિત થશે, તેવા ડિસ્સામાં બીડર / એજન્સીને બ્લેકલીસ્ટ કરી, આવા બીડર સામે ફરજિયાતપણે ફોજદારી કાર્યવાહી સંબંધીત શાખાના વડા તથા વીજલન્સ અધિકારીશ્રી (પ્રોટેક્શન) દ્વારા જોઈન્ટલી ટ્રિન-૭ માં કરવા આદેશ કરવામાં આવે છે. જેની લેખિતમાં



જાણ તાત્કાલીક અંગે કરવાની રહેશે, જેમાં ચૂક વયેથી સંબંધીત તમામ અધિકારીશ્રી / કર્મચારીશ્રી સામે કડક પગલાં લેવા ફરજ પડશે.

- (જ) સંદર્ભનો પરીપત્ર તથા આ હુકમ તમામ પ્રકારનાં ટેકનીકલ કામના દરેક ટેન્ડર પ્રસિધ્ધ કરતી વખતે ટેન્ડરનો હિસ્સો બધી ટેન્ડરના ભાગ તરીકે પ્રસિધ્ધ કરવાનું ફરજિયાત રહેશે, તથા બીડર દ્વારા ટેન્ડરમાં પ્રસિધ્ધ થતાં સંદર્ભનો પરીપત્ર તથા આ હુકમનો દરેક પાને સહી સિક્કા સાથે ભરેલ ટેન્ડરની ટેકનીકલ બીડ કરજાયાત રજુ કરવાની રહેશે.

ઉપરોક્ત હુકમનો તાત્કાલીક અસરથી ચુસ્તપણે અમલ કરવા આદેશ કરવામાં આવે છે.

*As*

કમિશ્નરશ્રી

રાજકોટ મહાનગર સેવાસંઘ

નકલ રવાના (જાણ અર્થે):-

નાયબ કમિશ્નરશ્રીઓ (તમામ)

નકલ જાણ તથા અમલવારી અર્થે :-

(૧) સહાયક કમિશ્નરશ્રીઓ (તમામ)

(૨) શાખાધિકારીશ્રીઓ (તમામ)

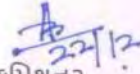
આર.એમ.સી./સી. ૩૨૪

રાજકોટ મહાનગરપાલિકા  
કમિશનર વિભાગ  
તા.૨૨/૧૨/૨૦૧૨

### પરિપત્ર:-

ઇ-ટેન્ડર પદ્ધતિ / ઓપન ટેન્ડર પદ્ધતિથી માંગવામાં આવતી ઓફરોમાં એજન્સીઓ દ્વારા ટેકનીકલ બીડમાં રજુ કરવામાં આવતા ડોક્યુમેન્ટ્સ જેવા કે ટર્નઓવર, અનુભવના પ્રમાણપત્રો વિગેરે ખરી નકલમાં રજૂ કરવામાં આવતા નથી. આથી હવે પછીથી એજન્સીઓ દ્વારા રજૂ થતાં ટેકનીકલ બીડમાં રજુ કરવામાં આવતા ડોક્યુમેન્ટ્સ ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ હોવા જરૂરી છે તેમજ જે એજન્સીનું ટેન્ડર ટેકનીકલ બીડમાં ક્વોલીફાય થાય અને ખરી નકલ ગેઝેટેડ ઓફીસર મારફત પ્રમાણિત કરાવેલ ન હોય તેવા કેસમાં તેના ઓરીજીનલ ડોક્યુમેન્ટ્સ પ્રાઇસબીડ ખોલતા પહેલા ચકાસી અને ખરી નકલ રજૂ કરાવીને જ ખોલવાના રહેશે તથા આ બાબતનું શાખાધિકારીશ્રીઓએ ચુસ્તપણે પાલન કરાવવાનું રહેશે. આમ ન થયેથી પુરતી ચકાસણીને અભાવે જો કોઇ એજન્સીને ખોટા કે અધુરા આધારો સાથે કામ આપવાની ક્ષતિજનક બાબત જાણમાં આવ્યે તે ટેન્ડર ડોક્યુમેન્ટ્સની ચકાસણી કરનાર કર્મચારીશ્રીઓ તેમજ શાખાધિકારીશ્રીની જવાબદારી નક્કી કરવામાં આવશે, જેની સર્વે શાખાધિકારીશ્રીઓએ નોંધ લેવી.

ઉપરોક્ત બાબતનો અમલ તાત્કાલિક અસરથી કરવો.

  
કમિશનર

રાજકોટ મહાનગરપાલિકા

નકલ રવાના :- (જાણ અર્થે)

- નાયબ કમિશનરશ્રીઓ (તમામ)

નકલ જાણ તથા અમલવારી અર્થે :-

- સહાયક કમિશનરશ્રીઓ (તમામ)

- શાખાધિકારીશ્રીઓ (તમામ)

**કચ્છી સરકારના જાહેરનામું**

જોષ્ટકારી કાર્યરીતી અધિનીયમ ૧૯૭૩ (૧૯૭૪ ના નં.૨) ની કલમ ૧૪૪ અન્વયે કાઢેલ ફુકમ

ક્રમાંક: એસ.બી./મજુર/જાહેરનામું/૧૩૩૬/૨૦૧૪.  
 પોલીસ કમિશનરશ્રીની કચેરી,  
 રાજકોટ શહેર, રાજકોટ.  
 તા. ૨૧/૦૪/૨૦૧૪

જોષ્ટકારીના બનાવોની તપાસ કરતા તપાસમાં આવા ગુનો કરનાર (કારકીર્તીયા) પકડાયેલ છે. ત્યારે તપાસમાં આવા ગુનો વાળા આરોપીઓ ગુનાના બનાવના દિવસે અગાઉ રાજકોટ શહેરમાં નવા બંધાતા ગામોમાં જુદી જુદી ઓધોગીક કંપનીઓમાં, કોર્પોરેશનમાં મજુરી કામ અને ટેલીફોન કંપનીઓમાં અને તથા ગેસ પાઇપ લાઇન માટે ખોદાતા ખાડાઓની મજુરી કામ મેળવી આશવા તેજા બહાના ફેક્ટરી આવી શોધવા કરી આપુલ્યુની સ્થાનિક પરીસ્થિતીનું સર્વે કરી માહિતીવાર કામ મિલકત વિસ્તરના ગુનોઓ આચરતા હોય છે. મજુરી કામના બહાના ફેક્ટરી આતંકવાદીઓ પણ આશરો મેળવી લેતા હોય છે જેથી જાહેર જનતાની જાન-માલ (મિલકત)ની સલામતી તથા સુરક્ષા સારૂ થોડા નિયંત્રણો મુકવ જરૂરી જણાય છે.

જેથી હું મોકલ ગ્રા. (પ.ક.ક), પોલીસ કમિશનર, રાજકોટ શહેર જોષ્ટકારી કાર્યરીતી અધિનીયમ (સી.આર.પી.સી.) ૧૯૭૩ (૧૯૭૪ ના નં.૨) ની કલમ ૧૪૪ અન્વયે અમીને મળેલ સલામતી હોયે આવી હું ફુકમ કરુ છું કે, રાજકોટ શહેરના પોલીસ કમિશનર વિસ્તારમાં લેબર કોન્ટ્રાક્ટર/મુશ્કટમજુરીઓ યોજાતી ખાસે જે મજુર કામ શખેલ હોય અને મજુરી કામકાજ માટે સખલાય કરતા હોય તેઓએ નીચે જણાવેલ કોમ મુકવ દરેક મજુરીના ચલકા-અલકા કોમ શરી કરજુવાત પલે સ્થાનિક પોલીસ સ્ટેશનને જણ કરવાની રહેશે તથા મજુરી જવાને મજુરી કામ તથા રાજકોટ શહેર છોડી જતા રહે ત્યારે લેબર કોન્ટ્રાક્ટર/મુશ્કટને તે અંગેની જણાવનામ સહિતની વિગત સખે સ્થાનિક પો.સ્ટે.મા કરવાની રહેશે.

|    |   |   |
|----|---|---|
| ૧  | લેબર કોન્ટ્રાક્ટર / મુશ્કટમ (સખલાયર) નું પુરૂ નામ સરનામું               | - |
| ૨  | મો.નં., નંબર સહિત   | - |
| ૩  | મજુરનું નામ તથા ડી.વ.   | - |
| ૪  | મજુરનું કાલનું સરનામું ટેલીફોન નંબર                                     | - |
| ૫  | મજુરનું મૂળ વતનનું સરનામું ગામ, તાલુકો, જિલ્લો                          | - |
| ૬  | શાલની મજુરીનું સ્થળ / કંપનીનું નામ                                      | - |
| ૭  | મજુરનું વતનનું સ્થાનિક પો.સ્ટે.નું નામ તથા ટેલીફોન નંબર                 | - |
| ૮  | મજુરના વતનના આગેવાનનું નામ, સરનામું, ટેલીફોન નંબર                       | - |
| ૯  | મજુર અગાઉ કોઇ પોલીસ ગુનામાં પકડાયેલ હોય તો તેની વિગત                    | - |
| ૧૦ | કચ્છી મજુરી / કોન્ટ્રાક્ટર મજુરી કામ માટે અખેલ છે                       | - |
| ૧૧ | મજુરનું અભ્યાસ માટેનું આઇ.ડી.પુરૂ (કોટા કારી નું)                       | - |
| ૧૨ | રાજકોટ શહેરમાં કોઇ તારીખથી મજુરી કામ કરે છે ? અને કોઇ તારીખે જવાતો છે ? | - |
| ૧૩ | રાજકોટ શહેરમાં નજુકના સંબંધી કોઇ કોચતો તેનું નામ, સરનામું               | - |

