## RAJKOT MUNICIPAL CORPORATION

e - Tender No.RMC/ENGG/EZ/23-24/159



### Bid Documents For CONSTRUCTION OF TWO-WAY GATES AT DIFFERENT TWO LOCATIONS OF SAFARI PARK



Milestone dates for e-tendering are as under		
Downloading of e-documents	12-03-24 To 02-04-24 upto 17.00 Hrs.	
2. Pre-bid meeting in the O/o CE	19-03-24 at 11:00 Hrs	
3. Last date for online submission of e-	02-04-24 upto 18.00 Hrs.	
Tender		
4. Submission of EMD, Tender fee and other	Before 04-04-24 upto 18.00 Hrs.	
documents for verification by		
Regd.Post.A.D. / Speed Post		
5. Opening of Technical Bid	05-04-24 at 11.00 Hours onwards	
6. Verification of submitted documents (EMD,	05-04-24 at 11.00 Hours onwards	
e - Tender fee, etc.)		
7. Agency to remain present with original	06-04-24 between 16.00 to 17.00 Hrs	
documents for verification		
8. Opening of Price Bid (For Technically	08-04-24 at 11.00 Hours onwards	
qualified bidders only)		
9.Bid Validity	180 Days	

2023-24

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

## RAJKOT MUNICIPAL CORPORATION

#### **BID DOCUMENT FOR**

# CONSTRUCTION OF TWO-WAY GATES AT DIFFERENT TWO LOCATIONS OF SAFARI PARK

#### PART-I

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

Section-2 General Conditions of Contract

#### **PART-II**

Section-3 Technical Specifications

#### **PART-III**

Bill of Quantities (With Price)

## **ABBREVIATIONS**

#### Statement showing the details of abbreviations

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

# PART - I SECTION - 1

## **INVITATION FOR BIDS**

## RAJKOT MUNICIPAL CORPORATION e-TENDER NOTICE

The e-Tenders are invited with two bid system by e-Tendering from the experienced contractors registered in GWSSB / State Government / Central Government / Semi

Government in appropriate class for below mentioned work:

		a) Estimated cost in Rs.
Sr	Name of work	b) EMD
No		c) E-TENDER fee
		d) Time limit for
		completion of work
1	CONSTRUCTION OF TWO-WAY GATES AT	a.1) Rs.1,29,09,000/- (with GST)
	DIFFERENT TWO LOCATIONS OF SAFARI	a.2) Rs.1,09,29,100/- (without GST)
	PARK	b) Rs.1,29,090/-
		c) Rs.4,500/-
	e-TENDER No.RMC/ENGG/EZ/23-24/159	d) 6 Months

Milestone dates for e-tendering are as under		
Downloading of e-documents	12-03-24 To 02-04-24 upto 17.00 Hrs.	
2. Pre-bid meeting in the O/o CE	19-03-24 at 11:00 Hrs	
3. Last date for online submission of e- Tender	02-04-24 upto 18.00 Hrs.	
4. Submission of EMD, Tender fee and other documents for verification by Regd.Post.A.D. / Speed Post	Before 04-04-24 upto 18.00 Hrs.	
5. Opening of Technical Bid	05-04-24 at 11.00 Hours onwards	
6. Verification of submitted documents (EMD, e - Tender fee, etc.)	05-04-24 at 11.00 Hours onwards	
7. Agency to remain present with original documents for verification	06-04-24 between 16.00 to 17.00 Hrs	
8. Opening of Price Bid (For Technically qualified bidders only)	08-04-24 at 11.00 Hours onwards	
9.Bid Validity	180 Days	

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 ZAVERCHAND MEGHANI BHAWAN,
EAST ZONE Office,
BHAVNAGAR ROAD,
Rajkot-360003 (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 Scheduled 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 :

- 1. Bidder should have completed similar nature work at least one amounting to 40% OR two works amounting to 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.

**Note**: 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.

Sr	Year	Enhance factor
1	Current Year (2023-24)	1.00
2	Current Year - 1 (2022-23)	1.10
3	Current Year - 2 (2021-22)	1.21
4	Current Year - 3 (2020-21)	1.33
5	Current Year - 4 (2019-20)	1.46
6	Current Year - 5 (2018-19)	1.61
7	Current Year - 6 (2017-18)	1.77
8	Current Year - 7 (2016-17)	1.95

4. **Bidder has to quote their rates without GST** and including other taxes. The invoice should be submitted by contractor showing the breakup of GST in the bill. GST will be paid extra at the prevailing rate at the time of execution.

The contractor shall have to purchase the material required for this tender work, only from the supplier having registered GST Number. RMC will not be responsible to pay any amount towards GST if the material is purchased from the unregistered supplier / not having GST Number.

5. 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.

- 6. 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.
- 7. The bidder should not have been Black Listed, suspended, terminated, backed out, debarred & delisted by any Municipal Body / Urban Local Body / Development Authority in any State Government Body or undertaking / any department or undertaking of Government of India, since inception of the firm / Company. Such a case will be rejected out rightly. A Declaration in this regard on Rs.300/- Stamp Paper duly Notarized shall have to be submitted as per Annexure along with the tender documents. Submission of the bid document without such Notarized declaration will be rejected out rightly.
- 8. The bidder should provide accurate information on any litigation history or arbitration resulting from contracts completed or under execution by him over the last ten years. This should also include such cases, which are in process / progress. A consistent history of awards against the bidder may result in failure of the bid. In case the bidder has not provided such information and has come to the notice of the authority, the tender will be rejected at what so ever stage and in such case all the losses that will arise out of this issue will be recovered from the bidder and he will not have any defense for the same.
- 9. 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.
- 10. Conditional Tenders will be out rightly rejected.
- 11.If no agency remains present and are no points for Prebid meeting, "NIL" minutes to be considered and the same will not be uploaded.
- 12. Commissioner, Rajkot Municipal Corporation, Rajkot, reserves the right to accept / reject any or all e-tender(s) without assigning any reasons thereof.

CITY ENGINEER
Rajkot Municipal Corporation

# ELIGIBILITY CRITERIA

#### 1. Experience Criteria:

The bidder should posses following minimum experience:

- 1. Bidder should have completed similar nature work at least one amounting to **40% OR** two works amounting to **30%** of tender amount in last seven years either in or Semi-government as a main contractor.
- 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.25.00 lakhs
- (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 (2023-24)	1.00
2	Current Year - 1 (2022-23)	1.10
3	Current Year - 2 (2021-22)	1.21
4	Current Year - 3 (2020-21)	1.33
5	Current Year - 4 (2019-20)	1.46
6	Current Year - 5 (2018-19)	1.61
7	Current Year - 6 (2017-18)	1.77
8	Current Year - 7 (2016-17)	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 performance 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 reject the lowest or any other or all e-Tenders or part of it which in the opinion of the Corporation does not appear to be in its best interest, and the Bidder shall have no cause of action or claim against the Corporation or its officers, employees, successors or assignees for rejection of his e-Tender.

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

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

#### IT 4. QUALIFICATIONS OF BIDDERS

- A. The Bidders shall abide by the laws of the Union of India and of Gujarat State and legal jurisdiction of the place where the works are located.
- B. The Bidder shall furnish a written statement of financial and technical parameters with details and documents along with his e-Tender which contains namely as below:
  - i. The Bidder's experience in the fields relevant to this contract.
  - ii. The Bidder's financial capacity/resources and standing over at least 7 (Seven) years.
  - iii. The Bidder's present commitments (Jobs on hand).
  - iv. The Bidder's capability and qualifications of himself and his regular staff etc.
  - v. Plants and Machinery available with the Bidder for the work e-Tendered.
- C. The Bidder shall furnish original documents on the date mentioned in tender notice. The bid for those bidder will be treated as non-responsive who failing to produce original documents on specified date.

#### IT 5. e-TENDER DOCUMENTS

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

#### IT 6. EXAMINATION BY BIDDERS

A. At this own expense and prior to submitting his e-Tender, each Bidder shall (a) examine the Contract Documents, (b) visit the site and determine local conditions which may affect the work including the prevailing wages and other pertinent cost factors, (c) familiarize, himself with all central, state and local laws, ordinance, rules regulations and codes affecting the material supply including the cost of permits and licenses required for the work and (d) correlate his observations, investigations, and determinations with the requirements of the e-TENDER Documents, site & subsoil investigation.

- B. The e-Tender is invited on ..%. rate and contractor shall have to quote his price on % bases above or below in the schedule -B./ Price Schedule. The works shall have to be completed in all respect as stated in the e-Tender document to the satisfaction of the Corporation.
- C. The following comprises in Contract Documents at a price of **Rs.4,500-00**.

#### e-TENDER Document:

#### Part-I

- 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 responsible manner, digitally signed, and submitted. Security Bond shall be submitted in person by the stipulate date, which shall form the e-Tender.

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

#### IT 7. EARNEST MONEY DEPOSIT:

- A. Each Bidder must submit a receipt of deposit as Tender guarantee towards **Earnest money** amounting to **Rs.1,29,090/-** 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. The Tender Bond, shall be valid for a period of not less than 180 days from the date the e-Tenders are opened and shall comply with the requirements for Bond as stipulated in the General conditions of contract. The Tender guarantee bond will be held by the owner as a guarantee that the Bidder, if awarded the contract, will enter into the contract agreement in good faith and furnish the required bonds. Any e-Tender not accompanied by a Tender guarantee in the form of earnest money deposited for the sum stipulated in the e-Tender Document will be summarily rejected.
- B. The Earnest Money Deposit will be refunded to the unsuccessful Bidders after an award has been finalized.
- C. The Earnest Money Deposit (Tender Guarantee) will be forfeited in 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 addresses shall be stated below their signature.
- D. Variation to the contract Documents requested by the Bidder may be affixed and duly signed and stamped. Such variations may be approved or refused by the Corporation is not obliged to give reason for his decisions.

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

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

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

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

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

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

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

#### IT 11 TENDER VALIDITY PERIOD

The validity period of the e-Tender submitted for this work shall be of 180 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 current address, or by a partner holding the power of attorney for the firm, in which case a certified copy of the power of attorney shall accompany the e-TENDER. A certified copy of the partnership deed, current addresses of all the partners of the firm shall also accompany the e-Tender.

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

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

All witnesses and sureties shall be persons of status and probity and their full names, occupations and addresses shall be 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 addendum will be made available online to all Bidders. These shall form a part of e-Tender. The Bidder shall not add to or amend the text of any of the documents except in so far as may be necessary to comply with any addendum.

#### **ADDENDA**

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

- A. The Owner may issue Addenda to advise Bidders of changed requirements. Such addenda may modify previously issued Addenda.
- B. No addendum may be issued after the time stated in the notice inviting e Tenders.

#### **IT 18 TAX AND DUTIES ON MATERIALS**

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

#### **IT 19 EVALUATION OF E - TENDERS**

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

#### IT 20 TIME REQUIRED FOR COMPLETION

The completion period mentioned in this schedule is to be reckoned from the date of notice to proceed. Total completion period is **6 Months** from the date of issue of notice to proceed and contractor should adhere to this completion time. <del>Monsoon period from 1<sup>st</sup> July to 30<sup>th</sup> September will be considered as non working period and hence excluded in time limit.</del>

#### **IT 21 POLICY FOR TENDER UNDER CONSIDERATION**

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

While e-Tenders are under consideration, Bidders and their representative or other interested parties are advised to refrain from contacting by any means any 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 rejection or e-TENDERs will be made during the Tender validity period. A separate Schedule-B (Price Schedule) is given. The contractors are requested to quote their price offer in % below or above on the given price in the schedule-B of Price Schedule only.

- A. After all contract contingencies are satisfied and the Notice of Award is issued, the successful Bidder shall execute the Contract Agreement within the time stated and shall furnish the Bond as required herein. The contract Agreement shall be executed, in form stipulated by the Owner.
- B. If the Bidder receiving the Notice of Award fails or refuses to execute the Contract Agreement within the stated time limit or fails or refuses to furnish the Bond as required herein. The Owner may annul his award and declare the e-Tender security forfeited and will take action as deemed fit.
- C. A corporation, partnership firm or other consortium acting as the Bidder and receiving the award shall furnish evidence of its existence and evidence that the officer signing the contract agreement and Bonds for the corporation, partnership firm or other consortium acting as the Bidder is duly authorized to do so.

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

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

#### IT 26 <u>DISQUALIFICATION</u>

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-Tender preparation.
- (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 submitted fully (as per Article IT 12 i.e. General performance Data).
- (e) Bidder does not agree to payment terms defined as per Article IT. 23 i.e. payment terms.

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

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

#### 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 deposit receipt of any Schedule Bank or Nationalized Bank (except Cooperative Bank) duly endorsed in favour of the **Rajkot Municipal Corporation**, **Rajkot**.

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 ensures an equal of higher quality than the standard mentioned and meets Corporation approval.

#### **IT 30 NON TRANSFERABLE**

e-TENDER documents are not transferable.

#### IT 31 COST OF e-Tendering

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

#### IT 32 EFFECT OF e-Tender

The e-Tender for the work shall remain for a period of 180 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 QUANTITY

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

#### IT 34 NEW EQUIPMENT AND MATERIAL

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

#### **IT 35 RIGHTS RESERVED**

The owner reserves the right to reject any or all e-Tenders, to waive any informality or irregularity in any e-Tender without assigning any reason. The owner further reserves the right to withhold issuance of the notice to proceed, even after execution of the contract agreement. No payment will be made to the successful Bidder on account of such withholding. The owner is not obliged to give reasons for any such action.

#### IT 36 ADDITIONAL RIGHTS RESERVED

The Commissioner, Rajkot Municipal Corporation, reserves 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 liable to be registered under ESI Act must possess ESI registration number at the time of filling of tender. The agency should follow all the rules and regulations of ESI Act as per prevailing norms.

#### **IT 41 PROFESSIONAL TAX**

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

#### IT 42 PF CODE:

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

#### **IT 43 LABOUR LICENSE:**

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

#### IT 44 FILLING OF e-TENDER

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

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

Signature of Contractor with Seal

# 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 / Wehereby declared		
that I am / We partner(s) are not black listed or Terminated or Debarred or		
suspended, backed out, delisted or connected with firm black listed or terminated or		
debarred or suspended or backed out or delisted in any States, CPWD/ MES/ Railways		
or any Government, Semi- Government or Private body since the inception of the firm		
/ company. Also, no Police complaint is lodged against the firm / company or Staff		
deployed by me / us.		
At present I am / we are registered as approved contractor(s), firms in		
State, CPWD / MES / Railways.		
I, owner / We, the partners of this firm, hereby give an undertaking that		
we are jointly and severally responsible to meet all the liabilities ever and above		
the business of this firm and make good the above financial loss sustained by the		
Rajkot Municipal Corporation as a result of our abandoning the works entrusted to		
us.		
I further undertake that if above declaration proves to be wrong/incorrect		
or misleading, our tender/ contract stands to be cancelled/ terminated.		
Date:		
Place: Signature of Authorized Person		
With		
Notarised		

#### **STATEMENT NO-2**

## APPLICABILITY OF PROVIDENT FUND AND MISCELLANEOUS PROVISIONS ACT 1952

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

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

# Declaration Of Depositing Provident Fund contribution

Date: Se	al and Signature of the Bidder
deduction and contribution deposited as mention	ed above.
We produce herewith the copies of the cha	allans for the provident fund
Fund Authority under our Provident Fund Code N	o
	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 the		Certified true copy to
	last seven years.		be attached
3.	Price of biggest similar nature job carried out		Certified true copy to be attached

#### STATEMENT NO. - 4/A

#### **BIDDER'S FINANCIAL CAPACITY**

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

#### Note:-

- 1) Figures to be taken from audited balance sheets. Duly certified attested true copy
- 2) Copies of the balance sheet to be attached..
- The bidder shall have to provide that for a period of at least 6 Months the bidder has ability to sustain negative cash balance and how he proposes to meet with the same.
- 4) Cash Plan / Cash flow Statement.

#### STATEMENT NO. - 4 / B

#### **AVAILABLE BID CAPACITY**

	2016-	2017-	2018-	2019-	2020-	2021-	2022-
	17	18	19	20	21	22	23
Value of works executed in Rs. Crores.							

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 60% OF THE ESTIMATED COST COMPLETED DURING THE LAST SEVEN YEARS.

Sr. No		Name of Project	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 50% of 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 dcost of work (Rs. Lakhs)	ed	Date of award of contra ct	Target date of completi on	Actual date of completi on	Reas on for delay	Amount of work done during last seven years preceding this tender (Rs. Lakhs).			Amount of work done after March 2021 (Rs. Lakhs	Remarks				
									20	20	20	20	20	20	20		
															22		
									-	-	-	-	-	_	_		
									17	18	19	20	21	22	23		
													•		•		

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

# $\frac{\text{STATEMENT NO} - 5/B}{\text{DETAILS OF IMPORTANT CONSTRUCTION PROJECTS}}$

Sr. No		Estimat ed cost	time o	Prescribed Actual time of performance		l 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 project authority and contact person.

#### **STATEMENT NO.-6**

# DETAILS OF PLANT & MACHINERY TO BE DEPLOYED ON THIS WORK

Name of the contractor/company	
, , , , , , , , , , , , , , , , , , ,	

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

#### Note:

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

#### **STATEMENT NO. 7**

#### **METHOD STATEMENT AND WORK PLAN**

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

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

# Application Form(1) General Information

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

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

1.	Name of Firm	
2.	Head office address	
3.	Telephone	Contact
4.	Fax	Telex
5.	Place of incorporation/registration	Year of incorporation/ 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)	
<ul> <li>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.</li> <li>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?</li> </ul>	

5. Were you ever required to suspend construction for a period of more than six months continuously after you started? If so, give the name of project and give reasons thereof.	
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 your experience in 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 your 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 pumping machinery in drainage pumping station	

# GENERAL CONDITIONS OF CONTRACT

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#### GC-01 <u>DEFINITIONS AND INTERPRETATIONS</u>:

- 1.0 In the contract (as hereinafter defined) the following words and expressions shall, unless repugnant to the subject or context thereof, have the following means as signed to them.
- 1.1 The "Owner / Corporation" shall mean Rajkot Municipal Corporation and shall include its Municipal Commissioner or other Officers authorized by the Corporation and also include owner's successors and assignees.
- The "Contractor" shall mean the person or the persons, firm or Company whose e-Tender has been accepted by the Owner and includes the Contractors legal representative, his successors and permitted assigned.

#### 1.3 DELETED

- The "Engineer-In-Charge" shall mean the person designated as such by the owner from time to time and shall include those who are expressly authorized by the Corporation to act for and on its behalf for all functions pertaining to the operation of this contract.
- 1.5 Engineer-In-Charge's Representative shall mean any resident Engineer or Assistant to the Engineer-In-Charge appointed from time to time by the owner to perform duties set forth in the E-TENDER Document whose authority shall be notified in writing to the Contractor by the Engineer-In-Charge.
- 1.6 "E-TENDER" the offer or proposal of the Bidder submitted in the prescribed form setting for the prices for the work to be performed, and the details thereof.
- 1.7 "Contract Price" shall mean total money payable to the Contractor under the contract. (This includes estimated amount as well as GST and Contractors' premium)
- 1.8 "Addenda" shall mean the written or graphic notices issued prior to submission of e-Tender which modify or interpret the contract documents.
- 1.9 "Contract Time" the time specified for the completion of work.
- 1.10 "Contract" shall mean agreement between the parties for the execution of works including therein all contract documents.
- 1.11 "Contract Document" shall mean collectively the e-Tender documents, designs, drawings, specifications, agreed variations, if any and such other documents constituting the e-Tender and acceptance thereof.
- "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 manner of performing the work, to the quantities and qualities of the work and the materials to be furnished under the contract for the work and any order(s) or instruction(s) there under. It shall also mean the latest Indian Standard Institute Specification

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

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

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

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 <u>SCOPE OF WORK</u>:

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

#### Power Supply:

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

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

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

# GC-04 RULING LANGUAGE:

1

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>:

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

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

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

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

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

# GC-06 CONTRACTOR TO UNDERSTAND HIMSELF FULLY:

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

# GC-07 <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 the Contractor's liabilities and obligations set forth or implied in the contract for the proper execution of the work for compliance with requirements of Article GC-19 thereof.

#### GC-09 <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 preference to General Conditions. The special directions or dimensions given in the specifications shall supercede all else. Should any discrepancies however, appear or should any misunderstanding arise as to the meaning and intent of the said specifications or drawings, or as to the dimensions or the quality of the materials or the due and proper execution of the works, or as to the measurement or quality and valuation of the work executed under this contract or as extra there upon, the same shall be explained by the Engineer-In-Charge and his explanation shall be subject to the final decision of the Municipal Corporation in case reference be made to it, be binding upon the Contractor and the Contractor shall execute the work according to such explanation and without addition or to deduction from the contract price and shall also do all such works and things necessary for the proper completion of the works as implied by the drawings and specifications, even though such works and things are not specially shown and described in the said specifications. In cases where no particular specifications are given for any article to be used under the contract, the relevant specifications of the Indian Standard Institution shall apply.

# GC-10 PERFORMANCE GUARANTEE (SECURITY DEPOSIT):

- 1. A sum of 5% of the contract price shall be deposited by the Bidder (hereinafter called the contractor when e-Tender is accepted) as security deposit with the owner for the faithful performance, completion and maintenance of the works in accordance with the contract documents and to the satisfaction of the Engineer-In-Charge and assuring the payment of all obligations arising from the execution of the contract. This shall be deposited in one of the forms mentioned below:
  - a. By a Demand Draft on the Rajkot Branch of any Scheduled Bank except co-operative bank.
  - b. A Fixed Deposit Receipt of a Schedule Bank duly endorsed in favour of the "RAJKOT MUNICIPAL CORPORATION", Rajkot.
  - c. The Contractor may pay 2.5% of the value of works as initial security deposit and the balance 2.5% shall be recovered in installments through deductions at the rate of 10 (ten) percent of the value of each Running Account Bill till the total security execution exceeds the accepted value of e-Tender because of allotment of further work, further recoveries towards security deposit shall be effected at 10% of the R A Bills to make up the five percent security deposit of the revised value of contract. Alternatively, the Contractor may at his option deposit the full amount of 5 percent of security deposit within ten days of receipt by him of the notification accepting the e-Tender in the form as aforesaid. PERFORMANCE GUARANTEE (SECURITY DEPOSIT) WILL BE RELEASED TO THE CONTRACTOR WITHOUT ANY INTEREST AFTER DEFECT LIABILITY PERIOD IS OVER.
- 2. If the Contractor, sub-contractor or their employees shall break, deface or destroy any property belonging to the owner or other agency during the execution of the contract, the same shall be made good by the contractor at his own expense and in default thereof, the Engineer-In-Charge may cause the same to be made good by other agencies and recover expense

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

# GC-11 <u>INSPECTION OF WORK</u>:

1.

