RAJKOT MUNICIPAL CORPORATION

e - Tender No.RMC/ENG/WZ/21-22/02



Bid Documents For

Supplying, Laying and Commissioning of 300mm to 100mm Dia. D.I. pipeline (Class K-7) at Titodiya (Munjka) and near Awas Yojna from New GSR to Vir Savarkar Awas Yojna (Munjka) in Ward No.09.



Milestone Dates for e-tendering is as under					
1. Downloading of e-Tender documents	08-10-2021 To 28-10-2021 upto 17.00 Hrs.				
2. Pri-bid Meeting	18-10-2021 at 17.00 Hrs. in the Office of				
	City Engineer at West Zone.				
3. Online submission of e - Tender	28-10-2021 upto 18.00 Hrs.				
4. Physical submission of EMD, Tender fee and other documents required as per Financial and Experience criteria. by Regd. Post. A.D. / Speed Po st ONLY	30-10-2021 upto 18.00 Hrs.				
5. Opening of online technical bid	30-10-2021 at 11.00 Hours onwards				
6. Verification of submitted documents (EMD, e - Tender fee, etc.)	30-10-2021 at 11.00 Hours onwards				
7. Agency to remai n present in person along with original documents for verification	01-11-2021 between 16.00 to 17.00 Hours				
8. Opening of Price Bid (If possible)	08-11-2021 at 17.00 Hrs. (Onwards If Possible)				
9. Bid Validity	120 Days				
For further details, pre-qualification criter	ia etc. visit www.rmc.nprocure.com				

2021-22

CITY ENGINEER
RAJKOT MUNICIPAL CORPORATION
SHRI HARISINHJI GOHIL BHAVAN
WEST ZONE OFFICE, 150' RING ROAD,
RAJKOT - 360005 (GUJARAT)

RAJKOT MUNICIPAL CORPORATION

BID DOCUMENT FOR

Supplying, Laying and Co mmissioning of 300mm to 100mm Dia. D.I. pipeline (Class K-7) at Titodiya (Munjka) and near Awas Yojna from New GSR to Vir Savarkar Awas Yojna (Munjka) in Ward No.09.

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)

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:

	N. C. I	a) Estimated cost in Rs.
Sr	Name of work	b) EMD
No.		c) E-TENDER fee
		d) Time limit for
		completion of work
1	Supplying, Laying and Comm issioning of 300mm to	a) Rs.1,55,94,000/-
	100mm Dia. D.I. pipe line (Class K-7) at Titodiya	b) Rs.1,55,940/-
	(Munjka) and near Awas Yojna from New GSR to Vir	c) Rs.4,500/-
	Savarkar Awas Yojna (Munjka) in Ward No.09.	d) 04 months

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e - Tender fee, etc.)					
7. Agency to remain present in person along with original documents for verification	01-11-2021 between 16.00 to 17.00 Hours				
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8. Opening of Price Bid (If possible)	08-11-2021 at 17.00 Hrs. (Onwards If				
O Rid Validity	Possible)				
9. Bid Validity	120 Days				
For further details, pre-qualification criteria etc. visit www.rmc.nprocure.com					

1. 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. The receipt of professional tax paid for current year, address proof, tender appendix details and ID proof shall have to be submitted along with physical submission of required documents shall have to be done at the below mentioned address:

Office of the CITY ENGINEER
Rajkot Municipal Corporation,
SHRI HARISINHJI GOHIL BHAVAN,
WEST ZONE Office,
150' RING ROAD,
Rajkot-360005 (Gujarat)

2. The e-tender fee will be accepted in form of Demand Draft only in favor of "Rajkot Municipal Corporation" Rajkot, from any Nationalized or Schedule

Bank (except Co-operative Bank) in India and must be delivered to above address.

3. The prequalification requirement is as under:

- i) Financial Criteria:
 - 1. An average annual turnover of seven years should not be less than 50% of tender amount.
 - 2. Working capital should not be less than 25% of the estimated amount.
 - 3. Bidder must have minimum "C" Class registration
 - 4. Minimum amount of solvency should be Rs.25.00 lakhs

ii) Experience Criteria:

The bidder should posses following minimum experience:

- Bidder should have completed at least one work of similar nature 40%
 OR two works of 30% of tender amount in last seven years either in government or Semi-government as a main contractor.
- 2. Bidder should have enough machinery and experienced personnel to supervise the work.
- 4. The contractor shall have to quote their rates including GST and other taxes and the Invoice with break-up of GST is to be submitted accordingly, failing which, such amount will be deducted from the bill of the agency and deposited accordingly.

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.

- 5. Enhancement factor at 10 % per year will be applicable to arrive at average annual turnover and finalize the magnitude of work done in last seven years
- 6. The tender of those bidders who fail to submit documents **OR** to produce the originals for verification within time schedule of this tender will out rightly be rejected.
- 7. The bidder(s) submitting the tender shall also have to submit the copy of ESIC & EPF Registration document along with the other documents, duly self attested, failing which, the tender of such bidder(s) will be considered as non-responsive and their online price bid will not be opened.
- 8. The Tender of those bidder(s) those who fails to submit the required documents for verification within the stipulated date and time, will be treated as non responsive and their Price Bid will not be opened. The physical submission of required documents received after the prescribed date and time will be out rightly rejected.

- 9. The bidder should not have been Black Listed by Government of India / Government of Gujarat or any State Board / Corporations, since inception of the firm / Company. 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.
- 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 tenderer / bidder and he will not have any defense for the same.
- 11.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.
- 12. Conditional Tenders will be out rightly rejected.
- 13. Commissioner, Rajkot Municipal Corporation, Rajkot, reserves the right to accept / reject any or all e-tender(s) without assigning any reasons thereof.

COMMISSIONER
Rajkot Municipal Corporation

ELIGIBILITY CRITERIA

1. Experience Criteria:

The bidder should posses following minimum experience:

- Bidder should have completed at least one work of similar nature 40% <u>OR</u> two works of 30% of tender amount as a main contractor in period of last seven years.
- 2. Bidder should have enough machinery and experienced personnel to supervise the work.

2. Financial Criteria

- (1) An average annual turnover of seven financial years should not be less than 50% of estimated tender amount.
- (2) Working capital should not be less than 25% of the estimated tender amount.
- (3) Solvency must not be less than Rs.25 Lacs
- (4) Available bid capacity- ABC must be more than the estimated tender amount. The bidding capacity shall be worked out using the following formula:

Bidding capacity = [2 * A * N] - B = (to be filled by Applicant)

where,

- A = Maximum value of works executed in any one year during the last seven years (updated to* price level) taking into account the completed as well as works in progress.
- **N** = Number of years prescribed for completion of the works for which tenders are invited.
- **B** = Value (...* price level) of existing commitments and on-going works to be completed during that next **N** year (period of completion of the works for which the tenders are invited)

3. Enhancement Factor

Following enhance factor for respective year will be considered to arrive at current financial year:

Sr	Year	Enhance factor
1	Current Year (2021-22)	1.00
2	Current Year - 1 (2020-21)	1.10
3	Current Year - 2 (2019-20)	1.21
4	Current Year - 3 (2018-19)	1.33
5	Current Year - 4 (2017-18)	1.46
6	Current Year - 5 (2016-17)	1.61
7	Current Year - 6 (2015-16)	1.77
8	Current Year - 7 (2014-15)	1.95

4. Litigation History

The bidder should provide accurate information on any litigation history or arbitration resulting from contracts completed or under execution by him over the last seven years. This should also include such cases, which are in process/progress. A consistent history of awards against the bidder or any partner of a joint venture 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 whatsoever stage and in such case all the losses that will arise out of this issue will be recovered from the Bidder/contractor and he will not have any defense for the same.

5. Even though the bidders meet the above criteria, they are subject to be rejected, if they have:

Misleading or false representation made in the form, statements and attachments Submitted And / Or having poor pe rformance record such as abandoning the work, improper completion of contract, inordinate delays in completion, litigation history, financial failures, etc.

6. Brand names

Specific reference in the specifications any materials by manufacturer's name (as per the prevailing list of GWSSB), or catalogue shall be constructed as establishing a standard or quality and performance and not as limiting competition, and the Bidder in such cases, will not at his option freely use only other product

CITY ENGINEER
Rajkot Municipal Corporation

Name and signature of Bidder

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 r eject 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 acc ompanied by it s translation in English. Failure to c omply 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 (S even) 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 worke-Tendered.
- C. The Bidder shall furnish original documents on the date mentioned in tender notice. The bid for those bidder will be t reated as non-responsive who fai ling 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 sev eral sections form in the document are the essential parts of the con tract and a requi rement occurring in one shall be as bi nding 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 complete d 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.4,500-00**.

e-TENDER Document:

<u>Part-I</u>

- 1. Notice inviting Bidders.
- 2. Instructions to the Bidder.
- 3. Formats
- 4. 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)
- D. Copy of the E-TENDER Document should be completed, checked in a resp onsible 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 B idder shall not take out or add to or am end the text of any of the documents except in so far as may be ne cessary 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.1,55,940/-** in the form of crossed Demand Draft in favor of "Rajkot Municipal Corporation", from any Scheduled bank (except Co-operative Bank) in India acceptable to owner payable at Rajkot **OR** it can be directly deposited in the account of Rajkot Mun icipal Corporation as shown in Point No.1 of tender Notice on Page No.4. The Tender Bond, shall be valid for a period of not less than hundred and Twenty (120) days fr om the date the e-Tenders are opened and shall comply with the requirements for Bond as s tipulated 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 f aith 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 forf eited in the 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 documents within ten days. (10) days after receipt of notice of award of contract.

- 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 where 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 addresse s shall be stated below their signature.
- D. Variation to the contract Documents requested by the Bidder may be affixed and duly signed and stamp ed. 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 bu siness 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 m embers of the partnership or by a legally authorized representati ve 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 of opening of the e-Tender 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 withdrawn 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 cur rent 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 certi fied 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 p ower of attorney, shall accompany the e-Tender. Such limited company or corporation may be required to furni sh satisfactory evidence of its existence before the contract is awarded.

If the e-TENDER is made by a group of firms, the s ponsoring 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-Ten dering 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 stared 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 ad dendum 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. The Owner may i ssue Addenda to advise Bidders of changed requirements. Such addenda may modify previously issued Addenda.
- B. No ad dendum 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 speci fications, 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 pr oceed. Total completion period is **04 months** from the date of issue of notice to proceed and contractor should adhere to this completion time.

IT 21 POLICY FOR TENDER UNDER CONSIDERATION

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

While e-Tenders are under consideration, Bidders and their representative or o ther interested parties are advised to refrain from contacting by an y means an y corporations 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 reject ion 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 con tingencies are satisfied and the No tice 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 Bidd er 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 a ward 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 DISOUALIFICATION

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

- (a) 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.
- (b) 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-Tenderpreparation.
- (c) The e-Tender documents are not signed by an authorized person (as per Article IT. 13 i.e. signing of e-Tender documents).
- (d) The general performance data for qualification is not submitte d fully (as per Article IT 12 i.e. General performance Data).
- (e) Bidder does not a gree 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.

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 in the forms mentioned below:

A fixed deposi t receipt of any Schedule Bank or Nationalized Bank (except Cooperative Bank) duly endorsed in favour of the **Rajkot Municipal Corporation**. **Raikot.**

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 Tenderer 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 en sures 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 a nd Twenty (120) calendar days from the date of opening of the e-Tenders 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 OUANTITY

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 EOUIPMENT 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 overh auled 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 cont ract 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 right to reduce the scope of work & split the e-Tender on 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 I iable to be regis tered under ESI Ac t 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 curre nt financial year imposed by Government of Guja rat, and also the bidder shall have to produce Enrollment Certificate for the same.

IT 42 PF CODE:

The contractors who are li able to be registered under EPF Act, 195 0 must posses s 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 regi stered 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 hav e 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.

Addl/Asst. Engineer Dy.Ex.Engineer CITY ENGINEER R.M.C.

R.M.C.

R.M.C.

Signature of Contractor

FORMATS

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.

STATEMENT NO-1

DECLARATION

I/We hereby declared that I am / we partner(s) are not blacklisted or connected with firm blacklisted in an y states, CPWD / MES / Railways or any Govern ment, Semi-Government or Private body.

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

We, the partners / owner of this firm, hereby give an undertaking that we are jointly and sever ally responsible to m eet 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.

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Seal and Signature of the

Bidder

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 su bmit 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 RMCto 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

Date: Seal and Signature of the Bidder
We produce herewith the copies of the challans for the provident fund deduction and contribution deposited as mentioned above.
Fund Authority under our Provident Fund Code No
with Provident
/ wages paid by us to the labourers engaged for the work of
same along with employer's contribution towards provident fund on labour charges
This to certify that we have deducted the employees' P.F. and deposited the

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.	Perio d From - To	Organization under which work	Status /position in 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		A Banker's Certificate of current financial year may please be attached.
2.	Annual Turnover for		Certified true copy to
	the last five years.		be attached
3.	Price of biggest (road work) job		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	2020-2021				
2	2019-2020				
3	2018-2019				
4	2017-2018				
5	2016-2017				
6	2015-2016				
7	2014-2015				

Note:-

- 1) Figures to be taken from audited balance sheets. Duly certified attested true copy
- Copies of the balance sheet to be attached.. 2)
- The bidder shall have to provide that for a period of at least 10 3) months the bidder has ability to sustain negative cash balance and how he proposes to meet with the same. Cash Plan / Cash flow Statement.
- 4)

STATEMENT NO. - 4 / B

AVAILABLE BID CAPACITY

	2014-	2015-	2016-	2017-	2018-	2019-	2020-
	15	16	17	18	19	20	21
Value of works executed in							

The available bid capacity will be worked out as follows.

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 70% OF THE ESTIMATED COST COMPLETED DURING THE LAST FIVE YEARS.

Sr. No	Year of Constru ct- ion work		Name of owner & contact person of the project, address, phone	Tot al cost of the wor k	Tot al valu e of wor k don e	Date of starti ng work	Date of Actual completi on of work
1	2	3	4	5	6	7	8
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 tender amount completed with good quality and workmanship in the past seven years.

Name of Contractor:

Sr. No	Nam e of wor k	Nam e of clien t	Estimate d c o s t o f work (Rs. Lakhs)	Tender ed amount Rs. (Lakhs)	Date of award of contra ct	Target date of completi on	Actual date of completi on	Reas on for delay				Amount o f wor k done after March 2021 (Rs. Lakhs	Remarks				
									20	20	20	20	20	20	20		
											16						
									-	-	-	-	-	-	-		
									15	16	17	18	19	20	21		

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

<u>STATEMENT NO - 5/B</u> DETAILS OF IMPORTANT CONSTRUCTION PROJECTS

Sr. No		Estimat ed cost	time o			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

Sr. No	Name of project	Value of remaining work Rs. in lakhs.	Start date	Likely date of completi on	Name, address, telephone, fax no. of projectauthority and contact person.

STATEMENT NO.-6

DETAILS OF PLANT & MACHINERY TO BE DEPLOYED ON THIS WORK

Name of the	contractor/	company	/
i tarric or circ	contractor,	company	I

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	
თ.	Telephone	Contact
4.	Fax	Telex
5.	Place of incorporation/registration	Year of incorporation/ 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

The applicant is an individual a proprietary firm a firm in partnership a Limited Company or Corporation a group of firms/consortium (if Yes, give completion information in respect of each partner) Attach the Organization Chart showing the structure of the organization including the names of the Directors and position of officers	
Number of years of experience: as a Prime Contractor (contractor shouldering major responsibility in own country other countries (specify country) in a consortium in own country	
other countries (Specify country) as a sub-contractor (specify main contractor) in own country other countries (Specify country)	
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.	
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?	

 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 reasonsthereof. 6. Have you ever left the work awarded to you incomplete? If so, give name of project and reasons for not completing work. In which fields of civil engineering construction do you claim specialization and interest? Give details of yo ur experience in mechanized cement concrete lining and
to you incomplete? If so, give name of project and reasons for not completing work. In which fields of civil engineering construction do you claim specialization and interest? Give details of yo ur experience in mechanized cement concrete lining and
construction do you claim specialization and interest? Give details of yo ur experience in mechanized cement concrete lining and
mechanized cement concrete lining and
in modern concrete technology for manufacture and quality control.
Give details of your experience in using heavy earth moving equipment and quality control in compaction of soils.
Give details of you r experience in Underground Drainage work in rocky area.
Give details of civil work for drainage pumping station
Give details for construction of sewerage treatment plant
Give details for pu mping machinery in drainage pumping station

GENERAL CONDITIONS OF CONTRACT

:: TABLE OF CONTESTS ::

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00 01	Agencies.
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GC-37	Retention Money
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GC-50	Termination of the Contract
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GC-94	Safety Code
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GC-01 DEFINITIONS AND INTERPRETATIONS:

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.

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.

The "Contractor" shall mean the person or t he persons, firm or Co mpany whose e-Tender has been accepted by the Owner and includes the Contractors legal representative, his successors and permitted assigned.

DELETED

- The "Engineer-In-Charge" shall mean the person designated as suc h 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.
- 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.
- "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.
- "Contract Price" shall mean total money payable to thee Contractor under the contract.
- "Addenda" shall mean the written or graphic notices issued prior to submission of e-Tender which modify or interpret the contract documents.
- "Contract Time" the time specified for the completion of work.
- "Contract" shall mean agreement between the parties for the execution of works including therein all contract documents.
- "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.
- "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.
- The "Specifications" shall mean all directions, the various Technical Specifications, provisions and requirements attached to the contract which pertains to the method and m anner of performing the work, to the quantities and qua lities of the work and the materials to be furnished under the contract f or the work and an y 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.

- 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.
- The "Work" shall mean the works to be executed in accordance with the contract or the part thereof as the case may be and s hall 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 c ompletion of any work and / or incorporation in the work.

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.

- The "Temporary Work" shall mean all temporary works of every kind required in or about the execution, completion and maintenance of the work.
- "Site" shall mean the land and other places, on, un der, in or through which the permanent works are t o 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.
- The "Construction Equipment" shall mean all appliances / eq uipment of whatever nature required in or for execution, completion or mai ntenance of works or temporary works (as herein before defined) but do es not include materials or other things intended to form or for ming part of the permanent work.
- "Notice in writing or written Notice" shall mean a notice written, typed or in printed for m delivered personally OR sent by Registered Post to the last known private or bu siness address or Regi stered 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.

The "Alteration / variation order" shall mean an order given in w riting by the Engineer-In-Charge to effect additions or deletions from or alterations in the work.

"Final Test Certificate" shall mean the final test certificate issued by the owner within the provisions of the contract.

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.

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.

"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.

- "Approved" shall mean approved in writing including subsequent confirmation in writing of previous verbal approval and "Approval" means approved in writing including as aforesaid.
- "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.
- "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.
- "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.

"Security Deposit" shall mean the deposit to be held by the owner as security for the due performance of the contractual obligations.

- 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 WORS".
- 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 site of tendered work is city roads in Rajkot lying in different wards. 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 n ecessary 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 arrange ment for power supply duri ng installation.

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

Owner will not be in a posi tion to provide land required for Contractor's field office, godown, etc. The Contractor shall have to m ake 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 <u>INTERPRETATION OF CONTRACT DOCUMENT</u>:

- 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 Engi neer-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.
- 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 there of. 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 su b-division of the docum ents into separate section and volumes every part of e ach shall be supplementary to an d complementary of eve ry 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 ex tent of each repugnancy of variance.
- 7. The materials, design, and workmanship shall satisfy the relevant ISS, and codes referred to. If additional requirements are shown in the specifications, the same shall be satisfied over and above ISS 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 Raj kot 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 t o the nature of a II 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, ai r or water and as to 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 sit e 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 var iation thereof, storms, prevailing winds, climatic conditions and all other similar matters, effecting work. expected to be familiar with his liability for payment of Government taxes, customs and excise duty and other charges etc. i n 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 resp onsible for any misunderstanding or incorrect information, however, obtained.

GC-07 <u>ERRORS IN SUBMISSIONS</u>:

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 t he 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 <u>DISCREPANCIES</u>:

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 preferen ce 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 th e works, or as to the measurement or quality and valuation of the work exe cuted under this contract or a s 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 su ch 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 drawi ngs 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 f or 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 Dema nd 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. Irrevocable and unconditional Bank Guarantee of Equi valent amount of any Schedule Bank except Co-operative Bank.
 - d. 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 hi m 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 Con tractor (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 w herever in progress either on the site or at the Contractor's or any oth er manufacturer's workshop or f actories 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 h ave the same force as if they had been given to the Contractor himself. Contractor shall give not I ess than ten (10) days notice in writing to the Engineer-In-Charge before coveri ng 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 u ncovered 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 pr oper 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 <u>DEFECT LIABILITY</u>:

- 1. Contractor shall guarantee the work for a period of **3 YEARS**. 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 s upplied by him or in the workm anship shall be rectified or repl aced 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 agen cy and de duct 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 ca use whatsoever he shall at hi s 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 <u>POWER OF ENGINEER-IN-CHARGE TO GIVE FURTHER INSTRUCTIONS</u>:

The Engineer-In-Charge shall have the powe r and au thority 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 ther eof, as fully and eff ectively 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 e xecution 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 contra ct nor a ny 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 whosoever 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.

Not-withstanding any subletting with such approval as aforesaid and notwithstanding the E ngineer-In-Charge shall have r eceived of any subcontractors, 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 t he 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 "E xtension 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 t esting, 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 <u>EXTENSION OF TIME</u>:

Time shall be considered as the essence of the contract. If, however, the failure of the Contractor to complete the work as per the sti pulated dates referred to above arises from delays on the part of Corporation in supplying the m aterials 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 appropri ate 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 op inion 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 LIOUIDATED 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 val ue 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 subj ected to a maximum of 10 percent of the contract value.

GC-21 FORFEITURE OF SECUEITY 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 Contract or. In case the security deposit is insufficient, the balance recoverable shall be deducted from any sum then due or which at an y 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 breac h 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 s ecurity deposit of the Contractor shall stand forfeited and be absolutely at the disposal of the owner.
- b) To employ labour and to su pply 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 term s of his contract. The certificate of Engineer-In-Charge as to the value of the work done shall be f inal and conclusive against the Contractor.
- c) To measure up the work of the contr actor and to take such part thereof as shall be unexecuted out of his hand and give it to an other 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 du e 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 t he above co urses being adopted by the owner, the Contractor shall have no claims for compensation for any loss sustained by him by reason of his having p urchased 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 co ntract 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 an d 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 Engi neer-In-Charge. The Engineer-In-Charge may give notice in writing to the Contractor or his representative requiring him to rem ove 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 se II 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 an y 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 commencem ent of the work, the owner shall for any reasons whatsoeve r not require the whole work or part thereof as specified in the e-Tender to be c arried 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 Hi ndu Undivided Family or business concern, such approval as aforesaid shall, likewise be obtained before Contractor enters in to an agr eement 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 de emed to have been allotted contravention of subletting clause hereof and the same action may be taken and the sam e consequence shall ensure as provided in the subletting clause.

GC-24 IN THE EVENT OF DEATH OF THE CONTRACTOR:

Without prejudice to an y of the rights or re medies under the contract, if the Contractor dies, the owner shall have the option of termin ating 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 guara ntees 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 si te 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:

- The Contractor on award of the work shall name and depute a qualified Engineer having experience of carrying out work of si milar 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 consi dered 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, subagents, assistants, foreman or other employees shall, in the opinion of the Engineer-In-Charge, be guilty o f 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 reemployed in connection with the works without the wri tten permission of the Engineer-In-Charge. Any person, so removed from the work s shall be immediately replaced at the ex pense 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 wi thout 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 respon sible therefore and relieve the owner of all consequent claims, actions for damages or in jury 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 whi ch must be worn at all times on o wner's premises.

GC-29 <u>TERMINATION OF SUB-CONTRACT BY OWNER</u>:

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 ri se to any ri ght to compensation, extension of time or otherwise.

GC-30 <u>POWER OF ENTRY</u>:

If the Contractor shall not comme nce the work in the manner previously described in the co ntract 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 su pply sufficient or suitable construction plant, temporary works, labour, materials or things, or
- vi) Commit breach o f any other prov isions of the contract on his part t o 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 a malgamation 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 with out 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 ded ucted from any money which may be due for the work don e by the Contractor under the contract and not paid for. Any deficiency shall f orthwith be made good and paid to the owner by the Contractor and the ow ner 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 cond itions, it shall be the responsibility of the Contractor executing the work, to work in c lose 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 temp orary works. The Contractor s shall k eep 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 s ite 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 be enduly informed of all contents therein.

GC-34 RIGHTS OF VARIOUS INTERESTS:

The owner reserves the right to distribute the work between more t han one Contractor. Contractor shall co-operate and a fford 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 t he 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 accordin g to the value of the work performed less the price of materials supplied by owner aggregate of previous progressive payments and as required by Cl ause GC-37 (Retention of Money) herein. All such progressive payments shall be regarded as paym ents 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 wor k, 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 du e 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, damag es or ex penses, 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 n ot 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 Cor poration 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 an y other rights the Corporation may have under the contract, to ter minate the contract for all or part of the works, and make any other arra ngements it shall deem necessary to complete the work outstanding under the c ontract 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 <u>DEFAULT OF CONTRACTOR</u>:

- 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 p eriod for whi ch 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 even t, 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 Co ntractor 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 con tract, in which case, he shall be liable to the Corporation for li quidated 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 n ot 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 th ought the last mentioned notice had been the notice referred to in such article or (b) to gi ve such receiver, liquidator or other persons in whom the contract may become vested the option of carrying out the contract subject to his p roviding a satisfactory quarantee for the du e and faithful, performance of the c ontract 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 s hall 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 <u>DECLARATION AGAINST WAIVER</u>:

The condemnation by the Corporation of any breach or breach es by the Contractor or an authorized sub-contractor of any of the sti pulations and conditions contained in the contract, shall in no way prejudice or affect or be construed as a wa iver of the Corp oration'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 an d 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 u nder this con tract against the Contractor, the same may be deducted by the Corporation from any sum then due or wh ich 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, not withstanding 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 t echnical examinations any over paymen t 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 pr escribed 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 m ay 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 f inal 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 <u>DISPUTES OF DIFFERENCES TO BE REFERRED TO</u>:

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 exi stence of such question, dispute or difference as to any decision, opinion, instruction, direction, certificate or evaluation of the Engineer-In-Charge. question, dispute or di fferences shall be settled by the Municipal Commissioner, Rajkot Municipal Corporation, who sh all 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 al ready breached or abandoned shall proceed n ormally unless and un til the same shall be rev ised (or uphold) by any arbitration proceedings as herei nafter provided. 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 exec ution, 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 ter minate the co ntract upon ten (10) days wri tten notice to the other. In the ev ent of suc h 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 t he contract owing to Force Majeure or due to any cause beyond its control, the Contractor shall ad ditionally be paid for any work done du ring 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 bo nds and guarantees. Should the Contractor fail to refund the amounts received in excess within the sai d period such amounts shall be d educted 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 materia is procured for the performance of the contract and the salvage and resale thereof.

GC-51 SPECIAL RISKS:

If during the con tract, there shall be an outbreak of war (whether war is declared or not), major epidemic, earthquake or similar occurrence in any part of the wor ld 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 unt il, the contract is te rminated 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 item after the onset of such speci al risks, to ter minate the contract by giving written notice to the c ontractor and upon such notice being given this contract shall terminate but w ithout 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 su ch delay notify the E ngineer-In-Charge in writing, of the cause of delay, the Corporation shall verify the facts and gra nt such extension as the facts justify.

GC-52 CHANGE IN CONSTITUTION:

Where the Contractor is a partnership firm, the prior ap proval 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 u ndivided 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 carr y 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 <u>SUB-CONTRACTUAL RELATIONS</u>:

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 subcontracting 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 claim s 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 con tract. 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 expen ses and the Contractor will pay any damages and costs awarded in such suit. The Contractor shall promptly notify the owner if the Contractor has a cquired knowledge of any plant u nder 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 exten d the same to an y 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 f or the contributory infringement of patent rights arising out of and base d 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 an y time, there should be evid ence of an y 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 the ereafter 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 const ruction period, the Cont ractor shall keep the site free from wat er 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 f or 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 the y shall be as enumerated in special conditions of con tract 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 carr ied out by the Contractor at no extra cost. All final drawings shall bear the certification stamp as indicated below d uly signed by both the Contractor and Engineer-In-Charge.