મજુરનો તારીખતરનો કોશ..... મજુરનો અંગુશાનું નિશાન.....  
 મુશ્કટમ/સખલાયર/કોન્ટ્રાક્ટરની સહી.....  
 નામ.....  
 આ ફુકમ તા. ૦૧/૦૫/૨૦૧૪ થી તા. ૩૦/૦૬/૨૦૧૪ તુધી અમલમાં રહેશે.  
 આ ફુકમની અંગ કરનાર વ્યક્તિ ભારતીય ટેલ સહિતાની કલમ ૧૮૮ મુકવ શિક્ષાને પાત્ર હશે.  
 ૧૧/૨૦૧૪  
 ૨૧/૧૧/૨૦૧૪



તમામને વ્યક્તિગત રીતે જોડીઓના બજાવણી કરવો શક્ય ન હોય ત્યાંથી એકત્રીકૃત ટુકડા કરી જાહેર જનતાની જાણ સારું સ્થાનિક વર્તમાન પણ આકાશવાણી અને ટુરટર્જન કેન્દ્ર મારફતે પ્રસિધ્ધી દ્વારા તાજા પોલીસ સ્ટેશનના પોલીસ ઈન્સ્પેક્ટર, મહત્વની પોલીસ ઈન્સ્પેક્ટર, આચાર્ય પોલીસ ઈન્સ્પેક્ટર તથા પોલીસ ઈન્સ્પેક્ટર કરોડીના ગોટીશ બોર્ડ ઉપર ટુકડાની નકલ ચોટાટી પ્રસિધ્ધી કરવામાં આવશે તેમજ સંબંધિતથી જોઈ શકાય તેવી જાહેર જનતાઓ ઉપર ટુકડાની નકલ ચોટાટી પ્રસિધ્ધી કરવામાં આવશે તુરંત પોલીસ એન્ડ હાઇ વેલ મુખ્ય પોલીસ અધિકારીઓ પણ આ ટુકડાની જાહેરાત કરવા અધિકૃત ગણાશે.

આજ તારીખથી એપ્રિલ-૨૦૧૪ ના રોજ મારી સહી અને સિક્કો કરી આગેલ છે.



*(Signature)*  
 પોલીસ ઈન્સ્પેક્ટર  
 રાજકોટ શહેર, રાજકોટ

જાહેર જાણના:

- (૧) અગ્ર સચિવશ્રી, ગુજ વિભાગ, ગાંધીનગર.
- (૨) પોલીસ મહાનિરીક્ષક અને મુખ્ય પોલીસ અધિકારીશ્રી, ગુ. રા. ગાંધીનગર
- (૩) અધિક પોલીસ મુખ્ય નિરીક્ષકશ્રી (ઈન્ડે.) ગુ. રા. ગાંધીનગર.
- (૪) પોલીસ ઈન્સ્પેક્ટરશ્રી, અમદાવાદ શહેર, વડોદરા શહેર, સુરત શહેર.
- (૫) ખાસ મુખ્ય પોલીસ અધિકારીશ્રી, રાજકોટ શહેર, રાજકોટ.
- (૬) જીલ્લા પોલીસ અધિકારીશ્રી, રાજકોટ શહેર, રાજકોટ.
- (૭) સહકારકર્તા, રાજકોટ શહેર.
- (૮) મ્યુનિસિપલ ઈન્સ્પેક્ટરશ્રી, રાજકોટ શહેર.
- (૯) નિયામકશ્રી, માહિતી પ્રવૃત્તિ ડિપાર્ટમેન્ટ, અહીંના મુખ્ય સચિવાલય પ્લોટ નં.૧, વીજા માથે, ગુ. રા. ગાંધીનગર.
- (૧૦) જીલ્લા સરકારી વકીલશ્રી, સેક્શન નં.૨, રાજકોટ.
- (૧૧) ટેલિગ્રાફી, ટેલિગ્રાફ પોસ્ટ, રાજકોટ, ટેલિગ્રાફ બંગ્લો નં. પ્રસિધ્ધ કરવા સારું.
- (૧૨) મહત્વની પોલીસ ઈન્સ્પેક્ટરશ્રી, પુલવ પબ્લિક વિભાગ, રાજકોટ શહેર.
- (૧૩) આર્ચ. ઈન્સ્પેક્ટરશ્રી (ઈન્ડે.), રાજકોટ સિટીવલ, રાજકોટ.
- (૧૪) આચાર્ય પોલીસ અધિકારીશ્રી, પી. ઈન્ડે.શ્રી, રાજકોટ જે.એ. જઈસન પી.એ.
- (૧૫) તમામ પો.સે. ઈન્ચાર્જશ્રીઓ, રાજકોટ શહેર(નકલ) ચોટાટી લાઉટ સ્પીકર વાહન દ્વારા જાહેરાત કરાવવા સારું.
- (૧૬) તમામ સ્ટેશન તથા માથા ઈન્ચાર્જશ્રીઓ, રાજકોટ શહેર.
- (૧૭) ઈન્ડોર ઈન્ચાર્જશ્રી, રાજકોટ શહેર (નકલ) વર્તમાનપત્રોને આપવી.
- (૧૮) લેખક ઈન્સ્પેક્ટરશ્રી, ... તમામ ખાતરી સભ્યશ્રીને અવગત કરવવા સારું.

નકલ પ્રસિધ્ધી કરવાના:

- (૧) રાજકોટશ્રી, ઈન્ડે.શ્રી, ગુ. રા. સોલાસીસ અમદાવાદ.
  - (૨) રાજકોટશ્રી, ઈન્ડે.શ્રી એન્ડ સેક્શન ઈન્ડે, રાજકોટ.
  - (૩) રાજકોટશ્રી, શ્રી જયકીશંકર મેજા. શ્રી ઈન્ડે, રાજકોટ.
  - (૪) રાજકોટશ્રી, ઈન્ડે.શ્રી સેક્શન નં.૨, રાજકોટ.
  - (૫) એકઝીક્યુટીવ મેજા.શ્રી, રાજકોટ શહેર.
  - (૬) એકઝીક્યુટીવ મેજા.શ્રી, રાજકોટ નવુશ.
  - (૭) સચુકત માહિતી નિયામકશ્રી, રાજકોટ.
- (સ્થાનિક વર્તમાનપત્રો, આકાશવાણી તથા ટુરટર્જન કેન્દ્રમાં પ્રસિધ્ધ કરવા અને વર્તમાનપત્રોની કાપડીઓ ઓફરવા સારું)

૧૭૧



## રાજકોટ મહાનગરપાલિકા

### હિસાબી શાખા

ડો.આંબેડકર ભવન, ઢેબરભાઇ રોડ, રાજકોટ - ૩૬૦ ૦૦૧.

રા.મ.ન.પા./હિસાબી/જા.નં.....૨૨૧

તા. ૧૬/૬/૨૦૧૭

નોંધ -

વિષય - Vendor Regi. માં GST No. Update કરવા બાબત

ઉપરોક્ત વિષયે જણાવવાનું કે રાજકોટ મહાનગરપાલિકા નાં તમામ વેન્ડર / કોન્ટ્રાક્ટરો ની Vendor Registration માં GST No. ની જરૂરીયાત હોય તાત્કાલીક અપડેટ કરવા વિનંતિ. Temporary Vendor નાં Regi. આપની શાખામાં જ થઇ જશે જ્યારે Permanent Vendor નાં GST No. અપડેટ કરવા શાખા અધિકારીશ્રી નાં જરૂરી સહી સીકકા સાથે નીચે મુજબ વિગત નું પત્રક બનાવી દિવસ - ૭ માં હિસાબી શાખામાં માહિતી મોકલાવી આપવા વિનંતિ.

| Vendor Name | Existing Vendor Regi. No. | PAN | GST NO. |
|-------------|---------------------------|-----|---------|
|             |                           |     |         |
|             |                           |     |         |
|             |                           |     |         |

19/6  
જાણી (૯૨)  
સે. ઝોન માંધકામ શાખા  
કોન્ટ્રાક્ટ નંબર ૬૨૧૧  
નોંધ - ૬૯૦

ચીફ એકાઉન્ટન્ટ  
રાજકોટ મહાનગરપાલિકા

નોંધ - તમામ વિગતો ચકાસીને અપડેટ કરવી / ચકાસીને મોકલવી અન્યથા સપ્લાયર્સ ને TDS ની કેડીટ મળશે નહીં જેની નોંધ લેવા વિનંતિ.