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

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

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

#### GC-12 <u>DEFECT LIABILITY</u>:

Contractor shall guarantee the work for a period of 26 Months. Any damage or defect that may arise or that may remain undiscovered at the time of issue of Completion Certificate connected in any way with the equipment or materials supplied by him or in the workmanship shall be rectified or replaced by Contractor at his own expense as desired by Engineer-In-Charge or in default Engineer-In-Charge may cause the same to be made good by other agency and deduct expenses of which the certificate of Engineer-In-Charge shall be final from any sums that may then or any time thereafter become due to Contractor or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof.

- 2. From the commencement to completion of work Contractor shall take full responsibility for the care of the work including all temporary works and in case any damages, occur from any cause whatsoever he shall at his own cost, repair and make good the same so that on completion, work shall be in good order and in conformity, in every respect, with the requirements of contract and as per the instructions of the Engineer-In-Charge.
- 3. If at any time before the work is taken over, the Engineer-In-Charge
  - a) Decide that any work done or materials used by the Contractor are defective or not in accordance with the contract or that work or any portion thereof is defective or do not fulfill the requirements of contract (all such materials being herein after called defects in this clause) he shall,

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

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

# GC-13 <u>POWER OF ENGINEER-IN-CHARGE TO GIVE FURTHER</u> INSTRUCTIONS:

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

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

# GC-14 PROGRAMME:

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

# GC-15 <u>SUB-LETTING OF WORK</u>:

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

# GC-16 <u>SUB-CONTRACTS FOR TEMPORARY WORKS ETC.</u>:

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 Engineer-In-Charge shall have received 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 the conditions of contract in all respects as if such subletting or subcontracting had not taken place and as if such works had been done directly by the Contractor.

#### GC-17 TIME FOR COMPLETION:

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

#### GC-18 <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 stipulated dates referred to above arises from delays on the part of Corporation in supplying the materials or equipment, it has undertaken to supply under the contract or from delays on the quantity of work to be done under the contract, or force majeure an appropriate extension of time will be given by the Corporation. The Contractor shall request for such extension within one month of the cause of such delay and in any case before expiry of the contract period.

#### GC-19 <u>CONTRACT AGREEMENT</u>:

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

#### GC-20 LIQUIDATED DAMAGES:

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

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

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

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

#### GC-21 FORFEITURE OF SECURITY DEPOSIT:

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

# GC-22 ACTION OF FORFEITURE OF SECURITY DEPOSIT:

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

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

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

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

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

# GC-23 COMPENSATION FOR ALTERATION IN OR RESTRICTION IN WORK:

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

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

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

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

#### GC-25 MEMBERS OF THE OWNER NOT INDIVIDUALLY LIABLE:

No official or employee of the owner shall in any way be personally bound or liable for the acts or obligation of the owner under the contract, or answerable for any default or omission in the observance or performance of any acts, matters or things, which are herein, contained.

# GC-26 OWNER NOT BOUND BY PERSONAL REPRESENTATIONS:

The Contractor shall not be entitled to any increase on the schedule of rates or any other rights or claims whatsoever by reason of representation, promise or guarantees given or alleged to have been given to him by any person.

# GC-27 <u>CONTRACTOR'S OFFICE AT SITE</u>:

1.

The Contractor shall provide and maintain an office at the site for the accommodation of his agent and staff and such office shall remain open at all reasonable hours to receive information, notices or other communications.

# GC-28 CONTRACTOR'S SUBORDINATE STAFF AND THEIR CONDUCT:

The Contractor on award of the work shall name and depute a qualified Engineer having experience of carrying out work of similar nature, whom equipments, materials, if any, shall be issued and instructions for work given. the Contractor shall also provide to the satisfaction of Engineer-In-Charge sufficient and qualified staff, competent sub-agents, foreman and loading hands including those specially qualified by previous experience to supervise the type of works comprised in the contract in such manner as will ensure work of the best quality and expeditious working. If, in the opinion of the Engineer-In-Charge additional properly qualified supervision staff is considered necessary, it shall be employed by the Contractor, without additional charge on account thereof. The Contractor shall ensure to the satisfaction of the Engineer-In-Charge that sub-contractors, if any, shall provide competent and efficient supervision over the work entrusted to them.

- 2. If and whenever any of the Contractor's or sub-contractor's agents, subagents, assistants, foreman or other employees shall, in the opinion of the Engineer-In-Charge, be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties or that in the opinion of the owner or Engineer-In-Charge, it is undesirable for administrative or any other reason for person or persons to be employed in the works, the Contractor if so directed by the Engineer-In-Charge, shall at once remove such person or persons from employment thereon. Any person or persons so removed shall not again be reemployed in connection with the works without the written permission of the Engineer-In-Charge. Any person, so removed from the works shall be immediately replaced at the expense of the Contractor by a qualified and competent substitute. Should the Contractor be required to repatriate any person removed from the works he shall do so after approval of Engineer-In-Charge and shall bear all costs in connection therewith.
- 3. The Contractor shall be responsible for the proper behavior of all the staff, foreman, workmen and others and shall exercise proper control over them and in particular and without prejudice to the said generality, the Contractor shall be bound to prohibit and prevent any employee from trespassing or acting in any way detrimental or prejudicial to the interest of the community or of the properties or occupiers of land and properties

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

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

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

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

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

#### GC-30 POWER OF ENTRY:

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

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

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

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

# GC-31 <u>CONTRACTOR'S RESPONSIBILITY WITH THE OTHER CONTRACTOR</u> AND AGENCIES:

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

# GC-32 OTHER AGENCIES AT SITE:

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

#### GC-33 NOTICES:

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

# GC-34 RIGHTS OF VARIOUS INTERESTS:

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

#### GC-35 PRICE ADJUSTMENTS:

No adjustment in price shall be allowed and no price escalation will be allowed.

# GC-36 <u>TERMS OF PAYMENT</u>:

The payment of bills shall be made progressively according to the rules and practices followed by the Corporation. The progressive payment unless otherwise provided in the contract agreement or subsequently agreed to by the parties shall be made generally monthly on submission of a bill by the Contractor in prescribed form of an amount according to the value of the work performed less the price of materials supplied by owner aggregate of previous progressive payments and as required by Clause GC-37 (Retention of Money) herein. All such progressive payments shall be regarded as payments by way of advance against final payment. Payment for the work done by the Contractor will be based on the measurement at various stages of the work, in accordance with the condition at clause GC-81 (measurement of work in progress).

# GC-37 <u>RETENTION MONEY</u>:

Pursuance to clause GC-36 (Terms of Payment) any on at money due to the Contractor for work done, Corporation will hold as Retention money five (5) percent of the value of work. The retention money will not normally be due for payment until the completion of the entire work and till such period the work has been finally accepted by the Corporation and a completion certificate issued by the Corporation in pursuant to Clause-GC 79 (Completion Certificate).

#### GC-38 PAYMENTS DUE FROM THE CONTRACTOR:

All costs, damages or expenses, for which under the contract, Contractor is liable to the Corporation, may be deducted by the Corporation from any money due or becoming due to the Contractor under the contract or from any other contract with the Corporation or may be recovered by action at law or otherwise from the Contractor.

# GC-39 <u>CONTINGENT FEE</u>:

- The Contractor warrants that he has not employed a person to solicit or secure the contract upon any agreement for a commission, percentage, and brokerage contingent fee. Breach of this warranty shall give the Corporation the right to cancel the contract or to take any drastic measure as the Corporation may deem fit. The warranty does not apply to commissions payable by the Contractor to establish commercial or selling agent for the purpose of securing business.
- ii) No officer, employer or agent of the Corporation shall be admitted to any share or part of this contract or to any benefit that may rise there from.

# GC-40 BREACH OF CONTRACT BY CONTRACTOR:

If the Contractor fails to perform the work under the contract with due diligence or shall refuse or neglect to comply with instructions given to him in writing by the Engineer-In-Charge in accordance with the contract, or shall contravene the provisions of the contract, the Corporation may give notice in writing to the Contractor to make good such failure, neglect, or contravention. Should the Contractor fail to comply with such written notice within 10 (Ten) days of receipt, it shall be lawful for the Corporation, without prejudice to any other rights the Corporation may have under the contract, to terminate the contract for all or part of the

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

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

#### GC-41 <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 period for which extension has been granted by the Corporation to the Contractor.
  - b) If in the opinion of the Corporation, the Contractor fails to comply with any of the other provisions of this contract.
- ii) In the event, the Corporation terminates the contract in whole or in part as provided in Article GC-50 (Termination of the Contract) the Corporation reserves the right to purchase upon such terms and in such manner as it may be deem appropriate, plant similar to one which is not supplied by the Contractor and the Contractor will be liable to the Corporation for any additional costs for such similar plant and / or for liquidated damages for delay until such time as may be required for the final completion of works.
- iii) If this contract is terminated as provided in this paragraph GC-40 AND/OR GC-30 (Power of Entry) (1) the Corporation in addition to any other rights provided in this clause, may require the Contractor to transfer title and deliver to the Corporation.
  - a) Any completed works
  - b) Such partially completed information and contract rights as the Contractor has specifically produced or acquired for the performance of the contract so terminated.
- iv) In the event, the Corporation does not terminate the contract as provided in the paragraph GC-50 (Termination of Contract) the Contractor shall continue performance of the contract, in which case, he shall be liable to the Corporation for liquidated damages for delay until the works are completed and accepted.

#### GC-42 BANKRUPTCY:

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

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

#### GC-43 OWNERSHIP:

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

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

# GC-44 <u>DECLARATION AGAINST WAIVER</u>:

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

# GC-45 LAWS GOVERNING THE CONTRACT:

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

# GC-46 OVER PAYMENT AND UNDER PAYMENT:

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

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

#### GC-47 <u>SETTLEMENT OF DISPUTES</u>:

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

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

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

# GC-49 <u>ARBITRATION</u>:

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

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

#### GC-50 <u>TERMINATION OF THE CONTRACT</u>:

i) If the Contractor finds it impracticable to continue operation owing to force majeure reasons or for any reasons beyond his control and/or the Corporation find it impossible to continue operation, then prompt notification in writing shall be given by the party affected to the other.

ii) If the delay or difficulties so caused cannot be expected to cease or become unavoidable or if operations cannot be resumed within two (2) months then either party shall have the right to terminate the contract upon ten (10) days written notice to the other. In the event of such termination of the contract, payment to the Contractor will be made as follows:

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

# GC-51 SPECIAL RISKS:

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

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

# GC-52 CHANGE IN CONSTITUTION:

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

# GC-53 <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 claims for additional costs, extension of time, damages for delay or otherwise with respect to the sub-contracted portions of the work in sufficient time, that the Contractor may apply for payment comply in accordance with the contract documents for like claims by the Contractor upon the Corporation.
- d) Waive all rights the contracting parties may have against one another for damages caused by fire or other perils covered by the property insurance except such rights as they may have to the proceeds of such insurance held by the Corporation as trustee and,
- e) Obligate each sub-contractor specifically to consent to the provisions of this Article.

#### GC-54 PATENTS AND ROYALTIES:

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

2. With respect to any sub-contract entered into by Contractor pursuant to the provisions of the relevant clause hereof, the Contractor shall obtain from the sub-contractor an understanding to provide the owner with the same patent protection that contracts is required to provide under the provisions of the clause.

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

# GC-55 LIEN:

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

# GC-56 EXECUTION OF WORK:

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

#### GC-57 WORK IN MONSOON:

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

# GC-58 WORK ON SUNDAYS AND HOLIDAYS:

No work except curing shall be carried out on Sunday and holidays. However, if the exigencies of the work need continuation of work on Sundays and Holidays, written permission of the Engineer-In-Charge shall be obtained in advance.

# GC-59 GENERAL CONDITIONS FOR CONSTRUCTION WORK:

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

# GC-60 <u>DRAWINGS TO BE SUPPLIED BY THE OWNER</u>: (N.A.)

The drawings attached with the e-Tender documents shall be for general guidance of the Contractor to enable him to visualize the type of work

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

# GC-61 DRAWINGS TO BE SUPPLIED BY THE CONTRACTOR:

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

Certified	true	forProject
Agreement I	No	-
J		
Signed		

# Contractor Charge

Engineer-In-

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

#### GC-62 SETTING OUT WORK:

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

# 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 shall rectify completely any errors therein at his own cost when so instructed by Engineer-In-Charge. If any error has crept in the work due to non-observance of this clause,

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

# 1. Materials to be supplied by the Contractor:

Contractor shall procure and provide all the material required for the execution and maintenance of work including M S rods; all tools, tackles, construction plant and equipment except, the materials to be supplied by the owner detailed in the contract documents. Owner, shall make recommendations for procurement of materials to the respective authorities if desired by the Contractor but assumes no responsibility of any nature. Owner shall insist for procurement of materials with ISI marks supplied by reputed firms of the DGS & D list.

2. If however, the Engineer-In-Charge feels that the work is likely to be delayed due to Contractor's inability to procure materials, the Engineer-In-Charge shall have the right to procure materials, from the market and the Contractor will accept these materials at the rates decided by Engineer-In-Charge.

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

1.

If the contract provided certain materials or stores to be supplied by the owner, such materials and stores transported by the Contractor at his cost from owner's stores or Railway Station. The cost from Contractor for the value of materials supplied by the owner will be recovered from the R.A.Bill on the basis of actual consumption of materials in the work covered and for which R A Bill has been prepared. After completion of the work, the Contractor has to account for the full quantity of materials supplied to him.

2. The value of store materials supplied by owner to the Contractor shall be charged at rates shown in the contract document and in case any other material not listed in the schedule of materials is supplied by the owner, the same shall be charged at cost price including carting and other expenses incurred in procuring the same. All materials so supplied shall remain the property of the owner and shall not be removed from the site on any account. Any material remaining unused at the time of completion of work or termination of contracts shall be returned to owner's store or any other place as directed by the Engineer-In-Charge in perfectly good condition at Contractor's cost. When materials are supplied free of cost for use in work and surplus and unaccounted balance thereof are not returned to the owner, recovery in respect of such balance will be effected at double the applicable issue rate of the material or the market rates whichever is higher.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# GC-67 <u>MATERIALS OBTAINED FROM DISMANTLING</u>:

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

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

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

# GC-69 <u>DISCREPANCIES</u> <u>BETWEEN INSTRUCTIONS</u>:

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

# GC-70 <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 necessary or advisable during the progress of work and the Contractor shall be bound to carry out such altered / extra / new items of work in accordance with any instructions which may be given to him in writing signed by Engineer-In-Charge and such alteration omissions, additions or substitutions, shall not invalidate contract and any altered, additional or substituted work shall be carried out by the Contractor on the same conditions of contract. The time of completion may be extended by Architect as may be considered just and reasonable by him. The rates for such additional, altered or substitute work shall be worked out as under:

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

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

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

# GC-71 ACTION WHEN NO SPECIFICATIONS ARE ISSUED:

In case of any class of work for which no specifications is supplied by the owner in the e-Tender documents, such work shall be carried out in accordance with relevant latest ISS and if ISS do not cover the same, the work shall be carried out as per General Technical Specification for building work; and if not covered in then it is to be with standard Engineering Practice subject to the approval of Engineer-In-Charge.

# GC-72 ABNORMAL RATES:

Contractor is expected to quote rate for each item after careful analysis of cost involved for the performance of the completed item considering all specifications and conditions of contract.

#### GC-73 <u>ASSISTANCE TO ENGINEER-IN-CHARGE</u>:

Contractor shall make available to Engineer-In-Charge free of cost all necessary instruments and assistance in checking of any work made by the Contractor setting out for taking measurement of work etc.

# GC-74 TESTS FOR QUALITY OF WORK:

- 1. All workmanship shall be of the best kind described in the contract documents and in accordance with the instructions of Engineer-In-Charge and shall be subjected from time to time to such tests at Contractor's cost as the Engineer-In-Charge may direct at the place of manufacture of fabrication or on the site or at any such place. Contractor shall provide assistance, instruments, labour and materials as are normally required for examining, measuring and testing of any work of workmanship as may be selected and required by Engineer-In-Charge.
- 2. All tests necessary in connection with the execution of work as decided by Engineer-In-Charge shall be carried out at an approved laboratory at Contractor's cost.
- 3. Contractor shall furnish the Engineer-In-Charge for approval when requested or if required by the specification, adequate samples of all materials and finished goods to be used in work sufficiently in advance to permit tests and examination thereof. All materials furnished and finished goods applied in work shall be exactly as per the approved samples.

#### GC-75 ACTION AND COMPENSATION IN CASE OF BAD WORKMANSHIP:

If it shall appear to the Engineer-In-Charge that any work has been executed with materials of inferior description, or quality or are unsound or with unsound, imperfect or unskilled workmanship or otherwise not in accordance with the contract, the Contractor shall, on demand in writing

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

#### GC-76 SUSPENSION WORK:

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

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

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

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

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

#### GC-79 <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 work on the date so

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

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

# GC-80 SCHEDULE OF RATES:

The rates quoted by the Contractor shall remain firm till the completion of the work and shall not be subject to escalation. Schedule of rates shall be deemed to include and cover all costs, expenses and liabilities of every description and risks or every kind to be taken in executing, completing and handing over the work to owner by Contractor. The contractor shall be deemed to have known the nature, scope, magnitude and the extent of work and materials required though contract documents may not fully and precisely furnish them. He shall make such provision in the Schedule of Rates as he may consider necessary to cover the cost of such items of work and materials as may be reasonable and necessary to complete the work. The opinion of Engineer-In-Charge as to the item of work which are necessary and reasonable for completion of the work shall be final and binding on Contractor although the same may be not shown on drawings or described specifically in contract documents.

- 2. The Schedule of Rates shall be deemed to include and cover the cost of all constructional plant, temporary work, materials, labour and all other matters in connection with each item in Schedule of Rates and the execution of work or any portion thereof finished complete in every respect and maintained as shown or described in the contract document or as may be ordered in writing during the continuance of the contract.
- The Schedule of Rates shall be deemed to include and cover the cost of all royalties and fees for the articles and processes, protected by letters patent or otherwise incorporated in or used in connection with work, also all royalties, rents and other payments in connection with obtaining material of whatsoever kind for work and shall include an indemnity to owner which Contractor hereby gives against all action, proceedings, claims, damages, costs and expenses arising from the incorporation in or use on the works of any such articles, processes or materials. Other Municipal or local Board charges if levied on material, equipment or machineries to be brought to site for use on work shall be borne by the Contractor.

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

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

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

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

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

# GC-83 NOTICE FOR CLAIM FOR ADDITIONAL PAYMENT:

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

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

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

The price to be paid by the owner to Contractor for the work to be done and for the performance of all the obligations undertaken by the Contractor under contract shall be based on the contract price and payment to be made accordingly for the work actually executed and approved by the Engineer-In-Charge.

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

#### GC-85 FINAL BILL:

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

# GC-86 RECEIPT FOR PAYMENT:

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

# GC-87 <u>COMPLETION</u> <u>CERTIFICATE</u>:

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.

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

Except the final certificate, no other certificate of payment against a certificate or on general account shall be taken to be an admission by owner of the due performance of contract or any part thereof of occupancy or validity or any claim by the Contractor.

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

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

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

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

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

#### GC-89 INSURANCE:

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

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

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

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

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

#### GC-90 <u>DAMAGE TO PROPERTY</u>:

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

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

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

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

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

#### GC-92 <u>IMPLEMENTATION OF APPRENTICE ACT 1954</u>:

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

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

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

#### GC-94 SAFETY CODE:

#### General:

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

#### 1.0 First Aid and Industrial Injuries :

- 1.1 Contractor shall maintain First-Aid facilities for its employees and those of his sub-contractors.
- 1.2 Contractor shall make outside arrangements for ambulance service and for the treatment of industrial injuries. Name of those providing these services shall be furnished to Engineer-In-Charge prior to start of construction, and their telephone numbers shall be prominently posted in Contractor's field office.
- 1.3 All injuries shall be reported promptly to Engineer-In-Charge and a copy of Contractor's report covering each personal injury requiring the attention of a physician shall be furnished to owner.

#### 2.0 General Rules:

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

#### 3.0 Contractor's Barricades:

- Contractor shall erect and maintain barricades without any extra cost, required in connection with his operation to guard or protect during the entire phase of the operation of this contract for
  - i) Excavation
  - ii) Hoisting areas
  - iii) Areas adjudged hazardous by Contractor's OR Owner's inspectors.
  - iv) Owner's existing property liable to be damaged by Contractor's operations, in the opinion of Engineer-In-Charge / Site Engineer.

- 3.2 Contractor's employees and those of his sub-contractors shall become acquainted with owner's barricading practices and shall respect the provisions thereof.
- 3.3 Barricades and hazardous areas adjacent to but not located in normal routes of travel shall be marked by red lantern at night.

#### 4.0 Scaffolding:

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

#### 5.0 Excavation:

- 5.1 All trenches 1.2 M (4') or more in depth, shall at all time be supplied with at least one ladder.
- Ladder shall be extended bottom of the trench to at least 3" above the surface of the ground. The side of the trench which are 1.5 M (5') or more in depth shall be stopped back to give suitable slope, or securely held by timber bracing, so as to avoid the danger of sides to collapse. The excavated materials shall not be placed within 1.5 M (5') of the trench of half of the trench depth whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or under cutting be done.

#### 6.0 Demolition:

- 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.
- 6.3 All practical steps shall be taken to prevent danger to persons 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.

#### 7.0 Safety Equipment:

- All necessary personal safety equipment as considered necessary by the Engineer-In-Charge should be made available for the use of persons employed on the site and maintained in a condition suitable for immediate use, and the Contractor should take adequate steps to ensure proper use of equipment by those concerned.
- 7.2 Workers employed on mixing asphaltic materials, cement and line mortars shall be provided with protective footwear and protective gloves.

#### 8.0 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 for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first-aid treatment of all injuries likely to be sustained during the course of the work.

#### 9.0 Hoisting Equipment:

- 9.1 Use of hoisting machines and tackles including their attachments, and storage and supports shall conform to the following standards or conditions.
- 9.2 These shall be of good mechanical construction, sound material and adequate strength and free from patent defect and shall be kept in good condition and in good working order.
- 9.3 Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength and free from patent defects.
- 9.4 Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 Years should be in-charge of any hoisting machine including any scaffolding.

- In case of every hoisting machine and of every chain ring hook, shackle, swivel and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
- In case of departmental machine, the safe work load shall be notified by the Engineer-In-Charge, as regards Contractor s machine, the Contractor shall, notify, the safety working load of the machine to the Engineer-In-Charge. Whenever the Contractor brings any machinery to site of work he should get it verified by the Engineer-In-Charge concerned.

#### 10.0 Electrical Equipment:

Motors, gears, transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safeguards, hoisting appliances should be provided with such means when will reduce to the minimum the risk of accidental descent of the load, adequate precautions shall be taken to reduce to the minimum the risk of any part or a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel such as gloves, and booths as may be necessary shall be provided. The workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

#### 11.0 Maintenance of Safety Devices :

All scaffolds, ladders and other safety devices as mentioned or described herein shall be maintained in sound condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near place of work.