Certified	true	forProject	ct
Agreement	No		
_			
Signed			

Contractor In-Charge

Engineer-

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 s et 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 h is responsibilities. The Contractor shall provide at his own cost all necessary level posts, pegs, bamboos, flags, ranging rods, strings and o ther 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 hi s 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.

GC-63 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 shal I rectify completely any errors therein at hi s own cost whe n so instructed by Engineer-In-Charge. If any error has crept in the work due to no n-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 pro vide all the m aterial 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 r esponsibility of any nature. Owner shall insist for procurement of materials with ISI marks supplied by reputed firms of the DGS & D list.

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 d ecided by Engineer-In-Charge.

GC-64 MATERIALS TO BE SUPPLIED BY THE OWNER:

- 1. If the contract pr ovided 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 f ull quantity of mat erials 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 sc hedule of mat erials is supplied by the owner, the same shall be c harged at cost price including carting and other expenses incurred in procuring the sa me. All materials so supplied shall remain the property of the owner and shall not be removed fr om the site on any account. Any material remaining unused at the ti me 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 f rom damage due to rain, dampnes s, fire, theft etc.

The Contractor should take the delivery of the materials issued by the owner after satisfying himself that they are in good cond ition. 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 hi s 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 re sponsibilities. 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 r esponsible to return the surplus materials at owner's store at his own cost.

GC-66 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 iss ue 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 stora ge 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 ex ecution of w ork, is call ed upon to dismantle any part of work f or 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 m inerals of any description and all preciou s stones, coins, treasures, rel ics, antiques and other s imilar 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 <u>DISCREPANCIES BETWEEN INSTRUCTIONS</u>:

If there is any discrepancy between various stipulations of the con tract 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 <u>ALTERATIONS IN SPECIFICATIONS & DESIGNS & EXTRA WORK</u>:

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 necess ary 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 si milar items of work in the contract work. The opinion of Engineer-In-Charge as to w hether 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 carr y 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 pr evailing market rates of materials, labour cost at sched ule 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 q uantity 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 SPECIFICATIONS ARE ISSUED:

In case of any class of work for which no specifications is supplied by the owner in the e-Ten der documents, such work shall be carr ied 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 c ost all necessary instruments and assistance in checking of any work made by the Contractor setting out for taking measurement of work etc.

GC-74 <u>TESTS FOR OUALITY OF WORK</u>:

- 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 pr ovide 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 app ear 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 u nskilled workmanship or otherwise not in accordance with the con tract, 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 sam e may have b een inadvertently passed, certified and pai d for, forthwith rectify or remove and reconstruct the work, so speci fied. In the event of failure to do so w ithin 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 max imum 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 reexecute 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 ther eof 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 ther ewith. 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 d esignate whether by purchasing materials and engaging labour or by the agency of an other Contractor. In such case the owner shall deduct from the am ount which otherwise might become due to Contractor, the cost of such work and materials with then (1 0) percent added to cover all departmental charges and should the total amount thereof exceed the amount due to con tract, 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 us e shall not be deemed to be an acceptance of any work completed in accordance with the contact. If such prior possession or use by Engineer-In-Charge delays the p rocess of work, equitable adjustment in the time of completion will be made and the contract shall be deemed to be modified accordingly.

GC-79 <u>COMPLETION CERTIFICATE</u>:

As soon as the work has been completed in accordance with contact (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 wor k on t he date so certified. If work h as been divided in various groups in contract, owner shall be entitled to tak e over any group or groups before the other or others and there upon the En gineer-In-Charge will issue a compl etion 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 t aken over. The period allowed for carrying out such work will be normally, one month. If any de fect be not rem edied 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 rea son of any default on the part of the Contractor, a completion certificate has not been issued in respect of every portion of work wi thin 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 af oresaid shall be afforded reasonable opportun ity 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 cov er all costs, expenses and liabilities of every description and risks or every kind to be taken in executing, completing and handing over the work to o wner 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 complet e 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 fi nal and binding on Contractor although the same may be not s hown 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 a II other matters in connection with each it em 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 f or 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 Con tractor hereby gives against all action, proceedings, claims, damages, costs and exp enses arising from the incorporation in or use on the works of any suc h articles, processes or m aterials. Other

Municipal or local Board charges if levied on material, equipment or machineries to be brough t to site for use on work shall be borne by the Contractor.

- 4. No exemption or reduc tion of custom duties, excise duties, sales tax or any other ta xes or charges of the Central or State Government or of a ny Local Body whatsoever will be granted or obtained and all such expenses shall be de emed 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:

- All measurements shall be in metric system. All the work in progress will be jointly measured by the representative of En gineer-In-Charge and Contractor's authorized agent. Such measurements will be got recorded in the Measurement Book by the Engineer-In-Charge or h is authorized representative and si gned 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 not withstanding 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 gi ving abstract and detailed measurements of var ious items executed during a month as m utually 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 r emoved and taken away and reconstructed or re jected or to be considered as an admission of the due performance of contract or any part thereof.
- 2. Five (5) percent of the g ross 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 ex tra payment or compensation or any cl aim 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 re ject any such claim and no delay in dealing therewith shall waiver by owner or an y rights in respect thereof.

GC-84 PAYMENT OF CONTRACTOR'S BILL:

- 1. The price to be paid by the owne r 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 En gineer-In-Charge, whose certific ate of such a pproval and passing of the sum so payable shall be f inal 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 Co ntractor 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 <u>FINAL BILL</u>:

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 paymen t 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 C ontractor except when described in the e-Tender as a l imited company in which case the r eceipt 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 <u>COMPLETION CERTIFICATE</u>:

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 Co ntractor shall be furnished with a certificate by the Engineer-In-Charge of such com pletion but no certificate shall be given nor shall work be d eemed 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 co nclusive 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 def ect liability and su bject 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 gene ral account shall be t aken to be an admis sion by owner of the due performance of contract or any part thereof of occupancy or validity or any claim by the Contractor.

GC-88 <u>TAXES, DUTIES, ETC.</u>:

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 mat erials 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 I aws 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 a Iso 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.

GC-89 <u>INSURANCE</u>:

Contractor shall a t 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 f urther 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 a Il 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 d educt 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 rem it 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 r equired 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 exp enses 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 c ontract. 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 owne r 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:

- Contractor shall be respon sible for making good to the satisfaction of owner any loss of a nd any da mage to all structures and pro perties belonging to owner or being executed or procured or being procured by owner or of other age ncies 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-Contractors.
- 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:

- The Contractor shall indemnify and keep indemnified the owner and every member, officer and employee of owner from and agai nst all actions, claims, demands and liabilities whatsoever under the in respect of the breach of any of the above cla uses and / or against a ny claim, action or demand by any workman / employee of the Contractor or any subcontractor under any laws, rules or regulations having force of laws, including but not I imited to claims against the owner under the wor kman compensation Act, 1923, the Employee's Provident Funds Act, 1952 and / or the contract labour (Abolition and Regulations) Act, 1970.
- 2. <u>PAYMENTS OF CLAIMS AND DAMAGES</u>: If owner has to pay any money in respect of such claims or demands aforesaid, the amount so paid an d the cost incurred by the o wner shall be charged to and p aid by Con tractor 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 e mployed by Contract or 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 am ount from any surplus due to on to become due to the Contractor or from the se curity deposit. Owner will n ot 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 p rotect adjoining sites against structural, decorative and other damag es that could be cased 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 a s framed by owner fr om 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 c onstruction practice and guard against hazardous and unsafe working conditions and shall comply with owner's rules as set forth herein.

First Aid and Industrial Injuries:

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

Contractor shall make outside arrangements for ambulance service and for the treatment of industrial injuries. Name of those providing these services shall be f urnished to Engineer-In-Charge prior to start of construction, and t heir telephone numbers shall be prominently posted in Contractor's field office.

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.

General Rules:

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 I iable and responsible for all lapses of his sub-Contractor s / employees in this regard.

Contractor's Barricades:

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.

Contractor's employees and tho se of his sub-contractors shall become acquainted with o wner's barricading practices and shall respect the provisions thereof.

Barricades and hazardous areas adja cent to but not located in normal routes of travel shall be marked by red lantern at night.

Scaffolding:

Suitable scaffolding shall be provided for workman for all works that cannot safely be done from ladders. When a I adder 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 h andholds shall be provided on t he ladder and the same shall be given an inclination not steeper that 1 in 4 (1 horizontal and 4 vertical).

Scaffolding or staging, more than 3.6 M. (12') above the ground or floor, swing or suspended from an overhead support or erect ed 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 f astened as to prevent it from swaying from the building or structure.

Working platforms, gangways, and stairways should be so constructed that they s hould not sag unduly or inadequately and if the height of the platform or the gangway of the stai rway 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.

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").

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 p laced as to cause danger or inconvenience to any person or public. The Contractor shall also provide all n ecessary all necessary fencing and lights to protect the workers and staff from accidents, and shall be bound to expenses of defence of every suit action or ot her proceedings at law that may be brought by any persons for injury sustained owning to neglect of the above precautions and to pay damages and c osts which may be awarded in any such s uit 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.

Excavation:

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

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.

Demolition:

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.

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

All practical steps s hall be tak en to prevent danger to pe rsons employed from risk of fire or explosion of flooding. No floor or other part of the building shall be so over loaded with debris or materials as to render it unsafe.

Safety Equipment:

All necessary personal safety equ ipment as con sidered necessary by the Engineer-In-Charge should be made available for the use of person s 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.

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

Risky Place:

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 f or use and all necessary st eps 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.

Hoisting Equipment:

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

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.

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

- 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.
- In case of every hoisting ma chine and of every chain r ing hook, shackle, swivel and pulley block used in hoisting or lowering or as mea ns of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above sh all 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.
- In case of departmental machine, the safe w ork load shall be notified by the Engineer-In-Charge, as regards Contractor s machine, the Contractor shall, notify, the safety w orking 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 glo ves, and booths as may be necessary shall be pr ovided. The workers shall not wear any rin gs, 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 conc erned 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.

No Exemption:

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.

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 accid ent arising out of the works which resul ts 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 stat ing 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 pr omptly reported to the Engineer-In-Charge, stating clearly and in sufficient details the facts and circumstances of the acci dents and the action taken. In all cases, the Contractor shall indemnity 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 re spect 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 L abour Commissioner in regard to quantum of compensation, the difference in amount will be adjusted.

Addl/Asst. Engineer R.M.C.

R.M.C.

Dy.Ex.Engineer CITY ENGINEER R.M.C.

Signature of Contractor

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, moulds, templates, posts, straight rails, boning staves strutting, 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 stating 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:

- 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
- 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
- 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.
- The work order book as prescribed shall be maintained on the site of the work by the contactor and the contractor shall sign the orders given by the inspecting offers and shall carry out them properly.
- 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
- Unexcavated lengths shall be I eft 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.
- Diversion of road, if necessary, shall be provided and maintained during the currency of the contract by the contractor at his cost.
- Figured Dimensions of drawing shall supersede measurements by scale, special dimensions or directions in the specifications shall
 - supersede all other dimensions.
- 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

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:

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.

Soils:

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

Hard Murrum:

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

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.

Hard Rock:

This shall include rock accusing 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.
- 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-415 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 conforming to IS:269, IS:8112 or IS:12269 for all the works as per the instructions of engineer-incharge.
 - The approved makes shall be Ambuja, LOTUS, Siddhi, Sanghi, Hathi.
- 11. Testing of the materials like Brick, Sand, Aggregate, Reinforcement steel, etc. should have to be tested peridiocally 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.

В.	DETAILED TECHNICAL SPECIFICATIONS

LABOUR SPECIFICATION

Item No.1, 2 and 3:

EXCAVATION

Excavation of pipe trenches incl. all safety provision using site rail & stacking excavated stuff up to I ead of 9 0M clearing the si te etc comp. For strata as specified **including lifting and removal of Sur plus earth and breaking of C.C. in front of every Houses.**

- a Breaking of Asphalt surface, and C.C. road.
- b 0 to 1.50M & 1.51M to 3.0M depth in soft murrum/clay/sand
- c. 0 to 1.50M & 1.51M to 3.0M depth In Soft rocks, Masonry in CM or LM or LC
- d 0 to 1.50M & 1.51M to 3.0M depth In hard rocks

EXCAVATION

Excavation for pipe line trenches with shoring, strutting, bailing or pumping out watered from trenches whenever necessary of r equired length, width and depth including extra excavations for sockets and all safety measures and provisions such as site rails fencing, lighting, watching including refilling the trenc hes in layers including ramming and removing the excavated staff with 90m lead and clearing the site etc. as stipulated in the tender specification complete before starting work a nd after completion of work for all lifts and soil strata as specified.

- In all sorts of soil soft murmur, hard murrum, boulders, macadam and asphalt roads including breaking of lime and cement masonry and lime concrete.
- b) In soft rock, cement concrete, hard rock, and cutting of cement concrete and R.C.C. of any proportion, etc. with controlled blasting and or chiseling whichever is necessary and feasible as required by site conditions.
- c) In hard rock,

Clearing of sites:

The site at which the pipe line is to laid and the area required for setting out and other operations shall be cleared of all obstructions, loose stones, and rubbish of all kinds; stumps of trees, brushwood as well as all trees shall be removed as directed. The roots shall be entirely grubbed up.

The products of the clearings to be stacked in such a place and in such a manner, As directed by the Engineer-in-charge.

In site clearing, all trees not specially marked for preservation, bamboos jungle wood and bru sh wood shal I be cut down and their roots grub bed up. Al I wood and materials from the clearing shall be the property of corporation and shall be arranged as directed by the Engineer-in-charge or his authorized agent. The materials found to be useful by the Engineer-in-charge shall be conveyed and properly stacked as directed within the specified limit. Unless materials will be burnt or otherwise disposed off as directed.

All holes or hollows, whether originally existing or produced by digging up roots, shall be carefully filled up with earth, well rammed and leveled off, as may be directed shall not be paid for. The contractor shall get approval of design of shoring. The shoring shall be of sufficient strength to resist side pressure and ensure safety from slips and blows and to prevent damage to work a nd property and injury to persons. It shall be removed as directed after all the it ems of work for which it is required are completed.

Protection:

The foundation pits and trenches, etc shall be strongly fenced and red light Signals shall be kept at night in charge of watch-man to prevent accidents. Sufficient care and protective measure shall be taken to see that the excavation shall not affect or damage the adjoining structures. The contractor shall be entirely responsible for any injury to I ife and damage to the properties etc. Necessary protection work su ch as guide ropes, crossing places, barricades, the contractor at his own cost shall provide caution boards etc.

Classification of Strata:

The decision regarding classification of strata shall rest with the Engineer-in-Charge and his decision shall be final and binding to the contractor.

All the materials encountered in the excavation shall be classified as described in 2.0 of general specifications.

Dewatering:

Unless specially provided for as a separate item in the contrac t, the rate of excavation would include bailing or pumping out all water met with in excavation or which may accumulate in the excavation during the progress of the work either, by percolation, seepage, springs, rain or any other cause and diverting surface flow if any, by e arthen bunds or by other means. The bunds shall be removed as soon as the work is completed.

Unless specially provided as a separate item of contract, pumping of water from foundation pit, trenches etc shall be carried out by the contractor at his won cost and he shall arrange for required numbers of dewatering pumping sets for the above work. He shall take precaution to prevent any damage to the foundation trenches, concrete or masonry or any adjacent structure. The excavation shall be kept free f rom water by the contractor (1) during inspection and measurement

(2) When concrete and /or masonry work are in progress and till the construction work reaches above the natural water level and (3) till the Engineer – in – c harge considers that the mortar is sufficiently set. The rate shall be paid for cum. of excavation.

Excavation in Rock:

Blasting with Gun Power:

Blasting operations shall be carried out with the prior permission of sanctioning authority and in the presence of the Engineer – i n – char ge or his authorized representative and during fixed time hours of the day. All safety precautions such as providing safety nylon netting etc. shall be carried out as per instructions of the Engineer – in – charge.

Red danger flags shall be prominently displayed and all the people, except those who have actually to light the f use must be away to a safe distance, not less than 200 meters.

All fuses shall be cut to the length required before being inserted into the holes.

The number of charges to be fired and the actual number of shots heard shall be compared and the person re sponsible must sati sfy himself by examination that all the charges have exploded before work people are permitted to approach the scene. The withdrawal of a charge which has not exploded shall under no circumstances be permitted, but the tamping and charge shall be flooded with water and the hole marked in a distinguishing manner. The next hole to be fired shall be at a distance of about 500mm from the old hole and fired in the usual way.

The contractor or any of his competent authorized person shall be in charge of the blasting operations and shall be held responsible for strictly observing the safety rules, particularly applicable to blasting operations, in addition to other safety rules.

In blasting rocks with dynamite, the following general principles shall be observed.

In general, the following diameter of drills shall be used for different depth of boreholes:

From 1 – 2	metres	25 mm diameter
From 2 – 3	metres	37 – 50 mm
diameter		
From 3 - 4.75 r	netres	50 – 60 mm
diameter		

The borehole should generally be not more than 1.3m deep and the distance apart should be from one and half to twice the depth.

Cracks and fissures in the rock to be blasted shall be carefully studied to as certain the best portion forth the boreholes. Charge shall always be placed in a round piece of rock, if possible not nearer than 30mm from the crack.

Rules for blasting with dynamite and other high explosives:

The person - in- charge must show that he is thoroughly acquainted with all blasting operations and that he understands the rules herewith laid down. He will be held responsible for any accident that may occur.

Boreholes must be of such sizes that the cartridge can easily pass down them. The position of all holes to be drilled must be marked out with white paint and the person – in – charge must take particular note of these positions.

The drilling operation being finished, the person – in – charge must make a second inspection and satisfy himself that the boreholes mar ked out by him have been drilled. The person – in – charge must prepare all charges necessary for boreholes.

Only ten holes may be loaded and fixed at one time and the charges should be fixed simultaneously as far as practicable. Boreholes must be thoroughly cleared before a cartridge is inserted.

The loading is to be done by the person – in – charge himself and the position of the charge holes carefully noted by him. Wooden tamping rods only to be used in charging holes (not pointed but cylindrical throughout, one cartridge at a time must be inserted and gently pressed with the tamping rod.

Immediately before firing blast, due warning must be given and the person – in – charge must see that all the labourers have retired to safety.

The safety fuse of the ch arged holes are to be lighted in the presence of the person – in – charge, who must see that the fuses of t he holes charged have properly ignited. After the blast, the person – in – charge must carefully inspect the work and satisfy himself that all the charges have exploded.

Misfires:

Misfires are a source of great danger, if it is suspected that part of the blast failed to fire or is delayed, allow sufficient time to elapse before entering the danger zone. When fuse and blasting caps are used, a safe time, at least of an hour should be allowed.

None of the drillers are to work near this hole until the two following separations have been done by the person – in – charge.

(a) The person – in – charge should very carefully extract the tamping with a wooden scrapper and withdraw the fuse with the primer and detonator attached, after which a fresh primer and detonator with fuse should be placed in this hole and fired or.

The hole may be cleared of 300mm of tamping and the direction then ascertained by p lacing a stick in the hole. Another hole may then be drilled 150mm away and parallel to it, the hole to be then c harged and fired. The person – in – ch arge shall also at once report to the Engineer – in charge all cases of misfire, that cau se of the same and what steps have been taken in connection herewith.

1.8.2.1 Precautions against misfire:

The safety fuse should be cut in an oblique direction with a knife.

All saw dust mus t be cleared from the inside of the detonator this can be do ne by blowing down the d etonator and tapping the open end. No instrument shall be inserted into the detonator for this purpose.

After inserting the fuse in the detonator, it shall be fixed by means of nippers.

If there is water present, or if the boreholes be damp, the junction of the fuse and detonator must be made water tight by means of grease, white or lead.

The detonator should be inserted into the cartridge, so that about one third of the copper tube is left exposed outside the explosives. The safety fuse outside the detonator, should be nec essarily tied in position in the cartridge. Water proof fuse only to be used in the dam p boreholes, or when water is present in the bore-holes.

If a misfire has been found to be due to defective fuse detonator or dynamite, the whole quantity or box from which the defective article was used shall be rejected.

Storage of materials for blasting shall be as per regulations/stip ulations of the concerned authorities.

It shall be the contractor's responsibilities to ar range proper storage of explosives and obtain required permission from con cerned authorities. No separate payment will be made for the above.

The refilling will generally refer to refilling of trenches up to gr ound level with excavated stuff.

Filling materials shall be from excavated stuff.

Excavated stuff to be used shall be cleared of all rubbish, large size stones, brick bats etc. Big clods shall be broken down to a size of 50 mm or less.

Refilling:

After the pipes have been I aid and jointed and the chambers are cons tructed and as soon as the joints have been inspected and passed by the Engineer-incharge, the pipe line has been tested for water tightness, and after all concrete work thoroughly set the trenches s hall be fulfilled with the materials taken there from. In refilling the trenches, the utmost care shall be ex ercised so as not to disturb, break or damage the jointed pipes. over and around every pipe, the finest selected material shall be p ut. No lumps of rock earth or other materia l around the pipe or be thrown into the trenches until the same has been broken to specified size and pi pes covered by the fine material above referred to. The selected fine material shall be carefully placed next to the permanent work and well packed and well rammed in layers of 150mm for a depth of at least 300mm over the top of the pipe. The remaining of the excavation shall be filled in with the best and most suitable port ions of the excavated material in layers of not more than 6 00 mm deep, each layer shall be thoroughly rammed before the next layer is placed. One man shall be employed for hand ramming for every 30m of refi lling up to the level of 300mm over the top of the pipe. Surplu s soil shall be piled on top of the filling to the extent possible for expected subsidence. All road materials to fr om a compact neat surface. The surface of the filled in trench shall be hand rolled by a hand roller weighing not less the ½ tones as directed by the Engineer-in-charge.

The contractor shall maintain all refilling and surfaces until reinstated. The contractor shall responsible for claims arising from accidents due to subsidence or inadequate maintenance or improperly refilling work.

The contractor shall be responsible for any settlement during the defects liability period including monsoon and the same shall be refilled with stuff brought from outside, if necessary.

Where excavated material is not considered suitable for refilling by the Engineer-in-charge, the Contractor will be required to cart selected surplus excavated materials in place of unsuitable materials. The contractor may also be instructed to supply suitable granular or other hard filling material for use in refilling.

Measurement:

The contractor's shall be paid for the unit of one cub ic meter of t he quantity excavated limited to the dimensions and provisions specified in the specifications or as directed by the Engineer-in-charge. The extra excavation to provide for jointing pipes, shor ing etc. will not be paid for. The rates shall include cleaning and clearing the trench site by cutting grass, shrubs and trees of girth (circumference) not exceeding 10 feet and removing their obstructing roots in the trench cleaning the site, setting out works as per sanctioned plans, provide shoring, excavation and removal of all material from trenches, backfilling the trenches up to natural ground level and all ot her operations described above. The wood obtained during site clearance shall be the property of the department concerned. **Including lifting and removal of surplus earth.**

The excavated quantity divided into two sub groups

- (a) Excavations up to depth of 1.5M
- (b) Excavation for depth from 1.5 M to 3.0M.

The trench section is to be provided with Max. width OD of pipe \pm 250mm to 300mm either sides. Depth of trench shall be OD of pipe \pm 0.6 cover above the top of pipe (for 100 mm dia pipe) and OD of pipe \pm 1.0 cover above the top of pipe (for other dia pipe).

<u>Item No. 4:</u> <u>Breaking of Road Cement Concrete excluding breaking of C.C. and Otta of Houses</u>

- 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 backfilling 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-incharge that structure is to be removed in a condition suitable for reerection, 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	Cubic Meter
	(Plain and reinforced) masonry	
ii)	Dismantling flexible and cement	Cubic Meter concrete
	pavement	
iii)	Dismantling steel structure	Ton
iv)	Dismantling timber structure	Cubic Meter
v)	Dismantling pipes, guard rails, kerbs,	
	gutters and fencing	Linear Meter
vi)	Utility poles	No.s
vii)	Removal of flooring – CC Precast Tiles/	
_	Shahbadi ladi / tiles flooring	Sqr. Mtr
viii)	Removal of road divider strip	No.s
ix)	Removal of Interlocking Paving Block	Sqr. Mtr

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, pilling and disposing of the dismantled material within all lifts and up to a lead of 100 meters.

<u>Item No. 5</u>:

Breaking or Excavation of Paver/Asphalt surface

Breaking of existing Payment surfaces of roads with breakers or with cutting tools, etc. Payment shall be made **on Sq.mt bases.**

Item No. 6:

DI Pipes and Specials

Manufacture, Providing, supply and delivery of 10 0mm,150mm,200mm and 300mm Dia DI K-7 pipeline & sp ecials DI K-12 Grade with internal cement mortar lining and external Zinc coating with finishing layer of Bitumen:marked in strict accordance with and confirming to IS:8 329/2000 (as per latest amedndment); suitable for push on joi nting, along with one number Rubber Gaskets for each len gth of pipe (EPDM Gasket as per IS: 5382/1985). Class-K7 including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking, excavation of trenches with shoring and strutting wherever required, bailing or pumping out water wherever necessary, laying of pipes, jointing of pipes including materials of jointing and testing as per specifications of various works stipulated in the tender etc. as directed by Engineer-in-charge

Tender price:

The tender price (Pipe/specials Supply + all House connection supply items as shown in above scope of work and as per the detaile d specifications + Labour work for laying jointing, testing & com missioning of com plete service House connection street DI pipeline & house connections shall in clude all materials, labour, tools and tackles, plant and machinery etc. necessary for the proper manufacture of pipes and specials and for tests at t he contractor's works, for insurance and for delivery to RMC's store or site of works indicated in the project area according to dispatch schedule and for laying and testing on site etc.

The rates quoted in the bill of quantities (Pipe /specials Supply + HC material supply + Labour work for laying jointing, testing & commissioning) shall cover everything necessary for the due and complete execution of the work according to the drawings and other conditions and stipulations of the contract including specifications or the evident intent and meaning of all or either of them or according to customary usage and for periodical and final ins pection 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 positions and th e provision of all materials, power, tools, rammers, I abour, tackle, platforms with proper lapped joints for scaffolding, ranging rods, straight edges, centering and boxing, wedges, moulds, templates, posts, straight rails, boning-staves, strutting, barriers, fencing, lighting, pumping apparatus, t emporary arrangement for passage of traffic, access to premises and continuance of drainage, water supply and lighting (if interrupted by contractor's work), temporary sheds, painting, varnishing, polishing, establishments for e fficient supervision and watching arrangements for the efficient supervisions of life and property and all requisite plant and machinery of every kind except only such matter and things as it may be distinctly stated herein which are to be supplied to the contractor free. A rate for any one description of work is to be held to include such items of other classes of works as are obviously necessary for its due

completion and for these no separate/specific charges will be admitted. The c ontractor shall keep every portion of the work clear of accumulation from time to time and shall leave every portion of the work clean, clear and perfect, at the conclusion of whole work at their own cost.

Delivery Schedule:

The contract time as described in the Tender from the notice to proceed. The contractor shall submit his delivery schedule and the program of works together with his tender in conformity with delivery schedule given in the documents.

Packing and Handling:

- a. Necessary care shall be tak en and required packing shall be provided to avoid damage to pipe barrels and the edges of the pipe ends in transit.
- b. Where the goods are required to be dispatched at Railway risk, special packing as per IRCA rules are absolutely necessary, which would be payable by the contractor himself.
- c. The contractor shall use prop er handling equipment or follow suitable standard handling method for DI pi pes & DI Specials as approved by the Engineer-in- charge to unload the materials at the delivery site to prevent damage to the goods.
- d. The contractor shall take all care for Transportation & supply of HC connections items to be stored at s ite under his store / the delivery site to prevent damage to the goods.

2.0 General Specifications:

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 as per instructions of the Engineer-in-charge.

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 and the same is made in a fortnight after its occurrence.

The contractor shall engage a qua lified 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 instructions and orders given to the contractor's representative on site shall be considered as if given to the contractor himself.

A work order book as prescribed shall be m aintained on the si te of the work by the contractor and contractor shall s ign the orders given by the inspecting officers and shall carry out them promptly.

Quantities specified in the tender may vary at the time of actual execution and the contractor shall have no claim for compensation on account of such variation.