નકલ અમલવારી અર્થે

1. તમામ શાખા અધિકારીશ્રી ઓ

નકલ સવિનય જાણ અર્થે

1. માન. કમિશ્નર સાહેબશ્રી
2. માન. નાયબ કમિશ્નર સાહેબશ્રી

રાજકોટ મહાનગરપાલિકા  
સે. ઝોન માંધકામ શાખા  
કોન્ટ્રાક્ટ નંબર ૬૩૭  
તારીખ ૧૬/૬/૧૭



આથી હું અમિત અરોરા (IAS), મ્યુનિસીપલ કમિશનર, રાજકોટ મહાનગરપાલિકા, રાજકોટ ગુજરાત પ્રોવિન્સીયલ મ્યુનિસીપલ કોર્પોરેશન એક્ટ-૧૯૪૯ની જોગવાઈ અનુસંધાને મળેલ સત્તા મુજબ, જાહેર હિતને ધ્યાને લઈ, રાજકોટ મહાનગરપાલિકા વિસ્તારમાં ઇમારત તોડવા, સમારકામ અથવા તો નવા બાંધકામ દરમ્યાન ઉપસ્થિત થતા બાંધકામએ લગત કચરા (Construction and Demolition Waste) નો રાજકોટ મહાનગરપાલિકા દ્વારા નિયત કરાયેલ જગ્યા સિવાય નિકાલ કરવા પ્રતિબંધ ફરમાવું છું.

એવું ધ્યાનમાં આવેલ છે જે, રાજકોટ મહાનગરપાલિકા વિસ્તારમાં ઇમારત, ઇમારતોના બાંધકામ દરમ્યાન નળીયા, પથરા, ઇંટો, ઇમારત બાંધવાના માલ સામાન અને એવા માલ સામાનનો કાટમાળ ગમે તે જગ્યાએ નિકાલ / એકઠો કરવામાં આવે છે. જેનાથી એવી જગ્યાએ ઉંદરો અથવા અન્ય જીવ જંતુઓનું આશ્રય સ્થાન અથવા ઉત્પત્તિ સ્થાન બને છે. તેમજ સદરહું જગ્યાનો ભોગવટો કરનારાઓને અથવા પડોશમાં રહેતી વ્યક્તિઓના ભય અને ઉપદ્રવનું કારણ બને છે. તેના કારણે રોગચાળો ફેલાવવાનો ભય અને લોકોના આરોગ્ય તથા જાનમાલને નુકસાન થાય તેવી સ્થિતિ ઉત્પન્ન થાય છે. તેમજ તે કચરો (Construction and Demolition Waste) દુર કરવા રાજકોટ મહાનગરપાલિકાને ખુબજ મોટો ખર્ચ થાય છે, તેમજ માનવ સમય બગડે છે. આમ, લોકોના જાનમાલના અને આરોગ્યના નુકસાનના ભોગે આવી ગેરકાયદેસર પ્રવૃત્તિ ચાલી રહેલ છે, આવી કોઇપણ પ્રવૃત્તિ જન આરોગ્ય માટે બિન સલામતી નોતરે તેમ હોય, ગુજરાત પ્રોવિન્સીયલ મ્યુનિસીપલ કોર્પોરેશન એક્ટ અનુસુચી-ક ના પ્રકરણ-૧૪ ની જોગવાઈઓ અનુસંધાને આવી તમામ પ્રવૃત્તિ કરવાનો અગાઉના જાહેરનામા નં.રા.મ.ન.પા./મ.ઓ./સો.વે.મે./જા.નં.૧૯૪૧, તા.૦૬/૦૮/૨૦૧૯ થી પ્રતિષેધ ફરમાવવામાં આવેલ અને આવા કચરા (Construction and Demolition Waste)ના નિકાલ માટે રાજકોટ મહાનગરપાલિકાએ નીચે દર્શાવેલ સ્થળો નિયત કરવામાં આવેલ.

૧. કોઠારીયા પોલીસ ચોકીની બાજુમાં પથ્થરની ખાણ પાસે,
૨. રૈયા સ્માર્ટ સીટીના તમામ ખાણ વિસ્તાર,
૩. ટી.પી.સ્કીમ નં.૧૦, એફ.પી.-૮૭, ઢેબર રોડ, સાઉથ અટીકા વિસ્તાર, પી.જી.વી.સી.એલ. ઓફિસ પાસે,
૪. ટી.પી.સ્કીમ નં.૨૩, એફ.પી.-૨૩, મોરબી રોડ, પોપટપરા આઇ.ઓ.સી. ગોડાઉન પાસે,
૫. સમ્રાટ ઇન્ડ. એરિયા, એસ.ટી. વર્કશોપ પાછળ, અનામત પ્લોટ,
૬. ટી.પી.સ્કીમ નં.૯, એફ.પી.-૫, રૈયાધાર ગાર્બેજ ટ્રાન્સફર સ્ટેશન પાસે,
૭. ટી.પી.સ્કીમ નં.૨૦, એફ.પી.-૩૫, પ્રધ્યુમન ગ્રીન પાછળ

ઉપરોક્ત સ્થળો ઉપરાંત નીચે મુજબના સ્થળો Construction and Demolition Waste ના નિકાલ માટે નિયત કરવામાં આવે છે.

૧. જેટકો ચોકડી, ટી.પી.સ્કીમ નં.૨૮, મવડી, એફ.પી.-૪૬/એ,
૨. ટી.પી.સ્કીમ નં.૧૨, કોઠારીયા નેશનલ હાઇવે, લીજજત પાપડ પાસે, એફ.પી.-૩૮/એ, ૩૯/બી.

ઉપરોક્ત નિયત કરેલ સ્થળો સિવાય અન્ય કોઇપણ જગ્યાએ કોઇપણ ઇસમ/ઇસમો છકડો, ટ્રેક્ટર અથવા ડમ્પર દ્વારા (Construction and Demolition Waste) નો નિકાલ કરતાં પકડાશે તો પ્રથમ વખત છકડો/ટ્રેક્ટર ટીઠ રૂ.૭,૫૦૦/- તથા ડમ્પર ટીઠ રૂ.૧૫,૦૦૦/-, બીજી વખત છકડો/ટ્રેક્ટર ટીઠ રૂ.૧૫,૦૦૦/- તથા ડમ્પર ટીઠ

રૂ.30,000/- અને ત્રીજી વખત છકડો/ટ્રેકટર દીઠ રૂ.40,000/- તથા ડમ્પર દીઠ રૂ.૧,00,000/-લેખે વહીવટી ચાર્જ વસુલ કરવામાં આવશે. તેમજ વાહન જપ્ત કરવા સુધીની કાર્યવાહી કરવામાં આવશે.

શહેરમાં વસતાં નાગરીકો દ્વારા ઉપરોક્ત Construction and Demolition Waste ના નિકાલ માટે રાજકોટ મહાનગરપાલિકા દ્વારા ઝોન વાઇઝ કામગીરી માટે Construction and Demolition Waste સેલની રચના કરવામાં આવેલ છે. શહેરના નાગરિકો રાજકોટ મહાનગરપાલિકાના કોલ સેન્ટર - ૦૨૮૧-૨૪૫૦૦૭૭ પર ઝોન કરી તેમની મિલકતનાં રીપેરીંગ કે કાટમાળનો નિકાલ નીચે મુજબનાં નિયત થયેલ ચાર્જીસ ભરપાઇ કરી નિકાલ કરવાની વ્યવસ્થાનો લાભ મેળવી શકશે.

- રીક્ષા કે ૧/૨ ટ્રેકટર રૂ.૩૦૦/-
- ટ્રેકટર જેટલો જથ્થો રૂ.૫૦૦/-
- ટ્રક / ડમ્પર જેટલો જથ્થો રૂ.૧,૦૦૦/-

ઉપરોક્ત નિયત કરાયેલ સ્થળોએથી ખાનગી માલિકો, જુનો એકત્રિત થયેલ બાંધકામનો કાટમાળ પોતાના ઉપયોગ માટે સ્વખર્ચે ઉપાડી લઇ જઇ શકશે.

ઉક્ત જાહેરનામાનો ચુસ્તપણે અમલ કરવો.

રાજકોટ.

તા. 4/6/2022



કમિશનર  
રાજકોટ મહાનગરપાલિકા



સંખ્યા: અશન/૨૯૭/૨૦૦૨/૪૨૨૮

મુદિ: ૩૦/૭/૨૦૦૨  
સ્તંભ અને નીચલી ભાગ  
૨૬૨૨-૧૩-૨૦૦૨  
બાંધીનગર,  
ગાંધીધામ

વિષય: કાર્યવાહી અંગે,  
અભ્યાસ નં. અને મકાન વિભાગ  
મુદિ: ૨૯/૭/૦૨

વિષય: કાર્યવાહી અંગે કુટુંબ વસુલાત ભુખત

સંદર્ભ: આપની કવેરી નં. ૩૦/૭/૨૦૦૨નો પત્ર

અરજીકર્તા વિષય અને સંદર્ભ પત્ર દ્વારા આપની કવેરી દ્વારા "કાર્યવાહી" પર  
કુટુંબ વસુલાત અંગે કુટુંબ વસુલાત માર્ગદર્શન બાબતે જણાવવાનું કે, અંગેની કવેરીમાં પરિણામ નં. ૩૦/૭/૨૦૦૨/૨૩૮૮ નં. ૫/૨-૨૦૦૨ ના પરિપત્ર ની નકલ પોકલવાપા આપે છે. જેના પર આ  
વિષય (૨)માં જણાવેલ સ્તંભ કુટુંબ વસુલાતની વાપ છે.