#### 12.0 Display of Safety Instructions:

The safety provisions should be brought to the notice of all concerned by display on a Notice Board at a prominent place at the work spot. The persons responsible for compliance of the safety code shall be named therein by the Contractor.

#### 13.0 Enforcement of Safety Regulations :

To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangement made by the Contractor shall be open to inspection by the Welfare Officer, Engineer-In-Charge or Safety Engineer of the owner or their representatives.

#### 14.0 No Exemption:

- 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 accident arising out of the works which results in death

or which is so serious as to be likely to result in death, the Contractor shall within twenty-four hours of such accident, report in writing to the Engineer-In-Charge, the facts stating clearly and in sufficient details the circumstances of such accident and the subsequent action. All other accidents on the works involving injuries to person or damage to property other than that of the Contractor shall be promptly reported to the Engineer-In-Charge, stating clearly and in sufficient details the facts and circumstances of the accidents and the action taken. In all cases, the Contractor shall 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 respect of which compensation may become payable under the Workman's Compensation Act VIII of 1923 including all modification thereof, the Engineer-In-Charge may retain out of money due and payable to the Contractor such sum of sums of money as may in the opinion of Engineer-In-Charge be sufficient to meet such liability. On receipt of award from the Labour Commissioner in regard to quantum of compensation, the difference in amount will be adjusted.

AddI/Asst. Engineer R.M.C.

Dy.Ex.Engineer R.M.C.

CITY ENGINEER R.M.C.

Signature of Contractor with Seal

# PART-II SECTION - 3

# TECHNICAL SPECIFICATIONS

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

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#### :: TECHNICAL SPECIFICATIONS ::

#### A. GENERAL

#### 1. SCOPE OF CONTRACT:

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

#### 2. e-TENDER PRICE:

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

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

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

#### 5. CLASSIFICATION OF STRATA:

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

#### 5.2 Soils:

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

#### 5.3 Hard Murrum:

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

#### 5.4 Soft – Rock:

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

#### 5.5 Hard Rock:

This shall include rock 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.
- 8. During construction activity, proper care must be taken for labour safety and must follow the provisions of the Labour laws.
- 9. TMT bars of Fe-500 should be confirming to IS:1786. The approved makes shall be TATA, SAIL, Vizag, Gallent, Electrotherm or other equivalent make as approved by engineer-in-charge.
- 10. Cement shall be ordinary Portland cement 53 Grade conforming to

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

- 11. Testing of the materials like Brick, Sand, Aggregate, Reinforcement steel, etc. should have to be tested 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.

B. DETAILED TECHNICAL SPECIFICATIONS

**B1** MATERIAL SPECIFICATION

#### 1. Material:

#### M-1 Water:

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

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

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

Hard and bitter water shall not be used for curing. Potable water will generally found suitable for curing mortar of concrete.

#### M-2 Lime:

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

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

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

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

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

#### M-3 Cement:

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

#### M-4 White Cement:

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

#### M-5 Colored Cement:

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

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

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

#### M-6 Sand:

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

#### Coarse Sand:

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

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

#### Fine Sand:

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

I.S. Sieve Designation	Percentage by weight passing sieve	IS Sieve percentage Designation	by weight percent- age pass- ing sieve.

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

#### M-7 Stone Dust:

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

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

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

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

#### M-8 Stone Grit:

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

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

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

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

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

#### M-9 Cinder:

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

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

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

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

#### M-10 Lime Mortar:

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

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

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

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

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

#### Storage:

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

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

#### M-11 Cement Mortar:

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

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

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

#### **Proportion of Mortar:**

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

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

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

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

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

I S Sieve designa-	Percentage passing for single sized aggregates of nominal size			IS Sieve desig- nation		ge passi zed aggreç size	
tion	40 mm	20 mm	16 mm		40 mm	20 mm	16 mm
80 mm				12.5 mm			
63 mm	100			10 mm	0.5		0.30
40 mm	85-100	100		4.75 mm		0.20	0.5
20 mm	0-20	85-100	100	2.35 mm		0.50	
16 mm			8-100				

#### Note:

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

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

#### M-13 Black Trap or Equivalent Hard Stone Coarse:

#### Aggregate for Design Mix concrete:

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

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

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

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

#### M-14 Brick Bats Aggregate:

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

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

#### M-15 Bricks:

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

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

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

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

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

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

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

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

#### M-16 Stone:

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

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

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

#### M-17 <u>Laterite Stone</u>

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

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

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

Special corner stones shall be provided where so directed.

#### M-18 Mild Steel Bars:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### M-22 Structural Steel:

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

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

#### M-23 Galvanized Iron Sheets:

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

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

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

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

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

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

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

#### Ridge & Hips:

Ridge and hips shall, be of same thickness as that of A.C. sheets. The types of ridges shall be suitable for the type of sheets and location. Other accessories to be used in roof such as flashing pieces eaves filler pieces, valley gutters, north light and ventilator curves, barge boards etc. shall be of standard manufacture and shall be suitable for the type of sheets and location.

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

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

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

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

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

Mild steel wire may be galvanized, as indicated. A11 finished steel wire shall be well cleanly drawn to the dimensions, and size of wire as specified in item. The wire shall be sound, free from splits, surface flaws, rough jagged-and imperfect edges and other harmful surface defect and shall conform to I.S. latest edition.

#### M-78. Barbed Wire.

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

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

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

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

#### **DETAILED TECHNICAL SPECIFICATIONS**

#### Item No.1:

### Excavation in foundation in Soft soil and Hard murrum from 0 to 1.50 m Depth etc comp.

#### 1.0 General:

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

#### 2.0 Cleaning the site:

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

#### 3.0 Setting out:

After clearing the site, the center lines will be given by the engineer-in-charge. The contractor shall assume full responsibility for alignment, elevation and dimension and of each and all parts of the work. Contractor shall supply labors, materials, etc required for setting out the reference marks and bench marks and shall maintain them as long as required and directed.

#### 4.0 Excavation:

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

#### 5.0 Disposal of the excavated stuff:

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

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

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

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

- 1. Beside Kotharia Police Station near Stone Quarry
- 2. All Quarry areas of Raiya Smart City

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

#### Mode of Measurement and Payment:

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

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

#### Item No.2:

# Excavation of Foundation in Hard Rock with Breaker / Blasting / Gann from 00 mtr to 1.50 mtr depth including lifting and laving as instructed

#### 1.0. Workmanship

- **1.1.** The relevant specification of item No.1 shall be followed except that the excavation for foundation work shall be carried out in soft/hard rock.
- 1.2. Excavation shall be done by blasting to the dimensions shown in the drawings or as directed. The blasting shall be carried out only with written permission of the Engineer-in-charge. All the laws, regulations etc,- pertaining to the precautions, acquisition, transport, landing and use of explosive shall be rigidly followed. The Magazine for the storage for the explosive shall be built to the design and specifications of explosive authority and located at the approved site No unauthorised persons shall be admitted into the magazine and when not in use it shall be kept securely locked No matches or inflammable materials shall be allowed in Magazine. The Magazine shall have an-effective lightning conductor. The rules of explosive 1940 revised from time to time shall be followed strictly for obtaining starting, handling, undertaking blasting work.
- 1.3. The contractor shall be responsible for damage to property, workmen

public due to any accident due to use of explosives and operations

#### 1.4. Precautions

- 1.4.1. The blasting operation shall remain in charge of competent and experienced supervisor and workmen who are thoroughly acquainted with the detail of handling explosive and blasting operations. The blasting shall be carried our during fixed hours of the day, preferably during the mid-day lunch hours or at the close of the work as ordered in writing by the Engineer-m-charge. The hours of blasting shall be notified in advance to the people in the vicinity. All the charges shall be prepared by the man in charge only.
- **1.4.2.** Red danger flags shall be displayed prominently in all direction during the blasting operations.
- **1.4.3.** People except those who actually light the fuse shall be prohibited from entering into this area. The flags shall be stationed at 200 m. from the firing-site in all directions and all persons including workmen shall be excluded form the flagged area at least 1.0 minutes before the firing warning whistle being sounded for this purpose
- 1.4.4. During excavation in rock by blasting, the lowest 15 cm. of stratus shall be blasted with light charge so as not to shatter or weaken the underlying rock on which the foundation will be actually laid If excavation in rock in done to large widths and length than those shown on the drawings or as directed, no payment shall be made for such over break. If excavation is done to depths greater than shown on the drawings or directed, excess depth shall be made up with foundation grade concrete as directed at the contractor's cost.
- 1.4.5. The charged hole shall be drilled to the required depth and in suitable places when blasting is done with powder, the fuse cut to the required length shall be inserted in the holes and the powder dropped in. The powder shall be gently tamped with copper rod with rounded ends. The explosive powder shall then be covered with trapping materials which shall be tamped lightly out firmly. When blasting is done with dynamite and other high explosive, dynamite cartridges shall be prepared by inserting the square cut ends of fuse into the detonator, and finished with dippers at the open ends The detonator should be gently pushed into the detonator and finished with dippers at the opened ends. The detonator should be gently pushed explosive. Bore holes shall be of such size that the cartridges can be easily passed down. The holes shall be cleared of all debris and explosive inserted The space for about 20 cams, above the charge shall then be gently filled with dry clay pressed home and rest of tamping is with firmed any convenient materials gently packed with a wooden cover.
- 1.4.6. At a time not more than 10 such charge shall be prepared and fired. The man in charge shall blow a whistle in a recognised manner for cautioning the people. All the people shall then be required to move to number of explosions. He shall satisfy himself that all the charges have been exploded before allowing the workmen to go to the work site.
- **1.4.7.** The contractor shall be fully responsible to strictly follow the prevailing rules and procedures regarding blasting procedures

#### 1.5. Misfire

- **1.5.1.** In case of a misfire the following procedure shall be observed:
- **1.5.2.** Sufficient time shall be allowed to account for the delayed blast. The man in charge shall inspect all the charges and determine the missed

charge.

- **1.5.3.** If it is the blasting powder charge it shall be completely flooded with water. A new hole shall be drilled at, about 45 cm. from the old and fired. This should blast the old charge Should^ it not blast the old charge, the procedure shall be repeated till the old charge is blasted.
- 1.5.4. In case of charge of gelatins, dynamite etc, the man in charge shall gently remove the tamping and the primer with detonator and primer shall then be used to blast the charge. Alternatively the hole may be cleared of one foot of tamping and the direction then ascertained by placing a stick in the hole Another hole may then be drilled 15 cm away and parallel to it. The man in charge shall report to the office all cased of misfire and cause of the same and what steps ware taken in connection therewith.
- **1.5.6.** If a misfire has been found to he due to defective or dynamite, the whole quantity in the box from which defective article was taken must be sent to authority as directed for inspection to ascertain whether all the remaining materials in the box are also defective or not.

#### 1.6. Accidents:

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

#### 1.7. Account:

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

#### 1.8. Disposal of Excavated Materials:

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

  Unsuitable materials obtained from clearing site and excavation shall be disposed off within a lead of 50 meters as directed. Useful materials obtained from clearing site and excavation shall be stacked within a lead of 50 M beyond the building areas is directed. Materials suitable for back-filling shall be stacked at convenient places within a lead of 50 M. from the structure for reuse. Useful stones from rock excavation shall be stacked neatly within a lead of 50 M. and will be allowed to be used by the contractor on payment at rates laid down n the contract or if not so

- laid down, at scheduled rates of the Division or at a mutually agreed rates if there are no such rates in the schedule of rates.
- **1.8.3**.If surplus materials are required to be conveyed beyond 50 M, conveyance will be paid for under a separate item

#### 2.0. Mode of measurements & Payment

- 2.1. The work shall be measured for the work limited to the dimensions shown on drawings or directed Excavation to dimension in excess of the above will not be measured or paid for and if so ordered by the Engineer the contractor shall have to fill up the excess depth with cement concrete specified for foundation without extra payment.
- 2.2. Driving of sounding bars, drill holes to explore the nature of substratum up to a total length of meter distributed in 2 or 3 places in each foundation if necessary, will be considered incidental work and will not be paid for separately.
- **2.3.** Removal of slips and blows in the foundation trenches will not be measured or paid for.
- 2.4. if it is necessary in the opinion of the Engineer-in-charge to carry foundation below the levels shown on the plans, the excavations for the 1.5 M of addition depth will be included in the quantity for the particular classification and will be paid for as extra at rate to be decided under the general conditions of contract unless, the contractor is willing to accept payment as tendered rates.
- **2.5.** The rate shad be for a unit of one cubic meter.

#### Item No.3:

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

- 1.0. Materials
- 1.1 Water shall conform to M-1. Cement shall conform shall conform to M-3. Sand shall conform to M-6. Stones aggregate 20 mm. nominal size shall conform to M-12.
- 2.0 Workmanship
- 2.1 General
- 2.1.1 Before starting concrete the bed of foundation trenches shall be cleared of all loose materials, leveled, watered and rammed as directed.
- 2.2 Proportion of Mix
- 2.2.1 The proportion of cement, sand and coarse aggregate shall be one part of cement, 2 parts of sand and 4 parts of stone aggregate; and shall be measured by volume.
- 2.3 Mixing
- 2.3.1 The concrete shall he mixed in a mechanical mixer at the site of work. Hand mixing may however be allowed for smaller quantity of work if approved by the Engineer-in-charge. When hand mixing is permitted by the Engineer-in-charge in case of break-down of machineries and in the interest of the work, it shall be carried out on

a water tight platform and care shall be taken to ensure that mixing is continued until the mass is uniform in colour and consistency. However in such cases 10% more cement than otherwise required shall have to be used without any extra cost. The mixing in mechanical mixer shall be done for a period 1½ to 2 minutes. The quantity of water shall be just sufficient to produce a. dense concrete of required workability for the purpose.

- 2.4 Transporting & placing the concrete.
- 2.4.1 The concrete shall, be handed from the place of mixing to the final position in not more than 15 minute by the method as directed and shall be placed into its final position, compacted and finished within 30 minutes of mixing with water i.e. before the setting commences.
- 2.4.1 The concrete shall be laid in layers of 15 cms to 20 cms.
- 2.5 Compacting:
- 2.5.1 The concrete shall be rammed with heavy iron rammers and rapidly to get the required compaction and to allow all the interstices to be filled with mortar.
- 2.6 Curing
- 2.6.1 After the final set, the concrete shall be kept continuously wet if required by ponding for a period of not less then 7 days from the date of placement.
- 2.7 Mode of measurements and payment:
- 2.7.1 The concrete shall he measured for its length, breadth, and depth, limiting dimensions to those specified on plan or as directed.
- 2.7.2 The rate shall be for a unit of one cubic meter.

#### Item No.4, 5 AND 45:

Foundation filling with Rubble Cement Mortar in proportion of 1:6 Cement:Mortar

And

Rubble Stone filling with 33% Murrum in specified thickness with watering, compaction etc. complete

<u>And</u>

Rubble pitching work 0.15 to 0.22 mtr. thick with murrum backing of 0.15 mtr thick with jointing in Cement:Mortar in proportion of 1:3

#### Materials

Stones for the works shall be of the specified varieties which are hard, durable, fine grained and uniform in colour (for superstructure work) free from veins, flaws and other defects. Quality and work shall conform to the requirements specified in IS:1597 (Part-I) (Latest Edition). The percentage of water absorption shall not exceed 5 percent as per test conducted in accordance with IS:1124 (Latest Edition). The Contractor shall supply sample stones to the RMC for approval. Stones shall be laid with its grains horizontal so that the load transmitted is always perpendicular to the natural bed.

Cement-sand mortar for stone masonry works shall be in the proportion of 1:6. Materials and preparation of mortar shall be as specified below:

#### Workmanship

For All Works below ground level the masonry shall be random rubble uncoursed with ordinary quarry dressed stones for the hearting and selected quarry dressed stones for the facing.

For all works above ground level and in superstructure the masonry shall be random rubble uncoursed, well bonded, faced with hammer dressed stones with squared quoins at corners. The bushings on the face shall not be more than 40 mm on an exposed face and on the face to be plastered it shall not project by more than 12 mm nor shall it have depressions more than 10 mm from the average wall surface.

Face stones shall extend back sufficiently and bond well with the masonry. The depth of stone from the face of the wall inwards shall not be less than the height or breadth at the face. The length of the stone shall not exceed three times the height and the breadth on base shall not be greater than three-fourths the thickness of wall nor less than 150 mm. The height of stone may be upto a maximum of 300 mm. Face stones or hearting stones shall not be less than 150 mm in any direction.

Chips and spalls shall be used wherever necessary to avoid thick mortar joints and to ensure that no hollow spaces are left in the masonry. The use of chips and spalls in the hearting shall not exceed 20 percent of the quantity of stone masonry. Spalls and chips shall not be used on the face of the wall and below hearting stones to bring them to the level of face stones.

The maximum thickness of joints shall not exceed 20 mm. All joints shall be completely filled with mortar. When plastering or pointing is not required to be done, the joints shall be struck flush and finished as the work proceeds. Otherwise, the joints shall be raked to a minimum depth of 20 mm by a raking tool during the progress of the work while the mortar is still green.

Through or bond stones shall be provided in walls upto 600 mm thick and in case of walls above 600 mm thickness, a set of two or more bond stones overlapping each other by at least 150 mm shall be provided in a line from face to back. In case of highly absorbent types of stones (porous lime stone and sand stone, etc.) the bond stone shall extend about two-thirds into the wall and a set of two or more bond stones overlapping each other by at least 150 mm shall be provided. Each bond stone or a set of bond stones shall be provided for every 0.5 sq.m of wall surface.

All stones shall be sufficiently wetted before laying to prevent absorption of water from the mortar. All connected walls in a structure shall be normally raised uniformly and regularly. However if any part of the masonry is required to be left behind, the wall shall be raked back (and not saw toothed) at an angle not exceeding 45 deg. Masonry work shall not be raised by more than one meter per day.

Green work shall be protected from rain by suitable covering. Masonry work shall be kept constantly moist on all the faces for a minimum period of seven days for proper curing of the joints.

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

#### Item No.6: Brick Work

#### Materials:

Water shall conform to M-1.

#### Cement:

Cement shall conform to M-3.

#### Brick:

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

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

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

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

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

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Length \pm 1/8" (3mm) width : \pm 1/16" (1.5mm)
Height: \pm 1/16" (1.5 mm)
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The crushing strength of the bricks shall not be less than 35 kg/sq.cm. The average water absorption shall not be more than 20 percent by weight. Necessary tests for crushing strength and water absorption etc., shall be carried out as per IS: 3495 (Part I to IV) - latest edition.

#### Workmanship:

#### i) Proportion:

The proportion of the cement mortar shall be 1:6 (1-Cement, 6-Fine sand) by volume.

#### Wetting of bricks:

The bricks required for masonry shall be thoroughly wetted with clean water for about two hours before use or as directed. The cessation of bubbles, when the bricks are wetted with water is an indication of thorough wetting of bricks.

#### Laying:

Bricks shall be laid in English bond unless directed otherwise. Half or cut bricks shall not be used except when necessary to complete the bond; closer in such case shall be cut to required size and used near the ends of walls.

A layer of mortar shall be spread on full width for suitable length of the lower coarse. Each brick shall first be properly bedded and set frame by gently tapping with handle of trowel or wooden mallet. It's inside face shall be flushed with mortar before the next brick is laid and pressed against it. On completion of coarse the vertical joints shall be fully filled from the top with mortar.

The work shall be taken up truly in plumb. All coarses shall be laid truly horizontal and all vertical joint shall be truly vertical. Vertical joints in alternate coarse shall generally be directly one over the other. the thickness of brick coarse shall be kept uniform.

The brick shall be laid with frog upwards. A set of tools comprising of wooden straight edges, mason's spirit level, square half meter rub, and pins, string and plumb shall be kept on site of work for frequent checking during the progress of work.

Both the faces of walls of thickness greater than 23 cms shall be kept in proper place. All the connected brick work shall be kept not more than one meter over the rest of the work. Where this is not possible, the work shall be raked back according to bond (and not left toothed) at an angle not steeper than 45 degrees.

All fixtures, pipes, outlets of water, hold fasts of doors and windows etc. which are required to be built in wall shall be embedded in cement mortar.

#### Joints:

Bricks shall be so laid that all joints are quite flush with mortar. Thickness of joints shall not expose 12 mm. The face joints shall be raked out as directed by raking tools daily during the progress of work when the mortar is still green so as to provide key for plaster or pointing to done.

The face of brick shall be cleaned the very day on which the work is laid and all mortar dropping removed.

#### Curing:

Green work shall be protected from rain suitably. Masonry work shall be kept moist on all the faces for a period of seven days. The top of masonry work shall be kept well wetted at the close of the day.

#### Proportion of foundation bed:

If the foundation is to be laid directly on the excavated bed, the bed shall be leveled, cleared of all loose materials, cleaned and wetted before string masonry is to be laid on concrete footing, the top of concrete shall be cleaned and moistened. The contractor shall obtain the engineer's approval for the foundation bed before foundation masonry is started. When precast flooring is to be provided flush with the top of plinth, the inside plinth offset shall be kept lower than the outside plinth top by the thickness of the following.

## Mode of measurement & Payment:

The measurement of this item shall be taken for the brick masonry fully completed in foundation upto plinth. The limiting dimensions not exceeding those shown on the plains or as directed shall be final. Battered tapered and curved position shall be measured net.

#### Item No.7, 11 to 14:

Providing and laying cement concrete in M-15 or 1: 2: 4 in nominal mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm. nominal size) curing complete excluding reinforcement for reinforced work in (B) Coping

<u>And</u>

Providing and laying cement concrete in M-20 or 1: 1½: 3 in nominal mix (1 cement: 1½ coarse sand: 3 graded stone aggregate 20 mm. nominal size) curing complete excluding reinforcement for reinforced work in (A) Foundations, footing base, of columns and mass concrete. (C) Slabs, landings shelves, balconies, lintels, chhajja, beams, girders and cantilever. (D) Columns, pillars, posts, and struts (E) Stair case (K) Vertical and horizontal fins upto floor two level including form work.

#### 1.0 Materials:

Water shall conform to M-1, cement shall conform to M-2, Sand shall conform to M-4, Grit shall conform to M-8. Graded stone aggregate 20 mm, nominal size shall conform to M-12.

### 2.0 General:

- 2.1 The concrete mix is not required to be designed by preliminary tests. The proportion of concrete mix shall be 1:1<sup>1</sup>/<sub>2</sub>:3 (1 Cement: 1<sup>1</sup>/<sub>2</sub> coarse sand: 3 graded stone aggregate) 20 mm nominal size) by volume.