Diversion of road, if necessary, shall be provided and maintained during the currency of the contract by the contractor at his cost.

Figured dimensions of drawings shall supersede measurements by scale. Special dimensions or directions in the specifications shall supersede all other dimensions.

All levels are given in drawings and the contractor shall be responsible to take regular levels on the approved alignment before actually starting the work. The levels shall be connected to the G.T.S. levels and shall be got approved from the Engineer-in-charge.

If the arrangement for 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.

TECHNICAL SPECIFICATIONS FOR MANUFACTURE, TESTING & SUPPLY OF DI PIPE LINE & DI SPECIALS.

Ductile Iron Pipes

Manufacture, Supply and Delivery Ductile Iron K-7 grade pipes for 100 mm to 300 mm nominal bore diameter with internal cement mortar lining including all taxes, insurance, transportation, freight charges, inspection charges, loading, unloading, transportation to sites of work etc complete (IS: 8329: 2000).

Ductile Iron Fittings/Specials

Manufacture, Supply & delivery of Ductile Iron Flange and Socket & Spigot Specials like Bends, Tees, reducer or any other specials as per BSEN-545/1995 Class-A series K-12 suitable for use wit h. Pipe manufactured as per IS:8329/2000 delivery of Specials is to be made to site of work including all taxes, loading, unloading, carting, stacking, insurance, inspection charges, octroi etc, complete.

A] DUCTILE IRON PIPES & FITTINGS/SPECIALS:

Note: Wherever International Standards or Indian standards / specifications are mentioned, their equivalent or higher standards / sp ecifications are also acceptable

Supply and Delivery of **Ductile Iron Pipe as per IS:8329-2000 & IS 9523 DI fittings** or its latest revision or amendments if any including jointing material as EPDM ring as per IS 53 82-1985 and ISO: 4633-1996 or its latest revision or am endments if any.

Standards

The following standards, specifications and co des are part of this specification. In all cases, the latest revision of the including all applicable official amendments and revisions shall be referred to . In case of discrepancy between this specification and those referred to herein, this specification shall govern.

- 1) ISO: 10803-1997 Design method for ductile iron pipes
- 2) IS:8329-2000 Centrifugally Cast (spun) ductile iron pressure pipes for water, gas and sewage & IS 9523 for DI Fittings/Specials.
- 3) ISO:2531-1991 Ductile iron pipes, fittings and accessories for pressure pipelines.

- 4) ISO:4179-1985 Ductile iron pipes for pressure and non pressure-Centrifugal cement mortar lining General requirements.
- 5) IS:8112 Specification for 43 Grade ordinary Portland cement.
- 6) BS:3416 Bitumen based coatings for cold application, suitable for use in contact with potable water.
- 7) ISO:8179-1995 Ductile iron pipes-External coating-Part-1 Metallic Zinc with finishing layer.
- 8) IS:638 Sheet rubber jointing and rubber insertion jointing.
- 9) ISO:4633-1996 Rubber seals-Joint rings.
- 10) IS:5382-1985 Specification for Rubber sealing rings for gas mains, water mains and sewers.
- 11) AWWA C600 Installation of ductile iron water mains and their appurtenances.

Applicable Codes:

The manufacturing testing, supplying, at work sites of Ductile Iron pipes shall comply with all currently applicable statutes, regulations, standards and codes.

In particular, the following standards, specified herein shall be referred. In all cases, the latest revision of the codes shall be referred to. If requirements of specifications conflict with the requirements of the codes and standards, this specification shall govern.

IS: 8329 Specification for Centrifugally Cast (spun) Ductile Iron pressure pipes for water, gas

and sewage specification.

- IS: 1387 General requirements for supply of metallurgical materials.
- IS: 1500 Methods for Brinell hardness test for metallic materials.
- IS: 9523 Ductile Iron fittings for pressure pipes for water, gas and sewage.
- IS: 12820 Dimensional requirements. of r ubber gaskets for mechanical Joints and push on

joints for use with cast Iron pipes and fittings for carrying water, gas and sewage.

ISO: 4179 Ductile iron pipes for pressure and no pressure-Centrifugal cement mortar lining –

General requirements.

- ISO: 2531 Ductile iron pipes, fitting and accessories for pressure pipe lines.
- IS: 12288 Code of practice for use & laying of Ductile iron pipes.

1.0 Internal Diameter:

The nominal values of the internal diameters of pipe, expressed in millimeters are approximately equal to the number indicating their nominal sizes DN.

2.0 Length:

The working length of socket and spigot pipes shall be 5 m, 5.5 m, or 6 metres.

3.0 Thickness:

The wall thickness of pipe 'e' in mm shall be calculated as a function of the nominal diameter by the following equation with minimum of 5 mm

$$e = K(0.5 + 0.001 DN)$$

where : e = wall thickness in mm, DN = the nominal diameter, K = the whole number coefficient

4.0 EPDM Rubber Gasket:

Rubber Gasket shall be suitably for Push-on-Joint.

The spigot ends shall be suitably chamfered or rounded off to facilitate smooth entry of pipe in the socket fitted with the rubber gasket.

Rubber Gasket shall confirm to IS 5382-1985 and ISO: 4633-1996 its latest revision or amendments if any

5.0 Sampling Criteria:

Sampling criteria for various tests, un less specified in IS 8329 -2000, shall be as laid down in IS 11606. Mechanical test, Brinell Hardness test, Hydrostatic test etc are shall be as per IS 8329-2000

6.0 Tolerances on External Diameter:

The nominal external diameter (DE) of the spigot end of socket an d spigot pipes and when measured circumferentially using a diameter tape shall confirm to the requirements specified as follow. The positive tolerance is +1 mm and applies to all thickness classes of pipes. The maximum negative tolerance of the external diameter are specified as follow:

DN	Nominal	Positive Tolerance	Negative Tolerance
00	00		2.2
80	98	+1	-2.2
100	118	+1	-2.8
125	144	+1	-2.9
150	170	+1	-3.0
200	222	+1	-3.0
250	274	+1	-3.1
300	326	+1	-3.3
350	378	+1	-3.4
400	429	+1	-3.5
450	480	+1	-3.6
500	532	+1	-3.8
600	635	+1	-4.0

7.0 Tolerance on Ovality:

Pipes shall be as far as possible circular internally and externally. The tolerance for outor-roundness of the socket and spigot ends is given below:

Nominal Diameter in mm	Allowable Difference Between Minor Axis and DE in mm
80 to 300	1.0

350 to 600	1.75
700	2.0
750 to 800	2.4
900 to 1000	3.5

8.0 Tolerance in thickness

The tolerance on wall thickness (e) and the flange thickness (b) of the pipes shall be as below:

Dimensions	Tolerance in mm
Wall thickness (e)	- (1.3 + 0.001 DN)1)
Flange thickness (b)	+ (2+0.05b) & - (2+0.05b)

9.0 Coating

Pipe shall be delivered internally and externally coated.

External Coating: Pipe shall be metallic zinc coated and after that it shall be given a finishing layer of bituminous paint as per IS - 8329-2000 Zinc coating shall comply with IS:8329/EN 545/ ISO 81 79. Only mol ten zinc spray co ating shall be acceptable. The average mass of sprayed metal shall not be less than 130 g/sqm with a local minimum of 110 g/sqm. Bitumen overcoat shall be of normal thickness of 70 micro ns unless otherwise specified. It shall be a cold applied compound complying with the requirements of BS 3416 Type II suitable for tropical climates factory applied preferably through an automatic process.

Damaged areas of coating shall be repainted on site after removing any remaining loose coating and wire brushing any rusted areas of pipe.

Internal lining: Internally pipe shall be Portland Cement mortar lined (as per IS - 8329- 2000). The mortar shall contain by mass at least one part of cement to 3.5 part of sand. All pipes and fittings shall be internally lined with cement mortar using high speed centrifugal process in accordance with IWO 4179/IS 8329. Cement mortar lining shall be applied at the pipe manufacturing shop in conformity with the aforesaid standards. No admixtures n the mortar shall be used without the approval of the Engineer. The sand to cement proportion of sand if justified by the sieve analysis. Pipe lining shall be inspected on site and any damage or defective areas shall be made good to the satisfaction of the Engineer. Lining shall be uniform in thickness all along the pipe. The minimum thickness of factory applied cement m ortar lining shall be as per IS: 8329 Annex-B or ISO 4179. This is given below.

Nominal Pipe Size (mm)	Nominal lining thickness (mm)
Up to 300	3
350-600	5
700-1200	6
1400-2000	9

10 Testing of Pipe: Inspection and Testing of pipes during manufacture.

The main test among others to be conducted shall be as per IS:8329-2000 or with its latest revision/amendments.

[a] Mechanical Tests

Mechanical tests shall be carried out d uring manufacture of pipes as specified in the Standards. The frequency and sampling of tests for each batch of pipes shall be in accordance with IS 11606-1986. The test results so obtained for all the pipes and fittings of different sizes shall be submitted to Engineer. The method for tensile tests and the minimum tensile strength requirement for pipes and fittings shall be as per IS;8329/EN 545 for pipes and IS:9523/EN 545 for fittings. Also Test will be carried out as specified in IS: 8329 / IS: 9523. The frequency and sampling of tests for each batch of pipes shall be in accordance with IS: 8329. The method for tensile tests and the minimum tensile strength requirement for pipes and fittings shall be as per IS: 8329/IS: 9523.

[b] Brinell Hardness Test

For checking the Brinell hardness the test shall be carried out on the test ring or bars cut form the pipes used for the ring test and tensile test i n accordance with IS:1500. The test shall comply with the requirements specified in IS:1500/ISO 6506. For checking the Brinell hardness, the pipes used for the ring test and tensile test shall comply with the requirements specified in IS: 1500/IS: 8329.

[c] Re-tests

If any test piece representing a lot fails in the first instance, two additional tests shall be made on test pieces selected from two other pipes from the same lot. If both the test results satisfy the speci fied requirements the lot shall be accepted. Should either of these additional test pieces fall to pass the test, the lot shall be liable for rejection. If any test piece representing a lot fails in the first instance, two additional tests shall be made on test pieces selected from two other pipes f rom the same lot. If both the test results satisfy the specified requirements, the lot shall be ac cepted. Should either of these additional test pieces fail to pass the test, the lot shall be liable for rejection.

[d] Hydrostatic Test

For hydrostatic test at works, the pi pes and fittings shall be kept under test pressure as specified in the standard for a period of minimum 15 seconds during which the pipes shall be struck moderately with a 700 g hammer for confirmation of satisf actory sound. They shall withstand the pressure test without showing any leakage, sw eating or other defect of any ki nd. The hydrostatic test s hall be conducted before surface coating and lining.

For hydrostatic test at works, the pi pes and fittings shall be kept under test pressure as specified in IS: 8329 / IS: 952 3 for a period of minimum 15 seconds, during which the pipes shall be struck moderately with a 700 g hammer f or confirmation of satisfactory sound. They shall withstand the pressure test without showing any leakage, sweating or other defect of any kind. The hydrostatic test shall be conducted before surface coating and lining. The pipes shall be subj ected to following tests for acceptance: Visual a nd dimensional check as per Clause 13 and 15 of IS 8329 Mechanical Test as per Clause 10 of IS 8329 Hydrostatic Test as per Clause 11 of IS 8329 The test report for the rubber gaskets shall be as per acceptance tests of IS 5832 and will be in accordance to Clause 3.8. The sampling shall be as per the provisions of the IS 8329.

Markings

All pipes will be marked as per Clause 18 of IS 8329 along with the requisite information as provided below:

- Manufacturer name / stamp
- Nominal diameter
- Class reference
- A white ring line showing length of insertion at spigot end

Employers mark as "GUDM"

Coatings

Pipe shall be supplied internally (cement mortar lining) and externally with Zinc coating along with a f inishing layer of bituminous coating as p er IS 8329:2000. The materials and finishing shall be as per the relevant specifications.

11.0 Quality Assurance

The manufacturer shall have a laid down **Quality Assurance Plan** for the manufacture of the prod ucts offered which shall be submitted along with the tenders and successful tendered shall have to get its approval from RMC.

12 MANUFACTURING

<u>General</u>

- 1. The pipes shall be of c entrifugally cast (spun) Ductile Iron pipes K-7 class with internal cement motor lining confirming to IS 8 329: 2000. The pipes shall be of push on joint type (Rubber Gasket Joints). The flange connection shall be used only in case of fitting of specials or under special circumstances as directed by Engineer in Charge.
- 2. The pipes shall be coated with zinc coating and finishing layer shall be of bitumen and have factory provided internal cement mortar lining as per the provisions of IS 832 9: 2000 the mortar thickness shall be minimum 5 mm as per Table 15 of the code. The tolerances for pipes and fittings regarding dimensions, mass, ovality and deviations from straight line in case of pipes shall be as per IS 8329/IS 9523.
- 3. The pipes shall be suppl ied in standa rd length of 5.50 and 6.00 meters length with suitably rounded or chamfered ends. Each pipe of the push on joint variety shall also be supplied with a rubber EPDM/ (SBR) gasket. The flanged joints shall confirm to Clause 6.2 of IS: 8329. The pipe supply shall include one rubber gaskets for each flange. Any change in the stipulated lengths will be approved by the Engineer- in Charge. The gaskets shall conform to IS 5382:1985. The gaskets shall also be supplied by the contractor. They shall preferably be manufactured by the manufacturer of the pipes. In case they are not, it shall be the responsibility of the contractor to have them manufactured from a suitable manufacturer under

his own supervision and have it tested at his / sub contractors premises as per the instruction and to the satisfaction of the Engineer- in -Charge. The pipe contractor shal I however be responsible for the compatibility and quality of the products. The flanged joints shall conform to Clause 6.2 of IS 8329

- 4. RAJKOT MUNICIPAL CORPORATION representative shall at all reasonable times have free access to the place where the pipes are manufactured for the purpose of exam ining and testing the pipes and for witnessing the test and manufacturing.
- 5. All tests specified either in this specification or in the relevant Indian Standards shall be performed by the supplier/contractor at his own cost and in presence of employer's representative if desired. For this, sufficient notice before testing of the pipes shall be given to employer.
- 6. If the test is found unsatisfactory, employer may reject any or all pipes of that lot. The decision of MUNICIPAL CORPORATION Representative in this matter shall be final and binding of the contractor and not subject to a ny arbitration or appeal.

13 Joint

Jointing of DI pipes and fittings shall be push-on type

Push-on-joints

The Contractor shall source the push-on-joint gaskets only from the pipe manufactures. In turn the pipe manufacturer shall supply at I east 10% additional quantity of gaskets over and above the requirement to the Contractor at no extra cost. The gasket used for joints shall be suitable for natural and purified water conveyance. In jointing DI pipes and fittings, the Contractor shall take into account the manufacturer's recommendations as to the methods and equipments to be used in assembling the joints. In particular the Contractor shall ensure that the spigot end of the pipe to be jointed is smooth and has been properly chamfered, so that once the rubber ring is correctly positioned before the joint is made, does not get damaged by friction or sharp edges of the spigot Chamfer. The rubber rings and the recommend lubricant shall be obtained only through the pipe manufacturer.

Rubber ring bundles form every lot shall carry with them manufacturers test certificate for the following mechanical properties.

- 1. Hardness
- 2. Tensile strength
- 3. Compression set
- 4. Accelerated again test
- 5. Water absorption test
- 6. Stress relaxation test

Rubber rings shall be clearly labeled in bundles to indicate the type of ring, the type of joint, the size of the pipe with which they are to be used, the manufacturer's name and trade mark, the month and year of manufacture and the shelf life.

Jointing of DI pipes and fittings shall be don e as per IS 12288 and manufacturer's

recommendations. Rubber seal ing rings/gaskets used for jointing shall conform to IS 638, IS 12820 and IS 5382.

Spigot and Socket joints

These shall have sockets which are integral with the pipe and incorporate an elastomeric rubber ring gasket conforming to IS 12820. The gaskets/sealant used for joints shall be suitable for water c onveyance. The material of rubber gaskets for use with mechanical joints and push-on-joints shall conform to IS: 5382.

Flanged Joints

These shall be of 10 bar rating and shall comply with dimensions and dri lling details as specified in IS 8329. These shall have isolation gaskets between the flanges, isolation sleeves around all bolts and iso lation washers under all bolt heads and nuts. The bolts shall be of mild steel unless otherwise specified. They shall be coated with cal tar epoxy coating after tightening.

Slip on Type Couplings

Slip-on type couplings shall include the following couplings:

Straight flexible couplings

Stepped flexible couplings

Slip-on type couplings shall be procured from approved suppliers whose fittings meet the same Specification. The preparation of pipe ends for s lip-on type couplings shall be in accordance with the requirements and the tolerances specified by the joint manufacturer. Couplings shall be installed fully in accordance with the manufacturer's recommendations.

Slip-on type couplings shall be protected if buried with Densomastic and Densotape wrapping or si milar approved material applied in accordance with the manuf acturer's recommendations. Flexible joints shall be harnessed or tied where shown on the Drawings. Flexible couplings shall be supplied with transit protection.

LUBRICANT FOR PIPES AND SPECIALS

Lubricant for the assembly of Ductile Iron pipes and specials suitable for Tyton push-on rubber ring joints shall confirm to IS 9523.

DI PIPE HANDLING, LAYING, JOINTING, TESTING AND COMMISSIONING

- Laying of DI pipes shall conform to IS: 12288. All pipes, fittings and material shall be tested and approved by the Engineer- in -Charge before being laid. Polyethylene sleeves wound pipes shall be used for water logged areas as directed by the Engineer- in -Charge.
- The transportation and handling of pipes shall be made as per IS 12288.
- Cranes or chain pulley block or other suitable handling and lifting equipment shall be used for loading and un-loading of heavy pipes. However, for pipes up to 400 mm nominal bore, skid timbers and ropes may be used. When using crane hooks at sockets and spigot ends; hooks shall be br oad and protected by rubber or similar material, in or der to av oid damage to pipe ends and I ining. Damage to lining must be repaired before pipe laying according to the instructions of the pipe manufacturer. the trench must not be refilled before laying of the pipes.

- All specials like bends, tees etc. and appurtenances like sluice or b utterfly valves etc. shall be laid in synchronization with the pipes. No pipe shall be laid in wet trench conditions. On gradients of 1:15 or steeper, precautions should be taken to ensure that the spigot of the pipe laid does not move into or out of the socket of the laid pipe du ring the jointing operations. The designed anchorage shall be provided to resist the thrusts developed by internal pressure at bends, tees, etc.
- Where a pipeline crosses a watercourse, the design and method of construction should take into account the characteristics of the watercourse to ascertain the nature of bed, scour levels, maximum velocities, high flood levels, seasonal variation, etc. which affect the design and laying of pipeline. The assembly of the pipes shall be made as recommended by the pipe manufacturer using suitable tools.
- Where a pipe line crosses State highway, National highway, canals, railways etc., pipe shall be laid after taking approval of the competent authority. All the expenses in this regard shall be taken care by contractor.

PIPE TESTING AND COMMISSIONING

- The pipeline shall be tested for t ightness of barrels and joints, and stability of thrust blocks in sections. Preferably the pipeline stretches to be tested shall be between two chambers (air valve, scour valve, bifurcation, other chamber). Contractor shall test stretches not exceeding 1 k m. After successful organization and executi on of tests the length may be extended to more than 2 km after approval of the Engineer- in -Charge.
- The water required for testing shall be arranged by the contractor himself. The Contractor shall fill the pipe and compensate the leakage during testing. Complete setting of the thrust blocks. Water used for testing should not be carelessly disposed off on land which would ultimately find its way to trenches. The testing conditions for the pipelines shall be as per the test pressures and condition laid out in IS 8329 for DI pipes.

The testing conditions for the pipelines are summarized as follows:

- Maximum hydrostatic test pressure for K7 pipes shall be 2.0 times of maximum design pressure in the pipeline.
- Pre test and saturation period with addition of make-upwater
- Pressure: Test pressure
- Duration: 3 hrs for DI pipes without cement mortar lining / 24 hrs for DI pipes with cement mortar lining
- Pressure test with addition of make-up water
- Pressure: Test pressure
- Duration: 3 hrs
- Test criteria for DI pipes: Q=1 litre / km per 10mm of pipe per 30 m test pressure per 24 hrs.
- All pressure testing at site should be carried out hydrostatically. The pipes shall
 be accepted to h ave passed the pressure test satisfactorily, if the quantity of
 water required to re store the test pressure does not exceed the amount 'Q',
 calculated by the above f ormula. All pipes or joints which are proved to be in any
 way defective shall be replaced or remade and re- tested as often as m ay be
 necessary until a satisfactory test have been obtained.

Quality Assurance

The manufacturer shall have a laid down Quality Assurance Plan for the manufacture of the products offered which shall be submitted along with the tenders and successful tendered shall have to get its approval from RMC. All the materials, pipes, specials, valves etc. shall have to be inspected through Third Party Inspecting Agency.

Mode of Payment: Payment restricted to 70 % on completion of laying & jointing & 30% on giving hydraulic test. No payment for unlaid pipes will be made.

Item No. 7

Lowering, laying and jointing D. I. Pipes of various classes with CI / DI / MS specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including transportation to site of work, labour, giving hydraulic testing as per IS code etc complete. for 100mm, 150 mm, 200 mm and 300 mm dia D.I. K7 Pipes & fittings of DI- K-12

GENERAL:

The pipes & joints shall be procured, supplied by the Contractor at wor k site at his own cost. Every care shall be taken in carting them to site. During transportation any damage shall be occurring to pipes for fittings the replacement of pipes given by the contractor at his own cost.

The trenches shall be well leveled so that pipes are laid evenly along them. The pipes shall be fixed within two EPDM rings, if directed by the Engineer-in-charge or mentioned in item of **Schedule B.** The specification for titan joints i.e. EPDM Rubber Rings shall be as per details specification shown above. The contractor shall make his own arrangement for obtaining permission for storing & stacking of pipes etc. from land boards whether they are Government, Municipal Local Bodies or Private land owner.

Every pipes before I owering into the trenches shall be got checked and thoroughly cleaned and the beds of the trenches shall be properly graded and leveled as required on the line, without any claim for extra cost whether it is required. The pipe shall be carefully lowered into the trenches with the help of a suitable type of chain pulley blocks, which shall first be approved by the Engineer-in-Charge. Each pipe shall be properly jacked and the spigot perfectly fixed into the socket. No jointing operation shall be started unless the gradients levels are approved by the Engineer-in-Charge or his representatives.

The pipes shall be laid complete in centerline ranged ac curately by means of a string attached to both marked center of site rails and no deviation shall be permissible without the permission of Engineer-in-Charge. The pipe shall be laid in reasonably dry trenches and no circumstances on slushy bedding.

The pipes shall be brushed before lowering any laying or remove any soil or dirt etc. that may have accumulated.

The inside socket and outside of the spigot-shall be carefully cleaned. The pipe shall be lowered carefully with socket and toward and the flow of water or up till or as directed and spigot and should be carefully inserted into the socket and the space shall be filled with the joint.

DI specials shall be conforming to IS 9523-2000 and flanges shall be of PN-10 class.

PIPE CUTTING

For the installation of bends, branches and valves, pipelines require pieces of pipes of varying lengths. The exact length can only be determined on the site and one must be able to cut the pipes easily, quickly and safely.

CUTTING MACHINES

Today abrasive disc cutters with various kinds of p ower supply are used to c ut ductile iron pipes. These cutters are powered by electric or compressed air connections or they can be driven in directly by internal combustion engines. Many of the abrasive disc cutters in the market can be fitted with both abrasive cut off discs for cutting and with roughing discs for rounding off the cut edges. If only one matchine is available on site then it should be suitable for both types of discs.

Stages in cutting operation

The pipe should be plac ed on level ground or on squ are timbers in such a way that during cutting, the cutting disc does not b ecome jammed and the remaining pipe wall does not prematurely break away.

Marking: A line marked all around the pipe facilitates a straight cut. The line is simply drawn along a steel band which is bent around the pipe.

Cutting: Using the cutting disc, the ductile iron and cement mortar pipe wall is cut through completely at one point. The pipe is then cut along the marked line in a single operation.

Rounding off: For jointing into sockets of the push - on type, the new spigot end must be chamfered as the original spigot end. Only then the sp igot end can be correctly inserted in the socket without damaging the gasket or pressing it out of it's seat. A roughing disc is used for chamfering.

Re-coating: Subsequently, the bare metal surface should be recoated with zinc rich paint and a finishing layer of bitumen.

Marking the insertion depth: Before assembling the joint, lines should be marked on the new spigot, showing the correct insertion depth of the spigot end in the socket.

TESTING OF WATER PIPES:

After each section of the pipeline has been completed it shall be tested for water tightness before being covered. The contractor shall at his own cost fill up water in pipe line and giv en necessary hydraulic test section by secti on and the pipe line shall stand the pressure which shall stand the pressure which shall exceed the working pressure by

(a) 50% of the highest pressure in the section. (b) 30m whichever is less without showing any leakage or sweating anywhere in the pipes joints specials valves etc. it any defect are found the contractor shall be made good the same at his own cost. A ny leaking joints shall be made good and above test pressure in to be lowered gradually after satisfactory test is & over. Municipal corporation will not be able to provide water for testing of the pipelines & water containers of the project. This shall have to be managed by the contractor at his costs and risk.

The hydraulic test shall be given again if considered necessary by the Engineer or his representative to show that no further leakages or sweating is there. The contractor shall have to make necessary arrangements for water testing as well as plugging the opened of pipes etc. as directed without claiming any extra cost. The pipelines shall be kept filled with water for a work lines shall be kept filled with water for a week or till it is situated for testing is done.

If the pipe lines are laid in detached sanctioned & not i n continuous length due to any reasons such as non availability of specials o r due to ob stacle etc. The contractor sh all see that no end of pipes length is kept open-ends are immediately covered up either by suitable blank flange or cap s lug or by m eans of dou ble layer gunny bags cl othes tied properly by mild steel wire without any claim for extra-cost.

The pipe laying across the state highways, national highways etc. will have to be done either through open cut method or thr ough push through method d epending upon the requirement to be prescribed by the sanctioning authority. However, mostly it would be push through method.

Mode of Payment: Payment restricted to 70 % on completion of laying & jointing & 30% on giving hydraulic test.

Item No. 8 : DI Specials

Manufacture, Supply & Delivery of Ductile Iron Flange, socket spigot bends, tees, reducers or any other specials as per IS:9523-2000 Class-A series K12 suitable for use with D.I. Pipes manufactured as per IS:8329/1994 delivery of specials is to be m ade to site of works including all taxes, loading, unloading, carting, stacking, insurance, inspection charges, octroi etc. complete. For 80 mm dia to 400 mm dia and a bove With external bitumen & zinc coating & internal cement mortar lining

All Specials shall conform to the requirements of the UK Water Industry Specifications as per IS: 9523-2000 Class-A series K12 suitable for use with D.I. pipes manufactured as per IS: 8329/1994 for both Socket and Spigot Type and Flanged End Types of Fittings.

Fittings/specials shall comply with all currently applicable status, regulation, standards and codes. In particular, the following standards, unless otherwise specified herein, shall be referred to. In all c ases, the latest revision of the standards/codes shall be referred to. If requ irements of t his specification conflict with the requirements of the standards/codes, this specification shall govern.

Codes of practice

IS:8329	Centrifugally cast (spun) Ductile Iron pressure pipe for water, gas
	and Sewage.
IS:3764	Excavation Work - Code of Safety.
IS:12288	Code of Practice for use and laying of Ductile iron pipes

Quality Assurance

The manufacturer shall have a laid down Quality Assurance Plan for the manufacture of the products offered which shall be submitted along with the tenders and successful tendered shall have to get its approval from RMC. All the materials, pipes, specials, valves etc. shall have to be inspected through Third Party Inspecting Agency.

Mode of Payment: Pa yment restricted to 1 00 % on completion of laying & jointing and giving hydraulic test. No Payment for unlaid specials will be made. And there will be no responsibility of RMC for pending/unlaid specials after the completion of work.

Item No. 9:

Providing and supplying ISI mark Cast Iron Sluice Valves of following class and diameter including all taxes, insurance, transportation, freight charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. For 150 mm, 200 mm and 300 mm Dia PN-1 with Cap Operated (PD type short body):

Sluice valve shall conform to IS 14846-2000 relevant internationally recognized standards.