વિશેષમાં જણાવવાનું કે, આપના દ્વારા અંગે રજૂ થયેલ વિગત અનુસાર અંગેની વા  
૨૦૦૨ ના પરિપત્ર ના મુદ્દા નં. ૨ મુજબ એડીમેન્ટ માટે રૂા, ૧૦૦/- તથા ડિપોઝીટ તરીકે લેવામાં  
આવેલ નેશનલાઈઝેશન બેંકની ડીકલ ડિપોઝીટ તથા નાની બચત પત્રોની ર.૫ ટ (અહીં ટકા) રકમ રૂ  
૨૫,૦૦ ૪૦૦/- ઉપર આઈકલ - ૩૬ (૬) સાથે આઈકલ - ૨૦(૬)ના પ્રવાહન કર તથા  
૨૫/- ૩ મુજબ અનુચિત ૧૦૦ જે ૪.૦% મુજબ સ્તંભ કુટુંબ વસુલાત અંગેની વા  
જાણ કરવામાં આવે છે. જે વિગત આપે.

સંદર્ભ: આપની નકલ.

Office of the E. E. P.A.  
R&B Dept., Gandhinagar  
30/7/02  
AUG 2002  
R.B.

મુદિ: ૨૯/૭/૦૨  
બાંધીનગર,  
ગાંધીધામ

૨૧-  
૨૨/૭/૦૨

૪૨૨  
૨૯/૭/૦૨



નં. સ્ટેમ્પ-અનામ-૧૪-૨૦૦૭-૯૩૦

સુપ્રિ.ઓફ સ્ટેમ્પસની કચેરી,  
સ્ટેમ્પ અને નોંધણી ભવન,  
સેક્ટર-૧૩-સી, ખ રોડ,  
ગાંધીનગર.

તા. ૧-૨-૦૭

પરિપત્ર:-

અત્રેની કચેરીના ધ્યાન ઉપર આવેલ વિગત મુજબ ગુજરાત રાજ્યમાં આવેલ જીલ્લા પંચાયત, નગર પાલિકાઓ તરફથી કરવાના થતા બાંધકામ તથા અન્ય કામો માટે ટેન્ડર બહાર પાડી. કોન્ટ્રાક્ટરો પાસે કામગીરી કરાવવામાં આવે છે. આવી કામગીરી માટે જે કોન્ટ્રાક્ટરનું ટેન્ડર મંજૂર કરવામાં આવે છે. તે ટેન્ડરની અંદાજીત રકમ પૈકી નિયમોનુસાર અનામતની (સીક્યુરીટી - ડીપોઝીટની) રકમ લેવામાં આવે છે. તે અંગે જીલ્લા પંચાયત / નગરપાલિકા / મહાનગરપાલિકા અને કોન્ટ્રાક્ટર વચ્ચે કરાર કરવામાં આવે છે. આવા કરારો સ્ટેમ્પ ડ્યુટીના અભિપ્રાય માટે અત્રે રજૂ કરવામાં આવે છે. તેમાં જે ડિપોઝીટની રકમ અનામત મુકવાની થાય છે. તે રોકડ, ચેક, ડીમાન્ડ ડ્રાફ્ટ બેંક ગેરંટી ફિક્સ ડીપોઝીટ રીસીપ્ટ એન.એસ.સી. બચતપત્ર વિગેરે પૈકીના એક યા વધુ માધ્યમથી આપવામાં આવે છે. તેમાં ટેન્ડર અન્વયે કેટલી રકમ સીક્યુરીટી ડીપોઝીટ ગેરંટી મુકવાની છે અને કયા માધ્યમથી મુકવામાં આવે છે. તેની પુરેપુરી વિગત રજૂ કરેલ ન.હોય તો આવા કેસોમાં પુરેપુરી વિગત રજૂ કરવામાં ન આવે ત્યાં સુધી અભિપ્રાય આપી શકાતો નથી અથવા વિલંબ થાય છે. આવી પરિસ્થિતિ નિવારવા અને ટેન્ડરની રકમ અન્વયે જે કરાર કરવામાં આવે છે. તેમાં નીચેની વિગતો સ્ટેમ્પ ડ્યુટી લેવાની થાય છે.

(૧) અનામતની જે રકમ રોકડ, ચેક યા ડ્રાફ્ટથી લેવામાં આવે અથવા તો બેંક ગેરંટીથી આપવામાં આવે તો કરારના લેખ ઉપર મુંબઈ સ્ટેમ્પ અધિનિયમ-૧૯૫૮ની અનુસુચિ-૧ ના આર્ટીકલ-૫ (જ) મુજબ કરાર ઉપર રૂા. ૧૦૦/- સ્ટેમ્પ ડ્યુટી વાપરવાની થાય છે.

(૨) ટેન્ડર અન્વયે જે અનામતની રકમ ફિક્સ ડીપોઝીટ રીસીપ્ટ, એન.એસ.સી. યા અન્ય કોઈ બચતપત્રના માધ્યમ થી અનામત મુકવામાં આવે તો તેટલી અનામતની રકમ ઉપર મુંબઈ સ્ટેમ્પ અધિનિયમ-૧૯૫૮ની અનુસુચિ-૧ ના આર્ટીકલ-૩૬ (ક) સાથે આર્ટીકલ ૨૦ (ક) મુજબ આ રીતે આપવામાં આવેલ અનામતની રકમના પ્રત્યેક રૂા. ૧૦૦/- અથવા તેના ભાગ માટે ૪.૨૫% પ્રમાણે સ્ટેમ્પ ડ્યુટીને પાત્ર બને છે.

આપના તરફથી જે કામો માટે ટેન્ડર બહાર પાડવામાં આવે અને તેમાં ટેન્ડરની રકમ અન્વયે જે રકમ ડિપોઝીટ (અનામત) મુકવામાં આવે છે. તેમાં ઉપર દર્શાવ્યા મુજબ સ્ટેમ્પ ડ્યુટીને પાત્ર બને છે. તે મુજબ અમલ કરવા વિનંતી છે. સાથોસાથ આપના ધ્યાને

સુપ્રિ.ઓફ સ્ટેમ્પસની કચેરી  
૧૩/૨/૦૭

|             |
|-------------|
| જાહેરાત     |
| નં. ૧૧૫૬    |
| તા. ૧૩/૨/૦૭ |

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સુપ્રિ.ઓફ સ્ટેમ્પસની કચેરી  
૧૩/૨/૦૭



કોન્ટ્રાક્ટરને વર્ક ઓર્ડર આપવામાં આવે તે સમયે કરારનામા ઉપર ઉક્ત વિગતે યોગ્ય સ્ટેમ્પ  
ડયુટી ભરવાઈ કરેલ છે. કેમ? તેની પ્રકાશગ્રી કરવા પણ જાણવામાં આવે છે.



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સુભાષી સુભાષી સુભાષી

પ્રતિ, (૧) મુખ્ય મંત્રી કમિશ્નરશ્રી,  
(૨) શ્રીલલા વિકાસ અધિકારી,  
શ્રીલલા વિકાસ અધિકારીની કચેરી

.....  
(૩) મુનીતા પલ કમિશ્નરશ્રી,  
મુ. કમિશ્નરશ્રીની કચેરી

.....  
(૪) મોક ઓફિસરશ્રી તમામ  
નગરપાલિકા કચેરી,  
..... (૫) મુખ્ય મંત્રી કમિશ્નરશ્રી

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RAJKOT MUNICIPAL CORPORATION  
ACCOUNTS DEPARTMENT  
Room No. 4, 2<sup>nd</sup> Floor  
Dr. Ambedkar Bhavan,  
Debar Road,  
Rajkot - 360001

## PARTY/VENDOR REGISTRATION FORM

|  |   |             |
|--|---|-------------|
| VENDOR CODE                                    | : |             |
| Party Name                                     | : |             |
| Authorized Person                              | : |             |
| PAN Card No.                                   | : |             |
| GST No.  | : |             |
| Address  | : |             |
| City   | : |             |
| Phone No.                                      | : |             |
| Mobile No.                                     | : |             |
| eMail ID                                       | : |             |
| Website  | : |             |
| Area Of Work                                   | : |             |
| Bank Details (attach copy of cancelled cheque) | : |             |
| Bank Name                                      | : |             |
| Branch Name                                    | : |             |
| MICR Code                                      | : | IFSC Code : |
| Account Type                                   | : |             |
| Account No.                                    | : |             |

- (1) Any vendor while filling a tender shall quote registration details; if he is not registered he will give fresh details along with tender.
- (2) Accounts branch will designate a person who will keep the forms and also authorize new registrations or edit existing registrations.

TO,  
CHIEF ACCOUNTANT,  
ACCOUNT DEPARTMENT,  
RAJKOT MUNICIPAL CORPORATION

THE ABOVE MENTIONED DETAILS FOR VENDOR REGISTRATION HAS BEEN VERIFIED BY US & FOUND CORRECT. KINDLY REGISTER ABOVE VENDOR.

SIGN  
NAME  
DESIGNATION  
DEPARTMENT NAME

રાજકોટ મહાનગરપાલિકા

હિસાબી શાખા

તા. ૨૦/૦૯/૨૦૧૮

જા. નં. ૧૬૧૭

પરિપત્ર :-


વિષય :- તા. ૦૧/૧૦/૨૦૧૮ થી જી.એસ.ટી. ટી.ડી.એસ. ની કપાત બાબત

સંદર્ભ :- (૧) GoI, MoF (Department of Revenue) Central Board Indirect Taxes and  
Customs Notification No. 50/2018-Central Tax

(૨) GoG, Finance Department Notification No. 50/2018-State Tax

ઉપરોક્ત વિષય અને સંદર્ભે ગુજરાત ગુડ્સ એન્ડ સર્વિસ ટેક્સ એક્ટ, ૨૦૧૭ તથા સેન્ટ્રલ ગુડ્સ એન્ડ સર્વિસ ટેક્સ એક્ટ, ૨૦૧૭ ની કલમ ૫૧ અનુસાર રૂ. ૨,૫૦,૦૦૦ થી વધુ રકમના વેરાપાત્ર ચીજવસ્તુઓ ખરીદે કે વેરાપાત્ર સેવાઓ કોન્ટ્રાક્ટથી મેળવે તો કુલ ૨% (બે ટકા) ટેક્સ ડિડક્શન એટ સોર્સ (જી.એસ.ટી. ટી.ડી.એસ) કાપવાનો થાય છે.