  Concrete work shall have exposed concrete surface or as specified in the item
- 2.2 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<sup>1</sup>/<sub>2</sub>:3 and 1:1:2 nominal mix of ordinary concrete by volume respectively.
- 2.3 The ingredients required for ordinary concrete containing one bag of cement of 50 Kg by weight (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)	300 Litres	Generally 1.2 for	
M-150 (1:2:4)	220 Litres	fine aggregate to	
M-200	160 Litres	coarse aggregate by	30 Litres
$(1:1^1/_2:3)$	100 Litres	volume but subject	27 Litres
M-250 (1:1:2)		to an upper limit of	

	1:1.1/2	and	lower	
	limit 1:3			

- 2.4 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.
- 2.5 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.
- 2.6 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.
- 2.8 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.
- 2.9 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 sometimes be as greater as or greater than the minimum cover.
- 2.10 Admixture may be used in concrete only with approval of engineer-incharge 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.

## 3.0 Workmanship:

## 3.1 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 35 x 25 cms, and 40 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.

# 3.2 Mixing:

3.2.1 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.

- 3.2.2 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.
- 3.2.3 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.

## 3.3 Consistency:

3.3.1 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 not used.

## 3.4 Inspection:

- 3.4.1 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.
- 3.4.2 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.

# 3.5. Transporting and Laying:

- 3.5.1 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.
- 3.5.2 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.
- 3.5.3 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.
- 3.5.4 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.

## 3.6 Curing:

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.

# 3.7 Sampling and testing of concrete:

3.7.1. 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 reasonable 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	No.of samples	Quantity of	No.of samples
concrete in the		concrete in the	
work		work.	
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 days. 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.
- 3.7.2. 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 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.

# 3.8 Stripping:

3.8.1. 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 20°C) 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 faces of beams - 24 to 48 hours

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

c) Removal of props slabs:

i) Slabs spanning upto 4.5 mii) Spanning over 4.5 m- 7 days- 14 days

d) Removal of props for beams and arches

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

- 3.8.2. 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 shall inspect the work and satisfy by random checks that concrete produced is of good quality.
- 3.8.3. 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 hours. 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 x 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.

## 4.0. Mode of measurements & payment.

- 4.1. 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.
- 4.2. The rate includes cost of all materials labour, tools and plant requited for missing, 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.

#### <u>Item No.15:</u>

20 mm. thick sand face cement plaster on walls and RCC structure up to height of 10 mt. and above ground level consisting of 12 mm thick backing coating of C.M. 1:3 (1 cement: 3 sand) and 8 mm thick finishing coat in C.M. 1:2 (1 cement: 2 sand) etc. complete

#### Material:

Water shall conform to M-1. Cement Mortar shall conform to M-11

## Workmanship:

The work shall be carried out in the coats. The backing coat (base coat) shall be 12 mm thick in C.M. 1:3. The relevant specification is below:

# Scaffolding:

Wooden bullies, bamboos, planks, treatles and other scaffolding shall be sound. These shall be proper examined before erection and use. Stage scaffolding shall be provided for ceiling plaster which shall be independent of the walls.

# Preparation of background:

The surface shall be cleaned of all dust, loose mortar, droppings, traces of algar, efflorescence and other foreign matter by water or by brushing if it is not hard and by hacking if it is hard. In case of concrete surface, if a chemical retarder has been applied to the form work, the shall be roughed by wire brushing and all the resulting dust and loose particle cleared off and care shall be taken that none of the retarders is left on the surface. Trimming of projections on brick / concrete surfaces where necessary shall be carried out to get on even surface.

Raking of joints in case of masonry where necessary shall be allowed to dry out for sufficient period before carrying out the plaster work.

The work shall not be soaked but only damped evenly before applying the plaster. If the surface becomes dry, such are shall be moistened again.

For external plaster, the plastering operation shall be started from top floor and carried downwards for internal plaster, the plastering operations may be started whenever the building frame and cladding work are ready and the temporary supports of the ceilings on the wall of the floor have been removed. Ceiling plaster shall be completed before starting plaster to walls.

The plaster about 15 x 15 cms shall be first applied horizontally and vertically at not more than 2 meters intervals over the entire surface to serve as gauge. The surfaces of these gauges shall be truly in plane of the finished plastered surface. the mortar shall than be applied in uniform surface slightly more than the specified thickness, then brought to a true surface by marking a wooden straight edge reaching across the gauges with small upward and sideways movements at a time finally the surface shall be finished off true with a trowel or wooden float according as a smooth or a sandy granular texture is required. Excessive troweling or over working the float shall be avoided. All corners, arises angles and junctions shall be truly vertical or horizontal as the case may be and shall be carefully finished. Rounding or chamfering corners, arises junctions etc. shall be carried out with proper templates to the size required.

Cement plaster shall be used half an hour after addition of water, and mortar or plaster which is partially set shall be rejected and removed forthwith from the site.

In suspending the work at the end of the day, the plaster shall be left out clean to the line both horizontally and vertically. When recommencing the plaster, the edges of the old work shall be scrapped clean and wetted with cement putty before plaster is applied to the adjacent areas to enable the two to properly join together. Plastering work shall be closed at the end of the day on the body of features such as plaster bonds and cornices nor at the corners or arises. Horizontal joints in plaster work shall not also occur on parapet tops and copings

as these invariably lead to leakage. No portion of the surface shall be left out initially be packed up later on the outside of the plaster and keeping them wet.

The thickness of back coat shall be 12 mm average. Before the first coat hardens its surface shall be beaten up by edges of wooden tapers and close dents shall be made on the surface. The subsequent coat shall be applied after this coat has been allowed to set for 3 to 5 days depending upon the weather conditions. The surface shall not be allowed to dry during this period.

the second coat be started over right after finishing of plaster. The plaster shall be kept wet for a period of 7 days. During this period, it shall be protected from all damages.

# Mode of measurements & Payments:

The rate shall include the cost of all materials labour and scaffolding etc. involved in the operations described under workmanship.

All plaster shall be measured in square meter unless otherwise specified length, breadth or height shall be measured correct to a centimeter.

Thickness of the plaster shall be exclusive of the thickness of the key i.e. grooves or open joints in brick work, stone work etc. or space between laths. Thickness of plaster shall be average thickness with minimum 10 mm at any point on this surface.

This item includes plastering upto floor two level.

The measurement of wall plastering shall be taken between the walls or partition (dimensions before plastering being taken) for length and from the top of floor or skirting to ceiling for height, depth of cover of cornices, if any, shall be deducted.

Soffits of stairs shall be measured as plastering on ceilings. Elowigns soffits shall be measured separately.

For jambs, soffits, sides, etc. for openings not exceeding 0.5 sq.mt. each in area for ends of joints, beams, posts girders, steps etc. not exceeding 0.5 sq.mt. each in area and for openings exceeding 0.5 sq.mt. and not exceeding 3.00 sq.mt. in each area deductions and additions shall be made in the following manner:

- a) No deductions shall be made for ends of joints, beams, posts etc. and openings not exceeding 0.5 sq.mt. each and no addition shall be made for reverse, jambs, soffits, side etc. of these openings, for finish to plaster around ends of joints, beams, posts etc.
- b) Deductions for openings exceeding 0.5 sq.mt. but not exceeding 3.00 sq.mt. each shall be made as following and no addition shall be made for reverse, joints, soffits, sides, etc. of these openings.
  - i) When both faces of all walls are plastered with same plaster. Deductions shall be made for one face only.

ii)

- For openings having door squares equal to or projecting beyond the thickness of wall. Full deduction for opening shall be made from each plastered face of the wall.
- In case of openings of area above 3 dq.mt. each deduction shall be made for opening but Jambs, soffits and slits shall be measured.
- The rate shall be for a unit of square meter.

### Item No.16:

## <u>Cement Plaster With Neeru + Cement Finish</u>

#### Material:

Water shall confirm to M-1. Cement Mortar shall confirm to M-11

## Workmanship:

12 mm thick cement plaster in single coat in CM 1:3 (1-cement: 3-sand) with a floating coat of neat cement slurry.

# Scaffolding:

Wooden bullies, bamboos, planks, treatles and other scaffolding shall be sound. These shall be proper examined before erection and use. Stage scaffolding shall be provided for ceiling plaster which shall be independent of the walls.

This kind of Plaster is normally for interior side or as specified location by Consultant to be applied as above. NORMAL CEMENT PLASTER and the surface shall be rubbed smooth after coating it with a thick coat of pure Portland cement slurry while the base coat is still fresh. If Neeru plus cement finish is specified floating with neat cement will not be required.

#### Mode of Measurement & Payment:

The rate shall include the cost of all materials labour and scaffolding etc. involved in the operations described under workmanship.

All plaster shall be measured in square meter unless otherwise specified length, breadth or height shall be measured correct to a centimeter.

Thickness of the plaster shall be exclusive of the thickness of the key i.e. grooves or open joints in brick work, stone work etc. or space between laths. Thickness of plaster shall be average thickness with minimum 10 mm at any point on this surface.

This item includes plastering up to floor two level.

The measurement of wall plastering shall be taken between the walls or partition (dimensions before plastering being taken) for length and from the top of floor or skirting to ceiling for height, depth of cover of cornices, if any, shall be deducted.

Soffits of stairs shall be measured as plastering on ceilings. Elowigns soffits shall be measured separately.

For jambs, soffits, sides, etc. for openings not exceeding 0.5 sq.mt. each in area for ends of joints, beams, posts girders, steps etc. not exceeding 0.5 sq.mt. each in area and for openings exceeding 0.5 sq.mt. and not exceeding 3.00 sq.mt. in each area deductions and additions shall be made in the following manner:

- a) No deductions shall be made for ends of joints, beams, posts etc. and openings not exceeding 0.5 sq.mt. each and no addition shall be made for reverse, jambs, soffits, side etc. of these openings, for finish to plaster around ends of joints, beams, posts etc.
- b) Deductions for openings exceeding 0.5 sq.mt. but not exceeding 3.00 sq.mt. each shall be made as following and no addition shall be made for reverse, joints, soffits, sides, etc. of these openings.
  - i) When both faces of all walls are plastered with same plaster. Deductions shall be made for one face only.
  - ii)
- ✓ For openings having door squares equal to or projecting beyond the thickness of wall. Full deduction for opening shall be made from each plastered face of the wall.
- ✓ In case of openings of area above 3 dq.mt. each deduction shall be made for opening but Jambs, soffits and slits shall be measured.

The rate shall be for a unit of square meter.

### <u>Item No.17:</u>

### <u>Iron Work as per drawing and Instructions all complete:</u>

All structural steel shall confirm to IS 266 - Latest edition. The steel shall be free from the defects mentioned in IS 226 (Latest edition) and shall have a smooth finish. The material shall be free from loose mill scale, rust, pits or other defects affecting the strength and durability. River bars shall confirm to IS 1148 Latest edition.

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

The design should be made as per the instructions of engineer-in-charge. The rate includes supplying and welding (along with labours), transportation and fixing in position of the steel work.

The rate shall be for a unit of one Kilogram.

### Item No.18:

3 mm thick galvanized crimped wire mesh chequerred in required span as per specification with angle strip CC 1:2:4 by erection angle in 50x50x8 G with nuts-bolts including red led paint coat and oil paint as per instruction

3.00 mm thick galvanized crimped wire mesh chequered in required height and in span as per instruction by fixing 50x50x8 G angle by preparing the span and 25x6 mm thick steel strip should be fixed at 0.50 m distance vertically in this span and the angle of 50x50x5 mm should be erected at the distance of 2.50 to 3.0 mt in trench of 30x40x45 cm and the prepared span should be fixed with nut, bolt etc and erected in line level. Finally, red led coat shall have to be applied with two coats of oil paint color as per instruction.

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

## Item No.19:

# Apex Color work on Outer side of Wall (Two coats) (with Base Coat) FINISHES

### **EXTENT AND INTENT**

The Contractor shall supply all materials, labour, tools, ladders, scaffolding and other equipment necessary for the completion and protection of all painting / finishing work. Painting & finishing, as herein specified shall be applied to all surfaces requiring painting / finishing throughout the interior and exterior of the buildings as given in the schedule of finishes or elsewhere. The painting / finishing shall be carried out by a specialist workers, approved by the Engineer- in-charge of RMC for this work.

## STORAGE

Storage of materials to be used on the job shall be, only in a single place approved by the Engineer-in-charge of RMC for this work. Such storage place shall not be located within any of the buildings included in the contract.

#### **MATERIALS**

Materials used in the work shall be of manufacture approved by the Engineer-in- charge of RMC for this work, Ready mixed paints, varnishes, enamels, lacquers, stains, paste fillers, distempers and other materials must be delivered to the job site in the original containers, with the seals unbroken and labels intact. Each container shall give the manufacturer's name, type of paint, color of paint and instructions of reducing. Thinning shall be done only in accordance with directions & manufacturer's specification. Remove rejected materials immediately from the premises.

### **SHADES**

All shades, as provided in the shade schedule, shall be approved by the Engineer- in-charge of RMC for this work. The Contractor shall as far as possible use pre- mixed manufacturer's shades and shall prepare sample of the shades selected and submit same for approval by the Engineer-in-charge of RMC for this work. No work is to proceed until the Engineer-in-charge of RMC for this work has given his approval, preferably in writing, of the shade samples.

### COMMENCEMENT OF WORK

Painting / finishing shall not be started until the surfaces to be painted / finished are in a condition fit to receive painting / finishing and so certified by the Engineer-in-charge of RMC for this work.

Painting / finishing work shall be taken in hand only after all other civil work is completed.

Buildings where painting / finishing work is to commenced shall be thoroughly swept and cleaned up before commencement of painting / finishing.

#### SCAFFOLDING

Only double scaffolding having two sets of vertical supports shall be provided for all, painting / finishing work. The supports shall be tied together with horizontal pieces over which the scaffolding planks shall be fixed.

All the vertical and horizontal members of the scaffolding shall be placed sufficiently away from the surfaces to be painted to ensure proper and unit erupted application.

### **WORKMANSHIP**

The workmanship shall be of the very best; all materials evenly spread and smoothly flowed as without running sags, using good quality tools, brushes, etc., as required. Only skilled painters / applicators shall be employed. A properly qualified foreman shall be constantly on the job whilst the work is proceeding. All surfaces to be painted / finished shall be cleaned free of all loose dirt and dust before painting / finishing is started. All work where a coat of material has been applied must be inspected and approved before application of the succeeding specified coat. Each undercoat shall be distinct shade of the approved color.

Before painting / finishing, remove hardware, accessories, plates and similar items or provide portion to all such items. Upon completion of each space, replace all fixtures removed. Remove doors if necessary to paint bottom edge. Use only skilled mechanics for the removal and replacement of above items.

#### **CONCEALED SURFACES**

All interior and exterior trim, door frames, doors, shelving, cabinet work shall be thoroughly and carefully back painted as all surfaces and edges which will be concealed when installed. Such surfaces shall be clean, dry, sanded and properly prepared to receive the paint. Tops, bottom and edges of doors shall be finished same as the rest of the door.

### PROTECT AND CLEAN

The agency shall protect not only his own work at all times, but shall also protect all adjacent work and materials by suitable covering during progress of his work. Upon completion of his work, he shall remove all paint and varnish spots from floors, glass and other surfaces. Any defaced surfaces shall be cleaned and the original finish restored. He shall remove from the

premises all rubbish and accumulated material and shall leave the work in clean, orderly and acceptable conditions.

#### PREPARATION OF SURFACES

<u>PLASTER WORK</u>: Fill all holes, cracks and abrasions with plaster of parish / cement slurry as directed, properly prepared and applied and smoothed off to match adjoining surfaces. Do not use sand paper on plaster surfaces. Plaster shall be allowed to dry for at least 12 (twelve) weeks before the application of paint / finishes.

STEEL AND IRON: All surfaces shall be washed with mineral spirits to remove any dirt or grease before applying paint. Where rust or scale is present, it shall be wire brushed and sand papered clean. All cleaned surfaces shall be given one coat of approved phosphate before prime coat in accordance with the manufacturers, Instructions. Shop coats of paint that have become marred shall be cleaned off, wire brushed, and spot primed over the affected areas.

### **APPLICATION**

The paint shall be continuously stirred in the container so that its consistency is kept uniform throughout.

The painting / finishing shall be laid on evenly and smoothly by means of crossing and laying off, the latter in the direction of the grain of the wood. The crossing and laying off consists of covering the area with paint, brushing the surface hard for the first time and then brushing alternatively in opposite directions, two or three times and then finally brushing lightly in a direction at right angles to the same. In this process no brush marks shall be left after the laying off is finished. The full process of crossing and laying off will constitute one coat.

Where so stipulated, the painting / finishing shall be carried out using spray machines suited for the nature and location of the work to be carried out. Only skilled and experienced workmen shall be employed for this class of work. Paints used shall be brought to the requisite consistency by adding a suitable thinner. Spraying shall be carried out only in dry conditions. No exterior painting / finishing shall be done in damp foggy or rainy weather. Surface to be painted shall be clean, dry, smooth and adequately protected from dampness. Each coat shall be applied in sufficient quantity to obtain complete coverage, shall be well brushed and evenly worked out over the entire surface and into all corners, angles and crevices allowed to thoroughly dry. Second coat shall be of suitable shade to match final color, and shall be approved by the Engineer-in-charge of RMC for this work before final coat is started. Allow at least 48 hours drying time between coats for interior and 7 days for exterior work, and if in the judgment of the Engineer-in-charge of RMC for this work more time is requested it shall be allowed. Finished surfaces shall be protected from dampness and dust until completely dry. Finished work shall be uniform of approved color, smooth and free from runs, sags, defective brushing and clogging. Make edges of paints adjoining materials of colors sharp and clean, without overlapping.

In order to achieve a superior finished surface, putty paste fillers shall be used on, all surfaces to be painted. To fill pores, dents, etc. The putty / paste fillers shall be approved quality and manufacture and shall be applied to the surface with a knife or other sharp edged tools after the priming coat as well as after each undercoat. The surface, after filling with putty / paste tiller, shall be rubbed down with fine sand paper and dusted off before the application of the subsequent coat.

Paste wood filler when set shall be wiped across the grains of the wood and then with the grain to secure a clean surface. Surface to be stained shall be covered with uniform coat of stain wiped off if required.

FINISH: The painted surfaces shall be finished to require texture. Matt finish shall be achieved by use of sponge rollers or stippling brushes as called for.

The rate shall be paid for a unit of one square meter basis.

## Item no.20:

<u>Plastic Emulsion paint (two coats) (Asian Paint, ICI, Dulux, Nerolac, Berger, etc. of approved type (with prime coat):</u>

#### Materials:

The enamel paint shall satisfy in general requirements in specifications of oil paints. Enamel paint shall confirm to I S Latest edition.

### Workmanship:

The materials required for work of painting work shall be obtained directly from approved manufacturer or approved dealer and brought to the site in maker's drum, bags etc. with seal unbroken.

All materials not in actual use shall be kept properly protected, lids of containers shall be kept closed and surface of paint in open or partially open containers covered with a thin layer of turpentine to prevent formation of skin. The materials which have become state or flat due to improper and long storage shall not be used. The paint shall be stirred thoroughly in its container before pouring into small containers. While applying also, the paint shall be continuously stirred in smaller container. No left over paint shall be put back into store tins. When not in use, the containers shall be kept properly closed.

If for any reasons, thinning is necessary, the brand of thinner recommended by the manufacturer shall be used.

The surface to be painted shall be thoroughly cleaned and dusted. All rust, dirt and grease shall be thoroughly removed before painting is started. No painting on exterior or other exposed parts of the work shall be carried out in wet, damp or otherwise unfavourable weather and all the surfaces shall be thoroughly dry before painting work is started.

# Application of paint:

Brushing operations are to be adjusted to the spreading capacity advised by the manufacturer of particular paint. The paint shall be applied evenly and smoothly by means of crossing and laying off. the crossing and laying of consists of covering the area over with paint, brushing the surface hard for the first time over and then brushing alternately in opposite directions two or three times and then finally brushing lightly in a direction at right angels to the same. In this process, no brush marks shall be left after the laying off is finished. The full process of crossing and laying of will constitute one coat.

Each coat shall be allowed to dry completely and lightly rubbed with very fine grade of san paper and loose particles brushed off before next coat is applied. Each coat shall vary slightly in shade and shall be got approved from the engineer-in-charge before next coat is started.

Each coat except the last coat shall be lightly rubbed down with sand paper of fine pumice stone and cleared of dust before the next coat is applied. No hair marks from the brush or clogging of paint puddles in the corners of panels, angles of moulding etc. shall be left on the work.

Special care shall be taken while painting over bolts, nuts, rivets, overlaps etc. Approved best quality brushes shall be used.

## Mode of measurement and payment:

The new steel and other metal surface shall be measured under this item. All the work shall be measured net in the decimal system as executed subject to the following limits unless otherwise stated hereinafter.

- a) Dimensions shall be measured to the nearest 0.01 meter.
- b) Areas shall be worked out to the nearest 0.01 meter.

No deductions shall be made for openings not exceeding 0.5 sq.m. each and no addition shall be made for painting to beddings, moulding, edges, jambs, soffits, sills etc of such opening.

In case of fabricated structural steel and iron work, priming coat of paint shall be included with fabrication. In case of trusses, if measured is sq.m compound griders, stanchions, lattices, girder and similar work, actual are shall be measured and no extra shall be paid for painting on bolts heads, nuts, washers etc. No addition shall be made to the weight calculated for the purpose of measurements of steel and iron works for paint applied on shop or at site.

The different surfaces shall be grouped into one general item, areas of uneven surfaces being converted into equivalent plain areas in accordance with the table given as per Annexure-II for payment.

The rate is including priming coat.

The rate shall be for a unit of one square meter.

## Item No.21:

Painting two coats (including priming coat) on new steel and other metal surfaces with enamel paint, brushing, interior to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.

#### 1.0.Materials:

1.1. The ready mixed paint, brushing, wood primer pink shall confirm to I. S. 3536-1966 (Latest edition).

# 2.0. Workmanship:

- 2.1. Preparation of Surfaces:
- 2.2.1. All wood work shall be dry and free from any foreign matter incidental to building operations. Nails shall be punched well below the surface to provide a firm key for stopping. Mouldings shall be carefully smoothened with abrasive paper and projecting fibres shall be removed. Flat portion shall be smoothened off with abrasive paper used across the grain prior to staining and with the grain prior to staining or if the wood is to be left in its natural colour, wood work which is to be stained may be smoothened to scraping instead of by glass papering if so required.
- 2.2.2. Any knots, resinous or stricaks or blueish sap wood that are not large enough to justify cutting out shall be treated with two coats of pure shellac knotting applied thinly and extended about 25 mm. beyond the actual area requiring treatment.

# 2.2. Application of primer :

- 2.2.1. The relevant specifications of item No. 19.12 (A) shall be followed for application of primer.
- 1.0. Materials: The enamel paint shall confirm to M-44 B.