They shall be of non- rising spindle type. The valve shall be fur nished with a bushing arrangement for replacement of packing without leakage. They shall also have renewable channel and shoe linings. The gap between the shoe and channel shall be limited to 1.5 mm.

The gate face rings shall be securely pegged over the full circumference.

Valve shall be provided with thrust bearing arrangement for ease of operation. And shall be provided with enclosed gear arrangement for ease of operation. The operation gear of all valves shall be such that they can be opened and closed by one man against a n unbalanced head 15% in excess of the maximum specified rating. Valve and any gearing shall be such as to permit manual operation in a reasonable time and not exceed a required rim pull of 400N.

All valves, spindles and hand wheels shall be positioned to give good access for operational personnel.

All hand wheels shall be arranged to turn in a clockwise direction to close the valve, the direction of rotation for opening and closing being indicated on the hand wheels.

1.1 Specification for Sluice Valve

Standard: IS -14846:2000

Ends: Flanged and drilled as per IS-1538

1.2 Material of Construction

(A) Body: CI. IS 210 FG260
(B) Bonnet: CI. IS 210 FG260

(C) Non rising Stem: High tensile brass, IS 320 / 6912, Gr.HTB-2 / FHTB-2

or Stainless Steel, IS 6603, Gr.12Cr1304Cr 18Ni10

04Cr17Ni.12 MO2

(D) Wedge: CI. IS 210 FG260

(E) Stem Nut: Leaded tin Bronze, IS: 318,Gr.LTB-2

(F) Body seat ring, wedge face: Leaded tin Bronze, IS: 318, Gr.LTB-2 ring & bushes. (G) Gland packing: Jute & Hemp, IS: 5414

(H) Hand Wheel: CI. IS 210 FG260

(I) Nuts: Carbon steel, IS-1363(Part-3), Class 4.0
(J) Bolts: Carbon steel, IS-1363 (Part-3), Class 4.6

(K) Bonnet Gasket: Rubber, IS-638, Type -B

1.3 Hydro test Pressure as perIS-14846:2000

Rating	Test for	Test Pressure
PN 1.0	Body	15 kg / cm² (1.5 MPa)
	Seat	10 kg / cm² (1.0 MPa)
PN 1.6	Body	24 kg / cm² (2.4 MPa)
	Seat	16 kg / cm² (1.6 MPa)

The Contractor has to prepare approved Quality Assurance Plan (QAP) as per Specification and latest IS Code provisions before manufacturing.

Sluice valve as per IS: 14846 or its latest revision.

General

The contractor shall be covering manufacturing, supplying and delivery of sluice valve conforming to IS: 14846 or i ts latest revision (specification for sluice valves, 50 to 900 mm size) with ISI certification.

Standards

The CI sluice valves to be manufactured, supplied and delivered under the scope of this contract shall be manufactured in accordance with and conforming to Indian standard specifications as given below with ISI certification mark on each sluice valve.

Temperature Variation

All sluice valves manufactured, supplied and delivered shall be subjected to drinking water under variable temperature condition ranging from 4°C to 45°C.

Marking

The legible and indelible marking upon each valve shall indicate the following:

- (1) ISI certification mark on each sluice valve
- (2) Manufacture's brand name and/or trade mark
- (3) Size of valve and nominal pressure of valve
- (4) Serial number of cast
- (5) Serial number in punch
- (6) Where a valve has been tested for only open-end-test, it should be marked 'O' Distinctly and permanently
- (7) Any other important matter that the m anufacturer deems fit to be inscribed embossed

Test Certificate

- The contractor shall provide manufacture's test certificate for every batch / lot of valves manufactured and supplied.
- The contractor shall also produce, in addition to the ma nufacture's test certificate, the inspection certificate issued by the authorized person / agency a ppointed by employer for the same purpose. The inspection charges of the authorized person / agency as fixed by employer shall have to be borne by the contractor and the necessary payment to the inspecting agency shall be paid by the contractor as per the terms and condition of employer.

Nominal Pressure

Sluice valves shall be designed by nominal pressure (PN) defined as the maximum permissible gauge working pressure in Mpa as "PN-II" (1 Mpa = $10 \text{ kgf/m}^2 \text{ approx.}$). The nominal size shall refer to the nominal bore at any point, and shall not be less than the nominal size required.

Material

The materials for different component / part s of the sluice valve s hall conform to the requirements given in table below:

Materials for Components / Parts of Sluice Valve

SI. No.	Component	Material	Reference	Grade of Designation
1	Body, bonnet, wedge, stuffing box, gland thrust plate, cap	Grey cast iron	210-FG 1978(1)	
2	Stem	High tensile brass	320-1962(2)	Alloy 1 of 2
3	Wedge nut	Leaded tin bronze	318-1962(3)	2
4	Body seat ring, wedge facing ring	Leaded tin bronze	318-1962(3)	2
5	Bolts	Carbon steel	1367-1967(4)	Class 4.6
6	Nuts	Carbon steel	1367-1967(4)	Class 4
7	Bonnet gasket	Compressed fiber Board	2712-1971(5)	С
8	Gland packing	Jute & hemp	5414-1969(6)	-

- (1) Specification for grey iron castings (third revision)
- (2) Specification for high tensile brass roads and sections (revised)
- (3) Specification for leaded tin bronze ingots and casting (revised)
- (4) Specification for technical supply condition threaded fasteners (first revision)
- (5) Specification for compressed asbestos fiber jointing (first revision)
- (6) Specification for gland packing, jute and hemp

Manufacture

Sluice valve bodies for 80 mm to 900 mm size valves shall be provided with double-flanged-end connections.

Flanges

The flanges and their dimensions of drilling shall be in accordance with part IV and VI of IS: 1538 (Part I to XXII), 1976 (Specification for Cast Iron fittings for pressure pipes for water, gas and sewage) or its latest revision.

Constructional Features

Standard	IS: 2906 above 300 mm size and IS: 780 up to 300 mm
	size
Stem	Non rising
Ends	Flanged, flat faced flanges having off-center bolt holes
Bonnet	Bolted
Disc	Solid wedge
Operation	Manually operated
Seat	Body - Renewable
	Disc - Renewable
Other	Valves shall close in clockwise rotation of the hand wheel
requirements	
Body & bonnet	CI, IS: 210 GR 260
	CI, IS: 210 GR 260
	SS, AISI - 410
	SS, AISI - 316
	SS, AISI - 316
	Bronze, IS: 318 Gr LTB2
Stuffing box	CI, IS: 210 GR 260
Gland	CI, IS: 210 GR 260
Packing	Graphited Asbestos
Bolts, studs &	Carbon Steel, IS: 1367 Class 4.6 / 4
nuts	

Cleaning and Painting

Prior to factory inspection, all manufacturing waste such as metal chips, debris and all other foreign material shall be removed from the interior of the valve. All mill scale, rust, oil, grease, chalk and all other material shall be removed from the interior and exterior surfaces.

Valves shall f irst be given two coats of z inc base primer after completely cleaning the surface and then it shall be coated with three coats of coal tar epoxy paint. The resulting coating shall be uniform and smooth and adhere perfectly to the surface.

The inside coating shall not conta in any constituent soluble in water or any ingredient which could impart any taste or odor to the water.

Testing and Inspection

Valves shall be offered for visual inspection and dimensional check. The hydrostatic testing shall be witnessed by the Employer.

Valves above 300 mm size shall be tested as per IS: 2 906. Valves up to 300 mm size shall be tested as per IS: 780.

Valve shall be dispatched only after MUNICIPAL CORPORATION approval for dispatch.

Quality Assurance

The manufacturer shall have a laid down Quality Assurance Plan for the manufacture of the products offered which shall be submitted along with the tenders and successful tendered shall have to get its approval from RMC. All the materials, pipes, specials, valves etc. shall have to be inspected through Third Party Inspecting Agency.

Fixing of Valves

Loading at store and unloading at site of wo rks shall be done carefully using sui table mechanical handling devices such as crane, chain pulley etc. The chambers for housing the valves shall have stable and firm foundations. The chamber and top roof cover with removable lid shall be provided so that it shall be possible to remove or re place or recondition the valves seats and to remove the parts without removing the valves from the pipe work. For this, suitable flange adapters may be provided. Valves shall have high nitrile rubber seats, preferably metal reinforced, unless otherwise specified and shall be installed in the pipe work in such a manner that they can be removed from the line for dismantling and replacement of rubber seats.

Where the valves are required to be operated electrically, actuators shall be siz ed to guarantee valves closures at maximum possible differential pressure across the valve. Each actuator shall be supplied with installation, instructions and wiring diagrams and sufficient spare parts.

Valves used on pipeline shall be straight, through type, and non chokable. Each valve or its operation equipment shall bear an approved name plate stating its function. All operation spindles, gears and head stocks shall be provided with adequate points for lubrications.

The tightening of nut and bolts shall be done smoothly in such a way that no excessive strain occurs on any one side. The nuts shall be ti ghtened on diametrically opposite site at a time.

Mode of Payment : Payment restricted to 70 % on completion of laying & jointing & 30% on giving hydraulic test. No Payment of unlaid valves will be made.

Item No. 10:

Lowering, Laying, Jointing in position following D.I / C.I. Double Flanged Sluice valve including cost of all labour jointing material, including bolts and giving satisfactory hydraulic testing etc. complete

150 mm dia sluice valve 200 mm dia sluice valve 300 mm dia sluice valve

FIXING OF SLUICE VALVES:

Fixing double f lange cast iron sluice valves including loading, unloading, carting from store to site including all jointing materials and testing etc, complete.

The sluice valves and tail pieces shall be examined before laying for cracks and other flows. They shall be undamaged in all respect.

The sluice valve shall be operated before laying.

All grits and foreign material shall be removed from the inside of the valves before placing. All the four faces shall be thoroughly cleaned and coated with a thin layer of mineral grease.

The tightening of gland shall be checked with a pair of inside calipers. Clearance between the top of the stuffing box and the underside of the gland shall be uniform on all the sides.

Jointing materials:

The contractor shall provide all necessary jointing materials such as nuts bolts, rubber packing, white zinc, jute, lead, wool etc.

All tools and plant required for in stallation of sluice valve shall be provided by the contractor. All jointing materials shall be got approved from the Engineer-in-charge before use.

The nut and bolts shall confirm to latest I.S.S.

The rubber packing shall be good quality and approved by the Engineer-in-charge of the work.

Installation:

The sluice valve shall be lowered into the trench carefully, so that no part is damaged during lowering operation.

If necessary tail pieces shall be fitted with sluice valve first outside the trench and then lowered into the trench.

The rubber packing shall be three ply and of approved thickness. The packing shall be of full diameter of the flange with necessary holes and the sluice valve bore. If shall be even at both the inner and outer edges.

The flange faces thoroughly greased.

If flange faces are not free, the contractor shall use thin fibers of lead wood.

After placing the placing nuts and bolts shall be inserted and tightened to make the joints.

The valve shall be tightly closed when being installed to prevent any foreign materials from getting in between the working parts of the valve.

Each flange bolts shall be tightened a little at a time taking care to tighten diametrically opposite bolts alternatively.

The sluice valve shall be installed in such a way that its spindle shall remain in truly vertical position.

The other end of tail piece shall be fitted with pipes so that continuous lines can work.

Extra excavation required for facility of lowering and fixing of sluice valve shall not be paid for. Testing:

After installation of sluice valve the same is tested to 1 ½ times of its test pressure. The joints of sluice valve shall withstand the test pressure of pipe line.

Defects noticed during test and operation of sluice valve shall be rectified by the contractor at his own cost without any extra claim to the entire satisfaction of the Engineer-in-charge.

Mode of measurement and payment:

The measurement shall be taken **per number of sluice valve** of specified size. The rate will be **per number** fitted in a pipe line.

5% amount shall be withheld for hydraulic test and same shall be released after satisfactory hydraulic test.

FIXING OF AIR VALVE:

Fixing of cast iron air valve including loading, unloading carting from store to site, drilling and treading, wherever necessary including all jointing materials testing etc. complete.

The air valve shall be opened out cleaned and greased and checked properly before fixing. Before fixing the air valve shall be observed for any damage during transit.

Jointing Materials:

The contractor shall provide all jointing materials such as G.I. Nipple, M.S. Clamps, nuts, bolts grease white zinc, rubber packing etc.

All tools and plant required for fixing air valves shall be provided by the contractor.

All the jointing materials shall be got a pproved from the Engineer-in-charge before use. The nuts and bolts shall conform to latest I.S.S

The rubber packing shall be of good quality and approved by the engineer-in-charge of the work. It shall be three ply of approved thickness. The packing shall be of full diameter of flange with necessary holes and control valve bore. It shall be of even thickness of both inner and outer edges.

M.S. clamps shall be in two semi-circular pieces out of two coupling welded, suitable to the threads and size of single acting air valve.

Fittings:

The air valve shall be lowered into the trench, carefully, so that no part is damaged during lowering operation.

Double acting air Valve

The flanges of the air valve and tail pieces or pipe shall be properly cleaned and greased or applied with white zinc.

The rubber packing of approved quality and of required size shall be inserted on faces of air valve.

If flange faces are not true the contractor shall use thin fiber of lead wool at his own cost.

After placing the rubber packing the nuts and bolts shall be inserted and tightened evenly on all sided properly.

Each bolt shall be tightened a little at a time taking care to tighten diametrically opposite holes alternatively.

Testing:

The air valve shall be tested during the tested during the testing of the pipe line. The joints and air valve shall be water tight.

During test if the joint or air valve, found leaking, the same shall be r e-done to the entire satisfaction of Engineer-in-charge.

Mode of measurement of payment:

The measurement shall be size wise per number and payment shall be m ade per number of valve fitted.

30 percent of amount shall be withheld for hydraulic test and shall be released after satisfactory hydraulic test.

In case of zero velocity valves, Air cushion valves & pressure relief valves shall be tested while running of the pipe line.

The measurement shall be taken for number of valve of specified size 30% Amount shall be withheld for hydraulic test and same shall be released after satisfactory hydraulic test.

Mode of Payment: Payment restricted to 70 % on completion of laying & jointing & 30% on giving hydraulic test.

Item No. 11 AIR VALVE (Double Acting) (TEMPER PROOF)

Providing and supplying C. I. Air valves of approved make & quality of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. Lowering, laying and jointing in position following Air valves including cost of all labour, jointing material, including pipe, nuts & bolts etc. all fixtures and giving satisfactory hydraulic testing etc. The cost should also include fixing valves with DI pi pes complete for 150 mm Dia Double Acting Air Valve.

General

The contractor shall be covering manufacturing, supplying and delivery of:

Air valve conforming to IS: 14846 or its latest revision (Specification for Air valves with ISI certification).

Classification

- Air valve shall be of two types
 - (a) Single Air valve
 - (b) Double Air valve
- Single air valve shall have single small or large orifice for releasing air during pipe filling and ventilating the pipe during emptying. Air valves up to 40 mm dia shall be directly screwed on the main.
- Double air valve having two ball chambers on outlet of large capacity shal I be provided for admission and releas e of b ulk volume of air during emptying and filling of the main. Another of small outlet type for the escape of smaller quantities of air accumulating under pressure. They shall be of flanged type.

Materials

Cast Iron

Cast Iron for bodies' pressure covers, splash covers, glands, caps, joints support rings shall be best gray iron of selected grade, 20 of I-S-210-1978 specification for grey iron castings.

Gun Metal

Gun metal shall be of m ixture of 8 8% copper, 10% tin and 2% zi nc having excellent hard wearing qualities, Ball guides of small orifice units and outlet bushes of large orifice valves shall be of gun metal.

Forged Bronze

Nipples, spindles shall be machined from rolled, extruded or forged high tensile brass or aluminum bronze. The produce shall possess much greater strength than ordinary cast product.

Mild Steel

Bolts, nuts, flanges etc. shall be of mild steel unless otherwise specified and shall confirm to IS: 226-1975 specification for structural steel.

Material for Balls

The balls shall be of rubber covered and vulcanite covered. The rubber shall have a smooth and hard surface. It shall be as per IS: 638-1965 specification for rubber and insertion jointing.

Flange Jointing Materials

The jointing material used between the flanges of comp onents part of the valve shall be compressed fiberboard or rubber of thickness between 1.5 mm to 3 mm. The rubber shall be as per I.S. 6 83:1965 specifications for rubber and In sertion jointing. The fiberboard shall be impregnated with chemically natural mineral oil and shall have a smooth and hard surface.

Dimension

Dimension of the Air Valves shall be as per relative item mentioned in Schedule B of the tender.

Characteristics

- Small orifice valves shall have rubber covered balls and nipples of forged bronze or special alloy in to brass plug.
- Large orifice valve shall have vulcanite-covered ball c losing on rubber sealing backed with leather and gunmetal outlet bushe s. They shall be screwed or flanged. The flanged shall be faces and drilled to ISS.
- Air valves shall be sound in all respect and uniformly forged so as to have uniform bore. They shall be free f rom any defects such as unwanted projection, holes or rou ghness and shall have inner and outer surface perfectly smooth.

Coating

- Immediately after casting and before machining, all cast iron parts shall be thoroughly cleaned and before rusting commences shall be coated by dipping in a bath containing a composition having a tarbase.
- The coating shall be s uch that it shall not impose any test of small to water. The coating shall be smooth glossy and suff iciently hard. It shall not chipped when scratched lightly with the point of penknife.

Inspection and Testing

- The Engineer-in-charge or his authorized representative shall have free access to the works f or inspection at any stage of manufacture and to reject any materials, which does not confirm to the specified requirements.
- The manufacturer shall arrange to supply all labour and appliance for the
 tests if the testing is to be done at his works. Each valve shall be
 subjected to the hydraulic test and shall show no sign of leakage under
 these tests, i.e. the balls shall function properly. The valve shall be tested
 to double the maximum working pressure

Manufacturer's Guarantee

The manufacturers shall guarantee that if any defects chargeable to faulty workmanship, design or materi als are found in the valves within a peri od of o ne year of dispatch be shall replace any part that prove defect ive, free of charge at the place of dispatch.

Information Required

The following information shall be cast on each valve body:

- (a) Manufacturer's name or trademark.
- (b) Size of valve

Tender Price

The tender price shall include all labour, material and machinery cost necessitated to be utilized for:

- a) Proper manufacturing of the valves
- b) All tests required to be undertaken at manufacturer's premises
- c) Transportation of the valves either by rail and/or road services with all the covers duly and appropriately insured

- d) Delivery of specials with proper loading, unloading, stacking at MUNICIPAL CORPORATION store as indicated by Engineer-in-charge
- (e) Further towards proper discharge of all contractual obligations, the storage of all specials to be manufactured, supplied and delivered under the scope of contracts shall in general be made as described in Technical Specifications document

Marking

The methods of mar king all the valves to be delivered under scope of contract shall ensure that all the information will remain legible even after transportation, storage in open space etc. In general the legible and indelible marking upon the valves shall indicate the followings:

- a) Manufacture's brand name and/or trademark
- b) Diameter and class of valves
- c) Any other important matter that the manufacturer or purchase deems fit to be inscribed

Packing and Handling

- The materials shall always be packed separately dispatched from manufacturer's works with adequate prot ective measures to prevent damages deterioration while in transport or stored at any place. The packing shall always be so neat and tidy that may withstand any robust and rough handling.
- When the materials are transported at railway risk, special packing as per IRCA rules are absolutely necessary for which the extra cost, if any, shall be borne in total by supplier only.
- The supplier shall use proper handling instruments/equipment's and shall follow to a suitable method of handling pipes as may be approve d by Engineer, while unloading and stacking material in the stores.

Materials and Workmanship

- General requirements of materials and workmanship shall mean any material or article either raw or finished one is required to be used in the manufacturing process of tanks.
- All the material shall be new and of high quality.
- In case, if material is not specified by relevant ISS f or manufacturing part or the whole as item, the su pplier shall prepare specifications in concurrence with manufacturer and shall seek an approval of Engineer prior to its use in the manufacture.

Test Certificate

- The supplier shall always provide manufacturer's test certificate in accordance with every batch/lot of goods so manufactured and supplied.
- The supplier shall also produce in addition to manufacturer's test certificate as mentioned under "inspection & testing above", the inspection certificate issued by the employer or his authorized person / agency appointed.

Inspection

This clause is applicable in general to all materials such as all types of valves, pre-cast chambers, other specials and materials etc. which are to be supplied by the contractor.

Inspection of materials will be carried out at factory site by MU NICIPAL CORPORATION or authorized person / agency appointed by MUNICIPAL CORPORATION

The inspection call for Air Valves should be given. Inspection will be carried out normally within one weeks time and on receipt of such intimation the inspecting agency will inspect the materials as per the specification and on satisfying itself, will mark the inspection marks on all pi pes and issued inspection note to the supplier and concerned consignee.

For inspection purpose the manufacture has to go in for stenciling for identifying size and c lass for proper segregation. The stock of o ffered material shall be in a manageable batch with adequate space like spreading the pieces etc. to p ermit proper inspection and inspection authority to be present during stamping so as to ensure that only actually cleared material is stenciled. Manufacturer does not load material after sunset to avoid inadvertent dispatch of wrong material.

Inspection note issued by the inspection agency to supplier as well as consignee (Concerned Executive Engineer) materials with inspection mark will be dispatched to stores stipulated in supply order and on receipt at stores the verification will be carried out by co ncerned Deputy Executive Engineer as regards quantity and quality. Here quality means physical soundness of materials as precaution against breakage during transit. The supplier has to submit the test certificate as well as detailed test results carried out by inspection authority to the consignee along with the dispatch doc uments of materials. The material shall be considered as received only on receipt given by the concerned Deputy Executive Engineer after verifying and satisfying the above requirements.

Mode of Payment : Payment restricted to 70 % on completion of laying & jointing & 30% on giving hydraulic test.

Item No. 12:

Lowering, Laying & Jointing in position Air Valves including cost of all labour. Jointing material, including nut bolts and giving satisfactory hydraulic testing, etc. complete. (Air valve double ball flanged) 150 mm Dia Double Acting Air Valve.

- i. The single acting air valve shall be supplied and carted by the contractor as per latest IS. The rate shall include loading, unloading and stacking at site.
- ii. The materials shall be carted to store or site of work i ncluding all freight, loading, unloading including all taxes, insurance, including necessary jointing materials such as GI Nipple saddle pieces shall be brought by the contractor for fixing of air valve.
- iii. A suitable hole shall be drilled on the pipeline. The pipeline shall be of any type such as AC, PVC or CI pipes. A clamp shall be got prepared with a nipple

- welded on it . The clamp shall be fixed on pipe with bolts and nuts in such a way that the part of nipple fixed in the clamp shall remain in the hole drilled in pipe. The rubber packing shall be provided between the clamps and the pipe. White zinc spun yarn shall be used for fixing the nipple of air valve.
- iv. Bolt holes shall be drilled according to center-lines. Bolt heads and nuts shall be hexagonal and shall conform to IS: 1363 (specification for black hexagonal bolts, nuts and lock nuts and black hexagonal screws).
- v. The neoprene seat ring sha II be held security in place under the low pressure cover by jointing support ring to prevent it from sagging when the ball is not soaking the orifice.

Jointing Material

- i. Jointing material shall be brought by contractor with all necessary joint rings, nuts, bolts and washers for completing the joints on all the flanges of valve supplied under this contract including these flanges which will be jointed to pipe system. The lengths of bolts shall be assumed to be suitable for jointing material supported under the contract shall be inclusive of rates.
- ii. Joint rings shall be of flat section at least 3 mm thick. They shall be of rubber in accordance with Is: 638-1965 or its latest edition (specifications for rubber and insertion jointing) of hardness proven in practice so as form a water tight joint and use of jointing paste shall not be allowed.

Air Valves, Double Ball, Flanged Type General

- i. The double acting air valves shall have to two ball chambers having one outlet of large capacity for adm ission and release of bulk volume of air during emptying and filling of the main and another having small outlet for escape of smallest quantities of entrapped air, This type of air valves shall be of flanged type with full conformation with IS: 1538 same valve shall be supplied and carted by the contractor as p er latest IS. The r ate shall include loading, unloading and stacking at site.
- ii. The ball sealed orifice always remains open while air is exhausting and is immediately closed when water rises in the chamber, lifts the ball and seals the orifice. It shall also ensure that there are n o recesses or pockets, sheltering, escaping air f or the la rge orifice (low pressure) ball to drop into when the valve is open. Turbulent air at the time of filling of pipe shall not circulate in such cavities and cause the ball to blown in to.
- iii. Double acting air valve shall be bolted-up evenly on all sides after providing necessary rubber packing etc. on the flange of the Tees. Where facing of the flange is not true a line, fiber or lead wood or rubber packing shall be used. It shall be rubber insertion cloth of two plays and of approved qua lity. Any defects in jointing observed during the t est shall be made good by the contractor till there is no further leakages are there.

Air Riser (if required)

Providing, supplying & installation of air riser pipe (GI medium duty) (Flanged pipe) of 6 m length on the pipeline at suitable place as per design and directed by Engineer-in-charge including MS flange pipe RCC foundation block & column in CC M-150 etc. complete.

Specifications for Air Riser for pipeline are as under:

Column / Footings for Air Riser shall be carried out in c ement concrete M-150 using trap metal as per instruct ions of the engineer in charge. Materials and workmanship shall be given in concrete section.

Concrete protection block / column shall be cast in M-150. Minimum cover of concrete block to Riser Pipe shall be 100 mm all around as directed by Engineer-in-charge.

The item Air Riser includes the cost of providing and laying cement con crete M-150 base, MS Flanges, clamp, GI heavy duty as per instruction, MS flange, nut, bolts, rubber packing and cement concrete column in M-150 etc. complete.

Mode of Payment: Payment restricted to 70 % on completion of laying & jointing & 30% on giving hydraulic test.

Item No. 13:

THRUST BLOCK/CEMENT CONCRETE WORK

CC work 1:2:4 using aggregate of size 10-20 mm, centring, curing, finishing etc. complete (without reinforcement)

MATERIALS:

The specification of materials as given in IS: is applicable here also.

R.C.C. M:150:

The proportion of concrete shall generally be one part of cement, two parts of sand and four parts of coarse aggregate by volume giving a strength of 150 kg/cm2 at 28 days.

Coarse aggregates shall be of black trap crushed chips graded from 12 mm to 20 mm size.

1.0 Materials:

Water shall confirm to M-1, cement shall confirm to M-3, Sand shall confirm to M-6, Grit shall confirm to M-8. Graded stone aggregate 20 mm, nominal size shall confirm to M-12.

General:

The concrete mix is not required to be designed by preliminary tests. The proportion of concrete mix shall be 1:1:2 (1 Cement: 1 coarse sand: 2 graded stone aggregate 20 mm nominal size) and 1:2:4 (1 Cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) by volume.

Concrete work shall have exposed concrete surface or as specified in the item.

The designation ordinary M-100, M-150, M-200, M-250 specified as per IS correspond approximately to 1:3:6, 1:2:4, $1:1^{1}/2:3$ and 1:1:2 nominal mix of ordinary concrete by volume respectively.

The ingredients required for ordinary concrete containing one bag of cement of 50 Kg by we ight (0.0342 Cu.M) for different proportions of mix shall be as under:

Grade of concrete	Total quantity of dry aggregate by volume per 50 kgs of cement to be taken as the sum of individual volume of fine and coarse aggregates, max.	Proportion of fine aggregate to coarse aggregate	Quantity of water per 50 Kgs of cement maximum
M-100 (1:3:6) M-150 (1:2:4)	300 Litres 220 Litres	Generally 1.2 for fine aggregate to	
M-130 (1:2:4) M-200	160 Litres	55 - 51 - 11	
(1:11/2:3)	100 Lities	coarse aggregate	20 LIUES
M-250 (1:1:2)	100 Litres	but subject to an	27 Litres
		upper limit of 1:1.1/2 and lower limit 1:3	= : = : = : = : = :

The water cement ratio shall not be more than specified in the above table.

The cement concrete of the mix specified in the Table shall be increased if the quantity of water in mix has to be increased to overcome the difficulties of placements and compaction so that water cement ratio specified on the table is not exceeded.

Workability of the concrete shall be controlled by maintaining a water cement ratio that is found to give a concrete mix which is just sufficient wet to be placed and compacted without difficulty with the means available.