આમ ઉપરોક્ત બાબતો ધ્યાને લઈ વધારાની ૨% ની વધારાની નિયમો અનુસાર બિલમાંથી તા. ૦૧/૧૦/૨૦૧૮ થી જી.એસ.ટી. ટી.ડી.એસ. ની કપાત કરવાની થાય છે.

  
નાયબ કમિશ્નર

રાજકોટ મહાનગરપાલિકા

બિડાણ :- GST FAQ's

નકલ સવિનય જાણ અર્થે:-

(૧) માન. કમિશ્નર સાહેબશ્રી

(૨) માન. નાયબ કમિશ્નર સાહેબશ્રી, (વે.ઓન. ઈ.ઓન.)

નકલ અમલવારી અર્થે:-

(૧) તમામ શાખા અધિકારીશ્રી

સા.મ.ન.પા.લી.જલ.ખ.નં. 1571  
૨૧/૧૨/૧૯

સા.મ.ન.પા.લી.જલ.ખ.નં. 1571

રાજકોટ મહાનગરપાલિકા  
લીંગલ મહલ  
તા. ૨૧/૧૨/૨૦૧૯

પરિપત્ર :

વિષય : ઇ.પી.એફ. યોજના અંતર્ગત આપવાની થતી માહિતી

રાજકોટ મહાનગરપાલિકાની જુદી-જુદી શાખાઓમાં કરના વજાવતા કર્મચારી કે કર્મચારીને ઇ.પી.એફ. યોજના લાગુ પડે છે. અથવા તો જેઓને એક વખત આ યોજના લાગુ પડી ગયેલ હોય, તેઓના ઇ.પી.એફ. એકાઉન્ટમાં કે.વાચ.સી. (K.V.C.S.I) ફોર્મમાં આધાર કાર્ડ, પાનકાર્ડ, લેક એકાઉન્ટની વિગતો તથા બીજાકોઈ કોઈ વખતે કરવાના બાકી હોય તેનું લીસ્ટ ઇ.પી.એફ. કચેરીમાં જે કર્મચારી/એકાઉન્ટ હોલ્ડરની જરૂરી વિગતો પુરી પાડવામાં આવેલ ન હોય તે સત્વરે પુરી પાડવાની યાચ છે. તથા અરેંથી આ કામગીરીના સકલન કરી નિયુક્ત કરવામાં આવેલ પેનલ એડવોકેટ તરફથી ઇ-મેઇલ મારફતે યાદી પુરી પાડેલ છે. જે આ તારીખે સામેલ છે. સકારકું લીસ્ટના કર્મચારીઓની વિગત સંબંધિત કાબાએ ટિન-૧ માં પેનલ એડવોકેટ અમલ કન્સલ્ટન્ટ ને અચુકપણે પહોંચતી કરવાની યાચ છે.

આ ઉપરાંત રાજકોટ મહાનગરપાલિકાની જુદી-જુદી શાખાઓ વાસ સને ૨૦૧૧ થી આજરિન સુધી કોન્ટ્રાક્ટરો મારફતે કાર્ય કરાવેલ હોય જેમાં માનવક્રમનો ઉપયોગ થયો હોય તે સંબંધિત કોન્ટ્રાક્ટરો ઇ.પી.એફ. એક્ટ તથા ઇ.એસ.આઇ. એક્ટ હેઠળ રજીસ્ટ્રેશન કરાવેલ છે કે કેમ તેની ખસણ બાદ જે સંબંધિત કોન્ટ્રાક્ટરરશીઓના બીલ પાસ કરવા બગાઉ સુચના આપવામાં આવેલ હતી. જેનો કોઈકે કોઈક સંબંધિત સુચના આપવામાં આવે છે. સંબંધિત કોન્ટ્રાક્ટરોની તથા તેઓ કસ્ટડના કમિટીની ઇ.પી.એફ. કચેરી તરફથી આવેલ પત્રમાં દર્શાવેલ વિગતો તાત્કાલિક ધસરથી પેનલ એડવોકેટશીને ટિન-૧ માં પહોંચતી કરવા હેતુ શાખાધિકારીને સુચિત કરવામાં આવે છે.

રાજકોટ મહાનગરપાલિકા  
લિંગલ શાખા  
કોર્ડ નં. ૩૫૨  
૨૧/૧૨/૧૯



સદરફુ વિગત વિગત સમયમર્યાદામાં ન પહોંચવાના સંજોગોમાં બચવા તે ગમપુરો અને બોટા વિગતો મોકલવા બાબતે સંબંધિત શાખાઓની વ્યક્તિગત જવાબદારી નક્કી કરવામાં આવશે. જેટલી ટીમમાં રાજીવના પ્રમાણેના સજકોટ મહાનગરપાલિકાના કર્મચારીઓની વિગતો તથા શાખાની ટીમો ઠરાવના કોન્ટ્રાક્ટર તથા તેઓ ઠરાવના કમિટીની વિગતો જોઈ ચકાસાઈ કરી વિગત કરેલા સમયમર્યાદામાં પેનલ બેડવોકેટને પહોંચવી કરવી. તથા તેની જાકુ લીગલ સાબતને કરવી

ઉપરીકલ પરિપત્રનો મુસ્તપાણે તાત્કાલિક બહારથી અમલ કરવો

નકલ સવિનય રવાના :-

- મહાન કમિશનર સજકોટ
- નાયબ કમિશનર ડહ.જો. / સે.જો. :

નકલ રવાના :-

તમામ શાખાઓની (બમલસર)

પેનલ બેડવોકેટનું સરનામું :-

અધ્યા કોનેલ્ટન્ટ  
 ૫૦૨ મેન્ડુરેટ સુનેર  
 રાજીવ સીડ. સાયકલ જોન ઉપર  
 સજકોટ, ડોન નં. ૨૪૨૩૩૮૦

  
 સજકોટ મહાનગરપાલિકા

નોંધ : સંબંધિત કોન્ટ્રાક્ટરો ઇ.પી.બેડ બેડ તથા ઇ.પી.બેડ બેડ બેડ રજીસ્ટ્રેશન ન કરેલા હોય તેવા તમામ કોન્ટ્રાક્ટરોના બીલી ઓડીટ તથા કિમાબી શાખાને મંજુર કરવા નહીં

સ.મ.નં.પા./લીગલ/જા.નં. ૧૮૧/૧૮

રાજકોટ મહાનગરપાલિકા

લીગલ શાખા

તા.૧૧/૨/૨૦૧૭

ક્રમ:

વંશાણી : લીગલ ફાઇલ નં.૩૭૧/૨૦૧૬-૧૭

રાજકોટ મહાનગરપાલિકાની કામગીરી માટે જુદી-જુદી શાખાઓ દ્વારા કામગીરીના પ્રકારને ધ્યાને લઈ નિયમ અનુસારની પ્રક્રિયા અનુસારીને એજન્સી/સપ્લાયર/કોન્ટ્રાક્ટર સાથે જોગવાઈઓ કરાવવામાં આવે છે. મહાનગરપાલિકાની કામગીરી સંદર્ભે તૈયાર કરવામાં આવતા ટેન્ડર/કારનામામાં લખતી વખતની જરૂરીયાતને ધ્યાને લઈ આર્બિટ્રેશન (Arbitration) ની જોગવાઈઓનો સમાવેશ કરવામાં આવેલ છે.

રાજકોટ મહાનગરપાલિકાની કામગીરી માટે કરવામાં આવેલ કારનામાની શરતો અનુસંધાને અમુક એજન્સી/સપ્લાયર/કોન્ટ્રાક્ટર દ્વારા છેલ્લા કેટલાક વર્ષોથી નામદાર લાઇકોર્ડ સમક્ષ આર્બિટ્રેટરશ્રીની નિયુક્તિ અંગે પીટીશનો કરવામાં આવે છે, જેના કારણે મહાનગરપાલિકાની કામગીરીના ભારણમાં વધારો થયેલ છે, અને સંબંધિત અધિકારીશ્રીઓને વારંવાર અમદાવાદ ખાતે હાજર રહેવું પડતું હોય તેના કારણે અગત્યના પ્રોજેક્ટો સહીત કચેરીની કામગીરી તેમજ પ્રજાકીય કામો ઉપર વિપરીત અસર થવા પામેલ છે, તેમજ અરજદારોને હેરાન થવું પડે છે. આ અંગે કાયદાકીય, શાખાના અભિપ્રાય અને પ્રકરણની વિગતો જોતા આ કામે લેકલ્પિક ઉપાય (alternative remedy) ઉપલબ્ધ હોય મહાનગરપાલિકાના ટેન્ડર/કારનામામાં આર્બિટ્રેશનની જોગવાઈઓને સામેલ કરવાનું ઉચિત જણાતું નથી.