### 2.0 Workmanship:

- 2.1. General:
- 2.1.1. The materials required for work of painting work shall be obtained directly from approved manufacturers or approved dealer and brought to the site in maker's drums, kegs etc. with seal unbroken.
- 2 1.2. All materials not in actual use, shall be kept properly protected, lids of containers shall be kept closed and surface of paint in open or partially open containers covered with a thin layer of turpentine to prevent formation of skin. The materials which have become stale or flat due to improper and long storage shall not be used. The paint shall be stirred thoroughly in its container before pouring into small containers. While applying also the paint shall be continuously stirred in smaller container. No left over paint shall be put back into stock tins. When not in use, the containers shall be kept properly closed.
- 2.1.3. If for any seasons, thinning is necessary, the brand of thinner recommended by the manufacturer shall be used.
- 2.1.4. The surface to be painted shall be thoroughly cleaned am.' dusted. All rust, dirt and grease shall be thoroughly removed before painting is

started. No painting on exterior or other exposed parts of the work shall be carried out in wet, damp or otherwise unfavourable weather and all the surfaces shall be thoroughly dry before painting work is started.

# 2.2. Application:

- 2.2.1. Brushing operations arc to be adjusted to the spreading capacity advised by the manufacture of particular paint. The paint shall be applied evenly and smoothly by means of crossing and laying off. The crossing and laying off consists of covering the area over with paint, brushing the surface hard for the first lime over and then brushing alternately in opposite directions two or three times and then finally brushing lightly in direction at right angles to the same. In this process, no brush marks shall be left after the laying off is finished. The full process of crossing and laying off will constitute one coat.
- 2.2.2. Each coat shall be allowed to dry completely and lightly rubbed with very fine grade of sand paper and loose particles brushed off before next coat is applied. Each coat shall vary slightly in shade and shall be got approved from Engineer-incharge before next coat is started.
- 2.2.3. Each coat except the last cost shall be lightly rubbed down with sand paper of fine pumice stone and cleaned of dust before the next coat is applied. No hair marks from the brush or clogging of paint puddles in the corners of panels angles of mouldings etc. shall be left on the work.
- 2.2.4. Special care shall be taken while painting over bolts, nuts, rivets, overlaps etc. Approved best quality brushes shall be used.

## 3.0. Mode of measurements & payment:

- 3.1. The relevant specifications of item shall be followed for mode of measurements and payment. The rate is excluding priming coat.
- 3.2. The rate shall be for a unit of one sq. metre.

### Item No.22 AND 23:

14.43, (A) Kota stone (Polished, Green colour) flooring over 25 mm (average) thick base of cement mortar 1: 6 (1 cement: 6 coarse sand,) laid over and jointed with grey cement slurry including rubbing and polishing complete 25 mm. thick

And

<u>Providing and fixing two side polished kota stone with supply and fitting for platform and cupboard.</u>

## 1.0. Materials

1.1. Water shall confirm to M-1. Lime mortar shall confirm to M-10, Cement mortar shall confirm to M-11, Polished kota stone shall confirm to M-49.

## 2.0. Workmanship

2.1. Each slab shall be cut to the required size and shape and fine chisel dressed at all the edges. The sides thus dressed shall have a full contact if a straight edge is laid along. The sides shall be table rubbed with

coarse sand before paving. All angles and edges of the slabs shall be true square and free from chippings and giving a plane surface. The thickness shall be 25 mm. (Average) as specified in this item but not less than 20 mm at any place.

- 2.2. Bedding for the Kota stone slabs shall be of cement mortar 1:6 (1 cement: 6 coarse sand) of average thickness 20 mm as given in the description of the item. Sub grade shall be cleaned, wetted and mopped. Mortar of the specified mix and thickness shall be spread on an area sufficient to receive one kota stone slab. The slab shall then be washed clean before laying. It shall be laid on top pressed, tapped gently to bring it in level with the other slabs. It shall then be lifted and laid aside. Top surface of the mortar shall then be corrected by adding fresh mortar at hollows or depressions. The mortar shall then be allowed to harden bit. Over this Surface, cement slurry of honey like consistency shall be applied. The slab shall then be gently placed in position and tapped with wooden I mallet till it is properly bedded in level. with and close to the adjoining slab. The joint shall be as fine as possible. The slabs fixed in the floor adjoining the walls shall enter not less than 10 mm. under the plaster, skirting or dedo. The junction between wall and floor shall be finished neatly. The finished surface shall be true to levels and slopes as directed.
- 2.3. The floor shall be kept wet for a minimum period of 7 days so that bedding and joints set properly.
- 2.4. Polishing shall be normally commenced after 14 days of laying the stone slab.

First polishing shall be done with carborundum stones of 120 grade grit fitted in the heavy machine and then deacon polishing shall be done with carborundum stone of 220 to 350 grade grit fitted in heavy machine. Water shall be properly used during polishing. The stone shall then be washed clean with water. When directed by the Engineer-incharge; wax polish of approved quality shall be applied on the surface with the help of soft cloth over a clean and dry surface. Then the polishing machine fitted with bobs shall be run over it.

- 2.5. The holes required for Nahni traps, pipes and other fittings shall be made without any extra cost.
- 2.6 The kota stone for platform and c.b. shall be supplied and fixed with two side polished and the work shall have to be completed as per requirement and instructions of engineer in-charge.

### 3.0. Mode of measurements & payment

3.1. The rate shall include the cost of all materials and labour involved in all the operations described above. The kota stone flooring shall be measured in square meters correct to two places of decimal, length and breadth shall be measured correct to a: centimeter and between the finished face of skirting dedo or wall plaster and no deduction shall be made nor extra paid for any opening in floor of areas up to 0.1 sq.mt.

3.2. The rate for item shall be for a unit of one sq. meter

## Item No.24:

IPS Flooring: Providing I.P.S. flooring of about 40 mm. thick using C.M. 1:2 proportion including finishing. tieing. etc. complete as per detailed specification

#### A. Materials Cement Concrete

The cement concrete shall conform to specifications for concrete given in a separate section for ordinary concrete. The maximum size of coarse aggregate shall be 12 mm. The fine aggregate shall consist of properly graded particles.

The proportion of mix shall be 1:2:4 as specified. The minimum amount of mixing water, that will produce a workable mix and will allow finishing, shall be used, generally a w/c ratio of G.S. should suffice. For large works mechanical mixing may be resorted to at the direction of the Engineer-In-Charge.

# B. Laying of I.P.S Flooring

- 1. The sub grade for the concrete floor shall be a bedding of compacted earth and rubble stones soling to the required level. The earth cushion of 300 mm. thick shall be applied using locally available soil. The soil should be properly sieved and free from any gravel, stones etc. This shall be gradually built upto the full thickness using excavated soil if found desirable. The earth cover shall be the uniformly soaked with water without making it slushy. The rubble stones of about 200 to 230 thick size shall be laid over this earth cover in proper position. The rubble laying shall be done such that proper bond is obtained by fitting in closely the adjacent stones by using bond stones. For this proper breaking of points shall be done. The rubble stones shall be carefully laid, hammered down with a wooden mallet into position and solidly bedded. No hollow space shall be left anywhere in the joints. This can be possible by using small chips in the interior to fill interstice between adjacent stones shall be wetted before use.
- 2. The surface of the sub grade shall be cleaned of all loosed materials and moistened immediately before laying the concrete floor. The concrete flooring shall be laid in alternated bays not exceeding 6 sqm. each. The edges of each panel into which the floor is divided should be supported by flat bars of steel or wood duly oiled at least 48 hours elapse before the concreting in the adjacent bays is commenced.

The rate shall be for a unit of one square meter.

### Item No.25:

Supplying the material Dr Fixit/Forsroc new coat and Dr Fixit / Forsroc prime seal as per the required quantity with applying and primer coat with Dr Fixit / Forsroc primeseal and applying three coats of Dr Fixit / Forsroc new coat.

#### Material:

As per the instructions and as approved by engineer in charge.

## Workmanship:

Method of Application Horizontal Joints

Clean the construction joint of loose mortar and dust.

Apply primer as directed (refer section on application of primer), wait for about half and hour until the primer dries a little and becomes "sticky".

Clean hands of dust, oil or grease and dry it.

Unroll the water bar coil slowly and carefully on the joint without pulling and stretching it. Press it to ensure that it sticks to the concrete surface and hugs the profile of the concrete surface.

Remove the protective wrap and pour the concrete.

Apply primer as directed (refer section on application of primer). Wait for about half an hours until the primer dries a little and becomes "sticky".

Clean hands of dust, oil or grease and dry it.

Unroll the water bar coil slowly and carefully on the joint without pulling and stretching it. Press it to ensure that it sticks to the concrete surface and hugs the profile of the concrete surface.

If primer cannot be applied for some reason, hang the waterbar strip from the top by bending over about 150 mm of the waterbar horizontally on the top of the retaining wall. If this is not possible, tie the end of the water bar with binding wire or string to any available projecting rebar and hang the water vertically in position.

The rate for the work will be paid on one square meter basis.

## Item No.26 and 27:

# Providing & fixing 15 mm and 25 mm dia G.I. Pipe with special fittings & fixing with I.S.I mark

## **MATERIALS**

Galvanized mild steel tubes of specified dia. nominal bore shall be as per I.S. 1239-1068. The galvanized fittings, clamps, etc. required for specified dia. bore pipes shall be of best quality and make as approved by the O.O.W.

## WORKMANSHIP

### CUTTING, LAYING AND JOINTING

When the tubes are to be cut or rethreaded, the end shall be carefully filed out so that no obstruction to bore in offered. The ends of the tubes shall then be threaded confirming to the requirements of I.S. 554-1955 with pipe dies and

taps carefully in such a manner as will not result in slackness of joints when the two pieces are screwed together.

The taps and dies shall be used only for straightening screw threads which have become bent or damaged and dies shall not be used for turning of the threads so as to make them slacks as the latter procedure may not result in a watertight joint. The screw threads for tube and fittings shall be protected from edge unit they are fitted.

In jointing the tubes, the inside of the socket and the screwed end of the tubes shall be oiled and smeared with white or red lead and wapping around with a few turns of fine spun yarn round the screwed end of the tube. The end shall then be tightly screwed in the socket, tees, etc. with a pipe wrench. Care shall be taken that all pipes and fittings are properly jointed so as to make the joints completely water tight and pipes are kept at all times free from dust and dirt during fixing. But joints shall be removed after screwing. After laying, the open ends of the pipes shall be temporarily plugged to prevent access of water, soil or any other foreign matter.

Any threads exposed after jointing shall be painted or in the case of underground piping thickly coated with approved anti-corrosive paint to prevent corrosion.

## FIXING OF THE TUBE FITTING TO WALL CEILING AND FLOORS

In case of fixing of tubes and fittings to the walls or ceilings, these shall run on the surface of the wall or ceiling (not in chase) unless otherwise specified. The fixing shall be done by means of standard pattern; holder clamps keepings the pipes about 15 mm, clear of the wall. When it is found necessary to conceal the pipes and when specified so, chasing may be adopted or pipe fixed in ducts or recesses etc. provided that there is sufficient space to work on the pipe with usual tools. The pipe shall not ordinarily be buried in walls or solid floors, where unavoidable, pipes may be buried for short distances provided that adequate protection is given against damages and where so require joints are not buries. Where required M.S. tube sleeve shall be fixed at a place a pipe is passing through a wall or floor for expansion and contraction and other movements. In case the pipe is embedded in walls or floors, it should be painted with anti-corrosive bitumastic paint of approved quality. The pipe should not come in contact with time mortar or lime concrete as the pipe is affected by lime. Under the floors, the pipe shall be laid in layer of sand filling.

All pipes and fittings shall be fixed truly vertical horizontal unless unavoidable. The pipes shall be fixed to walls with standard pattern clamps of required size and shape, one end of which shall be properly plugged or cemented into walls with cement mortar 1:3 (1 Cement: 3 coarse sand) and the other tighten round the pipes to hold it security. These clamps shall be spaced at regular intervals in straight length at 2 M C/C interval in horizontal run and 2.5 M. interval in vertical run. For pipe of 15 mm. dia, the holes in the walls and floors shall be made by drilling with chisel or jumper and not by dismantling the brick work or concrete. However, for bigger diameter pipes, the holes shall be carefully made of the smallest required size. After fixing the pipe

the holes shall be made good with cement mortar 1:3 (1 Cement: 3 Coarse sand) and properly finished to match the adjacent surface.

### **TESTING OF JOINTS**

After laying and jointing, the pipes and fittings shall be inspected under working conditions of pressure and flow. Any joint found leaking shall be redone, and all leaking pipes removed and replaced without extra cost.

The pipes and fittings as they are laid shall be tested to hydraulic pressure of 6 Kg / Sq. cm. The pipe shall be slowly and carefully charged with water allowing all air to escape and avoiding all shock, and water hammer. The draw off takes and stop cock shall then be closed and specified hydraulic pressure shall be applied gradually. The pressure gauge must be accurate. The pipes and fittings shall be tested in sections as the work of laying proceeds keeping the joints exposed for inspection during the testing.

# Mode of Measurements & Paymnts:

The description of each item shall, unless otherwise stated, be held to include where necessary, conveyance, and delivery, handling, unloading, storing, fabrication, hoisting, all labour for finishing to required shape and size, setting, fitting in position, straight, cutting and waste, return of packings etc.

The length shall be measured on running meter basis of finished work. The length shall be taken along the centre line of the pipe and fittings. The pipes fixed to walls, ceiling, floors etc shall be measured and paid under this item.

All the work shall be measured in decimal system as fixed in its place, subject to tolerance given below unless otherwise stated.

- i) Dimension shall be measured to the nearest 0.01 metre.
- ii) Area shall be worked out to the nearest 0.01 sq.metre

All measurements of cuting shall unless otherwise stated be held to include the consequent waste.

In case of fitting of unequal bore, the largest bore shall be measured for the test.

Testing of pipelines, fittings and joints include for providing all plant and appliances necessary for obtaining access to the work to be tested and carrying out the tests.

The rate includes galvanized steel tubing with screwed socket joints, together with all fittings (such as bends, sockets, springs, elbows, tees, crosses, short pieces, clamps and plugs unions etc.) and fixing complete with clamping wall-hooks, wooden plugs etc and also cutting, screwing and waste and for making forged (or hand made) bends on piping as required. Connector shall be inserted, where required or directed. The rate also includes cutting through wals, floors etc and their making good and painting exposed threads with anti-corrisive paint as above and testing. Where tubes are to be fixed to wall, ceiling and flooring, the rate shall not include painting of pipes, providing sleeves and sand filling under floor for which separate payment shall be made.

The rate shall be for a unit of One running meter.

## Item No.28:

# Polythene ball valve 12 mm and 20 mm dia. Fitting & fixing

High pressure Chromium coated Ball valve of shall be of 12 mm and 20 mm size as required to be supplied shall conform to IS: latest edition and fitted as per the instructions of engineer-in-charge.

High pressure Ball valve of size 12/20 mm of screwed type including polythene float and necessary level etc. shall conform to IS: latest edition and fitted as per the instructions of engineer-in-charge.

The payment shall be paid on number basis.

# Item No.29:

# S & F 25mm dia Gunmetal full way valve

The gun metal wheel valve shall be of approved quality. These shall be of gun metal fitted with wheel and shall be of gate valve opening full way and of the size as specified. These shall conform to IS: latest edition.

Valve of 15 mm dia is to be provided and all the necessary fitting and fixing with required material as per the instructions of engineer in charge is to be carried out and complete accordingly.

The rate shall be for a unit of one number.

## Item No.30:

Providing and fixing Brass Wheel valve of 25 mm dia fixing etc complete of I.S.I. mark etc complete.

## **MATERIALS**

The brass check or non return valve shall be fully cleared of all foreign matter before fixing. The fixing of valve shall be done by means of bolts nuts and 3 mm. rubber insertions with flanges of spigot and socketed till pieces, drilled to the same specification as in case of socket and spigot and with flanges in case of flanged pipes. The jointing small be done leak proof.

The ISI Marked Brass full way wheel valve of 25 mm dia shall have to fitted as per instructions of engineer-in-charge.

The rate for this work will paid per Number basis.

## Item No.31:

<u>Providing and fixing Overhead Water Tanks "Sintex" or equivalent of 1000 Liters capacity with all necessary plumbing fittings etc. comp. as directed by Engineer-in-charge.</u>

#### MATERIALS AND WORKMANSHIP:

Overhead water tanks "Sintex" or equivalent of cylindrical vertical tanks with closed top with of self-supported type having approved grade of polyethylene, molded to seamless and suitable for potable water tank of capacity as mentioned in Schedule-B as per company's dimensions provided with G.I. fittings of size 25mm Dia for inlet, outlet, overflow and scour connections and float valves etc. complete placed with all fittings fixing as directed by engineer in charge.

The rate for this work will be paid per number basis.

# Item No.32:

White porselin wash bassin 560/410mm indian make C.I. bracket with fitting cromium platted topes 25cm plastic waste pipe and 12mm pillar cock with comp.

## 1.0: Materials:

1.1. The white glazed earthenware wash basin shall be 560 mm. x 410 mm. of 1<sup>st</sup> quality and make as approved by the Engineer-in-charge. The wash basin shall conform to M-59.

## 2.0 Workmanship:

- 2.1 The wash basin shall be fixed on the wall as and where directed. The wash basin shall be supported on a pair of R.S. or C.I. brackets fixed in C.M.1:3. (1 cement : 3 sand). The bracket shall conform to I.S. : latest edition. The wall plaster on the rear shall be cut to rest the top edge of the wash basin. After fixing the basin, plaster shall be made good and surface finished to match with the existing one. :
- 2.2 The bracket shall be painted white with ready-mixed paint.
- 2.3. The C.I. brass trap and union shall be connected to 32 mm. dia. waste pipewhich shall be suitably bent towards the wall and which shall discharge into an open drain leading to a gully trap. or direct in to the gully-trap on the ground floor and shall be connected to a waste pipe through a floor trap on the upper floors. C.P. brass trap and union may not be provided where the surface drain or a floor trap is placed directly under the basin and the waste is discharged intovertically.
- 2.4. The height of the front edgeof the wash basin from the floor level shall be 80 cms.
- 2.5. The necessary inlet, outlet connections and fittings such as pillar cocks; CP Grass waste trap waste pipe, stop cock, chain wish rubber plug etc. shall be fixed.
- 2.6. The payment of fittings shall be made separately under separate items.

# 3.0: Mode of measurements & payment

3.1. The rate includes cost of all labour, materials, tools and plant etc.

- required for satisfactory completion of this item as specified in workmanship.
- 3.2. The rate shall be for a unit of One number.

### Item No.33:

Providing and fixing to wall ceiling and floor 6 kgs/Sq. CM. workings pressure polythene pipes of the following outside diameter, low density complete with special flange compression type fittings wall clips etc. including making good the wall/ceiling and floor - 110 mm

#### 1.0. Material

1.1. The low density polythene pipe of specified diameter with 6 Kg/Sq. cm. working pressure shall conform to IS. latest edition. The specials and fittings required shall be of best quality.

# 2.0. Workmanship

- 2.1. The PVC. pipes of specified diameter shall be fixed as directed: Due to thermal expansion of rigid PVC pipes, due allowance shall be made particularly in over ground pipe lines for any change in length of pipe line which may occur during installation or when pipe line is in service:
- 2.2. Above ground installation of rigid PVC; pipe should be undertaken after preparations are observed for their protection against direct sun rays and mechanical damage.
- 2.3. The rigid PVC. pipe lines should not be kept exposed above ground when it passes through public places, railway lines, road side and foot paths.
- 2.4. PVC.pipes shall be supported at the following intervals:- 20 mm. dia. 500 mm.- 25 mm. dia. 750 mm.- 32 mm. dia 900 mm:
- 2.5. Close support spacing shall be provided if recommended by the manufacture.
- 2.6. The guide lines indicated by the manufacturer regarding handling, transportation, storing, laying and jointing of pipes shall be kept in view during execution.
- 2.7. PVC pipes shall be fixed on wall with wooden plugs and suitable plastic clamps.

## 2.8. Jointing the pipes:

- 2.8.1. The pipes and sockets shall be accurately cut. The ends of the pipes and fittings should be absolutely free from dirt and dust. The outside surface of the pipes and the inside of the fittings shall then be roughened with emery paper, and then solvent cement joint. Since solvent, cement is aggressive to PVC care must be taken to avoid applying excessive cement to the inside of pipe sockets as any surplus cement cannot be wiped off after jointing. Empty solvent cement tins, brushes, rags, or paper unpregnated with cement should not be buried in the trenches. They should be gathered not left scattered about, as they can prove to be a hazard to animals, which may chew them.
- 2.8.2. If any manufacturer recommends its own methods of jointing the same shall be adopted after necessary approval from the Engineer-in-charge.

- 2.9. Laying pipes in Trenches:
- 2.9.1. The pipes shall be laid over uniform relatively soft fine grained soil found to be free of presence of hard objects such as large flints, rocky projections; large tree roots etc. The width of the trenches shall be minimum width required for working.
- 2.9.2. The pipes laid underground shall not be less than one meter from the ground level. The pipe shall be positioned in the trenches so as to avoid any induced stressed due to deflection. Any deviation required shall be obtained by using proper type of rubber ring joints.

# 3.0. Mode of measurements and payment

- 3.1. The description of each item shall, unless otherwise stated, be held to include where necessary, conveyance, and delivery, handling, unloading, storing, fabrication, hoisting, all labour for finishing to required shape and size, setting, fitting in position, straight, cutting and waste, return of packings etc.
- 3.2. The length shall be measured on running meter basis of finished work. The length shall be taken along the centre line of the ,pipe and fittings. The pipes fixed to walls, ceiling; floors etc. shall be measured and paid under this item.
- 3.3. All the work shall be measured in decimal system as fixed in its place, subject to tolerance given below unless otherwise stated. .
  - (i) Dimension shall be measured to the nearest 0.01 metre.
  - (ii) Area shall be worked out to the nearest 0.01 sq.meter
- 3.4 All measurements of cutting shall unless otherwise stated be held to include the consequent waste.
- 3.5. In case of fitting of unequal bore, the largest bore shall be measured for the test.
- 3.6. Testing of pipe lines, fittings, and joints include for providing all plant and appliances necessary for obtaining access to the work to be tested and carrying out the tests.
- 3.7. The rate includes galvanized steel tubing with screwed socket joints, together with all fittings (such as bends, sockets, springs, elbows, tees, crosses, short pieces, clamps and plugs unions etc.) and fixing complete with clamping wall- hooks, wooden plugs etc. and also cutting, screwing and waste and for making forged (or handmade) bends on piping as required. Connector shall be inserted, where required or directed. The rate also includes cutting through walls, floors etc. and their making good and painting exposed threads with anticorrosive paint as above and testing. Where tubes are to be fixed to wail, ceiling and flooring, the rate shall not include painting of pipes, providing sleeves and sand filling under floor for which separate payment shall be made.
- 3.8. The rate shall be for a unit of One running meter.

### Item No.34:

Providing and laying glazed tiles of 6 mm thick of approved quality (1<sup>st</sup> quality) of required size jointed with cement paste on 10 mm thick cement plaster 1:3 (1-cement3- Coarse sand) pointing white cement and jointed with white cement slurry

#### **MATERIALS**

## **Glazed Tiles**

The tiles shall be of best quality as approved by the Engineer- in-charge. They shall be float and true to shape. They shall be free from cracks, crazing spots, chipped edges and corners. The glazing shall be of uniform shade.