The maximum size of coarse aggregate shall be as large as possible within the limits specified but in no case greater than one fourth of minimum thickness of the member, provided that the concrete can be placed without difficulty so as to surround all reinforcement thoroughly and to fill the corners of the form.

2.7. For reinforced concrete work, coarse aggregates having a nominal size of 20 mm, are generally considered satisfactory.

For heavily reinforced concrete members as in the case of ribs main beams, the nominal maximum size of coarse aggregate should usually be restricted to 5 mm, less than the minimum the distance between the main bars, or 5 mm less than the minimum cover to the reinform or whichever is smaller.

Where the reinforcement is widely spaced as in solid slabs, limitations of size of the aggregate may not be so important, and the nominal maximum size may some times be as greater as or greater than the minimum cover.

Admixture may be used in concrete only with approval of engineer-in- charge based upon the evidence that with the passage of time, neither the compressive strength of concrete is reduced nor are other requisite qualities of concrete and steel impaired by the use of such admixtures.

Workmanship:

Proportioning:

Proportioning shall be done by volume, except cement which shall be measured in terms of bags of 50 kg. weight the volume of one such bag being taken as 0.0342 cu.metre. Boxes of suitable size shall be used for measuring sand aggregate. the size of boxes (internal) shall be 30×30 cms, and 38 cms deep while measuring the aggregate and sand the boxes shall be filled without shaking ramming or hammering. The proportioning of sand shall be on the basis of its dry volume and in case of damp sand, allowances for bulkage shall be made.

Mixing:

For all work, concrete shall be mixed in a mechanical mixer which along with other accessories shall be kept in first class working condition and so maintained throughout the construction. Measured quantity of aggregate, sand and cement required for each batch shall be poured into the drum of the mechanical mixer while it is continuously running. After about half a minute of dry mixing measured quantity of water required for each batch of concrete mix shall be added gradually and mixing continued for another one and a half minute. Mixing shall be continued till materials are uniformly distributed and uniform color of the entire mass is obtained and each individual particle of the coarse aggregate shows complete coating of mortar containing its proportionate amount of cement. In no case shall the mixing be done for less than 2 minutes after all ingredients have been put into the mixer.

When hand mixing is permitted by the engineer-in-charge for small jobs or for certain other reasons, it shall be done on the smooth water tight platform large enough to allow efficient turning over the ingredients of concrete before and after adding water. Mixing platform shall be so arranged that no foreign material gets mixed with concrete nor does the mixing water flow out. Cement in required number of bags shall be placed in a uniform layer on top of the measured quantity of fine and coarse aggregate, which shall also be

spread in a layer of uniform thickness on the mixing platform. Dry coarse and fine aggregate and cement shall then be mixed thoroughly by turning over to get a mixture to uniform color. Specified quantity of water shall then be added gradually through a rose can and the mass turned over till a mix of required consistency is obtained. In hand mixing quantity of cement shall be increased by 10 percent above that specified.

Mixers which have been out of use for more than 30 minutes shall be thorough cleaned before putting in a new batch. Unless otherwise agreed to by the engineer-in-charge the first batch of concrete form the mixture shall contain only two thirds of normal quantity of coarse aggregate. Mixing plant shall be thoroughly cleaned before changing from one type of cement to another.

Consistency:

The degree of consistency which shall depend upon the nature of the work and the methods of vibration of concrete, shall be determined by regular slump tests in accordance with IS 1199 - Latest edition. The slump of 10 mm to 25 mm shall be adopted when vibrators are used and 80 mm when vibrators are notused.

Inspection:

Contractor shall give the engineer-in-charge due notice before placing any concrete in the forms to permit him to inspect and accept the false work and forms as to their strength, alignment, and general fineness but such inspection shall not relieve the contractor of his responsibility for the safety of men, machinery, materials and for results obtained. Immediately before concreting, all forms shall be thoroughly cleaned.

Centering design and its erection shall be got approved from the engineer-in- charge. One carpenter with helper shall invariably kept present throughout the period of concreting. Movement of labor and other persons shall be totally prohibited for reinforcement laid in position. For access to different parts suitable mobile platforms shall be provided so that steel reinforcement in position is not disturbed. For ensuring proper cover, mortar blocks of suitable size shall be cast and tied to the reinforcement. Timber, kapachi or metal pieces shall not be used for this purpose.

Transporting and Laying:

The method of transporting and placing concrete shall be as approved.

Concrete shall be so transported and placed that no contamination, segregation or loss of its constituent material takes place. All form work shall be cleaned and made free from standing water dust, show or ice immediately before placing of concrete. No concrete shall be placed in any part of the structure until the approval of the engineer-in-charge has been obtained.

Concreting shall proceed continuously over the area between construction joints. Fresh concrete shall not be placed against concrete which has been in position for more than 30 minutes unless a proper contraction joint is formed. Concrete shall be compacted in its final position within 30 minutes of its discharge from the mixer. Expert where otherwise agreed to by the engineer- in-charge concrete shall be deposited in horizontal layers to a compacted depth of not more than

0.45 meter when internal vibrators are used and not exceeding 0.30 meter in all other cases.

Unless otherwise agreed to by the engineer-in-charge, concrete shall not be dropped in to place from a height exceeding 2 meters. When trunking or chutes are used they shall be kept close and used in such a way as to avoid segregation. When concreting has to be resumed on a surface which has hardened it shall be roughened swept clean, thoroughly wetted and covered with a 13 mm thick layer of mortar composed of cement and sand in the same ratio as in the concrete mix itself. This 13 mm layer of mortar shall be freshly mixed and placed immediately before placing of new concrete. Where concrete has not fully hardened all laitance shall be removed by scrubbing the wet surface with wire of bristle brushes care being taken to avoid dislodgement of any particles of coarse aggregate. The surface shall then be thoroughly wetted all free water removed and then coated with neat cement grout the first layer of concrete to be placed on this surface shall not exceed

150 mm in thickness and shall be well rammed against old work particular attention being given to corners and close spots.

All concrete shall be compacted to produce a dense homogenous mass with the assistance of vibrators unless otherwise permitted by the engineer-in- charge for exceptional cases such as concreting under water where vibrators cannot be used. Sufficient vibrators in serviceable condition shall be kept at site so that spare equipment is always available in the event of breakdowns. Concrete shall be judge to be compacted when the mortar fills the spaces between the coarse aggregate and begins to cream up to form an even surface mixture. During compaction, it shall be observed that needle vibrators are not applied on reinforcement which is likely to destroy the bond between concrete and reinforcement.

Curina:

Immediately after compaction, concrete shall be protected from weather including rain running water shocks vibration traffic rapid temperature changes frost and drying out process. It shall be covered with wet sacking hassian or other similar absorbent material approved soon after the initial set and shall be kept continuously wet for a period of not less than 14 days from the date of placement. Masonary work over foundation concrete may be started after 48 hours of its laying but curing of concrete shall be continued for a minimum period of 14 days.

Samples from fresh concrete shall be taken as per IS 1199 - Latest edition, and cubes shall be made cured and tested at 7 days of 28 days as per requirements in accordance with IS 516 - Latest edition. A random sampling procedure shall be adopted to ensure that each concrete batch shall have a rea sonable chance of being tested i.e. the sampling should be spread over the entire period of concreting and cover all mixing units. The minimum frequency of sampling of concrete of each grade shall be in accordance with following:

Quantity of concrete in the work	No.of samples	Quantity of concrete in the work.	No.of samples
1-5 cmt	1	16-30 cmt	3
6-15 cmt	2	31-50 cmt	4
51 and above	4 ± one additional for each additional 50 m or part thereof		

NOTE:- At least one sample shall be taken from each shift. Ten test specimens shall be made from each sample five for testing at 7 days and the remaining five at 28 da ys. The samples of concrete shall be taken on each days of the concreting as per above frequency. The number of specimens may be suitably increased as deemed necessary by the engineer-in-charge when procedure of tests given above reveals a poor quality of concrete and in other special cases.

The average strength of the group of cubes cast for each day shall not be less than the specified cube strength of 150 Kg/Cm² for concrete 1:2:4 and 200 Kg/cm² for concrete 1:1¹/₂:3 at 28 days. 20% of the cubes cast for each day may have value less than the specified strength. Such concrete shall be classified as belonging to the appropriate lower grade. Concrete made in accordance with the proportion given for a particular grade shall not,

however, be placed in a higher grade on the ground that the test strength are higher than the minimum specified.

Stripping:

The engineer-in-charge shall be informed in advance by the contractor of his intention to strike the form work. While fixing the time for removal of form, due consideration shall be given to local conditions, character of the structure, the weather and other conditions that influence the setting of concrete and of the materials used in the mix.In normal circumstances (generally where temperatures are above 20⁰C) and where ordinary concrete is used, forms may be struck after expiry of periods specified below for respective item of work.

Stripping Time:

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

a) Side of walls, columns and vertical - 24 to 48 hours.

faces of beams

b) Beam softish (props. left under) - 7 days

c) Removal of propsslabs:

i) Slabs spanning upto 4.5 mii) Spanning over 4.5 m10 days14 days

Removal of props for beams and arches

i) Spanning upto 6 mii) Spanning over 6 m- 14 days- 21 days

All form work shall be removed without causing any shock or vibration as would damage the concrete. Before the soffit and struts and struts are removed, the concrete surface shall be gradually exposed, where necessary in order to ascertain that concrete has sufficiently hardened. Centering shall be gradually and uniformly lowered in such a manner as to permit the concrete to take stresses due to its own weight uniformly and gradually. Where internal metal ties are permitted, they or their removable parts shall be extracted without causing any damage to the concrete and remaining holes filled with mortar. No permanently embedded metal part shall have less 25 mm cover to the finished concrete surface. Where it is intended to re-use the form work, it shall be cleaned and made good to the satisfaction of the engineer-in-charge. After removal of work and shuttering, the City Engineer (Sp.) shall inspect the work and satisfy by random checks that concrete produced is of good quality.

Immediately after the removal of forms, all exposed bolts etc. passing through the cement concrete member and used for shuttering or any other purpose shall be cut inside the cement concrete member to a depth of at least 25 m below the surface of the concrete and the resulting holes be filled by cement mortar. All fins cussed by form joints, all cavities produced by the removal of form ties and all other holes and depressions, honeycomb spots, broken edges or corners and other defects, shall be thoroughly cleaned, saturated with water and carefully pointed and rendered true with mortar of cement and fine aggregate mixed in proportions used in the grade of concrete that is being finished and of as dry consistency as is possible to use. Considerable pressure shall be applied in filling and pointing to ensure through filling in all voids. Surfaces which are pointed shall be kept moist for a period of 24 h ours. If pockets / honeycombs in the opinion of the engineer- in-charge are of such an extent or character as to affect the strength of the structure materially or to endanger the life of the steel reinforcement, he may declare the concrete defective and require the removal and replacement of the portions of structure affected.

- (a) the bars shall be kept in position by the following methods:
 - (i) In case of beam and slab construction, sufficient number of precast cover blocks in cement mortar 1:2 (1 cement : 2 coarse sand) about 4×4 cms. section and of thickness equal to the specified cover shall be place between the bars and shuttering as to

- secure and maintain the requisite cover of concrete over the reinforcement. In case of cantilevered or doubly reinforce beams or slabs, the main reinforcing bars shall be held in position by introducing chain spacers or supports bars at 1.0. to 1.2 metres centers.
- (ii) In case of columns and walls, the vertical bars shall be kept in position be means of timber templates slotes accurately out in them, the templates shall be removed after concreting has been done below it. The bars Ray also suitably tied by means of annealed steel wires to the shuttering to maintain .position during concreting.
- 1.2. All bars, projecting form pillars, Columns beams, slabs etc, to which other bars and concrete are to be attached or bounded to later on, shall be protected with a coat of thin neat cement grout, if the bars are not likely to be incorporated with succeeding mass of concrete within the following
 - 10 days, This coat of thin neat cement shall be removed before concreting.

Mode of measurements & payment.

- The consolidated cubical contents of concrete, work as specified in item shall be measured. The concrete laid in excess of sections shown on drawing or as directed shall not be measured. No deduction shall be made for
 - (a) Ends of dis-simmilar materials such as joints, beams, posts, girders, rafters, purline trusses, corbels and steps etc. upto 500 sq.cm. in section,
 - (b) Opening upto 0.1 Sq. M.
- The rate includes cost of all materials labour, tools and plant requited for mixing, placing in position, vibrating and compacting, finishing, as directed. curing and all other incidental expenses for producing concrete of specified strength. The rate excludes the cost of form work.
- 4.3 The rate shall be for a unit of one cubic meter.

Mode of Payment:

MEASUREMENTS :The payment shall be made on cu.m. of completed work including all operations and final finishing

Item No. 14:

Job work for various Dia D.I. or MS pipe taping, Pipeline repairing work 300mm And 400mm Dia Pipeline Job Work

Pipeline repairing work (in existing network / conn ecting new network) for with excavation-filling in required length with traffic regulating, testing and all essential materials for repairing viz. Safedo, loose thread, Rubber Sheet, Nut-Bolt etc. for CI / DI / PVC / HDPE / AC Pressure / RCC / GI / MS / PS Pipe (excluding valve, joints, specials

etc. materials, de-watering work, cu tting & welding of DI / M S / CI pi pes as required) with all required equipments, in case of PL chowk up, like Steel rod / Hard rubber pipe for line cleaning to be provided by Contractor for 300 mm And 400 mm dia PL

CIVIL WORKS

1.1.GENERAL:-

- i. The site on which the pipelines are to be laid and shown on p lan and the area required for setting o ut other oper ation cleared and all obstruction loose stones and materials. ru bbish of all kind s slumps brushwood as well as trees shall be removed as directed the roots shall be entirely grubbed up.
- **ii.** The products of the clearing to be stack ed in such a place and in such a manner. as directed by the engineer.
- iii. In jungle clearing all trees not specially marked for preservation bamboos jungle wood and brushwood shall be out down their roots grubbed up. A II wood and materials from the clearing shall be the properly of the Board shall be arra nged as directed by the Board En gineer or his authorized agent the materials pronounced as u seful by the engineer will be conveyed and properly stacked as directed within the specified limit. Useless materials will be bur nt of otherwi se disposed off as directed

SETTING OUT:-

The centre lines of all pope trenches etc. shall be given by the Engineer-in-charge. and it will be the responsibility of the contractor to install substantial reference marks. Bench m arks etc. and maintain then as long as required true to line. level curve and slopes. The Contractor shall assume full responsibility for alignment and dimension of each trench.

The labor materials etc. required setting cut and establishing bench marks and other reference marks shall be arranged by the Contractor at his own cost.

EXCAVATION:-

The excavation incl. dewatering for the pipe trenches shall incl. removal of all materials of whatever nature and whether wet or dry con dition necessary for laying of pipe lines exactly in a ccordance with alignment levels grades and curves shown on the plants or as directed by the Engineer-in-charge. Trenches shall be excavated to the exact width and depth according to the size of pipe and the sides shall be left vertical as per as possible or according to the angle of response various soils. Unless there is a specific extra provision in the contract for shoring and strutting for cutting side slopes the contractor shall at his own do the nec essary shoring and strutting or cutting of s lopes to a safe of repose or both approved by the Engineer-in-charge when the state need such treatment. The Contractor shall notify the Engineer before starting excavation to enable him to take cross sectional levels for purpose of measurements before the ground is disturbed. The bottom of the trenches shall be leveled both longitudinally and transversely or sloped as directed by the Engineer. The Contractor shall, at his own cost to removes such portions of boulders of rocks. as are rectified to make the bottom of the trench level. No. filling shall be allowed to bring the trench to level. If by Contractor's mistake excavation is made deeper than shown on the plans and if ordered by the Engineer the extra depth shall have to be

made with selected excavated stuff only with watering, ramming etc. as directed by the Engineer and at the cost of contractor. Other hard excavation shall be cleared of all sort and loose material and cut to a firm surface. Either level stepped as directed by the Engineer. The Engineer may order such charges in the dimensions and alignment of pipe trench as may be deemed necessary to secure sa tisfactory cover over pipeline. The Contractor shall, at his own expense, make provision for all pumping, dredging bailing out of draining water and the trenches shall be kept free of water during laying work. After each excavation is completed, the contractor shall notify the Engi neer to that effect and no laying of pi pe line will be allowed to laid until Engineer has approved the depth and dimensions of t renches level and measurements.

SHORING AND STRUTING:-

Unless specifically mentioned in the contract, excavation of slopes to prevent falling in of sides or providing, fixing maintaining and removing, shoring, bracing etc. shall not be paid for. The Contractor shall be properly upheld. The Contractor shall got approval of design of shoring. The shoring shall be of sufficient strength of resist side pressure and ensure saf ety from slope and blows and to prevent to w ork and property injury persons. If shall be removed as directed after all the items for which it is required are completed. During excavation if water connections, sewerage connection, telephone lines etc. are damaged by the contractor. The same shall have to be restored by the Contractor without any extra payment.

PROTECTION:-

The trenches shall be strongly fenced and red light single shall be kept at night in charge of watchman to prevent accidents sufficient care protective measure shall be taken to see that the excavation shall not affect or damage the adjoining structure. The Contractor shall be entirely responsible for any injury to life and damage to the properties etc. Necessary protection work s uch as gui de ropes crossing places. Barricades, caution boards etc. shall be provided by the Contractor.

Thrust Blocks

Anchorage in the form of a thrust block at each deflection in the horizontal and/or in vertical alignment of the pipeline shall be provided as per the design requirements to resist any unbalanced pressure at the bends. Gravity type thrust blocks shall be provided at horizontal and vertical deflections in the pipeline, which shall be designed according to the test pressure and the soil conditions at the site of the thrust block. Before designing the thrust blocks the Contractor shall assess the stability of the soil considering erosion due to wind and water. The general guidelines to be fol lowed for providing and designing of thru st blocks shall be as under:

- The thrust blocks may not be required for bend angles up to 5%. However, necessary calculations shall be submitted by the Contractor for approval by Employer to establish that the thrust shall be taken care by pipe itself and that it is safe not to have the thrust block.
- The thrust shall be designed according to the field test pressure of the pipe.
- For above ground pipelines, thrust blocks shall be designed to take 100% thrust.

- For buried pipelines, thrust blocks on continuous pipe line sections shall be designed considering 50% thrust to be taken by bl ock and balance by pipe as per CPHEEO manual.
- For buried pipelines, thrust blocks near valve chambers and/or any other dismantling joints shall be designed to take 100% thrust.
- In rock the passive pressure of rock shall be considered for thrust block design
- The thrust blocks shall be of concrete M20, cast in-situ, with minimum surface reinforcement of 5 kg/m2. No formwork is required to be used for construction of thrust blocks in buried conditions, unless desired by the Contractor. The calculations for the dimensioning and the shape of the thrust blocks shall be approved by the Employer.
- Anchor blocks shall also be located wherever there is a transition between above ground and buried pipelines. All such anchor blocks shall have flexible joints at either end to allow for small amounts of settlement to occur.
- The Contractor shall construct the thrust blocks as early in the program of work as is practical, and at least six months prior to installation of the above ground pipeline in order to reduce the risk of settlement imposing additional loads on the pipeline supports. All thrust b locks are to be c ompleted on each section before the sectional hydraulic testing is conducted.
- Where possible, the base of the thrust block shall be cast against solid rock in order to prevent any settlement. Any ma terial overlying the rock shall be excavated and replaced with class M15 mass concrete. In the ev ent of no rock being encountered, the base of the thrust block shall be cast against undisturbed ground. A ny ground, which in the Employer opinion is unsuitable, shall be excavated and replaced with class M15 mass concrete.

Backfilling

Backfilling of trenches for pipes shall be commenced after the pipes have been successfully tested. The backfilling material shall be properly consolidated by watering and ramming, taking due care that no damage is caused to the pipes.

All fill material shall be subject to the Engineer's approval. If any material is rejected by the Engineer, the Contractor shall remove the sa me forthwith from the site. Surplus fill material shall be deposited/disposed of as di rected by Engineer after the filling work is completed.

Back fill material

To the extent available, selected surplus soils from excavations shall be used as backfill provided that it complies to IS 1 2288 and s uch material consists of loam, clay, sand, fine gravel or ot her materials which are suitable for backfilling. All backfill material shall be free from clods, salts, sulphates, cinders, ashes, slag, refuse, rubbish, lumps, vegetable or organic material, lumpy or frozen material, boulders, rocks or stone or other foreign material. All lumps of earth shall be broken or removed. If fill material is required to be imported, the Contractor shall make arrangements to bring such material from outside borrow p its. The material and source shall be subject to the prior approval of the Engineer.

Backfilling of Pipe Trenches

For the purpose of back filling of the trenches shall be carried out simultaneously on both sides of the pipe to avoid unequal pressure on the pipe.

Where the excavation is made through permanent pavements, curbs, paved footpaths, or where such structures are undercut by the excavation, the entire back-fill to the subgrade of the structures shall be made with sand in accordance with IS 12288.

The Contractor shall take proper precautions against the risks of floatation. Should any section of the pipeline be affected by floatation shall be removed and reinstalled to the satisfaction of the Engineer

The Contractor shall carry ou t field tests that on each layer to confirm that the specified density has been obtained.

All excavations shall be backfilled to the level of the original ground surfaces unless otherwise shown on the drawings or ordered by the Engineer, and in accordance with the requirements of the specification. The material used for backfill, the amount thereof, and the manner of depositing and compacting shall be subject to the approval of the Engineer, but the Contractor will be held responsible for any displacement of pipe or other structures, any damage to their surfaces, or any instability of pipes and structures caused by improper depositing of backfill materials.

Trenches crossing a ro ad shall be backfilled with selected ma terial placed in layers not exceeding 15 cm in thickness after com pacting, wetted and compacted to a density of not less than 90 percent of the m aximum dry density at opti mum moisture content of the surrounding material. Any d eficiency in the quantity of material for backfilling the trenches shall be supplied by the Contractor at his expense.

The Contractor shall at his own expense make good any settlement of the trench backfill occurring after backfilling and until the expiry of the defects liability period.

On completion of pressu re and leakage tests exposed joints shall be covered with approved selected backfill placed above the top of the pipe and joints in accordance with the requirements of the above specifications. The Contractor shall not use backfilling for disposal of refuse or unsuitable soil..

Inspection and Testing

The entire procedure of applying the paint as specified will be rigidly inspected right from the cleaning stage to the application of final coat by the Engineer. If, at any time, it is found that the procedure of applying the paint or defects noticed, all such painting work done shall be rectified or redone by the Contractor at his own cost, as directed by the Engineer.

Samples of the paint brought by the Contractor shall be sent to the testing laboratory for testing, as directed by the Engineer,. If any sample is found to be not conforming to the

specifications, the entire consignment to which the sample may pertain shall be rejected. Samples shall be taken at intervals at the option of the Engineer. The entire cost incidental to such testing shall be deemed to be included in the rates quoted by the Contractor.

Clearing of Site

All surplus materials, all tools and temporary structures shall be removed from the site as directed by the Employer and the construction site left clean to the satisfaction of the Employer.

Dynamic commissioning

The dynamic commissioning shall com mence after the work has been physically completed to the s atisfaction of the Empl oyer- in -Charge. It shall simulate the design and operation conditions which are as follows:

- Water being put into the system through overhead tank or direct pumping as the case maybe.
- Closing of the valves against full static or dynamic pressure.
- Operation of all valves including scour valves (open-close-open).
- Operation of all air valves.

Payment shall paid on Nos. of Job bases.

ARRANGEMENT OF TRAFFIC DIVERSION DURING CONSTRUCTION

- a) General: The contractor shall at all t imes carry out work on the road in a manner creating least interference to the flow of traffic while consistent with the satisfactory execution of the same .For all work involving improvements to the existing road the contractor shall, in accordance with the directives of the Engineer-in-charge, provided and maintain, during the execution of the work, a passage for traffic along a part of the existing way under improvement, or along a temporary diversion constructed close to the road.
- b) Passage of traffic along a Temporary Diversion: If in the opinion of the Engineer-in- charge it is not possible to pass the traffic on part width of the carriage way for any reason, a temporary diversion close to the road sh all be constructed as directed. It shall be paved with locally available materials such as hard murrum, gravel, bri ck or stone metal to the specified thickness and provided with bituminous surfacing, where directed. In all case, the alignment, gradients and surface type of the diversion, including its junctions, shall be approved by the Engineer-in-charge before the highway is detoured and closed to traffic. At cross drainage points, the contractor shall provide temporary crossings for the diversion according to the designs approved by the Engineer- in-charge.
- c) Traffic Safety and control: The contractor shall take all necessary measures for the safety of traffic during construction and provide, erect and maintain such barricades, including signs, markings, flags, fights and flagmen as may be required by the Engineer- in-charge for the information and protection of traffic approaching or passing through the section of the road under improvement. Before taking up any construction, an agreed phased programme for the di version of traffic on the highway shall be drawn up in consultation with the Engineer-in-charge.

The barricades erected on either side of the carriage/portion of the carriage way closed to traffic, shall be of strong design to resist violation, and painted with alternate black and white stripes. Red lanterns or warning lights of similar type shall be mounted on the barricades at night and kept throughout from sunset to sunrise.

At the point where traffic is to deviate from its normal path whether on temporary diversion or part width of the carriage way the channel for traffic shall be clearly marked with the aid of pavement markings painted drums or a similar device to the directions of the Engineer-in-charge. At night the passage shall be delineated w i the lanterns or other suitable light source.

One way traffic operation shall be established wherever the traffic is to be passed over part of the carriage way inadequate for two-lane traffic. This shall be done with the help of flagmen kept positioned on opposite sides during all hours for regulation of traffic. The flagmen shall be equipped with red and green flags and lanterns/lights.

On both sides suitable regulatory/warning s i g n s shall be installed for the guidance of road users, on each approach at least two signs shall be up put one close to the point where transition of carriage way begins and the other 120 meters away. The signs shall be of approved design and of refractory type

if so directed.

d) Maintenance of Diversion and traffic control Devices: Signs, lights, barrier and other traffic control devices as well as the riding surface of diversions shaft be maintained, in satisfactory conditions till such time they are

required as directed by the Engineer-in- charge. The temporary travel way shall be kept free of dust by frequent application of water if necessary.

e) Measurements f o r payment traffic Arrangement: All arrangements f or traffic during construction including maintenance these off but ex cluding initial dressing and/or extra treatment of the shoulders and construction of temporary diversions shall be considered as incidental to the works and Contractor responsibility.

Construction of temporary diversions, initial dressing of the shoulders and extra paving at passing places shall, however be paid for as provision sum, if written order is issued to do so by the Engineers-charge.

The work in general shall be carried out as per instructions & approval of engineer in charge.

D. ADDITIONAL CONDITIONS:

- 1. The contractor shall have to provide his own level instrument for this work.
- 2. Lowering, laying and jointing works of all the pipelines shall have to be carried out by using Sight Rails and Boning Staves.
- 3. Work is required to be carried out in residential area where all the services like water supply, sullage water pipeline, telephone / electric cable are existing. Under the circumstances, prior to starting the work agency shall have to excavate the trenches manually for up to 1 mt. depth. During the course of execution, all the services shall have to be maintained by the agency and any damage to any services or property, the agency shall have to get it repair at their cost.
- 4. 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.
- 5. 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 car ried out in any of the above mentioned both the situations.
- 6. 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.

- 7. 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.
- 8. The safety of the trenches is the prime important factor. Along the trenches on both the side, a hump of excavated stuff of minimum height 3 to 5 ft shall have to be provided till the work is got completed. However, where there is no defined road, in such area, the fencing/ lighting etc., requires to be provided as per clause 1.1.15. Sign Board shall have to be provided at required locations, so that there will not be any fatal accident.
- 9. 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 upto 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. For mode of measurement for excavation, the width of excavation will be considered as given at the time of line out by engineer-in-charge or actual width done whichever is less.

- 10. The pipes shall be with ISI mark whereas that of manhole frame and cover shall be confirming to relevant IS.
- 11. After entering into an agreement, the agency shall have to finalize the agency for supply of the material like pipes, manhole / house connection chamber frame and covers etc., 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).