આથી " રાજકોટ મહાનગરપાલિકાના કામે કરવામાં આવતા ટેન્ડર ડોક્યુમેન્ટ અને કારનામામાં આર્બિટ્રેશન (Arbitration) ને લગત જોગવાઈઓ દૂર કરવાનો," અને તેના બદલે "ટેન્ડરની શરત/કારનામાની શરતના અર્થઘટન સંદર્ભે મહાનગરપાલિકાના કમિશનરશ્રીનો નિર્ણય આપરી અને બંધનકર્તા રહેશે," અને "ટેન્ડરની/કારનામાની શરતો અંગે કોઇ પણ બાબતે વિવાદ ઉપસ્થિત થયે રાજકોટની દિવાની અદાલતની હકુમત રહેશે," તેવી શરતોનો મહાનગરપાલિકાના કામ અર્થે તૈયાર કરવામાં આવતા તમામ કામગીરીના પરિપત્રો/ટેન્ડર ડોક્યુમેન્ટ તેમજ કારનામામાં સમાવેશ કરવાનો આથી હુકમ કરવામાં આવે છે.

આ હુકમનો અગલ તાત્કાલિક અસરથી ચુસ્તપણે કરવો.

કમિશનર

રાજકોટ મહાનગરપાલિકા

2

નકલ રવાના જાણ અર્થે : નાયબ કમિશનરશ્રી (તમામ)

નકલ રવાના જરૂરી કાર્યવાહી અર્થે : તમામ શાખાધિકારીશ્રીઓ

રા.મ.ન.પા./ લીગલ/ જા.નં. 122)

રાજકોટ મહાનગરપાલિકા  
લીગલ શાખા,  
રાજકોટ.  
તા. 25/06/2023

પરિપત્ર:

વિષય: ઇ.પી.એફ. તથા ઇ.એસ.આઇ.સી. બાબતેનો અભિપ્રાય.  
સંદર્ભ: ૧) રા.મ.ન.પા./હિસાબી/જા.નં. ૧૨૦૯ તા. ૧૦/૮/૨૦૨૩  
૨) રા.મ.ન.પા. ઇન્વર્ડ નં. ૮૧૨ તા. ૨૧/૦૮/૨૦૨૩

ઉપરોક્ત નિમ્ન તથા સંદર્ભે અન્વયે જણાવવાનું કે, સંદર્ભ - ૧ અન્વયેના પત્રથી હિસાબી શાખા દ્વારા ઇ.પી.એફ. તથા ઇ.એસ.આઇ.સી. લાગુ પાડવા બાબતેનો અભિપ્રાય માંગવામાં આવેલ હતો જે અનુસંધાને પેનલના એડવોકેટશ્રી તરફથી સંદર્ભ - ૨થી અભિપ્રાય આવેલ છે. સદરહું અભિપ્રાય રાજકોટ મહાનગરપાલિકાની તમામ શાખાને તથા શાખા હસ્તકના કોન્ટ્રાક્ટરોને લાગુ પડતો હોય જેથી સંબંધિત તમામ શાખાને સદરહું અભિપ્રાય વંચાણે લેવા સુચિત કરવામાં આવે છે.

આ ઉપરાંત આપની શાખાના કર્મચારી તથા કોન્ટ્રાક્ટરશ્રીઓની ઇ.એસ.આઇ.સી. અન્વયેની માહિતી આપવાની બાકી હોય તે તમામે દિન - ૦૨માં પેનલના એડવોકેટશ્રીને માહિતી પહોંચતી કરે અને તેની જાણ લીગલ શાખાને કરે અન્યથા તેમાંથી ઉત્પન્ન થતી તમામ જવાબદારી માટે વ્યક્તિગત રીતે જવાબદાર ઠેરવવામાં આવશે.

સદરહું પરિપત્રનો તાત્કાલિક અસરથી ચુસ્તપણે પાલન કરવું.

બિડાણ: સંદર્ભ અન્વયેના પત્રો  
નકલ સવિનય રવાના:

- નાયબ કમિશનરશ્રી ( વે. ઝોન, ઇ. ઝોન )
- તમામ શાખાશિકારીશ્રીઓ ( અમલ સારું )

રાજકોટ મહાનગરપાલિકા  
એડવોકેટશ્રી વિભાગ  
ઈન્વર્ડ નં. 2916.....  
તારીખ 25/6/23

નાયબ કમિશનરશ્રી  
રાજકોટ મહાનગરપાલિકા

મુખ્ય  
જે.એન.પી.  
જે.એન.પી.  
જે.એન.પી.



# Shraddha Associates

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Corrosp. Add. :

502, Accurate Square, Tagore Road,

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Ph. O. 2463380, 93767 68952 E-Mail : dodiaparag@yahoo.in

Prop. : Parag J. Dodi

(Advocate & Labour Law Advisor)

Address : 2-Nalanda Bunglow

6-Pragati Society, Raiya Road, Rajkot-

Ref.

Date :

-06-2023.

પ્રતિ,

લેબર ઓફીસરશ્રી,

રાજકોટ મહાનગરપાલીકા,

રાજકોટ.

વિષય :- ઈપીએફ તથા ઈએસઆઈસી લાગુ પડવા રામનપા/હીસાબી/જા.નં.૧૨૦૯ ખાબતે અભિપ્રાય.

રેફ. :- રા.મ.ન.પા./લીગલ/જા.નં. ૧૦૯૦, તારીખ ૧૦/૦૮/૨૦૨૩.

મે. સાહેબશ્રી,

સવિનય સાથે જણાવવાનું કે, ઉપરોક્ત વિષય અને રેફરન્સથી આપના તરફથી અભિપ્રાય માંગવામાં આવેલ. જેની સાથે મોકલેલ ફોર્મટ મુજબ વિગતવાર રીમાર્ક્સ આપેલ છે.

રાજકોટ મહાનગરપાલીકાનાં શાખા અધિકારીએ બીલ બનાવતી વખતે બીલ બનાવતી વખતે નીચે મુજબનાં ડોક્યુમેન્ટ્સ ચેક કરી બીલ સાથે સામેલ કરવા જરૂરી છે.

દર મહીને લેવાનાં ડોક્યુમેન્ટ.

૧. પગારપત્રક (જેમાં દરેક કર્મચારી તથા કોન્ટ્રાક્ટરની સહી/સિક્કો અને જે તે શાખા અધિકારીની સહી/સિક્કો)
૨. હાજરી પત્રક.
૩. પી. એફ. ચલણ.
૪. પી.એફ. ઈ.સી.આર.
૫. ઈ.એસ.આઈ.સી. પેઈડ ચલણ.
૬. ઈ.એસ.આઈ.સી. લાગુ ન પડતો હોય તેવા કર્મચારી (રૂ.૨૧૦૦૦/- થી વધુ પગારવાળા) ની WC પોલીસી.
૭. પી.ટી. નાં ચલણ. ( જે કર્મચારીનો પગાર રૂ.૧૨૦૦૦/- કે તેથી વધુ થતો હોય તેનાં. )

વાર્ષિક લેવાનાં ડોક્યુમેન્ટ.

૧. જો ૫૦ કે તેથી વધુ માણસો કોન્ટ્રાક્ટરમાં કામ કરતા હોય તો લેબર લાઈસન્સ.
૨. લેબર વાર્ષિક પત્રક.
૩. બોનસ પત્રક.
૪. જે તે ડીપાર્ટમેન્ટને લાગુ પડતા સરકારશ્રીનાં લાયસન્સની નકલ ( ફુડ , ઈલેક્ટ્રીસિટી વગેરે )

દરેક શાખા હસ્તકનાં કોન્ટ્રાક્ટર / એજન્સી ઉપરોક્ત સંદર્ભ અન્વયે પાલન કરાવવાની જવાબદારી મુખ્ય માલિક તરીકે જે તે શાખાનાં શાખા અધિકારીની ઠરાવી શકાય.

સહકારની અપેક્ષા સહ.

આપનો વિશ્વાસુ,

બિડાણ :- ઉપર મુજબ.

SHRADDHA ASSOCIATES

  
PROPRIETOR

|                      |
|----------------------|
| લીગલ ઈન્વર્ડ નં. 812 |
| સરકારી ઈન્વર્ડ નં. - |
| 25/08/23             |

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EPF તથા ESI લાગુ પડે છે કે કેમ ?