Variation from the stated sizes, other than the thickness of tile shall be plus or minus 1.5 mm. The thickness of tile shall be 6 mm except as above the tiles shall confirm to I.S. Latest edition.

#### **BEDDING**

The sub-grade shall be cleaned, wetted and mopped. The bedding shall then be laid evenly over the surface tamped and corrected to desired level and allowed to harden enough to offer a rigid cushion to tiles and to enable the mason to place wooden planks across and equal on it.

The Color glazed tiles shall be laid on cement mortar bedding of 10 mm thick in C.M. 1:3. The mortar shall have sufficient plasticity for laying and there shall be no hard lumps that would interfere with the evenness of bedding. The base shall be cleared and well wetted. The mortar shall then be spread in thickness not less than 10mm at any place and average 12mm thickness. The proportion of the cement mortar shall be as specified in the item.

#### FIXING TILES

The tiles before laying shall be soaked in water for at least two hours. Neat grey cement grout at 3.3 Kg. / Cement / Sq.Mt. of honey like consistency shall be spread over the mortar bedding as directed. The edges of the tiles are smeared with neat cement slurry. The tiles shall be well pressed and gently tapped with a wooden mallet till they are properly bedded and in level with the adjoining tiles. There shall be no hollows in bed or joints. The joints between the tiles shall be as thin as possible in straight line or as per pattern.

The tiles shall not have staggered joints. The joints shall be true to centre line both ways. The Nahni trap coming in the flooring shall be so positioned that its grating shall replace only one tile as far as possible. Where full size tiles cannot be fixed, they shall be cut (Swan) to the required size and the edges rubbed smooth to ensure straight and true joints. The joints shall bee filled with grey cement grout with wire brush of trowel to a depth of 5mm and loose material removed. White cement shall be used for pointing the joints. After fixing the tile finally in an even plane the flooring shall be kept wet and allowed to nature undisturbed for 7 days.

### **CLEANING**

The surplus cement grout that may have come out of the joints shall be

cleared off before it sets. Once the floor has set, it shall be carefully washed, cleared by dilute acid and dried. Proper precaution and measures shall be taken to ensure that the tiles are not damaged many ways till the completion of the construction.

The rate for this item will be paid on one square meter basis.

# Item No.35:

Flush door 25mm thick with Iron frame for door & window with polishing / oil painting using company viz. kitply / century /dura / everest

# Wooden flush door shutters (solid core):

The solid core type flush door shutters shall be of decorative or non-decorative type as specified in the drawing. The size and thickness of the shutter shall be as specified in drawings or as directed. The timber species for core shall be used as per I.S. Latest edition. The timber shall be free from decay and insect attack. Knots and knot holes less than half the width of cross-section of the members in which they occur may be permitted. Pitch pockets, pitch streaks and harmless pin holes shall be permissible except in the exposed edges of the care members. The commercial plywood, cross-bands shall conform to I.S: latest edition.

The face panel of the shutters shall be formed by gluing by the hot press process on both faces of the care with either, plywood or cross-bands and face veneers. The lipping, rebating, opening of glazing; venetian etc. shall be provided if specified in the drawing.

All edges of the door shutters shall be square. The shutters shall be free from twist of warp in its plant Both faces of the shutters shall be sand papered to smooth even texture.

The shutters shall be tested for:

- 1. **End immersion test**: The test shall be carried out as per I.S. latest edition. There shall be no delamination at the end of the test.
- 2. **Knife test:** The face panel when tested in accordance with I.S. latest edition shall pass the test.
- 3. Glue adhesion test: The flush door shall be testedfor glue adhesive test in accordance with I.S.: latest edition. The shutters shall be considered to have passed the test if no delamination occurs in the glue lines in the plywood and if no single delamination more than 80 mm in length and more than 3 mm in depth has occured in the assembly glue lines between the plywood face and the style and rail. Delamination at the corner shall be measured continously around the corner. Delamination at the knots, knot holes and other permissible wood defects shall not be considered in assessing the sample.

The tolerance in size of solid care type flush door shall be as under: In Nominal thickness  $\pm$  1.2 mm in Nominal height  $\pm$  3 mm.

The thickness of the shutter shall be uniform throughout with a permissible variation of not more than 0:8 mm: when measured at any two points. This wooden shutter must be framed with steel section.

# 2.0. Workmanship

The relevant specifications shall be followed except that the shutters be non decorative type and block board core with face veneer or plywood, with 25 mm thickness.

Readymade shutters shall be of correct size and shall fit into the door or other openings without excessive scrapping of edges. Adding of battens etc., to make up to the size shall not be allowed.

The rate shall be for a unit of one sq.meter.

## Item No.36:

# **Supply & Fixing of Laminates 1mm of Approved Quality**

The Laminates 1mm of Approved Quality shall have to fixing with all the required material of approved quality as per the requirement and instructions of engineer in charge.

The whole work is to be carried out by providing all above and other necessary materials as may be required to complete the item as per requirement and instructions of engineer in charge to his satisfaction.

The rate will be paid for a unit of one square meter basis.

### Item No.37:

Making cupboard with 18 mm plywood which 6 mm ply back side, 0.8 mm white lamination inner side, fixing approved quality sunmica, hinges, stopper etc. 18 mm thick ply with both side lamination for selves. plywood brands - Kitply, Century, Dura, Everest.

The cupboard with 18 mm plywood with 6 mm ply on back side is to be provided and fixed with approved quality material as instructed. 0.8 mm white lamination inner side is to be fixed of approved quality sunmica with hinges, stopper, etc. Both side lamination for selves for 18 mm thick ply is to be done. The Plywood brand shall be Kitply, Century, Dura, Everest. The work as may be instructed by the Site Engineer shall have to be completed.

The rate shall be for a unit of one square meter basis.

#### Item No.38:

Making Table of wooden with sunmica sheet on both side with including all fittings & labour

The wooden table shall have to prepared by providing all the required material of approved quality as per the requirement and instructions of engineer in charge. The size of the table shall be 1.37 X 0.75 X 0.75. The plywood requirement and other details for making the table is as under: Plywood of 18 mm of approved quality and water proof ISI Mark: 56.00 sqm Plywood of 12 mm of approved quality and water proof ISI Mark: 24.00 sqm Plywood of 6 mm of approved quality and water proof ISI Mark: 32.00 sqm

Sunmica 1 mm of approved quality 8'X4' size sheet 2 Nos.

Wooden Dhoka for foot rest and front potion of box for placing the Key-Board

Wooden Bidding patti as per requirement of 1" x 0.25" of 2" x 0.25" Steel Sliding channel of approved quality and make for drawers : 3 Nos.

Necessary Locks of approved quality: 3 Nos.

S S Handle as per instructions: 3 Nos. Hinges of approved quality and size: 2 Nos.

Fevicol: 2 Kg

Nails, Screw, Magnet, Agrotape etc. as per requirement

Rickshaw Trip for bringing of materials - 1 Trip

Applying Oil Paint, Polishing, Astar, etc. for 1 Table including material and labour.

The whole work for preparation of table is to be carried out by providing all above and other necessary materials as may be required to complete the item as per requirement and instructions of engineer in charge to his satisfaction.

The rate will be paid for a unit of one square meter basis.

# <u>Item No.39:</u>

# Supply, Fixing & polishing for Granite flooring work 18mm thick & 200 mm base of lime mortar in proportion lime:sand 1:2

#### 1.0 Materials

1.1. Water shall confirm to M-1. Lime mortar shall confirm to M-10, Cement mortar shall confirm to M-11, Granite Stone shall confirm to M-52.

## 2.0. Workmanship

2.1 Each slab shall be cut to the required size and shape and fine chisel dressed at all the edges. The sides t h u s dressed shall have a full contact if a straight edge is laid along. The sides shall be table rubbed with coarse sand before paving. All angles and edges of the slabs shall be true square and free from chippings and giving a plane surface. The thickness shall be 25 mm. (Average) as specified in this item but not less than 20 mm at any place.

- 2.2 Bedding for the Granite stone slabs shall be of lime mortar 1:2 (1 lime : 2 coarse sand) of average thickness 20 mm. Sub grade shall be cleaned, wetted and mopped. Mortar of the specified mix and thickness shall be spread on an area sufficient to receive one stone slab. The slab shall then be washed clean before laying. It shall be laid on top pressed, tapped gently to bring it in level with the other slabs. It shall then be lifted and laid aside. Top surface of the mortar shall then be corrected by adding fresh mortar at hollows or depressions. The mortar shall then be allowed to harden bit. Over this Surface, cement slurry of honey like consistency shall be applied. The slab shall then be gently placed in position and tapped with wooden I mallet till it is properly bedded in level. with and close to the adjoining slab. The joint shall be as fine as possible. The slabs fixed in the floor adjoining the walls shall enter not less than 10 mm. under the plaster, skirting or dedo. The junction between wall and floor shall be finished neatly. The finished surface shall be true to levels and slopes as directed.
- 2.3 The floor shall be kept wet for a minimum period of 7 days so that bedding and joints set properly.
- 2.4 Polishing shall be normally commenced after 14 days of laying the stone slab. First polishing shall be done with carborundum stones of 120 grade grit fitted in the heavy machine and then second polishing shall be done with carborundum stone of 220 to 350 grade grit fitted in heavy machine. Water shall be properly used during polishing. The stone shall then be washed clean with water. When directed by the Engineer-in-charge; wax polish of approved quality shall be applied on the surface with the help of soft cloth over a clean and dry surface. Then the polishing machine fitted with bobs shall be run over it.
- 2.5 The holes required for Nahni traps, pipes and other fittings shall be made without any extra cost.

## 3.0. Mode of measurements & payment

- 3.1 The rate shall include the cost of all materials and labour involved in all the operations described above. The granite stone flooring shall be measured in square meters correct to two places of decimal, length and breadth shall be measured correct to a: centimeter and between the finished face of skirting dedo or wall plaster and no deduction shall be made nor extra paid for any opening in floor of areas up to 0.1 sq.mt.
- 3.2. The rate shall be paid for a unit of one sq. meter

## Item No.40:

Providing and fixing Colour Anodised Aluminum work for windows ventilators (Two Track, Three Track, Four Track, Fix-Partition, etc), with Extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285 fixed with rawl plugs and screws or with fixing clips or with expansion

hold fastners including necessary filling up of gaps at junctions at top, bottom and sides with required PVC/EPDM/neoprene felt etc. Aluminum sections shall be smooth, rust free, straight, and jointed mechanically wherever required including cleat angle, Aluminum snap beading for glazing/ paneling, CP brass /stainless steel screws, fitting and Necessary fixture, like Bearings, American Handle, stopper, hinges, all complete as per architectural drawings and the directions of Engineer-in-Charge (including Glazing and paneling)

#### **MATERIALS:**

- (1) Fe-310 Closed Structural Steel of Tata or equivalent complying with IS:4923, Minimum Yield Stress of 310 N/mm<sup>2</sup>, Ultimate Tensile Stress of 450 N/mm<sup>2</sup>, and min. elongation 10%.
- (2) Advani High-Strength Welding rods,
- (3) G.I. Bolt-nuts as required,
- (4) Zinc-Chromate Primer,
- (5) Enamel Paint

### PROCEDURE:

Samples selected from each lot should be tested at designated laboratory. Materials brought on site should be inspected for straightness, distortion, rusting and other defects. If the material is found defective, excessively rusted or if it does not comply with the test requirement it will be rejected and shall be immediately removed from site.

Material shall be cut, bent and welded as per given profile on drawings. For welding High Strength Advani Welding Rods of diameter 4 mm and above should be used. Welded joints should be provided with sleeves, slots, plugs as per drawing. All weld slag should be carefully removed, and total weld size specified on drawing be made with multiple runs of weld, taking care to avoid distortion during and after welding. All protrusions from welded junctions will be ground off for smooth appearance. For cutting the member, use sawing or shearing machine. Gas cutting be resorted only as a last resort. All bearing plates should be profile cut and machined. All holes be drilled and files smooth for easy bolting. For foundation bolts and other connections, no gas-cut holes are permitted.

Provide a cover plate min. 3 mm thickness for closing all open ends of hollow sections. Alternatively PVC stoppers made to size for snug fitting on the section might be provided to close the ends. All bolt-heads, stems and nuts be protected by covering with appropriate rust-proof coating.

Prior to transportation to site for erection, two coats of Zinc-Chromate Primer should be applied to all fabricated steel, after scrapping all rust, dirt, stains and weld slag. For members inaccessible to application of paint after erection should be given two coats of approved Enamel Paint of selected shade, prior to erection. Final touch up might be done after erection.

All fabrication should be got inspected at fabrication site prior to application of primer and transportation to site. Corrections, if any, be incorporated before

application of primer.

All fabricated elements be transported to site, lifted to the required level and placed in position, connected with the structure with anchor fasteners, bolts etc. as per design and as directed on site. Final coat of enamel paint shall be given either after fixing other elements like sheets, glass or prior to it as directed.

### **INCLUSIONS:**

Cost of all materials, including steel, connectors, welding, primer, paint and all labor for fabrication, transportation and erection etc. are included. Cost of providing, laying and dismantling templates, bending, wastage, erection jigs, anchor fasteners etc. are included.

#### MODE OF MEASUREMENT:

The rate shall be for a unit of one sq. meter.

## Item No.41:

Inspection chamber with inside dimension 300 mm x 300 mm x 450 mm depth with Cast Iron Air Tight Frame Cover Supplying & Fixing etc. Complete

Providing and constructing inspection chamber as per the type design in brick masonry in C:M 1:3 and outside plastering in C:M 1:3 necessary coping in RCC M200 fixing CI steps and fixing manhole frame and covers over manholes etc. complete, providing and fixing safety chain wherever necessary as per the stipulations in the type design complete.

The rate for this work will be paid per chamber.

#### Item No.42:

Manhole 0.60m/0.60m size 1.20m deep with exavation cement concrete 1:2:4 brick meassonary 1:6 0.30mm thick, foundation cement plaster 1:3, benching 50mm thick, IPS 1:2:4, top 15cm thick CC copping 1:2:4 with quaring finishing (without cover plate)

The said drainage manhole as per drainage type design is to carried out in brick masonry in CM 1:4 and CC in foundation in 1:3:6 including bedding, benching in 1:2:4 and the inside plaster work in niru finishing in CM 1:3 as per drainage drawing is to be carried out whereas the outer plaster in CM 1:3 is to be done with necessary fixing of HDPE reinforced plastic steps of size 385 x 165 x 0.25 mm as per given type design is to be done. Precast RCC manhole frame and cover is to be done 1:1.5:3 by filling coping and fixing work. The work shall be such that there shall not be no leakage in the manhole, in which, the rate for excavation shall be paid separately which is not included the prescribed rate. The frame and cover shall be provided by RMC Store and same shall have to be transported from Store to Site at the cost of contractor and fixing work is to be carried out accordingly, for which, the rate for only fixing work shall be paid.

The rate for manhole shall be for one number in which, the rate for frame and cover shall be paid separately where for additional depth, the rate shall be paid on one running meter basis as shown in Schedule of this tender.

#### THE MANHOLE AND DEPTH OF MANHOLES :-

The manholes on the sewers shall be constructed in the form and of the dimensions shown in the Drawing. The depth of the manholes shall be measured from the top of cover to the invert level of the manhole.

The manholes shall be constructed at places shown on the drawings or whatever directed by the Engineer. Type designs for these manholes are shown on the drawings but the actual type and dimensions shall in each case be determined by the Engineer as the circumstances may require. (Refer drawing No. R.M.C.- DRN - PHASE-III - 01 to 09)

### CONSTRUCTION OF BRICK MASONRY MANHOLES:

The brick masonry shall be constructed as per the type design shown in the drawing enclosed. The various types of manholes to be adopted as per the requirement have been indicated in the L-section and sewer layout drawing in general. The manhole will be fitted with R.C.C. pre-cast medium or heavy duty manhole frame and cover as the case may be. The brick masonary manhole shall be plastered from inside and outside as shown in the drawing and as shown CM proportion and thickness.

#### FLOORS AND 0.80 ID CHANNEL PIPES:

The floor shall consist of cement concrete. Concrete of R.C. 0.80 ID channel pipes of the required size and curves shall be laid and bedded in cement on the concrete base to the same lines and fail as sewers unless otherwise directed. Both sides of the channel pipes shall be trenched up in concrete and rendered in cement mortar 20 mm thick and formed to a slope of not less than 1 in 12 to the channel.

## STEPS:

Where the depth of the invert exceeds 0.90 M below the surface of the ground, HDPE reinforced steps of approved pattern shall be provided as per type design shown in manhole drawings.

# **RATE OF MANHOLES:**

The rate for construction of manhole to be quoted in the bill of quantities shall include complete masonry, structure, concrete cap, plastering with cement from inside and outside, bottom concrete or channels including providing and fixing of HDPE reinforced steps and fixing of R.C.C. manhole frame & covers complete as per type design drawing and cutting the pipes flush with the inside plaster of the wall. The manholes will be paid per numbers up to the minimum depth shown in the type design and for depth beyond the specified minimum depth for a particular type of manhole, extra will be paid per running meter depth. The rates includes dewatering during all stages of construction.

The brick masonry will be paid per number excluding excavation but including masonry, bottom concrete, plastering, benching channel fixing of RCC frame and covers. (Refer R.M.C. DRG for H.C.1, H.C.2)

The rate for item shall be for a unit of one number.

## Item No.43:

RCC precast cover with supply, fitting, fixing with complete as per specification 10 ton size 550/550/90mm.

## **SHAPES AND DIMENSIONS**

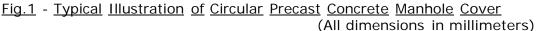
## Shapes

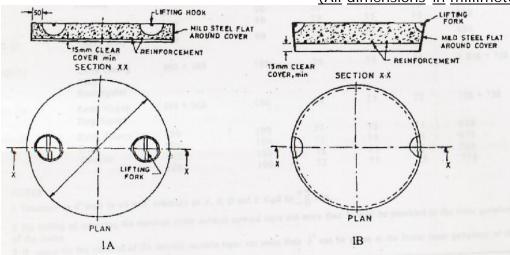
The percent concrete manhole covers and frames shall be of any shape given.

### **Dimensions And Tolerances**

The dimensions and tolerances on dimensions of frames shall be as shown in Table-1 but outside dimensions of cover at top shall match with the corresponding frame so that the maximum clearance at bottom between the frame and the cover all round the periphery is not more than 5 mm and the top surface of the frame and cover is in level within a tolerance of  $\pm 5$  mm.

For facility of removing the cover from the frame, suitable taper matching with taper given for the frame shall be provided to the periphery of the cover (See Fig.1).





# 12.0 DESIGN:

The reinforced concrete manhole cover and frame shall be designed in accordance with the provisions of IS 456. If required by the purchaser, the manufacturer shall furnish the specification and drawings principle given in IS 456 may be followed.

MD-10	Medium Duty	500	70	50	50	50	620
	Circular						

#### **LIFTING HOOKS:**

The minimum diameter of mild steel rod used as lifting device shall be 12 mm for light and medium duty covers and 16 mm for heavy and extra heavy duty covers. The lifting device shall be protected from corrosion by hot dip galvanizing or any other suitable means approved by the purchaser or shall be made of naturally corrosion resistant metal rods.

The lifting arrangement shall be as agreed between the manufacturer and the purchaser. Typical arrangements of lifting devices are shown in Fig.1A and 1B.

#### PHYSICAL REQUIREMENTS: General

All the covers and frames shall be sound and free from cracks and other defects which interferes with the proper placing of the unit or impair the strength or performance of

the units. Minor chippings resulting from the customary method of handling and transportation shall not be deemed ground for rejection.

#### **Dimensions**

The dimensions of the cover and frame shall be as specified in 11.0; the overall dimensions of the units shall be measured in accordance with Annexure-B.

#### **Load Test**

The breaking load of individual units when tested in accordance with the method described in Annex-C shall be not less than the values specified in Table-2. Also, the permanent set shall not exceed the requirement given in Annexure-C.

Table-2 - Test Load and Diameter of Block (Clause 15.3, 18.3 and C.1.1)

Grade of Cover	Туре	Load kN	Diameter of Block mm
1	2	3	4
MD-10	Rectangular, or Circular	100	300

The rate shall be for a unit of one cover and one frame each number.

#### Item No.44:

Providing, Lowering, laying and jointing R.C.C. NP-2 class Spun pipes(collar joint) of 300 diameters with cement joints in C.M. 1:1

# proportion in proper possition, grade and alignment as directed by Engineer-in-charge

#### Sight Rails and Boning Staves:

In laying the pipe sewers and constructing drains, center for each manhole must be marked by a peg. Or Otherwise as may be determined by the Engineer-incharge. The contractor shall then dig holes and set up two posts (about 100mm X 1800mm) at each manhole at nearly equal distance from the center of the manhole. The distance shall be such that they shall be well clear of all intended excavation. They shall be so arranged that a sight-rail when fixed level against the posts will cross the center of the manhole. The posts shall also be so set up that the longitudinal direction of the rail may be as clear as possible to the direction of any of the lines pipes or drains converging to the manhole. If walls of buildings afford suitable means of fixing the sight-rail the post may be dispensed with. The sight-rail, must not in any case be more than 30 M apart. If intermediate rails between two manholes be found necessary, the same shall be put up.

#### Construction of boning staves:

Boning staves shall be prepared by the Contractor about 75mm X 50mm of various lengths, each length being of a certain number of meter and with a fixed tee-head and fixed intermediate cross piece, each about 300mm long. The top-edge of the cross piece must be fixed at a distance below the top-edge of this tee-head, equal to the outside diameter of the pipe or the thickness of the concrete bed to be laid. The boning staff must be marked on both sides to indicate its full length. According to the requirements of each case, a suitable length of boning staff will be fixed and the reduced level of the bed of the pip or bottom of concrete of drain at each sight-rail place added to the selected length of boning staff, and marked by a horizontal line in both posts, or on walls or fences to which the sight-rail is to be fixed.

## Sight Rails:

The sight rails (about 25 mm wide and 40 mm thick) are to be screwed with the top-edge against the level marks. The center line of the pipe sewer or the drain will be marked on the rail and this mark will denote also the meeting point of the center of any converging drains or pipe sewers. Line drawn from the topedge on rail to the top-edge of the next will be vertically parallel with the bed of the sewer or drain at any intermediate point. This could be easily determined by letting down the selected boning staff until the tee-head comes in the line of sight from rail to rail. The posts and rail are to be perfectly square and planned smooth on all sided and edges. The rails are to be painted write on both sides, and the teak- hands and cross pieces of the boning staves are to be painted black. If the pipes or domains converging to a manhole come at different level there must be a rail fixed for every different level. When rail comes within 1.6 M of the surface of the ground a higher sight-rail shall be fixed for use with the rail over the next point. Posts and rails shall in no case be removed until the trench is excavated. The drains are constructed, the pipes are laid and permission given to proceed with the filling in.