- 12. While the work in progress, there is possibility of change in drainage line routes according to the site conditions. Under these circumstances, the contractor shall have to carry out the work accordingly, for which, no extra payment shall be made in such situations. Over and above, the decision of Engineer-in-charge for change in drainage line routes shall be final and binding to the contractor.
- 13. The quantity of various items mentioned in the schedule-B is liable to increase or decrease up to any extent. Under the circumstances, the contractor shall have to carry out the work accordingly without any rate escalation. Rajkot Municipal Corporation will not entertain any dispute in this regard.
- 14. In excavation, the decision regarding classification of strata shall rest with the Engineer-In-Charge and his decision in this regards shall be final and binding to the Contractor.
- 15. The rates are inclusive of dewatering, if required.
- 16. Regarding water supply for hydro / flow testing, necessary water, power, labour etc. required for the necessary test shall be arranged by the contractor at his own cost.
- 17. During construction activity, proper care must be taken for labour safety and must follow the provisions of the Labour Laws.
- 18. Testing of the material like; Brick, Sand, Aggregate etc. should have to be tested periodically as suggested by the engineer- incharge at Government approved material testing Laboratory and testing charges for the same has to be borne by the contractor.
- 19. In case of any ambiguity found in specifications / drawings etc. the engineer-in-charge is empowered to take necessary decision for rectification and same shall be final and binding to the contractor.
- 20. The contractor shall have to get registered under ESI (Employer's State Insurance)
- 21. 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.

22. The contractor will be responsible to avail P F Code as per the prevailing Circular of Government for the employees on work. The required documents regarding deduction of P F shall have to be submitted by the contractor to the competent authority.

CITY ENGINEER
Rajkot Municipal Corporation

Signature of Contractor

BILL OF QUANTITIES AND PRICE

The Bill of quantities consists of following sections:

CIVIL WORKS:

Civil works requires following:

Excavation of Trenches

- ✓ Providing, supplying, lowering, laying, jointing, testing and commissioning of various dia. distribution & street service DI pipeline with DI Specials network as per the detailed specifications shown in Vol-II.
- ✓ Bedding for pipes with selected murrum
- ✓ Support of piping system, Thrust blocks of RCC in various concrete etc.
- ✓ Refilling the pipeline trenches with proper ramming
- ✓ All required necessary items as directed by engineer in charge.

The bill of quantities forms the most important part of the e-tender documents. The supply, lowering laying jointing, erection testing and commissioning of pipeline which form a part of total works are indicated in the schedules separated include in the documents. The e-tendering contractors shall price of this document.

Performance testing and commissioning:

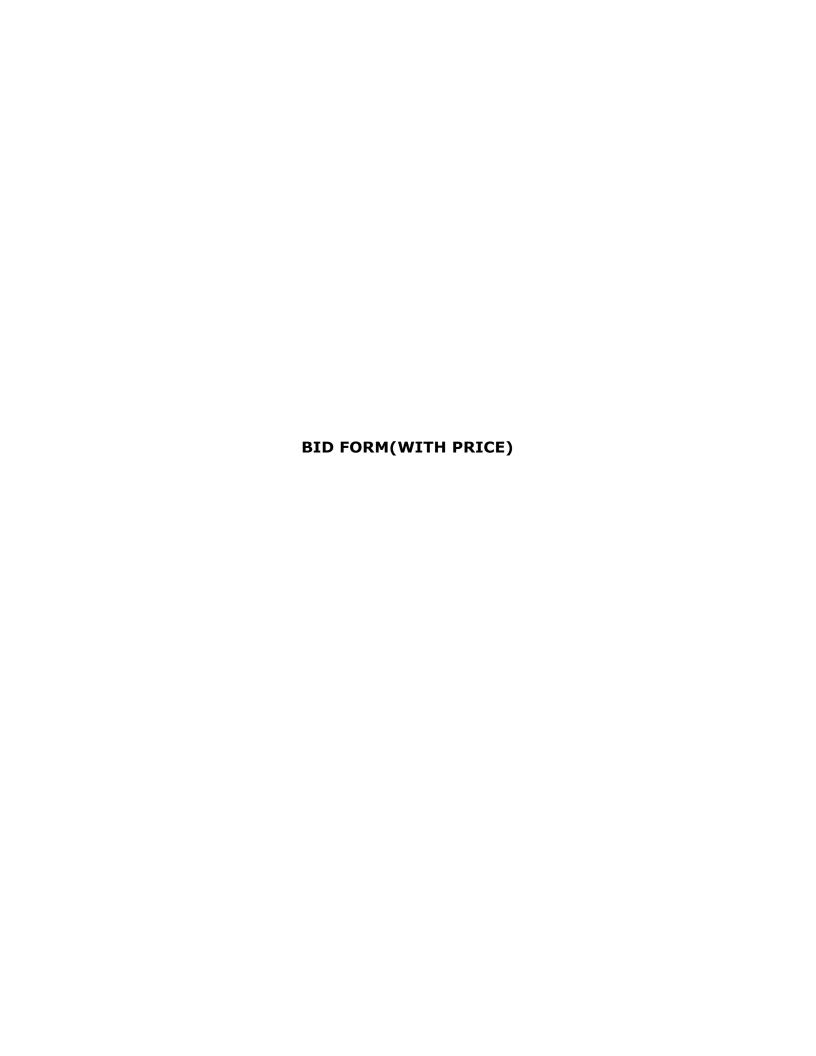
The bill of quantities, general conditions of contractor and the specifications which from an integral part of this contractor shall be read in conjugation.

The bill of quantities, general conditions of contractor and the specifications which from an integral part of this contractor shall be read in conjugation.

Payment for different items shall be paid on % (percentage) above or below quoted by the contractor online in the given price bid. However for any extra items to be carried out with permission of engineer in charge rates will be decided by the Rajkot Municipal Corporation as per GC-70 wherever not specified in the tender.

Whenever manufacturer is separate and contractor for lowering, laying, joining and testing is separate, the principal contractor shall enter in to an agreement with DI pipes & DI Specials manufacturer for satisfactory manufacturing as per the relevant code of practice, testing, transporting, stacking & testing after laying at site as per RMC requirement.

PART-III
BILL OF QUANTITIES
(Attached in Separate Folder)



CONTRACT No: RMC/ENGG/WZ/21-22/02

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: Supplying, Laying and Commissioning of 300mm to 100mm Dia. D.I. pipeline (Class K-7) at Titodiya (Munjka) and near Awas Yojna from New GSR to Vir Savarkar Awas Yojna (Munjka) in Ward No.09.

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

(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

<u>or</u>

(b) if we incorporate into the Works, materials before they are tested and approved by the Engineer's representative

<u>or</u>

(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 **04 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	2016
		(Signature	2)
Company Seal			
,,		(Name of the	person)
(Name of firm) Duly authorised to sign Bid fo (Fill in block capitals)	or and on be	(In the capacitehalf of	cy of)
W/:ha a a a			_
Witness Signature			
Name		-	
Address		-	

PREAMBLE TO PRICE SCHEDULES

Note on Schedule:

The bid is percentage rate bid for LAYING OF DI PIPE LINE AT PUNIT NAGAR 80' ROAD, SHRINATHJI SOC., VINAYAK NAGAR AND OTHER AREA IN WARD NO.12.

- 1. The whole work is to be done under the supervision of RMC.
- 2. Before starting the work, the details survey has to be done by the contractor and shall have to prepare and submit Survey and Level drawings in soft copy (Auto Cad) and Hard copy, and has to mark permanent levels at all necessary locations for Reference, for which, no extra payment will be made by Rajkot Municipal Corporation. After permission / approval from the engineering in charge, the work will have to be executed accordingly on site.
- 3. 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.
- 4. It will be entirely at the discretion of the Em ployer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
- 5. 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.
- 6. Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
- 7. 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 p roper execution of works. The rates shall also be dee med to include any works and setting out that may be required to be carried out for laying out of all the works involved.
- 8. Where there is a discrepancy between the unit rates and the amount entered, in the price schedule the latter shall govern.
- 9. 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.
- 10. Prices quoted by the bidder shall be firm for the entire period of

Contract without any escalation.

- The bidder shall interpret the data furnished and carry out any additional survey work, or investigation work required at his own cost.
- 12. The prices quoted shall also include the cost of materials utilized for testing.
- 13. 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.
- 14. From each Running Account Bill, labour cess will be deducted as per norms.
- 15. The quoted rates should be inclusive of all taxes and duties.
- 16. The prices shall have to be quoted firm & fix including all the taxes & dutes 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.
- 17. The work contract tax will be borne by the agency.
- 18. Use of ready mix concrete may be permitted if it fulfils tender specifications.
- 19. No extra item or extra width will be paid due to excavating method or type of machinery.
- 20. For any type of license regarding labour, etc. has to be achieved by agency.
- 21. 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. The Contractors quoting their rates Above/Below shall have to read, implement, and submit the same duly signed along with the will be d ocuments to be submitted during physical submission.
- 22. In reference to the above Circular and Order cited at above, the Contractor firm who have quoted their rates f or 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.

- 23. The routes and levels shown in the maps are indicative and not final. There are possibilities of change in routes and levels at the time of execution of work and due to which the diameter of pipeline and depth of drainage line may increase or decrease. Under the circumstances, the contractor shall have to carry out the work accordingly at the approved rates without any extra cost. Rajkot Municipal Corporation will not entertain any dispute in this regard.
- 24. The contractor shall have to carry out the Sub-soil strata investigation at his own cost.
- 25. Flow Test shall be done in two stage:

Stage 1

Pipe line shall be laid by resting the pipe line on sup ports at joints. The flow test and The drains, manholes and all joints of pipes shall be made thoroughly sound and water tight and any joint which may be observed to be leaky shall be immediately corrected. Thus after satisfactory flow test sand bedding shall be fill pipe line after laying pipe line. The refilling of trench shall be carried out then after.

Stage 2

After total laying & refilling of trenches, flow test shall be carried out again for particular section of length as suggested by engineer in charge.

- 26. 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.
- 27. Wherever the sanction from Forest and State High Way (R & B) department is required that has to be procured and also any other sanction of any other Institute/Authority is required then contracting agency shall have to arrange itself i.e. whole liaison shall be on account of working agency. However, if required, RMC will recommend for the same wherever necessary. The expenditure incurred for this type sanctions will be reimbursed by RMC on submission of necessary documentary evidence like; Receipt, as proof.
- 28. Blasting may not be permitted in the areas having dense population or any other unsuitability.
- 29. Big machinery may not enter in the areas having narrow streets (3 to 4 Mtr. wide).

- 30. Kachcha houses shall not be get damaged. Considering this, manual labour work is more feasible in these types of areas.
- 31. No extra item or extra width will be paid due to excavating method or type of machinery.
- 32. The bidders are advised to visit the project area and get acquainted with the local condition as the said area is residential area with numbers of underground utility services like water supply pipe line, sullage water pipe line, gas pipeline, telephone/electric cable, KHALKuVAS etc, which requires to be maintained during the progress of work. The safety of the work is prime important factor and all the bidder should be very much vigilant for the same. Thus, there may be some locations where clear ROW or ROU may not be available due to certain reasons like TP Road open Issues, Permissions etc. If work of that much location is affected due to such reasons time limit may be extended considering that non-working period but in no case Price Escalation will be given for that extended period.

Thus, it is to be clear that to work within utility services is a part of this work. If utilities are affected, it shall be the responsibility of contractor to make same as it was as before. The expenditure and arrangement shall be bear by contractor.

- 33. 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.
- 34. Before procurement of Material the Quality Assurance Plan (QAP) shall be approved by RMC. QAP for approval shall be submitted in 3 Original copy duly signed and stamped by Manufacturer, TPI/PMC and Tenderer, The draft OAP has been attached herewith.
- 35. The contractor shall have to quote their rates including GST and other taxes and the Invoice with break-up of GST IS to be submitted accordingly, failing which, such amount will be deducted from the bill of the agency and deposited accordingly.

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 u nregistered supplier not having GST Number.

36. The contractor shall be responsible for Railway Crossing, Highway crossing etc and the detailed design shall have to be provided by

the contractor and carry out the same, for which, payment will be made as per norms.

- 37. The contractor shall have to obtain the approval from the concerned authorities for level crossing, Highway, Gas etc. However, Rajkot Municipal Corporation will extend its cooperation in obtaining the approval. The charges as per norms shall be paid by the agency and same will be reimbursed by Rajkot Municipal Corporation.
- 38. Engineering Store of Rajkot Municipal Corporation will accept the un-utilized D I Pi pes 100% whereas the fittings / specials upto **10%** of the quantity actually as may be confirmed at the time of work order.
- 39. **Scope of Testing period**: During the testing period, agency will have to look after the maintenance and rectification of fault, if any. No extra payment will be made by RMC for this purpose.
- 40. Only for existing house connection, if additional pipe is to be provided over and above the 5 mt. for 15 mm connection then additional payment is to be made Acceptable (Rate of only 15 mm dia pipeline as per the rates of SOR of RMC).

41. e-Tender price:

The tender price (Pipe/specials Supply as shown in above scope of work and as per th e detailed specifications + Labor work for laying jointing, testing & commissioning) shall include all materials, labor, tools and t ackles, plant and machinery etc. necessary for the proper manufacture of pipes and specials and for tests at the contractor's works, for insurance and for delivery to RMC's store or site of works indicated in the project area according to dispatch schedule and for laying and testing on site etc.

The rates quoted by the contractor online in the given price bid (Pipe /specials Supply + Labor work for laying jointing, testing & commissioning) shall cover everything necessary for the due and complete execution of the work according to the drawings and other conditions and stipulations of the cont ract including specifications or the ev ident intent 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 positions and the provision of all materials, power, tools, rammers, labour, tackle, platforms with proper lapped joints for scaffolding, ranging rods,

straight edges, centering 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 of drainage, water supply and lighting (if interrupted by contractor's temporary sheds, painting, varnishing, establishments for efficient supervision and watching arrangements for the efficient supervisions of life and property and all requisite plant and machinery of every kind except only such matter and things as it may be distinctly stated herein which are to be supplied to the contractor free. A rate for any one description of work is to be held to include such items of other classes of works as are obviously necessary for its due completion and for these no separate/specific charges will be admitted. 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 and perfect, at the conclusion of whole work at their own cost.

- 42. FDR or Bank Guarantee will not be acceptable towards Tender fee and Earnest Money Deposit.
- 43. The successful agency shall have to engage TPI agency for pipe material inspection and testing at factory only. The TPI agency shall be from approved list of G.W.S. & S. Board. All necessary charges of TPI agency is to be borne by the contractor.

CITY ENGINEER
Rajkot Municipal Corporation

Signature of Contractor

APPROVED VENDOR LIST

SR. NO.	PARTICULARS	DESCRIPTION					
1.0	DI Pipes & Specials/Fittings	Electrosteel, Ji ndal, Lenco- Khalasthi, Electrotherm, Jai Balaji industries Ltd., Tata, Kejriwal casting Ltd., Kiswok Industries Ltd., R.G. Industries, Kartar Ltd.					
2.0	uPVC Pipes ASTM Standards	Supreme, Phinolex, Jain, Astral, Waterflo,					
3.0	uPVC - Fittings	Supreme, Phinolex, Jain, Astral, Waterflo					
3.0	Tapping Ferrules	As per IS standard but long body					
4.0	Rigid PVC saddle	ISI marked & repute company,					
5.0	SLUICE VALVE/BUTTERFLY VALVE ISI Marked only.	KIRLOSKAR / IVC /UPADHYAY Note:Rajkot Municipal Corporation's circular No.RMC/C/28 dt.12/4/2018 is uploaded separately along with this temder document. Accordingly, Sr. No. mentioned in the aforesaid Circular is applicable to this tender work.					
6.0	AIR VALVE	UPADHAYAY / IVC / FOURESS / R&D MULTIPLE / BALAJI					
7.0	MS PIPE SPECIALS	SAIL, WELSPUN, JINDAL, SAW, ESSAR STEEL & MANUFACTURERS IN GWSSB PRESENT VENDOR LIST.					
8.0	PRESSURE GUAGE	H GURU / BELLS & CONTROL / GENERALINSTRUMENT					
9.0	FLOW METER	ACCUSONIC (U.S.A) / DANFOS / RITTMEYER (I,S,K, ENGG. MUMBAI) / E+H / KROHNE MARSHALL / ULTRAFLUX (FRANCE)					
10.0	CHECK VALVE	KIRLOSKAR / IVC / IVI / FOURESS					

Check List for submission of Docume	ents
Tender Fee submitted as per Tender	Yes / No
Tender Earnest Money Deposit submitted as per Tender	Yes / No
Registration documents submitted as pertender requirement	Yes / No
Financial Details:	
Turnover details submitted as per requirement	Yes / No
Working Capital as per requirement of tender is submitted	Yes / No
Valid Bank Solvency submitted	Yes / No
Validity of Bank Solvency	Date:
Experience Details:	
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 n ot black li sted or Terminated or Debarred, is submitted	Yes / No
Professional Tax Receipt of current year	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

SCHEDULE - A

Schedule showing a material to be supplied from Rajkot Municipal Corporation stores at free of cost for use in work contracted and to be executed

Name of Work:

Supplying, Laying and Commissioning of 300mm to 100mm Dia. D.I. pipeline (Class K-7) at Titodiya (Munjka) and near Awas Yojna from New GSR to Vir Savarkar Awas Yojna (Munjka) in Ward No.09.

Sr. No.	Particulars	Qty.	Rate at which material will be charged to	Total amount					
-	NIL	-	-	-					
Note No.1	Cement required for the Portland cement confinemake only.	The Contractor shall have to make his own arrangement for procuring the Cement required for the work from open market. Cement shall be ordinary Portland cement confirming to IS 269. or IS 8112 Grade 43/53 of repute make only.							
Note No.2		The person or firm submitting the tender should see that the rates in the Above schedule are filled up by the Engineer-in-charge for the issue of the							
Note No.3	Material not included a be provided by the conthe respective tendered	ntractor and cost of	such material shal						

Asst. Engineer
Rajkot Muni. Corporation
Dy. Executive Engineer
Rajkot Muni. Corporation
Rajkot Muni. Corporation



RAJKOT MUNICIPAL CORPORATION ABSTRACT-A

Name of Work: Supplying, Laying and Commissioning of 300mm and 200mm Dia. D.I. pipeline (Class-K/7) at near Awas Yojna from New GSR to vir savarkar Awas Yojna (Munjka) in Ward no.9.

Sr. No	Description	Qty.	Rate	Unit	TotalAmount	Remarks
1	Excavation of trench for Pipes in Soft Murrum / Clay / Sand with all safety Provisions (with re-filling of trench) for depth from					
1 (a)	00.00m – 01.50m B.G.L.	3600.00	96.60	M 3	347760.00	RMC WW SOR No. 1
1 (b)	01.51m – 03.00m B.G.L.	500.00	103.50	M 3	51750.00	RMC WW SOR No. 5
2	Excavation of trench for Pipes in Soft Rock with all safety.Provisions (with re-filling of trench) for depth from					
2 (a)	00.00m – 01.50m B.G.L.	600.00	220.80	M 3	132480.00	RMC WW SOR No. 3
2 (b)	01.51m – 03.00m B.G.L.	500.00	255.30	M 3	127650.00	RMC WW SOR No. 7
3	Excavation of trench for Pipes in Hard Rock using Breaker / blasting / Chiezale / Hammer with all safety Provisions (with re-filling of trench) for depth from					
3 (a)	00.00m – 01.50m B.G.L.	600.00	517.50	M 3	310500.00	RMC WW SOR No. 4
3 (b)	01.51m – 03.00m B.G.L.	500.00	531.30	M 3	265650.00	RMC WW SOR No. 8
4	Breaking of Cement Concrete	100.00	311.00	M 3	31100.00	RMC Bandhkam SOR No. 3
5	Excavation of Paver Road (Except for road works)	2400.00	69.00	M 2	165600.00	RMC WW SOR No. 10

6	Providing and Supplying Ductile Iron Pipes with internal cement mortar lining and external Zinc coating with finishing layer of Bitumen; manufactured, tested and duly marked in strict accordance with and confirming to IS: 8329/2000 (as per latest amendment); suitable for pushon Jointing, along-with one number Rubber Gaskets for each length of pipe (EPDM Gasket as per IS: 5382/1985). Class- K7					
	Sizes in mm					
6 (a)	200 Dia D.I. K7 Pipe Line	500.00	1677.00	R.mt.	838500.00	RMC WW SOR No. 1062
6 (b)	300 Dia D.I. K7 Pipe Line	2000.00	2782.00	R.mt.	5564000.00	RMC WW SOR No. 1064
7	Lowering, laying & jointing DI pipe with CI / DI / MS special in proper position, grade and alignment as directed by engineer-in-charge for dia					
	Sizes in mm					
7 (a)	200 Dia D.I. K7 Pipe Line	500.00	58.77	R.mt.	29385.00	RMC WW 2012-13 SOR No. 384
7 (b)	300 Dia D.I. K7 Pipe Line	2400.00	88.00	R.mt.	211200.00	RMC WW 2012-13 SOR No. 385
8	Ductile Iron fittings like, bends, tees, reducers or any other specials as per IS-9523-2000 (as per latest amendment) use with D.I.Pipes manufactured as per IS:8329/1994 (With external bitumen & zink coating & internal cement mortar lining)					
	Socket & Spigot Type					RMC WW
8 (a)	80 mmф to 300 mmф	1700.00	106.00	Kg	180200.00	SOR No. 1091
8 (b)	350 mmф to 400 mmф and above	1700.00	138.00	Kg	234600.00	RMC WW SOR No. 1092

	Flanged Ended					
8 (c)	80 mmф to 300 mmф	1700.00	109.00	Kg	185300.00	RMC WW SOR No. 1093
8 (d)	350 mmф to 400 mmф and above	1700.00	145.00	Kg	246500.00	RMC WW SOR No. 1094
	Sluice Valve					
9	Providing and supplying ISI mark Cast Iron Sluice Valve of following class and diameter including all taxes, insurance transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete.PN-1 with Cap Operated (PD type short body)					
	Sizes in mm					
9(a)	150 mm Dia Sluice Valve	4.00	7180.00	No.	28720.00	RMC WW SOR No. 191
9(b)	200 mm Dia Sluice Valve	3.00	12705.00	No.	38115.00	RMC WW SOR No. 192
9(c)	300 mm Dia Sluice Valve	3.00	23390.00	No.	70170.00	RMC WW SOR No. 194
10	Lowering, Laying, Jointing in position following D.I / C.I. Double Flanged Sluice valve including cost of all labour, jointing material, including bolts and giving satisfactory hydraulic testing etc. complete					
	Sizes in mm					
10(a)	150 mm Dia Sluice Valve	4.00	346.50	No.	1386.00	RMC WW SOR No. 65
10(b)	200 mm Dia Sluice Valve	3.00	394.10	No.	1182.30	RMC WW SOR No. 66
10(c)	300 mm Dia Sluice Valve	3.00	613.20	No.	1839.60	RMC WW SOR No. 68
11	Air Valve					
1.1	1 111 1 111 1 0					

	Providing and supplying C. I. Air valves of approved make & quality of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. (Air Valves double acting (DS2)					
	150 mm Dia Double Acting Air Valve	2.00	22013.00	No.	44026.00	RMC WW SOR No. 206
12	Lowering, laying and jointing in position Air valves including cost of all labour, jointing material, including nut bolts and giving satisfactory hydraulic testing, etc. complete. (Air valve double ball flanged)					
	Sizes in mm					
	150 mm Dia Double Acting Air Valve	2.00	196.00	No.	392.00	RMC WW SOR No. 77
13	Thrust Block					
	CC work 1:2:4 using aggregate of size 10-20 mm, centring, curing, finishing etc. complete (without reinforcement)		4144.00	M 3	62160.00	RMC Bandhkam SOR No. 89
14	Job work for various Dia D.I. or MS pipe taping, Pipeline repairing work (in existing network / connecting new network) for with excavation-filling in required length with traffic regulating, testing and all essential materials for repairing viz. Safedo, loose thread, Rubber Sheet, Nut-Bolt etc. for CI/DI/PVC/HDPE/AC Pressure/RCC/GI/MS/PS Pipe (excluding valve, joints, specials etc. materials, de-watering work, cutting & welding of DI/MS/CI pipes as required) with all required equipments, in case of PL chowk up, like Steel rod/Hard rubber pipe for line cleaning to be provided by Contractor for various dia Pipe Line					

14(a)	300 mm Dia Pipe Line Job	1.00	960.00	No.	960.00	RMC WW SOR No. 137
		(Grand Total		9171125.90	
				Say	9172000.00	
	A.E.		D.E.E.		City Er	ng.

I/We agree to carry out the above said work at <u>(to be quoted online)</u> % Equal / above / below on the tendered rates shown in Schedule.

Signature of Contractor

RAJKOT MUNICIPAL CORPORATION ABSTRACT-B

Name of Work: Supplying, Laying and Commissioning of 300 mm to 100 mm Dia. D.I. pipeline (Class-K/7) at Titodiya (Munjka) in Ward no.9.

Sr. No	Description	Qty.	Rate	Unit	Total Amount	Remarks
1	Excavation of trench for Pipes in Soft Murrum / Clay / Sand with all safety Provisions (with re-filling of trench) for depth from					
1 (a)	00.00m – 01.50m B.G.L.	2800.00	96.60	M 3	270480.00	RMC WW SOR No. 1
1 (b)	01.51m – 03.00m B.G.L.	500.00	103.50	M 3	51750.00	RMC WW SOR No. 5
2	Excavation of trench for Pipes in Soft Rock with all safety.Provisions (with re-filling of trench) for depth from					
2 (a)	00.00m – 01.50m B.G.L.	600.00	220.80	M 3	132480.00	RMC WW SOR No. 3
2 (b)	01.51m – 03.00m B.G.L.	500.00	255.30	M 3	127650.00	RMC WW SOR No. 7
3	Excavation of trench for Pipes in Hard Rock using Breaker / blasting / Chiezale / Hammer with all safety Provisions (with re-filling of trench) for depth from					
3 (a)	00.00m – 01.50m B.G.L.	600.00	517.50	M 3	310500.00	RMC WW SOR No. 4
3 (b)	01.51m – 03.00m B.G.L.	500.00	531.30	M 3	265650.00	RMC WW SOR No. 8
4	Breaking of Cement Concrete	500.00	311.00	M3	155500.00	RMC Bandhkam SOR No. 3
5	Excavation of Paver Road (Except for road works)	2400.00	69.00	M2	165600.00	RMC WW SOR No. 10

6	Providing and Supplying Ductile Iron Pipes with internal cement mortar lining and external Zinc coating with finishing layer of Bitumen; manufactured, tested and duly marked in strict accordance with and confirming to IS: 8329/2000 (as per latest amendment); suitable for pushon Jointing, along-with one number Rubber Gaskets for each length of pipe (EPDM Gasket as per IS: 5382/1985). Class- K7					
	Sizes in mm					
6 (a)	100 Dia D.I. K7 Pipe Line	2150.00	908.00	R.mt.	1952200.00	1060
6 (b)	150 Dia D.I. K7 Pipe Line	150.00	1355.00	R.mt.	203250.00	RMC WW SOR No. 1061
6 (c)	200 Dia D.I. K7 Pipe Line	250.00	1677.00	R.mt.	419250.00	RMC WW SOR No. 1062
6 (d)	300 Dia D.I. K7 Pipe Line	550.00	2782.00	R.mt.	1530100.00	RMC WW SOR No. 1064
7	Lowering, laying & jointing DI pipe with CI / DI / MS special in proper position, grade and alignment as directed by engineer-in-charge for dia					
	Sizes in mm					
7 (a)	100 Dia D.I. K7 Pipe Line	2320.00	24.60	R.mt.	57072.00	RMC WW 2012-13 SOR No. 382
7 (b)	150 Dia D.I. K7 Pipe Line	160.00	32.77	R.mt.	5243.20	RMC WW 2012-13 SOR No. 383
7 (c)	200 Dia D.I. K7 Pipe Line	280.00	58.77	R.mt.	16455.60	RMC WW 2012-13 SOR No. 384
7 (d)	300 Dia D.I. K7 Pipe Line	730.00	88.00	R.mt.	64240.00	RMC WW 2012-13 SOR No. 385

8	Ductile Iron fittings like, bends, tees, reducers or any other specials as per IS-9523-2000 (as per latest amendment) use with D.I.Pipes manufactured as per IS:8329/1994 (With external bitumen & zink coating & internal cement mortar lining)					
	Socket & Spigot Type					
8 (a)	80 mmф to 300 mmф	1200.00	106.00	Kg	127200.00	RMC WW SOR No. 1091
8 (b)	350 mmф to 400 mmф and above	1200.00	138.00	Kg	165600.00	RMC WW SOR No. 1092
	Flanged Ended					
8 (c)	80 mmф to 300 mmф	1200.00	109.00	Kg	130800.00	1093
8 (d)	350 mmф to 400 mmф and above	1200.00	145.00	Kg	174000.00	RMC WW SOR No. 1094
	Sluice Valve					
9	Providing and supplying ISI mark Cast Iron Sluice Valve of following class and diameter including all taxes, insurance transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete.PN-1 with Cap Operated (PD type short body)					
	Sizes in mm					
9(a)	150 mm Dia Sluice Valve	2.00	7180.00	No.	14360.00	RMC WW SOR No. 191
9(b)	200 mm Dia Sluice Valve	1.00	12705.00	No.	12705.00	RMC WW SOR No. 192
9(c)	300 mm Dia Sluice Valve	1.00	23390.00	No.	23390.00	RMC WW SOR No. 194
10	Lowering, Laying, Jointing in position following D.I / C.I. Double Flanged Sluice valve including cost of all labour, jointing material, including bolts and giving satisfactory hydraulic testing etc. complete					

	Sizes in mm					
10(a)	150 mm Dia Sluice Valve	2.00	346.50	No.	693.00	RMC WW SOR No. 65
10(b)	200 mm Dia Sluice Valve	1.00	394.10	No.	394.10	RMC WW SOR No. 66
10(c)	300 mm Dia Sluice Valve	1.00	613.20	No.	613.20	RMC WW SOR No. 68
11	Air Valve					
	Providing and supplying C. I. Air valves of approved make & quality of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. (Air Valves double acting (DS2)					
	Sizes in mm					51.6
	150 mm Dia Double Acting Air Valve	1.00	22013.00	No.	22013.00	RMC WW SOR No. 206
12	Lowering, laying and jointing in position Air valves including cost of all labour, jointing material, including nut bolts and giving satisfactory hydraulic testing, etc. complete. (Air valve double ball flanged)					
	Sizes in mm					
	150 mm Dia Double Acting Air Valve	2.00	196.00	No.	392.00	RMC WW SOR No. 77
13	Thrust Block					
13	CC work 1:2:4 using aggregate of size 10-20 mm, centring, curing, finishing etc. complete (without reinforcement)	5.00	4144.00	M 3	20720.00	RMC Bandhkam SOR No. 89

I/We agree to carry out the above said work at <u>(to be quoted online)</u> % Equal / above / below on the tendered rates shown in Schedule.