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| ક્રમ | વારંવાર ઉદભવતા પ્રશ્નો.   | લાગુ પડે છે કે કેમ ? |     |
|------|---|----------------------|-----|
|      |   | EPF                  | ESI |
| 1    | કોમ્પ્યુટર ખરીદી કરી અને રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈન્સ્ટોલેશન કરવાનું થાય તો લાગુ પડે કે કેમ ?  | ના                   | હા  |
| 2    | રાજકોટ મહાનગરપાલીકાની જગ્યાનું સંચાલન કરતા કોન્ટ્રાક્ટર, વેન્ડર, ટ્રસ્ટ ને લાગુ પડે કે કેમ ? (જેમ કે સ્પોર્ટ સંકુલ, ગાર્ડન, પાર્કીંગ વગેરેનું સંચાલન કોન્ટ્રાક્ટર, ટ્રસ્ટ સંસ્થા વગેરે ધ્વારા કરવામાં આવે ) | હા                   | હા  |
| 3    | રસ્તા કામ, ડ્રેનેજ કામ, પાણી વિતરણની કામગીરી સાથે સંકળાયેલા કોન્ટ્રાક્ટરોને લાગુ પડે કે કેમ ?   | હા                   | હા  |
| 4    | જનરલ બોર્ડનાં માઈક સંચાલનનાં કોન્ટ્રાક્ટમાં લાગુ પડે કે કેમ ?   | હા                   | હા  |
| 5    | રાજકોટ મહાનગરપાલીકાનાં ગ્રાઉન્ડ સંચાલન કરતા કોન્ટ્રાક્ટરોને લાગુ પડે કે કેમ ?   | હા                   | હા  |
| 6    | આઈટ સોર્સીંગ સ્ટાફનાં કીસ્સામાં વેન્ડરને લાગુ પડે કે કેમ ?  | હા                   | હા  |
| 7    | રાજકોટ મહાનગરપાલીકાનાં રેનબસેરાનું સંચાલન કરતા કોન્ટ્રાક્ટરોને લાગુ પડે કે કેમ ?  | હા                   | હા  |
| 8    | રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈવેન્ટમેનેજમેન્ટ કરવામાં આવે ત્યારે ઈવેન્ટમેનેજમેન્ટ કંપનીને તથા ગાયક / આર્ટીસ્ટ / મ્યુઝીશીયનને લાગુ પડે છે કે કેમ ?   | ના                   | ના  |
| 9    | મશીન / વાહન ફક્ત પાર્ટસ ખરીદીનાં કિસ્સામાં લાગુ પડે છે કે કેમ ?   | ના                   | ના  |
| 10   | મશીન / વાહન ફક્ત પાર્ટસ ખરીદી અને ફીટીંગ / રીપેરીંગ રાજકોટ મહાનગરપાલીકાની જગ્યામાં કરવામાં આવતુ હોય તેવા કિસ્સામાં લાગુ પડે છે કે કેમ ?   | હા                   | હા  |
| 11   | મશીન / વાહન ફક્ત પાર્ટસ ખરીદી અને ફીટીંગ / રીપેરીંગ રાજકોટ મહાનગરપાલીકાની જગ્યામાં કરવામાં આવતુ હોય તેવા કિસ્સામાં લાગુ પડે છે કે કેમ ?   | ના                   | ના  |
| 12   | કોઈપણ ઈલેક્ટ્રીક વસ્તુની ખરીદી તથા તેનું ઈન્સ્ટોલેશન જેમ કે કેમેરા લાઈટ ફીટીંગ, કોમ્પ્યુટર, પ્રીન્ટર વગેરે કીસ્સામાં લાગુ પડે છે કે કેમ ?   | ના                   | હા  |
| 13   | મિત્ર મંડળ તથા સખી મંડળનાં કિસ્સામાં લાગુ પડે છે કે કેમ ?   | હા                   | હા  |
| 14   | ઓપરેશન અને મેઈન્ટેનન્સ સર્વિસીક કોન્ટ્રાક્ટનાં કીસ્સામાં લાગુ પડે છે કે કેમ ?   | હા                   | હા  |
| 15   | ટુર્સ / ટાવેલ્સ ભાડે રાખવામાં આવેલ કાઈવર સહીત તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?   | હા                   | હા  |
| 16   | ઈલેક્ટ્રીક પોલ ફીટ કરવા શિફ્ટ કરવા અથવા નવા ઈન્સ્ટોલ કરવા વગેરે કીસ્સામાં લાગુ પડે છે કે કેમ ?  | હા                   | હા  |



EPF તથા ESI લાગુ પડે છે કે કેમ ?

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| 17 | એર કુલર, એ.સી. , વોટર કુલર રીપેરીંગ વગેરે કીસ્સામાં લાગુ પડે છે કે કેમ ?   | હા | હા |
| 18 | રાજકોટ મહાનગરપાલીકાનાં કરાર આધારિત કર્મચારીનાં કીસ્સામાં લાગુ પડે છે કે કેમ ?  | હા | હા |
| 19 | રજીસ્ટ્રેશન સમયે કુલ પગાર ઈ.પી.એફ. / ઈ.એસ.આઈ.સી. નાં નિયમ મુજબનાં પગારમર્યાદા કરતા ઓછી હોય પરંતુ ત્યારબાદ પગાર ઈપીએફ, ઈએસઆઈસી નાં નિયમ મુજબ પગાર મર્યાદા કરતા વધી તો ક્યાં સુધી કપાત કરવી.<br>(ફીક્સમાંથી કાયમીનાં કીસ્સામાં / ફીક્સ પગાર વધી જાય તેવા કીસ્સામાં ) | હા | ના |
| 20 | ફીક્સ / કાયમી થાય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?  | હા | હા |
| 21 | વાલ્વ ઓપરેટર તથા પમ્પ ઓપરેટરનાં કીસ્સામાં લાગુ પડે છે કે કેમ?  | હા | હા |
| 22 | લીગલ, પ્રોફેશનલ સર્વિસ રાજકોટ મહાનગરપાલીકાની જગ્યા પર આપવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?  | હા | હા |
| 23 | રાજકોટ મહાનગરપાલીકા ધ્વારા વિડીયોગ્રાફી / ફોટોગ્રાફી કરાવવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?   | હા | હા |
| 24 | રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઝેરોક્ષ મશીન ચલાવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?  | ના | ના |
| 25 | ન્યુઝ પેપર અથવા કોઈપણ વસ્તુ કે જેની ખરીદી કરી હોય અને જે રાજકોટ મહાનગરપાલીકાના પ્રીમાઈસીસ સુધી પહોંચાડવાની જવાબદારી વેન્ડરની હોય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?   | ના | ના |
| 26 | રાજકોટ શહેરમાં મોબાઈલ ડિસ્પેન્સરી ચલાવવા આપવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?   | હા | હા |
| 27 | ફક્ત એક વખત કામગીરી કરવાની હોય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?   | ના | ના |
| 28 | હોર્ડીંગ બોર્ડ ચડાવવા તથા ઉતારવાની કામગીરીનો એજન્સીને કોન્ટ્રાક્ટ આપેલ હોય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?   | હા | હા |
| 29 | રાજકોટ મહાનગરપાલીકાની જગ્યામાં કાર્ટીઝ રીપેરીંગ તથા રીફીલીંગ તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?   | હા | હા |
| 30 | કેટરીંગ સર્વિસ અથવા હોટલમાંથી ફુડ પાર્સલ તેમજ કુરીયર સર્વિસ રાજકોટ મહાનગરપાલીકાને ડીલીવરી કરવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?  | ના | ના |
| 31 | સોલાર પેનલ તથા રૂફ ટોપ સોલાર પેનલનાં રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈન્સ્ટોલેશન તથા મેઈન્ટેનન્સનાં કીસ્સામાં લાગુ પડે છે કે કેમ ?  | હા | હા |







રાજકોટ મહાનગરપાલિકા  
સોલિડ વેસ્ટ મેનેજમેન્ટ શાખા  
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#MeraShahar,MeriPehechan 2024

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તા.30-03-2024

હુકમ:

સંદર્ભ: રા.મ.ન.પા./સો.વે.મે./જા.નં ૮૬૬, તા. ૦૪-૦૬-૨૦૧૯

રાજકોટ મહાનગરપાલિકા વિસ્તારમાં વિકાસ કામો અને બાંધકામ પ્રવૃત્તિનો ખૂબ જ ઝડપથી વિકાસ થઈ રહેલ છે. જેના પરિણામે શહેરમાં કન્સ્ટ્રક્શન એન્ડ ડિમોલિશન વેસ્ટ પણ ખૂબ બહોળા પ્રમાણમાં ઉત્પન્ન થાય છે. આથી તેના કલેક્શન તથા યોગ્ય પદ્ધતિથી નિકાલની ખૂબ જ વિકટ સમસ્યા ઊભી થાય છે. કન્સ્ટ્રક્શન એન્ડ ડિમોલિશન (સી & ડી) વેસ્ટ રુલ્સ -2016 પ્રમાણે આ વેસ્ટનું કલેક્શન, સ્ટોરેજ તથા પ્રોસેસિંગ કરી યોગ્ય નિકાલ કરવો જરૂરી છે. જે અન્વયે આ અગાઉ ઉપરોક્ત સંદર્ભિત હુકમથી શહેરમાં ઉત્પન્ન થતા સી & ડી વેસ્ટના નિકાલ અન્વયેની માર્ગદર્શિકા નિયત કરવામાં આવેલ. જેની વધુ અસરકારકતા તથા કાર્યક્ષમતા સાથે પરિણામલક્ષી કામગીરી થઈ શકે તે માટે હવે પછીથી નીચે જણાવ્યા મુજબની વિગતે અમલવારી કરવા હુકમ કરવામાં આવે છે.