## **LOWERING LAYING AND JOINTING OF PIPES:**

Contractor to obtain permission before laying pipe, concrete or Construction of masonry:

When any portion of the excavation shall have been carried out to the necessary depth, the contractor shall obtain permission in the Engineer- incharge before commencing the work of laying of pipes or concrete or the construction of masonry. No sewer pipe shall be allowed to be laid over and parallel to the water supply pipeline. Sewer line shall be laid below the water supply pipeline irrespective of the size of the pipeline.

#### Handing of pipes:

At every point of loading or unloading, pipes or fittings shall be handled by approved lifting tackle. Unloading by rolling down planks or any other form of inclined ramp shall not be allowed unless the written approval of the Engineer-in-charge is obtained regarding the same. Pipes shall be carefully stacked on site with timber packing under and between the pipes without causing nuisance or obstructions to traffic of walkway.

#### Laying:

The pipes shall be laid up the gradient beginning at the lowest end. No pipe shall be laid until the trench has been excavated to its required depth for a distance of 20 M in front of the pipe to be laid (This distance may vary as directed by the Engineer-in-charge). All the pipes shall be laid perfectly true, both in line and in gradient.

The pipes in a trench shall be all laid and fitted previous to the jointing being commenced properly fitted temporary wooden stoppers shall be provided and constantly added to close the ends of all in- completed pipelines. The stoppers are to be removed only when pipes are laid and jointed.

#### Jointing of stoneware glazed with Socket and Spigot Joints:

The laying and jointing of pipes shall conform to IS: 4127 (1967) The pipes shall have socket and spigot joints. The trench shall be checked for proper level, gradient and alignment before lowering the pipes. The laying of the pipes shall properly up-grade of slopes. The socket end shall always be facing the up-stream end of the trench.

All joints shall be filled up with hemp yarn dipped in sufficient quantity of cement slurry, cement mortar 1:1 shall be forced into joint by using cocking tools etc as directed by Engineer-In-Charge until the whole space around the spigot between it and the spigot is full so as to form a neat fillet round the pipe.

The cement mortar joints shall be cured at least for seven days.

#### Jointing of RCC pipe with Socket and Spigot Joints:

The RCC pipe with the rubber ring accurately positioned on the spigot shall be pushed well home into the socket of the previously laid pipe by means of uniformly applied pressure with the aid of a jack or similar appliance. The RCC pipes shall be of spigot and socket type and rubber rings as specified in IS-458-2003, shall be used, and the manufacturer's instructions shall be deemed to

form a part of these specifications. The rubber rings shall be lubricated before making the joint and the lubricant shall be soft soap water or an approved lubricant supplied by the manufacturer.

Socket & Spigot NP3 & NP4 pipe with rubber ring roll on joint for diameter upto 900 mm should be provided as per table 14 of IS 458: 2003. Socket & spigot NP3 & NP4 pipe with rubber ring confined joint for diameter 1000mm to 2600 mm should be provided as per Table - 17 of IS 458: 2003.

#### All works to be Water Tight:

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 at any time during the progress of the works or during the contractor's subsequent period of maintenance shall be immediately made good by the contractor at his own cost. The contractor at his own cost shall have to carry out satisfactory flow test as directed by the Engineer-In-Charge. In case of any dispute in this regard, the decision of Engineer-In-Charge shall be final and binding to the contractor.

## Inspection of joints:

After the joints of any pipes in under ground work have thoroughly set the Engineer-in-charge (or any person whom he may appoint) may inspect the joints and if he has any doubt as to their soundness he may request the contractor to open out and clean the cement. Contractor shall not be required to open more than one joint in 20 M of pipe. However, if the defect is found, the Engineer-in-charge may direct him to open as many joints as he may deem necessary.

#### Cleansing of the pipes:

As soon as a stretch of pipeline whether of stoneware or cast iron or RCC pipes has been completed between two manhole, the contractor shall run through the pipes both backwards and forwards a double disc / solid / closed cylinder 75mm less in dia, than the internal dia of the pipes wherever required and suggested by the Engineer-In- Charge. The open end should be closed as may be directed by the Engineer-in-charge to prevent, entry of mud or silt etc. If as a result of the removal of any obstruction in the pipe line the Engineer-in-charge considers that damages may have been caused to the pipeline, he shall be competent to order the length to be tested at the expense of the contractor. Should such retest prove unsatisfactory the Contractor shall at his own expense amend the work and carry out such further tests as may be required by the Engineer- in-charge. It shall also be ascertained by the Contractor that each stretch from manhole to manhole is absolutely clean and without any obstruction by means of visual examination of the interior of the pipeline suitable illuminated by projecting sunlight or artificial light.

#### **Cracks in Pipes**:

In the event of pipes being cracked after being properly laid either due to improper loads having been encountered or the material of refilling having been improperly selected or because of any other cause, the Contractor in every case shall be held responsible and will be called upon to replace such cracked pipes at his own cost during the expiration of period of maintenance.

Any pipe or length of pipes found to be defective shall be immediately removed and replaced at the Contractor's expense and leaking joints shall be remade. The inspections and tests shall them be repeated as often as necessary until the whole line under inspection or tests is accepted by the Engineer-in-charge.

#### All works to be clear, clean and perfect:

The contractor shall after completion or whenever required by the Engineer- incharge, prove all pipes and fittings to be clear and perfect, for this purpose he shall at his own expense and in the presence of the Engineer-in- charge or his appointee, provide suitable instruments and appliances and pass them through the pipes and if required shall pass water and show that it passes freely through every portion of the work. Brick mortar and rubbish shall not be allowed to fall into the manholes of sewer lines while fixing or if fallen shall be removed by the Contractor at his own expense.

#### Pipe entering and leaving manholes:

Whenever a pipe enters or leaves manhole, the ends of all pipes shall be properly built-in and neatly finished with cement mortar. The pipe projections are to be cut so that the ends are flush with plastered surface of the manhole, nothing extra shall be paid for this. The rate of pipe laying include this work also.

#### Fittings:

The terms fittings as used in this specification is intended to apply to any and every article used in combination with straight pipe itself. In the areas subject to subsidence, the pipe sewer should be laid on suitable supports or concrete cradle supported on piles.

# Measurement of pipe lines:

- (a) All pipelines shall be measured according to the work actually done and no allowance shall be made for sockets and any wastage in cutting to the exact length required. A bend, junction, or any other piece of fitting which may have necessarily been out for the exigencies of the work will be taken into account as if whole, provided that the cutting has been done properly and that portion used in the work is sound. This clause shall not apply to a straight pipe under any circumstances. In measuring the lengths of pipes laid, deductions shall be made for the lengths of channels between the inside faces of the walls of manholes.
- (b) Payment for providing, supplying, lowering, laying, jointing and testing of R.C.C. and SWG pipes shall only be made after laying & Backfilling for the same as under:
  - (i) 90% payment of this item shall be paid after lowering, laying and jointing pipes as per specifications.
  - (ii) Remaining 10% payment shall be paid after satisfactory flow test.
- (c) For providing, lowering, Laying, jointing and testing work, payment shall be made only for completed section between manhole to manhole. No payment shall be made for incomplete sections.

The rate shall be for a unit of one running meter basis.

Item No.45:

Making & fixing of wooden art tree/ board of size 300mm. Dia. Including C.C. of 1:2:4, steel bar 10mm. Dia. 4 Nos. 8mm ring 200mm spacing with chiken mesh/ cement plaster 1:3 with double coat colour etc. complete.

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

The payment will be made for each square meter of wooden art done.

AddI/Asst. Engineer R.M.C.

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

R.M.C.

Signature of Contractor with Seal

# APPROVED MAKES CIVIL-INTERIOR-PLUMBING

Sr. No.	Details of Materials /Equipment	Manufacture's Name
1	ANTI - TERMITE TREATMENT	BAYER-PREMISE, RALLIS INDIA-TERMEX, PEST CONTROL INDIA LTD., IN CASE PCI IS NOT ABLE TO UNDERTAKE THE WORK, IT SHOULD BE DONE BY PERMANENT MEMBERS OF IPCA AS APPROVED BY ENGR -IN-CHARGE.
2	CONCRETE ADDITIVE	SIKA/ / FOSROC / BASF / THERMAX LIMITED / SUPREME
3	GLASS	AIS / ST.GOBIAN / PILKINTON / GOLD PLUS
	GLASS PROCESSOR	GOLD PLUS / TPRS / FUSO
4	ADHESIVE FOR DOOR WORK	FEVICOL/VAMICOL/DUNLOP / ARALDITE
5	CURTAIN ROD/ DARPI ROD	VISTA / DECOR / DECK / HUNTER DOUGLAS
6	ROLLER BLINDS	VISTA / DECOR / DECK / HUNTER DOUGLAS
7	DASH FASTENERS	HILTI /KONCEPT M / FISCHER / BOSCH
8	DOOR LOCKS	DORMA / GEZE / KICH
9	DOORS & WINDOWS FIXTURES/ FITTING	DORMA / GEZE / KICH
10	FLUSH DOOR SHUTTERS NON- DECORATIVE TYPE	SHARDA / GREEN PLY / AIROLAM
11	FLUSH DOOR SHUTTERS DECORATIVE TYPE	SHARDA / GREEN PLY / AIROLAM
12	HARDWARE	DORMA / GEZE / KICH
13	LAMINATES	MARINO/GREENLAM/CENTURY/GREEN/ AIROLAM
14	VINEER	DURO/ GREENLAM / AIROLAM
15	PLYWOOD/ BLOCKBOARD/ PLY BOARD	DURION / CENTURY / GREEN / AIROLAM
16	PRE- LAMINATED PARTICLE BOARD	DURO/ GREENLAM / ARCHIDPLY
17	MDF BOARD	DURO/ GREENLAM / ARCHIDPLY
18	STAINLESS STEEL D- HANDLES	D- LINE / KONCEPT / DORMA / KICH / GEZE
19	VENEERED PARTICLE BOARD	DURO/ GREENPLY/ ARCHIDPLY
20	DEAD LOCK	DORMA / GEZE / HAFFLE / KICH / BECKAR
21	PANIC DEVICE 1 & 2 POINT	DORMA / GEZE / HAFFLE / KICH / BECKAR
22	ACOUSTICAL SEAL	DORMA / GEZE / HAFFLE / KICH / BECKAR
23	DOOR CLOSER	DORMA / GEZE / HAFFLE / KICH / BECKAR
24	DOOR STOPPER	DORMA / GEZE / HAFFLE / KICH / BECKAR
25	TOP & BOTTOM PATCH	DORMA / GEZE / HAFFLE / KICH / BECKAR
26	UPVC DOOR & WINDOW	PSP / NCL WINTECH / LOTUS / ENCRAFT / DECK
27	M.S. STRUCTURAL WORKS	TATA/ RINL/SAIL/ JSPL
28	ANTISTATIC EPOXY FLOOR	FOSROC/ BASF/ CICO/ SIKA/ PIDILITE / THERMAX
29	CERAMIC TILES	JOHNSON / RAK / EMCER / SIMPOLO (SUPPLY TO BE MADE FROM THEIR AUTHORIZED WHOLSALE DEALER)

Sr. No.	Details of Materials /Equipment	Manufacture's Name
30	PVC FLOORING	POLYFLOR / ARMSTRONG / GERFLOOR / FORBO
31	VITRIFIED TILES	JOHNSON / RAK / EMCER / SIMPOLO (SUPPLY TO BE MADE FROM THEIR AUTHORIZED WHOLSALE DEALER)
32	ENGINEERED WOODEN FLOORING / BAMBOO WOOD FLOORING	INTERCRAFTS INDIA / GREENLAM / JUNKER / ARMSTRONG / SQUERFOOT / EPITOME / FLOOR INDIA / ECO PRODUCTS INTERNATIONAL LTD.
33	POLYCARBONATE SHEETS	DPI / GE / Polygel (ALL STANDING SEAMLESS TYPE)
34 35 36	CEMENT BASED PAINTS CEMENT PAINT DRY DISTEMPER	ALL TYPES OF PAINTS I.E. CEMENT BASED PAINTS, OIL BOUND DISTEMPER, ACRYLIC PAINTS, PLASTIC EMULSION PAINTS ETC
37	OIL BOUND DISTEMPER/ACRYLIC WASHABLE DISTEMPER	SHALL BE FIRST QUALITY OF MAKES BERGER, NEROLAC, ULTRATECH, JOTUN,
38	OTHER PAINTS/ PRIMER	SHIRWIN WILLIAMS MAKE, FOR CEMENT BASED PAINT ADD SNOWCEM PLUS AND
39	SYNTHETIC ENAMEL PAINTS	TATACEM MAKE.
40	RESIN BASED PAINTS	TATACEWI WANE.
41	EXTERNAL EMULSION PAINT	BERGER, NEROLAC, ULTRATECH, JOTUN, SHIRWIN WILLIAMS
42	TEXTURE PAINT	BERGER, NEROLAC, ULTRATECH, JOTUN, SHIRWIN WILLIAMS
43	PLASTIC EMULSION PAINT	BERGER, NEROLAC, ULTRATECH, JOTUN, SHIRWIN WILLIAMS
44	EPOXY PAINT	BERGER, NEROLAC, ULTRATECH, JOTUN, SHIRWIN WILLIAMS
45	GYPSUM BOARD	ST. GOBAIN (GYPROC)/ GYPSUM INDIA LTD./ INDIA GYPSUM / LAFFARGE / BORAL / KNOF / GYPSTONE / BERAL GYPSUM
46	METAL FALSE CEILING	INTERCRAFT INDIA / NEWAGE / DURLUM / LINDNER / HUNTEDUGLAS / DEXUNE
47	CALCIUM CILICATE CEILING	INTERCRAFT INDIA / AEROLITE, KNOF- AQUATECH, NEWTONE, MYLAR
48	MINERAL FIBRE CEILING	INTERCRAFT INDIA / NEWAGE / DURLUM / LINDNER / HUNTEDUGLAS / DEXUNE
49	MODULAR SS RAILING SYSTEM	D Line/Q Line / JINDAL/KONCEPT/RINOX/DORMA
50	POLYSULPHIDE SEALANT	BASF / PIDILITE/ FOSROC/ CHOKSEY/ CICO /SIKA
51	MODULAR TOILET CUBICALS	GREENLAM / SONEAR / CENTURY / TRAESPA
52	FIRE DOOR (WOODEN / METAL)	NAVAIR / GODREJ / PROMATE
53	FIRE RATED GLASS	SANTGOBAIN GLASS / PILKINGTON / ASAHI / MODIGUARD / GUARDIAN
54	GRC	BIRLA / SANDERSON / TERRA FIRMA DEVLOPMENTS PVT.LTD. / NITCO
55	REINFORCEMENT BAR	TATA/ RINL/SAIL/ JSPL

Sr. No.	Details of Materials /Equipment	Manufacture's Name
56	WATER PROOFING COMPOUND	BASF / THERMAX / FOSROC / SIKA / SUPREME
57	WEATHER SEALENT	BASF / THERMAX / FOSROC / SIKA / SUPREME
58	EPOXY GROUTING	MYK LATIKRATE / DUBOND / SEMITRONE
59	CLADDING STONE	AS PER APPROVED SAMPLE BY CLEINT/.ITECT/EIC
60	COMPOSITE MARBLE	NITCO/JOHNSON/CLASSIC/STONEX
61	MOSAIC	BISAZZA / PERL / NITCO
62	HPL SHEET WITH ALL ALUMINUM FIXTERES	ARCHIEDLAM / CENTURYLAM / FUNDERMAX / GREENLAM
63	CARPET FLOORING	FLOTEX / MODULYSS / CARUS
64	FALSE FLOORING	UNITILE / ARMSTRONG / FORBO
65	PAVER BLOCK	KK MANHOLES / UNI STONE PRODUCTS (INDIA) PVT. LTD/ HINDUSTAN TILES
66	CEMENT SHEET	EVEREST / RAMCO / KAMDHENU
67	ACOUSTICS PANELLING	HIMALYAN ACOUSTICS / HERA DESIGEN / BAUX
68	FABRIC	D- DECOR / PHIFER / MAK
69	GLASS FILM	3M DINOC FILM, AVERY, GARVEY
70	ARTIFICIAL GRASS	ECOSOFT, NAMGRASS, ETURRF
71	INSULATION BOARD	STYOFOAM,ISO BOARD,FOAMULAR
72	EXTRUDED POLYSTYRENE INSULATION BOARDS	OWENS CORNINGS, DOW CORNING, STYROFOAM,SIKKA
73	ALUMINIUM SECTIONS	HINDALCO /DOMAL/SAPA
74	DOOR CLOSER / FLOOR SPRING	DORMA / GEZE / KICH
75	GLASS DOORS (MOTORISED)	MODI GUARD , ST.GOBIAN, AIS
76	NIGHT LATCH	DORMA / GEZE / . / KICH
77	CEMENT (OPC)	ACC (ASSOCIATED CEMENT CO.)/ULTRA TECH /GUJRAT AMBUJA CEMENT/JK/L&T /JP/CEMENT
78	READY MIX CONCRETE	ACC (ASSOCIATED CEMENT CO.) RMC / ULTRA TECH RMC / NUVOCO RMC (Laffarge Cement) / PRISM RMC (QCI CERTIFIED PLANTS)
79	WHITE CEMENT	BIRLA WHITE / J.K. / GRASIM
80	ACP	ALUCOBOND / RENUBOND / ALPOLIC / ALSTONE
81	MODULAR FURNITURE	FEATHERLITE / HOF / GODREJ / HAWORTH / VITRA / BENE / SPACE DESIGN
82	CHAIR	FEATHERLITE / HOF / GODREJ / HAWORTH / VITRA / BENE / SPACE DESIGN
83	CUSTOMIZE FURNITURE	CASA PARADOX / K2 INDIA / HOUSE OF RARO / CONCEPTS & CREATION
84	COMPACTORS	WIPRO,FEATHERLITE, GODREJ, WALDNER, HNI

Sr. No.	Details of Materials /Equipment	Manufacture's Name
85	EXPANSION JOINT FILLING	THREE R JOINT & SEALS / SAND FIELD / KANTA FLEX / VEXKOLT / CONSTRUCTION SPECIALTIES
86	LAB FURNITURE	KEWAUNEE / WALDNER /CITIZEN / GODREJ / HNI
87	CEMENT BOARD / CEMENT FIBER BOARD	VISAKA INDUSTRES / HIL / EVREST
88	GLASS WOOL	U.P.TWIGA/KIMMCO/ISOVER/JHON MANWILS
89	ROCKWOOL	LLOYD INSULATION / DHANBAD ROCK WOOL INSULATION PVT.LTD./ROXUAL ROCK WOOL
90	ANCHOR FASTNER	HILTI / FISCHER / BOSCH
91	CALCIUM SILICATE BOARDS	HILUX / AEROLITE
92	CALCIUM SILICATE TILES	AEROLITE / HILUX
93	TILES / GRANITE ADHESIVE	FERROUSCRETE / THERMAX / PIDLITE / ULTRATECH / KRRAKOLL
94	COMPRESSED CHEQUERED TILES	JOHNSON / ORIENT / RAK / ASIAN
95	DOOR SEAL – WOOLPILE WEATHER STRIP	ANAND REDDIPLEX/ ENVIROSEAL
96	E.P.D.M GASKETS	ANAND REDDIPLEX / ENVIRO SEALS
97	EPOXY SLF FLOORING	SIKA / STONHARD / STP / PIDILITE
98	FIRE RETARDANT PAINT	VIPER FRS 881 / NULLIFIRE / BURGER / JOPUN / ACKZONODEL
99	FIRE SEAL	SEALZ / ALSTROFLAM / ABACUS / NUPRIN / DORMA
100	FIRE: D-TYPE PULL HANDLES	DORMA / GEZE / INGERSOL / HAFELE / KICH
101	FIRE: HINGES,	DORMA / GEZE / INGERSOL / HAFELE / KICH
102	FIRE: PANIC EXIT DEVICE	DORMA / GEZE / INGERSOL / HAFELE / KICH
103	FIRE: PANIC EXIT TRIM	DORMA / GEZE / INGERSOL / BECKAR FS / HAFELE / KICH
104	FIRE: TOWER BOLTS	DORMA / GEZE / INGERSOL / BECKAR FS
105	GLASS: MIRROR	MODIGUARD / SAINT GOBAIN/ ASAHI INDIA SAFETY / MODI FLOAT / PILKINGTON
106	METALIC LAMINATES	METLAM, HOMAPAL, DEKODUR
107	PRESSED STEEL DOORS FRAME	SUKRI / GODREJ / NAVAIR
108	SILICON SEALANTS /WEATHER SEALANT /STRUCTURAL GLAZING SEALANT	GE- SILICON / PIDILITE / CHOKSEY /WACKER / FORSOC / CICO/DOW CORNING / SIKA
109	STAINLESS STEEL	SALEM STEEL OR AS APPROVED E-IN- CHARGE
110	STAINLESS STEEL BOLTS, WASHERS AND NUTS	KUNDAN / PUJA / KONCEPT
111	STAINLESS STEEL CLAMPS	HILTI /INTELLOTECH /KONCEPT
112	STAINLESS STEEL CP GRATING	CHILLY / CAMRY / KONCEPT
113	STAINLESS STEEL FRICTION STAY	EARL BIHARI / SECURISTYLE / EBCO
114	STAINLESS STEEL PRESSURE PLATESCREWS	KUNDAN/ PUJA/ ATUL/KONCEPT