Signature of Contractor

প্রত্যু কালা প্রত্যুক্ত কালা বিষ্ণান্ত কালা বিষ্ণা

કમિશનર વિભાગ મહાનગરપાલિકા કચેરી રાજકોટ. તા.૧૨૮/૦૪/૨૦૧૮

પરિપત્ર:-

વિષય : રાજકોટ મફાનગરપાલિકાના સેન્ટ્રલ સ્ટોર (એન્જી.) સ્ટોર ખાતેથી ઇસ્યુ કરવામાં આવતા મટીરીયલ્સ તથા પરત જમા થતા મટીરીયલ્સની વર્તમાન પ્રક્રિયામાં સુધારણા બાબત.

રાજકોટ મફાનગરપાલિકાના ત્રણેય ઝોનના તમામ વોર્ડમાં મુખ્યત્વે વોટર વક્સના નવા તથા મેઈન્ટેનન્સના વાર્ષિક ઝોનલ કોન્ટ્રાક્ટરો દ્વારા કરવામાં આવતા કામોમાં, સેન્ટ્રલ સ્ટોર (એન્જી.) દ્વારા દરેક વોર્ડના ડી.ઈ.ઈ.શ્રી તથા મ.ઈ.શ્રી/અ.મ.ઈ.શ્રીની માંગણી અનુસાર રજુ શતા ઇન્ડેન્ટ મુજબ સેન્ટ્રલ સ્ટોર (એન્જી.) દ્વારા વિવિધ મટીરીયલ્સ ઇસ્યુ કરવામાં આવે છે. તેમજ તમામ વોર્ડમાં રીપેરીંગ દરમ્યાન નોન યુઝ નીકળેલ મટીરીયલ્સ સેન્ટ્રલ સ્ટોર (એન્જી.) તથા વર્કશોપ, સ્ટેશનરી જેવા અન્ય તમામ સ્ટોર ખાતે પરત જમા કરાવવામાં આવે છે.

સદરફુ વર્તમાન પ્રકિયામાં સત્વરે નીચેની વિગતે આવશ્યક અમલીકરણ કરવાનું રફેશે.

- (૧) વીર્ડના ડી.ઈ.ઈ.શ્રી તથા મ.ઈ.શ્રી/અ.મ.ઈ.શ્રી દ્વારા જે તે કામના એસ્ટીમેટની મંજુરી મળ્યેથી સેન્ટ્રલ સ્ટોર (એન્જી.) માં ઇન્ડેન્ટ રજુ કરવાનું રહેશે. (ધણા ખરા કિસ્સામાં વર્ક ઓર્ડર ઇસ્યુ કર્યા બાદ ઇન્ડેન્ટ જમા કરાવવામાં આવે છે. જેમાં સમયનો વ્યય થાય છે)
- (ર) વોર્ડના ડી.ઈ.ઈ.શ્રી તથા મ.ઈ.શ્રી/અ.મ.ઈ.શ્રી દ્વારા જે તે કામના એસ્ટીમેટ મંજુરી માટે રજુ થતી તમામ પ્રકરસ કાઈલોમાં, કામના લોકેશન દર્શાવતો સ્પષ્ટ સ્કેચ ફરજીયાત જોડવાનો રફેશે. આ બાબતની અમલવારી સક્ષમ સ્તરેથી તથા સમકક્ષ એન્જીનીયરશ્રી અથવા ડી.ઈ.ઈ.શ્રી દ્વારા મંજુર થતી તમામ કાઈલોમા કરવાનો રફેશે.
- (3) સેન્ટ્રલ સ્ટોર (એન્જી.) દ્વારા તમામ પ્રકારના વાલ્વ ખરીદીના સમયે, સપ્લાયર દ્વારા રજુ થતા દરેક ટેસ્ટ સર્ટીફીકેટની ખરાઈ પત્ર દ્વારા તે વાલ્વની મેન્યુફેક્યરીંગ કંપનીમાં કરજીયાત કરવાની રફેશે.
- (૪) મેન્ટ્રલ સ્ટોર (એન્જી.) ખાતેથી તમામ પ્રકારના વાલ્વ સ્વીકારતી વખતે. જે તે વોર્ડના મ.ઈ.શ્રી/ અ.મ.ઈ.શ્રી/વર્ક આસી.શ્રી દ્વારા દરેક વાલ્વ ઉપર દર્શાવેલ બોડી સીરીયલ નંબર જાતે યકાસી ગેટપાસમાં દર્શાવેલ બોડી સીરીયલ નંબર સાથે જાતે યકાસી મેળવેલ છે. તેવી ફરજીયાત નોંધ ગેંટપાસમાં કર્યા બાદ જ મટીરીયલ્સ ઇસ્યુ કરવાનું રહેશે. કોઇપણ સંજોગોમાં કોન્ટ્રાક્ટરશ્રીને મટીરીયલ્સ ઇસ્યુ કરવાનું રહેશે નહિ. એટલે કે સેન્ટ્રલ સ્ટોર (એન્જી.) ખાતેથી મટીરીયલ્સ ઇન્ડેન્ટ રજુ કરનાર ડી.ઈ.ઈ.શ્રી/મ.ઈ.શ્રી/અ.મ.ઈ.શ્રી/ વર્ક આસી.શ્રીની ફાજરીમાં બોડી સીરીયલ નંબર યકાસી સ્વીકારનાર ડી.ઈ.ઈ.શ્રી/મ.ઈ.શ્રી/અ.મ.ઈ.શ્રી/વર્ક આસી.શ્રી એ જાતે યકાસેલ છે તથા બરાબર છે તેવી નોંધ સાથે સફી સિક્કા ગેટપાસમાં કર્યા બાદ જ મટીરીયલ્સ સંબંધિત કોન્ટ્રાક્ટશ્રીને ઇસ્યુ કરવાનું રહેશે.
- (૫) સેન્ટ્રલ સ્ટોર (એન્જી.) દ્વારા ઇસ્યુ થયેલ મટીરીયલ્સ, જે તે વોર્ડમાં રીપેરીંગ વાળા સ્થળે વપરાશ કરતી વખતે.
 - રીપેરીંગ વાળા સ્થળનો જૂની પરિસ્થિતિ દર્શાવતો ફોટોગ્રાફ્સ.
 - નવી આઈટમ નાખ્યા બાદની પરિસ્થિતિ દર્શાવતો ફોટોગ્રાફ્સ
 - સ્પષ્ટ લોકેશન દર્શાવતો ફોટોગ્રાફ્સ.
 - સ્પષ્ટ બોડીનંબર દર્શાવતો કોટોગાક્સ

ઉપર મુજબના ૪ ફોટોગ્રાફ્સ, સ્પષ્ટ વિગત દર્શાવતા A4 Size ના Page ઉપર ૪ ફોટોગ્રાફ્સ એકી સાથે એક નકલમાં જુનો વાલ્વ કે જુનું તમામ મટીરીયલ્સ જમા કરાવતી વખતે રજુ કરવાનાં રહેશે તથા ઉપર મુજબના ૪ કોટોગ્રાફ્સ, સ્પષ્ટ વિગત સાથે બીજી નકલ કરજીયાતપણે એસ્ટીમેટ મંજુરી વાળી ફાઈલમાં જાળવવાની રહેશે તથા જુના નીકળેલ રીપેરીંગવાળા કે નોન યઝ વાલ્વ તથા તમામ નીકળેલ

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મટીરીયલ્સ કરજીયાતપણે સેન્દ્રલ સ્ટીર (એન્જી.) ખાતે જમા કરાવવાનું રફેશે તથા તેની જમા પાવતી મેળવી ખર્ચ મંજુરીવાળી કાઇલે કાયમી જાળવવાની રહેશે.

- (5) ક્રમ ન.(પ)માં ઉપર દર્શાવેલ વિગતે દરેક ફાઈલના પેમેન્ટ માટે રજુ થતા કિસ્સામાં,
 - સમકક્ષ અધિકારીશ્રી
 - ઓડીટ તથા એકાઉન્ટ શાખા દ્વારા કાઈલ ઉપર જુનો માલ સામાન જમા કરાવ્યાની પાવતી તથા નવા માલસામાન સામે જુનો માલસામાન શું શું જમા કરાવેલ છે? તેની ચકાસણી કર્યા બાદ જ પેમેન્ટ કરવાનું રહેશે.
- (૭) તમામ વોર્ડના ડી.ઈ.ઈ.શ્રી દ્વારા તથા મ.ઈ.શ્રી/અ.મ.ઈ.શ્રી દ્વારા સને ૨૦૧૦-૧૧ થી સને ૨૦૧૭-૧૮ સુધી વપરાશ કરેલ તથા પૂર્ણ થઈ ગયેલ તમામ ઇન્ડેન્ટ બૂક દિવસ-૨૦(વીસ)માં કરજીયાતપણે સેન્દ્રલ સ્ટોર (એન્જી.) ખાતે જમા કરવાની રફશે. તેમજ વર્તમાન ઇન્ડેન્ટ બુકમાં ક્યાં થી ક્યાં સુધી ઇન્ડેન્ટ વપરાશ થયેલ છે તથા કેટલા ઇન્ડેન્ટ બાકી છે તેની વિગત દિવસ-૧૦(દસ)માં સેન્દ્રલ સ્ટોર (એન્જી.) ખાતે જમા કરવાની રફશે.
- (૮) તમામ વોર્ડ વાઈઝ ઇન્ડેન્ટ રજીસ્ટર ડી.ઈ.ઈ.શ્રી/મ.ઈ./અ.મ.ઈશ્રીની સફીથી કરજીયાતપણે નિભાવવાનું રફેશે. આ ઉપરાંત સાઈટ પરનું વોર્ડ વાઈઝ મટીરીયલ રજીસ્ટર કોન્ટ્રાક્ટરશ્રી/ફીટરશ્રી/વર્ક આસી.શ્રી/અ.મ.ઈ.શ્રીની સફીથી કરજીયાતપણે નિભાવવાનું રફેશે. અને બીલ સમયે સક્ષમ અધિકારીશ્રી પાસે કરજીયાતપણે રજુ કરવાનું રફેશે.
- (૯) તમામ ટેન્ડર કામોમાં કે જેમાં વાલ્વના સ્પેસીફીકેશન આપવામાં આવેલ હોય છે પરંતુ વાલ્વની બ્રાન્ડ અલગ-અલગ આપવામાં આવેલ હોય છે. તે માટે સાઈટ પર જે બ્રાન્ડનો વાલ્વનો ઉપયોગ કરવામાં આવેલ હોય તો તેના પેમેન્ટ માટે સેન્દ્રલ સ્ટોર (એન્જી.) માં જે તે લાગુ વર્ષના જે તે બ્રાન્ડ માટે જે રેઈટ મંજુર થયેલ હોય તે પ્રમાણે પેમેન્ટ કરવાનું રહેશે.
- (૧૦) એક વોર્ડમાં ઇસ્યુ કરવામાં આવેલ મટીરીયલ કોઇપણ સંજોગોમાં બીજા વોર્ડમાં ઉપયોગ કરી શકાશે નહીં. જો ઇસ્યુ કરાચેલ મટીરીયલની જરૂરીયાત ન ફોય તો તેવું મટીરીયલ ઇસ્યુ કરનાર વિભાગ ખાતે પરત જમા કરાવવાનું રહેશે.
- (૧૧) મફાનગરપાલિકાના આંઇ.ટી. વિભાગ અને સ્માર્ટ સીટી(SPV) દ્વારા ભવિષ્યમાં રાજકોટ મફાનગરપાલિકા કસ્તકના તમામ સ્ટોરમાં સીસીટીવી કેમેરા અગૃતાના ધોરણે લગાવવાના રફેશે.

ઉપરોક્ત તમામ બાબતોનો સંલંગ્ન તમામ અધિકારીશ્રીઓ/કર્મચારીશ્રીઓએ યુસ્તંપણે તાત્કાલિક અસરથી અમલવારી કરવાની રફેશે.

કમિશનર રાજકોટ મહાનગરપાલિકા

નકલ રવાના (અમલવારી અર્થે):-

- શાખાધિકારીશ્રીઓ(તાંત્રિક)-તમામ
- નાયબ કાર્યપાલક ઇજનેરશ્રીઓ(તમામ)

નકલ રવાના (જાણ તથા અમલવારી અર્થે):-

- ચીફ ઓડીટરશ્રી
- યીફ એકાઉન્ટન્ટશ્રી

नहस रवाना (अस अर्थे):-

- નાયબ કમિશનરશ્રીઓ(તમામ)

R.M.C./C./ 832

કમિશ્નર વિભાગ, રાજકોટ મહાનગર સેવાસદન તા. 90/5) ન્ટર્શ ડ

હુકમ :-

વિષય:- ઈ-ટેન્ડર / ઓપન ટેન્ડર પધ્ધતિથી મંગાવવામાં આવતી તમામ પ્રકારની ઓફરો સાથે બિનઅધિકૃત રજુ થતાં ડોક્યુમેન્ટસ સામે કડક કાર્યવાહી હાથ ધરવા બાબત. સંદર્ભ :- આ અગાઉનાં પ્રદીપત્ર નં. આર.એમ.સી./સી./હરેલ. તા.૨૨/૧૨/૨૦૧૨.

રાજકોટ મહાનગર સેવાસદનના ત્રણ ઝોનનાં તમામ વોર્ડમાં શહેરનાં વિકાસ તથા જાળવણી માટે વિવિધ કામગીરી કરાવવા ઈ–ટેન્ડર / ઓપન ટેન્ડર પધ્ધતિથી અલગ અલગ એજન્સીઓ પાસેથી સ્પર્ધાત્મક ધોરણે અખબારી પ્રસિધ્ધિથી ભાવો ટુંબીડ સીસ્ટમ (૧) ટેકનીકલ બીડ (૨) પ્રાઈઝ બીડ થી મંગાવવામાં આવે છે.

સંદર્ભના પ્રસિધ્ધ કરેલ પરીપત્ર મુજબ તમામ ઈ—ટેન્ડર / ઓપન ટેન્ડરથી મંગાવવામાં આવતાં ભાવો સાથે ભાવ ભરનાર એજન્સીઓ / બીડરો દ્વારા ટેન્ડર બીડ માટે રજુ કરવાનાં થતાં તમામ ડોક્યુમેન્ટ્સ ફરજીયાતપણે 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 કોઈપજ્ઞ એક ડોક્યુમેન્ટસ ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ રજૂ 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 કરજીયાતપણે કરવાનું રહેશે.

જે ટેન્ડર ખરી નકલ કે સેલ્ક 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 કિસ્સાઓમાં સંબંધીત ખરી નકલમાં રજુ થયેલ તમામ ડોક્યુમેન્ટસની મુળ (ઓરીજીનલ)નકલ મંગાવી તેની ખરી નકલની ચકાસણી કરજીયાતપણે સંબંધીત ડી.ઈ.ઈ.શ્રી તથા મ.ઈ.શ્રી / અ.મ.ઈ.શ્રીએ કરવાની રહેશે. જે મુળ નકલ સાથે વેરીફાય કર્યાની સહી ફરજીયાતપણે દરેક ખરી નકલમાં સંબંધીત ડી.ઈ.ઈ.શી / મ.ઈ.શી / અ.મ.ઈ.શીએ કરવાની રહેશે. તે પહેલાં તે ટેન્ડરની પ્રાઈઝ બીડ ઓપન કરી શકાશે નહી. જેમાં કરજચૂક થયેથી સંબંધીત જવાબદાર ડી.ઈ.ઈ.શી / મ.ઈ.શી / અ.મ.ઈ.શી ની સામે કડક ખાતાકીય પગલાં લેવાની કરજ પડશે.
- (૩) ક્રમ નં.(૧) તથા (૨) મુજબની ચકાસલી કરવા છતાં જે કિસ્સામાં ટેકનીકલ બીડ ઓપન કરતાં બીડર દ્વારા કોઈપલ પ્રકારનાં ક્રોડ ડોક્યુમેન્ટસ રજુ કરી કામ મેળવવા માટે પ્રયાસ કર્યાનું સાબિત થશે, તેવા કિસ્સામાં બીડર / એજન્સીને બ્લેકલીસ્ટ કરી, આવા બીડર સામે ફરજીયાતપણે ફોજદારી કાર્યવાહી સંબંધીત શાખાના વડા તથા વીજીલન્સ અધિકારીથ્રી (પ્રોટેકશન) દ્વારા જોઈન્ટલી દિન–૭ માં કરવા આદેશ કરવામાં આવે છે. જેની લેખિતમાં

જાણ તાત્કાલીક અને કરવાની રહેશે. જેમાં ચૂક થયેથી સંબંધીત તમામ અધિકારીશ્રી / કર્મચારીશ્રી સામે કડક પગલાં લેવા કરજ પડશે.

(૪) સંદર્ભનો પરીપત્ર તથા આ હુકમ તમામ પ્રકારનાં ટેકનીકલ કામના દરેક ટેન્ડર પ્રસિધ્ધ કરતી વખતે ટેન્ડરનો હિસ્સો ગથી ટેન્ડરના ભાગ તરીકે પ્રસિધ્ધ કરવાનું ફરજીયાત રહેશે, તથા બીડર દ્વારા ટેન્ડરમા પ્રસિધ્ધ થતાં સંદર્ભનાં પરીપત્ર તથા આ હુકમનાં દરેક પાને સહી સિક્કા સાથે ભરેલ ટેન્ડરની ટેકનીકલ બીડ ફરજીયાત રજુ કરવાની રહેશે.

ઉપરોક્ત હુકમનો તાત્કાલીક અસરથી યુસ્તપશે અમલ કરવા આદેશ કરવામાં આવે છે.

કમિશ્નીર . રાજકોટ મહાનગર સેવાસદન

નકલ રવાના (જાણ અર્થે):-નાયબ કમિશ્નરશ્રીઓ (તમામ)

નકલ જાણ તથા અમલવારી અર્થે:-(૧) સહાયક કમિશ્નરશ્રીઓ (તમામ) (૨) શાખાયિકારીશીઓ (તમામ) આર.એમ.સી./સી. હર 🗸

રાજકોટ મહાનગરપાલિકા કમિશનર વિભાગ તા.સ્ટે/૧૨/૧૦૧૨

પરિપત્ર:-

ઇ-ટેન્કર પદ્ધતિ / ઓપન ટેન્કર 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 ટેન્કર 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 યુસ્તપણે પાલન કરાવવાનું રહેશે. આમ ન થયેથી પુરતી ચકાસણીને અભાવે જો કોઇ એજન્સીને ખોટા કે અધુરા આધારો સાથે કામ આપવાની ક્ષતિજનક બાબત જાણમાં આવ્યે તે ટેન્કર ડોક્યુમેન્ટ્સની ચકાસણી કરનાર કર્મચારીશ્રીઓ તેમજ શાખાધિકારીશ્રીની જવાબદારી નક્કી કરવામાં આવશે, જેની સર્વે શાખાધિકારીશ્રીઓએ નોંધ લેવી.

ઉપરોક્ત બાબતનો અમલ તાત્કાલિક અસરથી કરવો.

રાજકોટ મહાનગરપાલિકા

નકલ રવાના :- (જાણ અર્થે)

- નાયબ કમિશનરશ્રીઓ (તમામ)

નકલ જાણ તથા અમલવારી અર્થે :-

- સહ્યયક કમિશનરશ્રીઓ (તમામ)
- શાખાધિકારીશ્રીઓ (તમામ)

શેજદારી <u>કાર્યરીની અમિનીયમ ૧૯૭૩ (૧૯૭૪ના નેર) ની</u> કલમ ૧૪૪ અન્વયે શહેલ ફૂકમ

કમાં ક એસ.બી/મજુર/જાહેરનામુ/વે ડેઝિંગ્રેજન્ડ. પોલીસ કમિસરશીનો કચેરી, રાજકોટ શહેર,રાજકોટ. તા.-૨૪૦૪/૨૦૧૪

તાજનારમાં રાજકીટ શહેરમાં ઘરકોડ ચોરીના બનાવો વાતા પાયેલ છે ભૂતકાળના રાજકોટ શહેરમાં બનેલ ઘરકોડ ચોરીના બનાવોની તપાસ કરતા તપાસમાં આવા ગુન્હે કરનાર (ઘરકોડીચા) પકડાયેલ છે. ત્યારે તપાસમાં આવા ગુન્હ વાળા આરોપીઓ ગુન્હાના બનાવના દિવસો અગાઉ રાજકોટ શકેરમાં નવા બંધાતા મકાનોમાં જુદી જુદે. ઔધોગીક કપાનીઓમાં, કોપેરિશનમાં મજુરી કામ અને ટેલીફોન કંપનીઓ આરા તથા ગેસ પાઇપ લાઇન માટે ખેદાતા ખાડાઓની પ્રજુરી કામ મિલવી અથવા તેના બહાના કેઠળ આવી રોકાલ કરી આપુલાજની સ્થાનિક પરીસ્થિતીનુ સર્વે કરી માકીતલાર શઇ મિલ્કત વિરૂધ્ધના ગુન્ફાઓ આચરતા કેચ છે. મજુરી કામના બહાના ફેઠળ આતંકવાદીઓ પણ આશરો મેળવી લેતા ત્યાર છે જેશી જાફેર જનતાની જાન-માલ (મિલ્કતોની સલામની તથા સરકા શકાદી નિયંત્રણો મુકલ જરૂરી જયાર છે.

જેશી કું મોઠળ ઝા (I.P.S.), પોલીસ કમિલર, રાજકોઠ શહેર કોજદારી કાર્યરીની અધિનીયમ (સી.આર.પી.સી.) ૧૯૭૬ (૧૯૭૪ ના ને.૨) ની કલમ ૧૪૪ મન્વયે અમેને મળેલ સતાનો અમે આશી કું ફુલમ કરૂ છુ કે, રાજકોટ શકેરના પોલીસ કમિલ્નર વિસ્તારમાં લેબર કોન્ટ્રાક્ટર/મુકાદમનાઓએ પોતાની પાતે જે મજુર કામે સખેલ હોય અને મજુરો લમકાજ માટે સપતાય કરતા હોય તેઓએ નીચે જણાવેલ કોમ મુજબ દરેક ૧૪૧મ અલગ અલગ ફોર્મ લરી દરજીશત પાટે સ્થાનીક પોલીસ સ્ટેશનને જાળ કરવાની રહેશે તથા મજુરો જયારે મજુરી લામ તથા રાજકોઢ શકેર છોડી જતા રહે ત્યારે લેબર કોન્ડ્રાક્ટર/મુકાદયે તે એમેની જાણ નામ/સરનામાં સફિતની લિગન સાથે સ્થાનીક પી.સ્ટે.માં કરવાની રહેશે

9.	लेकर क्रेन्सक्टर / मुझहम (सप्लाबर) जु पुरु नाम सरनाम्	*
	મો.ન., નેબર સહિત	
?	भष्ट्रहरू नाम तथः ६.व.	
2	મજુરનું ઢાલનુ સરનામુ દેલીફોન નંબર	
8	મજુરનુ મૂળ વતનનું સરનામું ગામ, તાલુકો, જીલ્લો	
4	રાલબી મશ્રદીવે ક્થાપ \ રૂતબીવે ગામ	1.
9	મજુરનું વતનનું સ્થાનીક પો.સ્ટે.નું નામ તથા દેલીકોન નંબર	1-
٥	अञ्चरना चत्रना आंभेदाननु नाम, सरनामु, हेलीक्रिन लंधर	1.17
C	મજુર અગાઉ કોઇ પોલીસ ગુન્ફામાં પકડાયેલ રીચ તો તેની	1.5
	વિગત	
0	हिमारकी गुडाहते / किन्सकर में मुद्दी कम मार्ड वालेल छे	
10	વિજલનું ઓળાપ ગારેનું આઇડી પુરૂ (ફોટા સાથે નું)	
19	રાજ્કોઢ સહેરમાં કાઇ તારીખથી મજૂરી છામ કરે છે ? અને ૩૦	11 15 15 15 15 15 15 15 15 15 15 15 15 1
	તારીયે જવાનો છે ?	
12	રાજકોટ શહેરમાં નજીકના સંબંધી શ્રેષ્ઠ ફોયતો તેનું નામ,	1:-1
1	सरवाम	

Por Mc Ale

મુજુરના અંગલનું નિયાન મુકાદમ/સપ્લાચર/એન્ટાક્ટરની સ**િ** નામ

આ કુંકમ ના ભાગભાગરભાષ થી ના ૩૦/૦૬/૨૦૧૪ સુધી અમલમાં રહેશે.

આ કુઠમની લેંગ કરનાર વ્યક્તિ ભારતીય દંડ સહિતાની કલમ ૧૮૮ મુજબ **શિદાને પાત્ર શકે.** વારતા

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તમામને વ્યક્તિગત રીતે મોટીસની બજવાળી કરવી શકલ ન હોય આદી એકતરફો રૂકમ કર્યું. જાહેર જનવાની જાણ સારૂ સ્થાનીક વર્તમાન પત્ર આકાશવાણું અને ફરદર્શન કે હ પારકૃતે પ્રસિધ્ધી ધ્યારા તાથ મોલીસ સ્ટેશનના પોલીસ કન્યોક્ટર, મદદનીશ પોલીસ કમિશ્રર, નાવળ પોલીસ કમિશ્રર તથા પોલીસ કમિશ્રર કચેરીના નોટીશ એક ઉપર ફૂકમની નક્ત પોલીસ પ્રસિધ્ધી કરવામાં આવશે તેમજ સફેલાઇથી જોઇ શકાય તેવી જાફેર જગ્યાઓ ઉપર ફૂકમની નક્ત ચીંગડી પશ્ચિધી કરવામાં આવશે ગુજરાત મોલીસ અંગર કલાય ૧૯૩ મુજબ પોલીસ અધિકારીઓ પણ આ ફુકમની જાઢેશત કરાય અધિકૃત ગણાશે.