(૧) રાજકોટ મહાનગરપાલિકાની ટાઉન પ્લાનિંગ શાખા દ્વારા શહેરમાં આવેલ હયાત/જુના બાંધકામ ધરાવતી ઈમારતોને સ્થાને નવું બાંધકામ કરવા માટેની બાંધકામ પરવાનગી ઇસ્યુ કરતા પહેલા હાલની વ્યવસ્થા મુજબ જે ડિમોલિશન ચાર્જ લેવામાં આવે છે તેની સાથે શહેરમાં આવેલ આવી જૂની ઈમારતોનું બાંધકામ માલિક/કબજેદાર/ડેવલપર દ્વારા દૂર કરવાથી કેટલો સી & ડી વેસ્ટ ઉત્પન્ન (Generate) થશે તે બાંધકામ પરવાનગી અર્થે પ્લાન સહીતની વિગતો રજૂ કરનાર પરવાનેદાર એન્જિનિયરશ્રી/આર્કિટેક્ટશ્રી મારફત પ્રમાણિત કરાવી તેના જથ્થા મુજબ અને બાંધકામની પરવાનગીના પ્રકાર મુજબ આ ઉત્પન્ન થનાર સી & ડી વેસ્ટને નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે નિકાલ કરવા માટેની ડિપોઝિટની રકમ પેટે રૂપિયા ૫૦૦૦/- (અંકે રૂપિયા પાંચ હજાર પુરા) વસુલવાની રહેશે. આ પ્રકારના તમામ કિસ્સાઓમાં ડીપોઝિટની રકમ જમા થયા બાદ જ ટાઉન પ્લાનિંગ શાખા દ્વારા શરતી બાંધકામ પરવાનગી (Conditional Permission) આપવાની રહેશે, તથા સદરહુ શરતી બાંધકામ પરવાનગીમાં સંલગ્ન જૂની ઈમારતના સી & ડી વેસ્ટને ટ્રાન્સપોર્ટ કરી સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે મોકલી આપવામાં આવ્યાનું પ્રમાણિત થયા બાદ જ ટાઉન પ્લાનિંગ શાખા દ્વારા બાંધકામ પરવાનગી આપવામાં આવશે અને ત્યારબાદ જ અરજદારશ્રી દ્વારા નવું બાંધકામ શરૂ કરવાનું રહેશે તેવો ઉલ્લેખ કરવાનો રહેશે.

શરતી બાંધકામ પરવાનગી મેળવ્યા બાદ અરજદારશ્રી દ્વારા તેઓના જુના મકાન/ઈમારતના ડીમોલિશનને કારણે નીકળેલ સી & ડી વેસ્ટને રાજકોટ મહાનગરપાલિકાના નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ પર મોકલવાની વ્યવસ્થા કરી નિકાલ કરવાનો રહેશે, તથા સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતેથી આ અંગેની પહોંચ (રીસીપ્ટ)/પ્રમાણપત્ર મેળવી લેવાનું રહેશે.

સી. & ડી. વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે શહેરમાંથી સી & ડી વેસ્ટના નિકાલ અર્થે આવેલ મટીરીયલ અંગેનું રજીસ્ટર નિભાવવાનું રહેશે, તથા પ્લાન્ટ ખાતે સી & ડી વેસ્ટ લઈને આવેલ તમામ વાહન તથા તેના સી & ડી વેસ્ટના જથ્થાની નોંધ ઓનલાઈન નિયત એપ્લીકેશનમાં કરવાની રહેશે. પ્લાન્ટ ખાતે મેળવવામાં આવેલ સી & ડી વેસ્ટ મટીરીયલની પહોંચ (રીસીપ્ટ)/પ્રમાણપત્ર આપવા અંગેની જરૂરી તમામ વ્યવસ્થા સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટની એજન્સી દ્વારા કરવાની રહેશે.

ટાઉન પ્લાનિંગ શાખા દ્વારા ઉપરોક્ત જણાવ્યા મુજબ જુના બાંધકામ/ઈમારતના ડીમોલિશનને કારણે ઉત્પન્ન થયેલ સી & ડી વેસ્ટને અરજદારશ્રી દ્વારા નાકરાવાડી ખાતેના સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે



મોકલ્યાની ખરાઈ (Confirmation) કર્યા બાદ જ અરજદારશ્રી દ્વારા જમા કરવામાં આવેલ ડીપોઝીટની રકમ રૂ.૫૦૦૦/- (અંકે રૂપિયા પાંચ હજાર પુરા) પરત કરી બાંધકામ પરવાનગી ઇસ્યુ કરવાની રહેશે.

- (૨) ટાઉન પ્લાનિંગ શાખા દ્વારા કન્સ્ટ્રક્શન એન્ડ ડીમોલિશન વેસ્ટ રૂલ્સ 2016 ની માર્ગદર્શિકા મુજબ શહેરમાં જૂનો ઇમલો દૂર કરનાર એજન્સીઓ - કોન્ટ્રાક્ટરો દ્વારા સી & ડી વેસ્ટનું કલેક્શન તથા તેનું જરૂરી સેગ્રીગેશન કરી રાજકોટ મહાનગરપાલિકાના નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે નિકાલ કરવાનું ફરજિયાત હોવાની બાબતની સમજ આપી તેઓનું રજીસ્ટ્રેશન કરાવી રાજકોટ મહાનગરપાલિકાની વેબસાઇટ પર શહેરમાં ઇમલો દૂર કરવાની કામગીરી કરતી આવી તમામ એજન્સીઓ - કોન્ટ્રાક્ટરોની યાદી મૂકવાની રહેશે.
- (૩) સોલિડ વેસ્ટ મેનેજમેન્ટ વિભાગ દ્વારા હાલ રાજકોટ મહાનગરપાલિકાના ત્રણેય ઝોનના જુદા જુદા વોર્ડ - વિસ્તારના પ્લોટ તથા રસ્તાઓની સાઈડમાં પડેલ સી & ડી વેસ્ટને કલેક્ટ કરી નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટની જરૂરીયાત મુજબ પ્લાન્ટ ખાતે પહોંચાડવા (Transportation) ની વ્યવસ્થા કરવાની રહેશે, તથા શહેરના જાહેર રસ્તાઓ કે રાજકોટ મહાનગરપાલિકાના પ્લોટ પર અનઅધિકૃત રીતે સી & ડી વેસ્ટ ડમ્પિંગ ન થાય તે અંગેની તકેદારી રાખવા માટેની જરૂરી વ્યવસ્થા ઉભી કરવાની રહેશે.
- (૪) રાજકોટ મહાનગરપાલિકાની તમામ તાંત્રિક શાખા દ્વારા તેમના કાર્યક્ષેત્ર હેઠળ સિવિલ કામ કરતી તમામ એજન્સીઓ (ઝોનલ તથા ટેન્ડર કામ) ને સોંપવામાં આવેલ સિવિલ કામગીરી અંતર્ગત ઉત્પન્ન થનાર સી & ડી વેસ્ટના સંપૂર્ણ જથ્થાનો નિકાલ રાજકોટ મહાનગરપાલિકાની નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે કરાવવાનો રહેશે.

આ માટે ઉત્પન્ન થયેલ સી & ડી વેસ્ટના જથ્થાને સંલગ્ન તાંત્રિક કામગીરી સંભાળતા એ.એ.ઈ.શ્રી તથા એ.ઈ.શ્રી દ્વારા તેમના નાયબ કાર્યપાલક ઇજનેરશ્રી મારફતે પ્રમાણિત કરાવી તે સી & ડી વેસ્ટના જથ્થાને સિવિલ કામની સંલગ્ન એજન્સી દ્વારા ટ્રાન્સપોર્ટેશનની વ્યવસ્થા કરી શહેરમાં અન્ય કોઈપણ જગ્યાએ નિકાલ ન કરી માત્ર નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે જ જમા કરાવવાનો રહેશે, તથા પ્લાન્ટ ખાતેથી તે અંગેની પહોંચ (રીસીપ્ટ)/પ્રમાણપત્ર મેળવવાનું રહેશે. જે પહોંચ (રીસીપ્ટ)/પ્રમાણપત્ર સંલગ્ન તાંત્રિક શાખામાં રજુ થયા બાદ તેને સંલગ્ન તાંત્રિક સ્ટાફ દ્વારા ચકાસણી કર્યા બાદ જ સંલગ્ન નાયબ કાર્યપાલક ઇજનેરશ્રી દ્વારા એજન્સીએ કરેલ કામની રકમનું ચૂકવણું કરવા માટેની બીલ અંગેની કાર્યવાહી હાથ ધરવાની રહેશે.

- (૫) રાજકોટ શહેરમાં ઉત્પન્ન થનાર સી & ડી વેસ્ટનો મહત્તમ રીચુઝ તથા રિસાયકલ થાય તે માટે કઈ કઈ બાંધકામ ઉપયોગી વસ્તુઓ (મટીરીયલ) બનાવી શકાય તથા તે તમામ મટીરીયલનો રાજકોટ મહાનગરપાલિકાના વિવિધ તાંત્રિક કામોમાં ઉપયોગ થાય તેવા મટીરીયલનો રાજકોટ મહાનગરપાલિકાના શેડ્યુલ ઓફ રેઈટ્સ (S.O.R.) માં સમાવેશ કરવા તથા રાજકોટ મહાનગરપાલિકાના વિવિધ સિવિલ કામમાં તેનો ઉપયોગ થાય તે સુનિશ્ચિત કરવા માટેની જરૂરી કાર્યવાહી હાથ ધરવાની રહેશે.

ઉપરોક્ત વિગતે સોંપવામાં આવેલ કામગીરીનો રિપોર્ટ નાયબ કમિશનરશ્રી (ઈસ્ટ ઝોન)ને કરવો. સદરહુ હુકમનો અમલ તાત્કાલિક અસરથી ચુસ્તપણે કરવાનો રહેશે.

  
કમિશનર

રાજકોટ મહાનગરપાલિકા