આજ તારે\$માટે ચેપીલ-૧૦૧૪ ન રોજ માટી લકી અને સિક્કી કરી આપેલ છે.



િમીકન આ પોલીસ કમિલર રાજકોટ શહેર, રાજકોટ

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- (૧) અંગ્ર સચિવગ્રી, ગૃફ વિભાગ, ગાંધીખગર.
- પોલીસ મફાનિટેલક અને મુખ્ય પોલીસ અધિકારીલી, ગુ. શ. ગાંધીનગર
- (૩) અધિક વીલીસ મુકા નિર્દેશકથી (ઈન્ટે.) ગુ.રા.ગાંધીનગર.
- (૪) પાલીસ કમિત્રકર્મા, અમદાવાદ ત્રારુક, વડીકરા વાકેર, સુરત શકેર.
- (૫) ખાસ મુખ્ય પોલીસ અધિકારીથી, રાજકોટ રેન્જ, રાજકોટ.
- (ક) જીલ્લા પોલીસ અધિસક્ષ્મી, રાજકોડ ૩૦૦, ૧૯૬કોટ.
- (७) असेक्टरबी , राषकीत (७)
- (૮) મ્યુનિશિયલ કમિલ્ટલી, સંજકોટ લાઇર.
- (e) વિદ્યામકર્શ, માકીનો ખાતું ડો.જીવરાષ્ટ્ર પહેડા ભવન પુન્ય સવિવાલય બ્લીક નંતા, બીજા માળે,ગુ.સ.. બીપીનગર.
- (૧૦) જીલ્લા સરકારી વકિલકી, સેસન્સ કોર્ટ, કાજરોડ.
- (૧૧) પૈનેજલ્લી, ભવેમેન્ટ પૈસ, રાજકોડ (લેલેટ ભાગ-૧ માં પશ્ચિષ્ધ કરવા માટ).
- (૧૩) ૧૯૯નીશ પોલીસ કમિલ્નસ્ત્રી, વૃદ્ધ/ પહેરત (દેશાળ, સપકોટ શહેર,
- (૧૩) આશ્રી-ક્રમિસરસી (ઈક્ટે.), પ્રજ્યોલ નેલ્ડ્રાંગના સંજકોત.
- (૧૪) નાચલ પોલીસ એપિશકમી / પે. ડેન્સ એ. રાજદોટ રેલ્વે જંદરાન પી.સ્ટે.
- (૧૫) નામાન મો.સ્ટે.ઈન્સાર્જમીઓ,રાજકોડ તકેટ(નકલી લીટાડી લાઉક સ્પીકર વાકળ દવારાં જાઠેરાત કરાવવા શક્)
- (૧૭) તમામ જ્લાર તથા શાખાં ઈન્વાજર્મીઓ, રજકોટ લફેર.
- (૧૭) કન્દ્રોલ ઈન્લાજુંથી, રાજકોટ શફેર (૧૦ નકલ) વર્તમાનયગોને આપલી.
- (૧૮) લેબર કમિલરમી, ... તમામ ખાનગી સસ્યાઓને અવગત કરવવા સાક

महास अविनास श्वाना-

- (૧) ૧૧૭૦લુકારથી, કાઈકોર્ટ, ગુ.રા.સીલારોડ ગગરાગાડા
- (૨) ૧૧૦સ્ટ્રાનથી, ડીસ્ટ્રીક્ટ એન્ક સેશન્સ કોર્ટ, રાજકોડ,
- (૩) રજીસ્ટારથી, ચીક જ્યુડીકરલ મેજીલી કોર્ક, ગમકીર.
- (४) क्युक्ट्रास्त्री, मेडीबाद सेशक्त ४५ डोई अपडीत.
- (પ) એકઝીકયુરીય મેજી.સી, રાજકોટ સહેર
- (૬) એક્ઝીક્યુરીલ મેજી.સી, રાજકોટ ત લુકા
- (૭) સર્વુકત માઠીની સિયામકર્તી, રાજકોડ.

(સ્થાનીક વર્તમાનુપત્રો, અકાશવાળી તથા કરશરીન કેન્દ્રમાં પ્રસિધ્ધ કરવા અને વર્તમાનપત્રોની કાપલીએ મોઠલવા સારૂ

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રાજકોટ મહાનગરપાલિકા

હિસાબી શાખા

ડૉ.આંબેડકર ભવન, ઢેબરભાઇ રોડ, રાજકોટ – ૩૬૦ ૦૦૧.

રા.મ.ન.પા./ફિસાબીજા.નં. ૪-29

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नोंध -

વિષય - Vendor Regi. માં GST No. Update કરવા બાબત

ઉપરોક્ત વિષયે જ્યાવવાનું કે રાજકોટ મહાનગરપાલીકા નાં તમામ વેન્ઠર / કોન્ટ્રાક્ટરો ના 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 સીક્કા સાથે નીચે મુજબ વિગત નું પત્રક બનાવી દિવસ – ૭ માં હિસાબી શાખામાં માહિતી મોકલાવી આપવા વિનંતી.

Vendor Name	Exiting Vendor Regi. No.	PAN .	GST NO.

Set of Constant

િષ્ટર્ન ચીફ એકાઉન્ટન્ટ રાજકોટ મહાનગરપાલીકા

નોંધ - તમામ વિગતો ચકાસીને અપડેટ કરવી / ચકાસીને મોકલવી અન્યથા સપ્લાયર્સ ને TDS ની

ક્રેડીટ મળશે નહી જેની નોંધ લેવા વિનંતી.

રાજકોટ મહાનગર પાલિકા સે. ઝોન લાંલકામ શાખા ઇન્લર્ક નંલર ____________

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નકલ અમુલવારી અર્થે

🗸 🖁 1. તમામ શાખા અધિકારીશ્રી ઓ

नडल सविनय श्राप् अर्थे

- 1. માન. કમિશ્નર સાફેબશ્રી
- 2. માન. નાયબ કમિશ્નર સાફેબશ્રી

જાફેરનામું

આથી કું બંછાનિધિ પાની (IAS), મ્યુનિસિપલ કમિશનર, રાજકોટ મહાનગરપાલિકા, રાજકોટ ગુજરાત પ્રોવીન્સીયલ મ્યુનિસિપલ કોર્પોરેશન એકટ-૧૯૪૯ ની જોગવાઇ અનુસંધાને મળેલ સતા મુજબ, જાઢેર ઢિતને ધ્યાને લઇ રાજકોટ મહાનગરપાલિકા વિસ્તારમાં ઇમારત તોડવા, સમારકામ અથવા તો નવા બાંધકામ દરમ્યાન ઉપસ્થિત થતા બાંધકામને લગત કચરા (Construction and Demolition Waste) નો રાજકોટ મહાનગરપાલિકા દ્વારા નિયત કરાયેલ જગ્યા સિવાય નિકાલ કરવા પ્રતિબંધ ફરમાવું છું.

એવું ધ્યાનમાં આવેલ છે કે રાજકોટ મફાનગરપાલિકા વિસ્તારમાં ઇમારત/ઇમારતોના બાંધકામ દરમ્યાન નળીયા, પથરા, ઇંટો, સાંકઠીયો, ઇમારત બાંધવાના માલસામાન, અને એવા માલસામાનનો 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 સદરફું જગ્યાનો ભોગવટો કરનારાઓને અથવા પડોશમાં રફેતી વ્યક્તિઓના ભય અને ઉપદ્રવનું કારણ બને છે. તેના કારણે રોગયાળો ફેલાવવાનો ભય અને લોકોના આરોગ્ય તથા જાનમાલને નુકશાન થાય તેવી સ્થિતિ ઉત્પન્ન થાય છે. તેમજ તે કચરો (Construction and Demolition Waste) દુર કરવા રાજકોટ મફાનગરપાલિકાને ખુબજ મોટો ખર્ચ થાય છે, તેમજ માનવ સમય બગડે છે. આમ, લોકોના જાનમાલના અને આરોગ્યના નુકસાનના ભોગે આવી ગેરકાયદેસર પ્રવૃતિ ચાલી રફેલ છે, આવી કોઇપણ પ્રવૃતિ જન આરોગ્ય માટે બીન સલામતી નોતરે તેમ ફોય ગુજરાત પ્રોવીન્સીયલ મ્યુનિસિપલ કોર્પોરેશન એક્ટ અનુસ્યી-ક ના પ્રકરણ-૧૪ ની જોગવાઇઓ અનુસંધાને આવી તમામ પ્રવૃતિ કરવાનો આ જાફેરનામાથી જાફેરફીતમાં પ્રતિષેધ ફરમાવું છું. આવા કચરા (Construction and Demolition Waste) ના નિકાલ માટે રાજકોટ મફાનગરપાલિકાએ નીચે દર્શાવેલ સ્થળો નિયત કરેલ છે.

- (૧) કોઠારીયા પોલીસ ચોકીની બાજુમાં, પથ્થરની ખાણ પાસે.
- (૨) રૈયા સ્માર્ટ સીટીના તમામ ખાણ વિસ્તાર.

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 પૂથમ વખત છકડો/ટ્રેક્ટર દિઠ રૂા.૭,૫૦૦/- તથા ડમ્પર દિઠ રૂા.૧૫,૦૦૦/- તથા બીજી વખતે છકડો/ટ્રેક્ટર દિઠ રૂા.૧૫,૦૦૦/- તથા ડમ્પર દિઠ રૂા.૧૫,૦૦૦/- તથા બીજી વખતે છકડો/ટ્રેક્ટર દિઠ રૂા.૫૦,૦૦૦/- તથા ડમ્પર દિઠ રૂા.૧૫,૦૦૦/- તથા ત્રીજી વખતે છકડો/ટ્રેક્ટર દિઠ રૂા.૫૦,૦૦૦/- તથા ડમ્પર દિઠ રૂા.૧૦,૦૦૦/- તથા ત્રીજી વખતે છકડો/ટ્રેક્ટર દિઠ રૂા.૫૦,૦૦૦/- તથા ડમ્પર દિઠ રૂા.૧,૦૦,૦૦૦/- લેખે વફીવટી ચાર્જ વસુલ કરવામાં આવશે. તેમજ વાફન જપ્ત કરવા સુધીની કાર્યવાફી કરવામાં આવશે.

રાજકોટ.

dl.

બંછાનિધિ પાની (IAS) કમિશનર રાજકોટ મહાનગરપાલિકા

જ્રમ્ય અને નીધ**લા** ભવન

िराद्य के उन्तर्वामा अवसी, વાયત નાર્ગ અને મકાન વિભાગ

> विषय: असरेपन पर स्टेम्। उ**युटी वसुदान वापत**ः सहर्यः - आपना अवदीनां ता, उठ/क्रिक्करमां पत्र

उपराक्त विश्वय अने संदर्भ पत्र व्यारा आपनी क्वेरी व्यारा "क्रार अत" पर ું વર્તી સ્ટમ્પ ક્યુટીના માર્ગદર્શન બાબતે જણાવવાનું કે, અંગેની કચેરીના પરિષય ને સ્ટમ્પ --- १७ २०००/६७८ ता. पाद २००७ ना परिषत्र भी सड़ब भोड़बदाया आहे हैं . श्रेना पेस प અને (જ)માં જામાવલ સ્ટેમ્ય ડયુટી વાપરવાની થાય છે.

વિશેષમાં જસાવવાનું કે, આપના ધ્વારા અત્રે રજૂ થયેલ વિગત માન્યમેં અર્જ્યના તા. ાં માટેપત્ર ના મુદ્દા નં.ર મુજબ એગીમેન્ટ માટે રા, ૧૦૦/– તથા કિપોર્સીટ તરીકે લેવામાં ાર મનક વિલ્લે કેમને કેમને કાર્યાં ગામ ભાગી વધત પત્રોની રામ જ લિલી રહ્યો રકમ દ્ : .: ४०० - उपर आधीरत -35 (s) साथे आधीरत - २०(s)मां प्रकाशिक हर तथा --- । ५७० सरकार्यक्रकित १८०० में ४.८% भुष्य क्षेत्रम् वसूरी कारणाई क्यापूर्व क्षेत्रम् क्षेत्रानी

Office the E. E. P. R& 8 Dr. 7, Lugara - ઃ પત્રની નકલ PART AND THE PART **为此种种种,对第一**分。

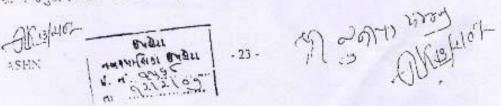
સુપ્રિ.ઓફ સ્ટેમ્પસની કચેરી, સ્ટેમ્પ અને નોધણી ભવન, સેકટર-૧૩–સી, ખ રોડ, ગાંધીનગર.

いたいろい-

અત્રેની કચેરીનાં ધ્યાન ઉપર આવેલ વિગત મુજબ ગુજરાત રાજયમાં આવેલ જીલ્લા પંચાયત, નગર પાલિકાઓ તરફથી કરવાના થતા બાંધકામ તથા અન્ય કામો માટે ટેન્ડર બહાર પાડી. કોન્ટ્રાકટરો પાસે કામગીરી કરાવવામાં આવે છે. આવી કામગીરી માટે જે કોન્ટ્રાકટરનું ટેન્ડર મંજુર કરવામાં આવે છે. તે ટેન્ડરની અંદાજીત રકમ પૈકી નિયમોનુસાર અનામતનો (સાકપુરીટો – ડીપોઝીટની) રકમ લેવામાં આવે છે. તે અંગે જીલ્લા પંચામત / નગરપાલિકા / મહાનગરપાલિકા અને કોન્ટ્રાકટર વચ્ચે કરાર કરવામાં આવે છે. આવા કરારો સ્ટેમ્પ ડ્યુટીના અભિપ્રાય માટે અત્રે રજુ કરવામાં આવે છે. તેમાં જે ડિપોઝીટની રકમ અનાયન મુકવાની થાય છે. તે રોકડ, ચેક, ડીમાન્ડ ડ્રાકટ ગેંક ગેરંટી ફિક્સ ડીપોઝીટ રીસીપ્ટ એન.એસ.સી. બચતપત્ર વિગેરે પૈકીના એક યા વધુ માધ્યમથી આપવામાં આવે છે. તેમાં ટેન્ડર ગન્વયે કેટલી ૨કમ સીકપુરીટી ડીપોઝીટ મેટે મુકવાની છે અને કયા માઘ્યમથી મુકવામાં આવે છે. તેની પુરંપુરી વિગત રજુ કરેલ ન હોય તો આવા કેસોમાં પુરેપુરી વિગત રજુ કરવામાં ન આવે ત્યાં સુધી અભિપ્રાય આપી શકાતો નથી અથવા વિલંબ થાય છે. આવી પરિસ્થિતિ નિવારવા અને ટેન્ડરની રકમ અન્યયે જે કરાર કરવામાં આવે છે. તેમાં નીચેની વિગતે સ્ટેમ્પ ડયુટી લેવાની થાય છે.

- (૧) અનામતની જે ૨કમ રોકડ, ચેક યા ડ્રાક્ટથી લેવામાં આવે અથવા તો બેંક ગેરંટીથી આપવામાં આવે તો કરારનાં લેખ ઉપર મુંબઈ સ્ટેમ્પ અધિનિયમ –૧૯૫૮ની અનુસુચિ–૧ ના અર્શકલ –૫ (ત્ર) મુજબ કરાર ઉપર રૂા. ૧૦૦/– સંગ્ન્પ ડયુટી વાપરવાની થાય છે.
- (૨) ટેન્ડર અન્વયે જે અનામતની ૨૬મ ફિક્સ ડીપોઝીટ રીસીપ્ટ, એન.એસ.સી. યા અન્ય કોઈ બચતપત્રના માધ્યમ થી અનામત મુકવામાં આવે તો તેટલી. અનામતની ૨કમ ઉપર મુખઇ સ્ટ્રેમ્પ અધિનિયમ– ૧૯૫૮ની અનુસુર્ચિ–૧ ના આર્ટીકલ –૩૬ (ક) સાથે આર્ટીકલ ૨૦ (ક) મુજબ આ રીતે આપવામાં આવેલ અનામતની ૨કમના પ્રત્યેક રૂા. ૧૦૦/– અથવા તેના ભાગ માટે ૪.૨૫% પ્રમાણે સ્ટેમ્પ ડયુટીને પાત્ર બને છે.

આપના તરફથી જે કામો માટે ટેન્ડર બહાર પાડવામાં આવે અને તેમાં ટેન્ડરની રક્ષ અન્વવે જે રક્ષ હિપોઝીટ (અનામત) મુકવામાં આવે છે. તેમાં ઉપર દર્શાવ્યા મુજબ સંગ્રેમ ડ્યુટીને પાત્ર બને છે. તે મુજબ અમલ કરવા ત્વેનંતી છે. સાથોસાથ આપના ખેતરા



કોન્ટ્રાકટરને વર્ક ઓર્ડર આપવામાં આવે તે સમયે કરારનામાં ઉપર ઉકત વિગતે યોગ્ય સ્ટેમ્પ ડયુટી ભરપાઈ કરેલ છે. કેમ ? તેની ગુકાસણી કરવા પણ જગાવવામાં આવે છે.

પ્રતિ, એ ૧૪ લ્લ્સ ક્રિકાર રહે સમિક્રિનિટ (જે) જીલ્લા વિકાસ અધિકારી, જીલ્લા વિકાસ અધિકારીની કચ્ચ િ (C) સ્ટ. અનિક સુપ્રિ. ઓક સ્ટેમ્બ્ર. ~ ગુજરાત રાજન - ગોધીન્સ્ટ

(ર) મ્યુનીસાયલ કમિશ્નરશ્રી, મ્યુ. કમિશ્નરશ્રીની કરોરી

િ) ોક ઓકિસરાી તમામ નગરપાલેકા કચેરી, ...(ઉપલેટ).....જી. ૨૧૧૬) ટ્રે.

पुटि (११३)कार स्थानकी क्यार्थ

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RAJKOT MUNICIPAL CORPORATION

ACCOUNTS DEPARTMENT

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BrDFtch Name
MICR Code IF5C Code
Account Type
A*CEOUH:I NO.

- Any vendor while filling a tender shall quote registration details; if he is not registred he
 will give fresh details along with tender.
- (2) Acounts branch will designate a person who will keep the forms and also authorize new registrations or edit existing registrations.

ACCOUNT DEPARTMENT, RAJKOT MUNICIPAL CORPORATION

THE ABOVE MENTIONED DETAILS FOR VENDOR REGISTRATION HAS BEEN VERIFIED BY US & FOUND CORRECT. KINDLY REGISTER ABOVE VENDOR.

SIGN

DESIGNATION DEPARTMENT NAME

vs. oi - 9599

વિષય :- તા. ૦૧/૧૦/૨૦૧૮ થી જી.એસ.ટી. ટી.ડી.એસ. ની કપાત બાબત

- * ' I k) °^*• for (ElePartmenl of ñev9nuo | Cenlza | Board | r ziireci | a <a :<ri>Customs Notification No. 50/2018-Central Tax
 - (2) GoG, Finance Department Notification No. 50/2018-State Tax

ઉપरोक्त विषय अने संहर्षे गुक्षरात गुइस એन्ड सर्विस टेक्ष એક્ट, २०९७ तथा सेन्ट्रल गुइस यीक्ष्यस्तुओं भरीहे डे वेशपात्र सेवाओं डोन्ट्रास्टथी मेणवे तो कुल २% (भे टका) टेक्ष डीडक्शन भेट सोसे (%). એस.टी. टी.डी. भेस) अपवानी थाय छे.

આમ ઉપરોક્ત બાબતો ધ્યાને લઇ વધારાની ૨% ની વધારાની નિયમો અનુસાર બિલમાંથી તા. ૦૧/૧૦/૨૦૧૮ થી જી.એસ.ટી. ટી.ડી.એસ. ની કપાત કરવાની થાય છે.

રાજકીટ મહાનગરપાલિકા

ASIR :- GST FAQ'S

- (૨) માન નાયબ કમિશ્નર સાહેબશ્રી. (વે.ઝોન, ઈ.ઝોન)
- (૧) તમામ શાખા અધિકારીશ્રી

36/87/89

શ.મ.ન.પા.લીગલજા.ને.15>1

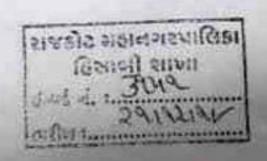
सक्तीर महानगरपासित भीगल गण्य स्थानी-१५न्द्र १२०५०

परिपत्र :

विषय: ध्रापी ओइ. योशना अंतर्गत आपवानी धरी माहिती

રાજકોટ મહાનગરપાલિકાની જુદી-જુદી શાળાએમાં કરજ બજાવતા કમેચારી કે જેએને ઇ પીએક ચોજના લાગુ પડે છે. અથવા તો જેઓને એક વખત આ યોજના ભાગુ પડી ગયેલ હેય. તેઓના ઇ પીએક એકઉન્ટમાં કે વાયાસી (KYC) કોમેમાં આધાર કાર્ડ, પાનકાર્ડ એક એકાઉન્ટની વિંગતો તથા મેંબાઇલ જવર અપડેટ કરવાના બાકી કોય તેનું લીસ્ટ ઇ પીએક. કચેરીમાં જે કમેચારી/એકાઉન્ટ કેલ્લરની જરૂરી વિંગતો પૂરી પાઠવામાં આવલે ન હોય તે સત્વરે પૂરી પાઠવાની યાય છે. તથા અગ્રેશી આ કામગીરીના સકારન અર્થ નિયુક્ત કરવામાં આવેલ પેનલ એકવોકેટ તરકશો ઇ-મેઇલ પારકતે યાદી પૂરી પાઠવા છે. જે આ કાચ સમય સામેલ છે. સદરફ લીસ્ટના કમેચારીઓની વિંગત સંબંધિત શખાએ દિનન્ટ માં પેઝલ એકવોકેટ જાઇમાં કન્સલ્ટન્ટ ને અચુકપણે પ્રસ્થાની કરવાંની શાય છે.

આ ઉપરાંત રાજકોટ મહાનગરપાસિકાની પૂરી-જૂરી ગામાઓ દ્વારા સને ૨૦૧૧ થી આજરિત અહીં કોન્ટ્રાક્ટરો મારફતે કાર્ય કરાવેલ કોય જેમાં માનવશ્વમનો ઉપયોગ થયો કેર્ય તે નાબપાત શેન્ટ્રાક છે ઇ.પી.એક. એક્ટ તથા ઇ.એસ.આઇ. એક્ટ હેઠળ રજીસ્ટ્રેશન કરાવેલ છે કે કેમ? તેની અસઇ બાદ જ સંવંધિત કોન્ટ્રાક્ટરરશ્રીઓના બીલ પાસ કરવા અગાઉ સુયના આપવામાં આવેલ છતી. જેને કહેશો કરક લબ્દોલો સુયના આપવામાં આવે છે. સંબંધિત કોન્ટ્રાક્ટરોની તથા તેઓ અત્તકના શ્રામિકોની ઇ.પી.એક કચેરી તરફાઈ આવેલ પત્રમાં દર્શવાલ વિગતો તાતકાલિક અસરથી પેનલ ધેડવીકેટશીને દિનાપ માં પાર્થિયલ કરવામાં આવે છે.



अहरदं विजात नियत समयमशीरामा न प्रतियवाना संक्रियों क्षिण तरे प्राप्त अने नेरी विजाती मीडावान आपने समिति सामित्रियों व्यक्तियत प्रणानगरी नद्दी उरवाण आवले. देही विश्वत प्रमानिक प्राप्ति सामित्रात प्रणानगरी नद्दी विजात तथा आपनी इयें विश्वत संक्ष्मक समयमशित्रात स्थानशिनी विजात व्यक्ति आपनी इयें विश्वत इरें विश्वत इरें समयमशिद्यों पेनल केटवाईरने प्रतियती इरवी. तथा तेनी कार लीजल मामाने इरवी

ઉપરીક્ત પરિપત્રનો પુસ્તપણે તાતાલિક બસરથી અમલ કરવો.

नक्ष सविवय स्थाना :-- मान अभिक्षत्तर शार्क्य - नाथव अभिक्षतर रक्षाओं स्थाओं !

મકલ રવાના તમામ શાખાપ્રિકારી (અમલસારૂ)

પેનલ એકલોકેટનું સરમામું , શ્વચ્ચા કેન્સલ્ટન્ટ પંતર મેક્યુરેટ સ્કલેટ રાગીર શેંક, સાથકલ ગીન ઉપર સજકોટ, કોન નં. ૨૪૬૩૩૮૦ ्र सम्बद्ध महास्थानस्थानस्थितः विकास

नीय संवधित क्रेन्सकारी ए पी क्रेड बेस्ट तथा ए क्रेस आए जेस्ट हेडल २५०२६ त न वर्षेता होत तेला तथाप सेन्सकारीना जीली ओडीट तथा दिसांजी शाजाचे पंचर इरवा नहीं

C-38J-

રામાના પા. /લીગલ / જા. ને. ૧૮ ૫ ૯

રાજકોટ મહાનગરપાલિકા લીગલ શાખા તા*રાજ્ય* /૨૦૧૭

9911:

તમાણે : બીગલ ફાઇલ નં.૩૭૧/૨૦૧૬-૧૭

રાજકીટ મહાનગરપાલિકાની કામગીરી માટે જુદી-જુદી શાખાઓ દ્વારા કામગીરીના પ્રકારને દ્વાને લઇ નિયમ અનુસારની પ્રક્રિયા અનુસરીને એજન્સી/સપ્લાયર/કોન્ટ્રાકટર સાથે જોગવાઇઓ ક્રેસનેલ્ટ્રો કરાર કરવામાં આવે છે. મહાનગરપાલિકાની કામગીરી સંદર્ભે તૈયાર કરવામાં આવતા દેન્કર/કરાશનામામાં લખતો લખતની જરૂરીયાતને ધ્યાને લઇ આબીટ્રેશન (Arbitration) ની જોગવાઇઓનો સમાવેશ કરવામાં આવેલ છે.

રાજકોટ મહાનગરપાલિકાની કામગીરી માટે કરવામાં આવેલ કરારનામાની શરતો અનુસંધાને અમુક એજન્સી/સપ્લાયર/કોન્દ્રાકટર દ્વારા છેલ્લા કેટલાક વર્ષોથી નામદાર હાઇકોર્ટ સમક્ષ આબીટ્રેટરશ્રીની નિયુક્તિ અંગે પીટીશનો કરવામાં આવે છે, જેના કારણે મહાનગરપાલિકાની કામગીરીના ભારણમાં વધારો થવેલ છે. અને સબંધિત અધિકારીશ્રીઓને વારવાંર અમદાવાદ ખાતે હાજર રહેવુ પડતુ હોય તેના કારણે અગત્યના પ્રોજેક્ટો સહીત કચેરીની કામગીરી તેમજ પ્રજાકીય કામો ઉપર વિપરીત અસર થવા પામેલ છે, તેમજ અરજદારોને દેરાન થવું પડે છે. આ અંગે કાયદાકીય, શાખાના અભિપ્રાય અને પ્રકરણની વિગતો જોતા આ કામે વૈકલ્પિક ઉપાય (alternato remody) ઉપલબ્ધ હોય મહાનગરપાલિકાના ટેન્ડર/કરારનામામાં આબીટ્રેશનની જોગવાઇઓને સામેલ કરવાનું ઉચીત જણાતું નથી.

આશી " રાજકોટ મહાનગરપાલિકાના કામે કરવામાં આવતા ટેન્ડર ડોક્યુમેન્ટ અને કરારનામામાં આબીટ્રેશન (Arbitration) ને લગત જોગવાઇઓ દુર કરવાનો," અને તેના બદલે "ટેન્ડરની શરત/કરારનામાની શરતના અર્થઘટન સંદર્ભે મહાનગરપાલિકાના કમિશનરશ્રીનો નિર્ણય આખરી અને બંધનકર્તા રહશે," અને "ટેન્ડરની/કરારનામાની 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 કરારનામામાં સમાવેશ કરવાનો આથી હુકમ કરવામાં આવે છે.

આ ઠુકમનો અમલ તાત્કાલિક અસરથી યુસ્તપણે કરવો.

કામશુમર રાજકોટ મહાનગરપાલિકા

^{નકલ} રવાના જાણ અર્થે : નાચબ કમિશનરશ્રી (તમામ)

^{નકલ} રવાના જરૂરી કાર્યવાહી અર્થે : તમામ શાખાધિકારીશ્રીઓ