Sr. No.	Details of Materials /Equipment	Manufacture's Name
115	STAINLESS STEEL SCREW FOR FABRICATION ANDFIXING OF WINDOWS	KUNDAN / PUJA / ATUL/KONCEPT
116	SUPER PLASTICIZER	CICO/PIDILITE INDUSTRIES
117	SUNKEN PORTION TREATMENT	CHOKSEY / SIKA / CICO
118	TILES: GLASS MOSAIC TILES	ITALIAS/ BISAZZA/ PACE INDIA
119	TILES: GLAZED TILES	JOHNSON / RAK / ASIAN / SIMPOLO / NITCO (SUPPLY TO BE MADE FROM THEIR AUTHORIZED WHOLSALE DEALER)
120	VACUUM DEWATERED FLOORING	THREMAX / SUN BUILD / AVCON TECHNICS
121	P U WATER PROOFING	SIKA, PHOSROC
122	T.P.O LAXER W.P.	PHOSROC, SIKA, FIRESTONE
123	ALUMINIUM LOUVERS / FACADES	HUNTER DOUGLAS/LINDNER/CHICAGO/METALS
124	APPROVED INSTALLERS FOR FACADES WORK	GLASS WALL SYSTEMS / AGV ALFAB / HEIGHT CONSULTANTS / ALKARMA / SP FAB
125	WPC ( HYBRID)	MAPAC TECHNOLOGY / ATLANTA / ALSTONE
126	AAC BLOCK	FINE CREATE / ULTRATECH / ECOGREEN / INSTABLOCK / INFRABLOCK
129	HOSPITAL CUBICAL TRACKS AND CURTAINS	TRACKS 2 CURTAINS / MPS / ARISTRA HELTHCARE
130	LOUVRE	HARSONS GREEN / HUNTER DOUGLAS / ARMSTRONG / USG
131	PUF OVER DECK INSOLATION	LLOYD INSULATION / HONEYWELL / ISOLLOYD / BAYER
132	ITALIAN MARBLE	NITCO / CMC KALINGA STONE / A-CLASS MARBLE
133	CORIAN STONE	DUPONT / CRAYON / AVANOITC
134	LINOLEUM FLOORING	ARMSTRONG / TARKETT / DUPOINT / FORBO
135	R.C.C PIPES	OM JI / INDIAN HUME PIPE / PRAGATI CONCRETE UDYOG /ISI MARKED PIPES/DAYA/KK /JSP
136	SFRC MANHOLE COVER	KKM / KK / ARZOO
137	GRASS GRID PAVERS	KKM / KK / ARZOO
138	PVC STRETCHER GUARD	SIO / ARKO / GRADUS
139	PVC CORNER GUARD	SIO / ARKO / GRADUS
140	SS CORNER GOURD	MADE IN INDIA
141	TERRAZZO TILES	NITCO, MODERN, HINDUSTAN.
142	CEMENT CONCRETE TILES	ULTRA, EUROCON, NITCO, DURACRETE
143	PAVEMENT TILES	PAVIT, ASIAN, ULTRA DESIGNER TILES
144	GLASS MOSAIC TILE	CORAL, BISAZZA.
145	WALL PUTTY	BIRLA / J.K / HAWKS PAINTS
146	NON METALLIC HARDENER COMPOUND	CICO, RECRON, FAIRMATE.
147	FRP DOORS	FIBERWAYS TECHNOLOGY / ROOFCLAD INFRA / RV INFRA / FIBREFILL SYSTEMENGINEERS
148	ART WORK	ART INC / ART C / SIMRAN ARTS

Sr.	Details of Materials /Equipment	Manufacture's Name
No.	• •	
149	CURING AGENTS	SIKA/ / FOSROC / BASF / THERMAX LIMITED / SUPREME
150	SHUTRING OIL	SIKA/ / FOSROC / BASF / THERMAX LIMITED / SUPREME
151	GYPSUM PLASTER	FERROUSCRETE / ULTRATECH / KRRAKOLL
152	ALUMINIUM GLASS PARTITION	OTIC / JEB / BENE / LINDNER
153	SIGNAGES INTERNAL	HENRICH / PROTEK / MARC / HARMAN
154	SIGNAGES EXTERNAL	HENRICH / PHILLIPS / GE / PROTEK / HARMAN
155	TOILET CUBICLES	GREENLAM / TRESPA / CENTURY
		LUMBING
1	VITREOUS CHINA SANITARY WARE	KOHLAR / HINDWARE
		/JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT / BOLAN
2	CONCEALED CISTERN	KOHLAR / HINDWARE /JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT / BOLAN
3	PLASTIC W.C. SEATS COVERS	KOHLAR / HINDWARE /JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT / BOLAN
4	STAINLESS STEEL SINKS	KOHLAR / HINDWARE /JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT / BOLAN
5	C.P. FITTINGS & ACCESSORIES	KOHLAR / HINDWARE /JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT / BOLAN
6	CPVC PIPES/FITTINGS AND VALVES	FLOW GUARD / SFMC / ASTERAL / AKG
7	G.I. PIPES /M.S. PIPES IS 1239/3589	JINDAL HISSAR / TATA STEEL / SFMC / SAIL
8	G.I. FITTINGS (MALLEABLE CAST IRON)	ZOLOTO-M / SWASTIK / JINDAL HISSAR
9	SOIL, WASTE WATER PIPES & FITTINGS-	NICO / SFMC PVC UPVC PIPE / KAGECO / FINOLEX
10	SOIL, WASTE & RAIN WATER PIPES & FITTINGS –UPVC.	SUPREME / SFMC PVC UPVC PIPE / FLOW GUARD / ASTERAL / FINOLEX / AKG
11	CHECK VALVES (DUAL SLIM TYPE)	ZOLOTO / AUDCO / CASTLE / ADVANCE
12	BUTTERFLY VALVE	ZOLOTO / AUDCO / CASTLE / ADVANCE
13	BALL VALVES (15 TO 40MM)	ZOLOTO / AUDCO / CASTLE / ADVANCE
14	GATE VALVE	ZOLOTO / AUDCO / CASTLE / ADVANCE
15	GUNMETAL VALVE (FULL WAY VALVE) CLASS-I	ZOLOTO / AUDCO / CASTLE / ADVANCE
16	FOOT VALVE	ZOLOTO / AUDCO / CASTLE / ADVANCE
17	PRESSURE REDUCING VALVE (PRVS)	ZOLOTO / AUDCO / CASTLE / ADVANCE
18	SFRC MANHOLE COVERS ETC	KK MANHOLES / PRAGATI / SUPER WIRE/ADVENT
19	ANTI CORROSIVE TAPE FOR PIPE PROTECTION	PYPKOTE/MAKPOLYKOTE / JONSON
20	GARDEN IRRIGATION SYSTEM	JAIN / HARVEL / TORO / RAINBIRD
21	PUMPS	ARMSTRONG / . / WILLO / . / KIRLOSKAR

Sr. No.	Details of Materials /Equipment	Manufacture's Name
22	CLEAR WATER PUMPS	ARMSTRONG/ ./WILLO / . / KIRLOSKAR
23	SUBMERSIBLE DRAINAGE PUMPS	GRUNDFOSS / WILO / . / KIRLOSKAR
24	FILTER/SOFTENER	IONEXCHANGE, MAHLE FILTER SYSTEM, DENSO
25	PH METER	VATS/ HANNA (ITALY), SENSOREX
26	WATER METER	KAYCEE /SANT/ ZENNER
27	PRESSURE GAUGE	FIEBIG / H GURU / ALTOP
28	AUTOMATIC AIR VENT	DANFOSS / COMFORT / GIACOMINI
29	SOLAR WATER HEATER	GREENTEK / BHEL / EMMVEE / TATA
30	NO- TOUCH SS HAND ELECTRIC HAND DRIER	EURONICS / KOHLAR / ROCA
31	AIR RELEASE VALVE	KIRLOSKAR / VENUS / ZOLOTO
32	BALL COCK	ZOLOTO / L&T / ADVANCE
33	BRASS STOP & BIB COCK	KOHLAR / HINDWARE
		/JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT /
		BOLAN
34	C. I FITTING	ELECTROSTEEL/ KESORAM/ NECO/SKF
35	C.I SLUICE VALVE & NON RETURN	KIRLOSKAR / IVC/ LEADER / ZOLOTO / L&T /
	VALVE	AUDCO / ADVANCE / AIP
36	C.I VALVES (FULL WAY, CHECK AND GLOBE VALVES	KIRLOSKAR / SKF / ZOLTO
37	C.I. MANHOLE COVERS	NECO / HEPCO / SKF
38	C.P. WASTE, SPREADERS, URINAL	KOHLAR / HINDWARE /JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT / BOLAN
39	CENTRIFUGALLY CAST C.I RAINWATER FITTING /BRONZE GRATINGS ETC.	ELECTRO STEEL / KESORAM / NECO
40	CENTRIFUGAL PUMP	CROMPTON /KIRLOSLAR/ ./ WILLO
41	CENTRIFUGALLY C.I RAINWATER INTEL FITTING ,BRONZE GRATINGS	ELECTRO STEEL / KESORAM / NECO
42	CENTRIFUGALLY CASTED C.I. PIPES	NECO / HEPCO / SKF
43	CHLORINATOR	THERMAX LTD / LON EXCHANGE / SIEMENS / SUPREME
44	COCKROACH TRAP	CHILLY / GMGR / CAMRY /SFMC
45	COPPER FITTINGS (CAPILLARY)	YORKSHIRE IMPERIAL, U.K./ MEXFLOW / RAJCO METAL WORKS MUMBAI / CONEX - BENNINGER
46	COPPER PIPES	MEXFLOW, RAJCO METAL WORKS, MUMBAI / CONEX -BENNINGER
47	DUCTILE IRON FITTINGS (IS: 9523)	ELECTROSTEEL/KESORAM/TISCO/JINDAL
48	DUCTILE IRON PIPES (IS:8329)	ELECTROSTEEL/KESORAM/TISCO/JINDAL
49	FILTRATION PLANT / SOFTENING	BIKON WATER / ION EXCHANGE /THERMAX
	PLANT	LIMITED /EUREKA FORBES
50	FLUSH VALVES	ZOLOTO / AUDCO / CASTLE / ADVANCE
51	GRAB BARS AND DISABLED HARDWARE	DORMA / OZONE / D-LINE / SIO

Sr. No.	Details of Materials /Equipment	Manufacture's Name
52	HDPE PIPES / MOULDED FITTINGS	EMCO
		/POLYEFINS/PIONEERPLYFAB/SUPREME/JAIN
		IRRIGATION
53	HDPE SOLUTION TANK	WATCON / ION EXCHANGE / WATER SUPPLY
		SPECIALIST PVT. LTD.
54	HYDRO-PNEUMATIC SYSTEM	WILLO/ GRUNDFOSS / SALMSON / NOCCHI /
		XYLLUM
55	INSULATION OF HOT WATER PIPES	VIDOFLEX INSULATION / SUPERION
		INSULATION KAIFLEX –
		KAIMANN/ARMOFLEX/THERMAFLEX/ ARMACELL
56	LIQUID LEVEL CONTROLLERS /	ADVANCE AUTO / SRIDHAN INTERNATIONAL
30	INDICATORS	/ MINILEC / RADAR / FEMAC / SWITZER
57	LIQUID SOAP DISPENSER	CHILLY/EURONICS/CAMRY/UTEC/KOPAL
58	MAINLINE ISOLATION VALVE	ZOLOTO / AUDCO / CASTLE / ADVANCE
59	MS SADDLE WITH G.I. RISER	HARVEL/ALPRENE/RAIN BIRD, USA
60	NON RETURN VALVE	SANT /LEADER /ZOLOTO/AUDCO/ADVANCE
61	PIPE COAT MATERIAL (PIPE	RPG RAYCHEM/PYPKOTE/MAKPHALT
	PROTECTION)	
62	PP-R PIPES (PN – 16)	SFMC / SUPREME / RELIANCE WETFLOW
63	PRE-COATED GALVANISED STEEL	TATA BLUESCOPE / LLYOD INSULATIONS
	SHEET	INDIA LTD / S.R.METALS
64	PVC CONTINUOUS FILLET FOR	ROOP / ANAND / FOREX PLASTIC/ AKG
	PERIPHERY PACKINGOF GLAZINGS	/NAGALIA/TRADING COMPANY
65	/STRUCTURAL/GLAZING PVC FLUSHING CISTERN	COMMANDER /JOHNSON PEDDER /
03	FVC FEOSITING CISTERN	DURALITE/ GEBERIT
66	PVC PIPES & FITTING SWR SOIL,	PRINCE / SUPREME / FINOLEX /PRAKASH
	WASTE & VENT PIPES AND	SURYA / AKG
	FITTINGS, TYPE B PVC CASING &	
	SCREEN PIPES	
67	PVC WATER STOPS	PRINCE / SUPREME / FINOLEX
68	POLYETHYLENE STORAGE TANK	SINTEX / SFMC / SUPREME
69	R.O. SYSTEM	SSRE Engineering / Thermax / Ion_Exchange
7.0	OFNIGOR ORFRATER AUTO FILIQUINO	/ C-Tech / Siemens
70	SENSOR OPERATED AUTO FLUSHING	KOHLAR / HINDWARE
	SYSTEMURINALS	/JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT / BOLAN
71	SLUICE VALVE / NRV	ZOLOTO / AUDCO / CASTLE / ADVANCE
72	SOLENOID VALVE	RAIN BIRD, USA/TORO/NELSON
73	SS GRATINGS, SOAP DISH TOWEL	CAMRY/GLACIER/GEM
, ,	RAIL ETC.	
74	STONE WARE PIPES & GULLY TRAPS	PERFECT / R.K/ HIND / ANAND
75	SUBMERSIBLE DRAINAGE PUMP	CROMPTON/ KIRLOSKAR/ . /GRUNDFOS/
		MATHER & PLATT / WILO/XYLLUM
76	VALVE BOX	RAIN BIRD, USA/CARSON BROOK,
		USA/DURA,
77	WATER COOLER	VOLTAS/USHA/GODREJ/EUREKA FOBES

Sr. No.	Details of Materials /Equipment	Manufacture's Name
78	WHITE GLAZED FIRE CLAY SINK	KOHLAR / HINDWARE
		/JAQUAR/SOMANY/CERA/ESSCO/ DURAVIT /
		BOLAN

NOTE: ALL MAKES SHALL FURTHER CONFIRM TO STANDARD SPECIFICATIONS OF EACH ITEMS AS MENTIONED IN TECHNICAL SPECIFICATIONS OF TENDER DOCUMENTS.

D. ADDITIONAL CONDITIONS

#### D. ADDITIONAL CONDITIONS:

- 1. The contractor shall have to provide his own level instrument for this work.
- 2. The safety of the traffic and surrounding properties is the prime important factor. As it is the renovation work in existing residential and commercial area the fencing, lighting, covering etc., requires to be provided as per clause 1.1.15. and as per the site requirement. Sign Board shall have to be provided at required locations, so that there will not be any fatal accident.
- 3. In case of any ambiguity found in inspections / drawings, specifications, etc, the decision of engineer-in-charge shall be final and binding to the contractor.
- 4. Rates quoted in Bill of Quantities to cover everything necessary for complete Execution of work :

The rates quoted will be held to cover everything necessary of the due and complete execution of the work according to the drawings and the several conditions and the stipulations of the contract, including specification, or the evident intent and meaning of all or either of them or according to customary usage and for the periodical and final inspection and test and proof of the work in every respect and for measuring, numbering or weighing the same including setting out and laying or fixing in position and the provision of all materials,

Power, tool rammers, beaters, labour, tackle platforms with impervious lapped joints for scaffolding ranging rods, straight edges, centering and boxes, wedges, moulds, templates, post straight rails, boning-staves, measuring rods, page boards, shores, barriers. fencing, lighting, pumping apparatus, temporary arrangements of passage of traffic, access to premises and continuance of drainage, water supply and lighting (if interrupted by the work) lard temporary sheds and buildings nahanis roofed in or otherwise haulage, painting, varnishing, polishing, establishments for efficient supervision and watching arrangements for the efficient protection of life and property and all requisite plant, implements and appliances every kind, except only such matter and things as it may be distinctly stated here in are to be supplied by the contractors. A rate for anyone description of work is to be held to include such items of other classes of and for these on separate specific charge will be admitted. The contractors shall keep every portion of the work clear of accumulation from time to time and shall leave every portion of the work clean, clear, perfect and at the

- conclusion of whole, providing at their own cost all such material implement appliances and labour as the Engineer may require to prove if it is to be so.
- 5. The contractors are particularly directed to observe from the Articles of Agreement and the specifications, what is to be included in their rates for the several portions of the work and also under what conditions payments are to be made.
- 6. The contractor shall have to avail P F Code as per the prevailing Circular of Government for the employees on work. The process for preparation of bill will be taken up only after submission of the Challan for the amount of P.F. deposited every month for the employees on work, which will binding to the contractor. The required documents shall have to be submitted every month by the contractor to the competent authority.
- 7. The contractor shall have to get registered under ESI (Employer's State Insurance) Act and obtain ESI Registration number if the number of workers are 10 Nos. or more. Also, the agency shall have to give all the benefits to the workers as available under the ESI Act. The agency should follow all the rules and regulations of ESI Act as per prevailing norms.
- 8. This office Circular bearing No.RMC/C/329 dated 22-12-2012 and Order No.RMC/C/132 dated 10-06-2013 are uploaded separately as a part of tender document. The Contractors/Consultants quoting their rates shall have to read, implement, and submit the same duly signed along with the documents to be submitted during physical submission.
- 9. In reference to the above Circular and Order cited para above, the Contractors/Consultant who have quoted their rates for this work will be called in person for verification of original documents. The date and time for verification of original documents will be as prescribed in the tender document.
- 10. After issuance of work order for this tender, if the work falls under any kind of dispute then Rajkot Municipal Corporation reserves the right to terminate the contract for this work awarded to the contractor or execute part work. The decision of Rajkot Municipal Corporation in this regard will be final and binding to the contractor.
- 11. Till the Completion Certificate is issued by Rajkot Municipal Corporation, the agency will be the sole responsible for security of material and structure at site.

- 12. The quantities given in the Schedules are provisional. The Rajkot Municipal Corporation reserves the right to increase or decrease the quantity of work or totally omit any item work and the contractor shall not be entitled to claim any extras or damages on these grounds & he is bound to execute the work as per the instruction of the Engineer-in-charge. Rajkot Municipal Corporation will not entertain any dispute in this regard.
- 13. It is further clarified that Performance Guarantee (SD) for extra work will also be recovered @ 10% from the bill of extra work i.e. works beyond tender amount.
- 14. The bidder must understand clearly that the prices quoted are for the totally works or the part of the total works quoted for and include all costs due to materials, labour, equipments, supervision, other services, royalties, taxes, duties, etc., and to include all extra to cover the cost. No claim for additional payment beyond the prices quoted will be entertained and the bidder will not be entitled subsequently to make any claim on any ground.
- 15. Qualified engineer must be deployed on site and at Plant. The details of qualified engineers are to be given to RMC at the time of bidding of this tender.
- 16. If any irregularities found during the work then penalty will be imposed by Engineer-in-charge or any higher officer. If any disputes arises regarding penalty imposed by Engineer-in-charge then decision of Municipal Commissioner will be final and binding to agency.
- 17. The time limit will remain same as mentioned in the tender document and the work is to be completed accordingly.
- 18. Tender of such Contractor not having registration in appropriate Class and Category, will be treated as non-responsive. In case of any conflicting provisions between registration of appropriate category and Pre-qualification criteria, the later shall govern the process of bid evaluation.
- 19. The agency shall have to quote their rates only after visiting the site and looking to the site conditions.
- 20. DEFECTS: Date of completion for start of defect liability period for the entire work will be considered as the last date mentioned in the completion of work recorded in Measurement Book. The contractor shall be required to make good all the damages/ defects identified and conveyed to him, during the entire defect liability period. The

method and time limit of rectification will be decided by the Engineer in charge. If the contractor fails to carry out rectification as per the instructions, the same will be carried out at his cost and the cost will be recovered from the amount retained.

- 21. Joint venture shall not be allowed under this tender.
- 22. After the completion of work, at the interval of every three months, joint inspection must be done by the agency and RMC staff and then agency has to submit the report stating the condition of work to Rajkot Municipal Corporation. The final checking report stating the condition of work is also to be submitted by the agency before one month of the expiry of defect liability period to the competent authority.
- 23. The Royalty of each and every material, required to be paid is to be borne by the contractor.
- 24. Testing of each material as and when required by Rajkot Municipal Corporation, is to be carried out in Government approved laboratory by the contractor at his own cost. Schedule of testing of material will be as per R&B, State Government Manual and I S Code provision.
- 25. Necessary tests for material quality, soil tests etc. shall be carried out as per the instructions of engineer-in-charge by contractor at his own cost and reports to be submitted to the engineer-in-charge.
- 26. As this work is to be done in existing structure and also keeping in mind surrounding properties, all due precautions should be taken so that no damage occurs to any of the services like; water connection, drainage connection, water pipeline, drainage line or any other services. However, if any damage occurs to any of such service(s) then the contractor shall have to carry out necessary repairs immediately and satisfactorily, at his own cost.
- 27. Wherever the rolling with the road roller is not possible on metalling work and murrum work, the compaction with hand roller or by any other means at such places shall have to be carried out by the contractor satisfactorily as per instructions of engineer-in-charge.
- 28. The Contractor shall carry out modifications in the procedure of work, if found necessary, as directed by the Engineer during inspection. Works falling short of quality shall be rectified / redone by the Contractor at his own cost, and defective work shall also be removed from the site of works by the Contractor at his own cost.

- 29. Defective Materials: All materials which the Engineer / his representative has determined as not confirming to the requirements of the Contract shall be rejected whether in place or not; they shall be removed immediately from the site as directed. Materials, which have been subsequently corrected, shall not be used in the work unless approval is accorded in writing by the Engineer. Upon failure of the Contractor to comply with any order of the Engineer / his representative given under this clause, the Engineer-in-charge shall have authority to cause the removal of rejected material and to deduct the removal cost thereof from any payments due to the contractor.
- 30. The Defect Liability period for this work is 26 Months. After completion of work, a report at the interval of every six months by way of joint inspection shall have to be submitted to the competent authority. The portion which is observed defective / damaged by normal cause during the joint inspection shall have to be repaired/rectified and necessary evidence along with photographs shall also have to be submitted to the competent authority.
- 31. The agency shall have to get interior done from the approved Architect / Engineer and also to get approved from engineer-in-charge. The agency shall have to get the approval within a period of 7 (Seevn) days.
- 32. The Plans got prepared by the agency shall have to be get the design done from the Structural Engineer, the cost of which also is to be borne by the agency.
- 33. The work order will be given only after getting the preliminary approval from Town Planning Department.
- 34. Providing and fixing of precast RCC slab and column shall have to be carried out in line and level.
- 35. For excavation of trench, use of JCB machine will not be permitted directly on the top surface of the road. After excavation up to minimum 1.00 mt. depth from road surface or existing ground level, same shall have to be carried out manually or by using Breaker and after locating underground services like; water supply pipeline, water connection lines, pipe gutters, telephone cables, electric cables etc., and thereafter upon taking the prior approval of the Engineer-In-Charge, the excavation can be carried out by using JCB machine.
- 36. Rajkot Municipal Corporation shall recommend to the competent authority to give Controlled Blasting License to the contractor for

carrying out excavation in hard rock. In case of blasting license not permissible from the competent authority in some places then excavation is to be done by using wedges and hammers, chiseling, breakers, pneumatic tools, etc. Also in case where blasting license is permitted but even then if there is no possibility of carrying out the blasting for whatsoever reason, the excavation is to be done by using Wedges and hammers, chiseling, breakers, pneumatic tools etc. No extra payment shall be made for excavation to be carried out in any of the above mentioned both the situations.

- 37. Excavation in soft rock and hard rock shall have to be carried out only by Chiseling, Breaker (pneumatic tools) etc., as far as possible. If excavation is not possible in terms of above and if excavation is required to be carried out with the help of blasting then the same shall have to be carried out only after taking prior approval and necessary license for blasting from the competent authority.
- 38. In case of excavation not possible manually or by chiseling in certain place(s) as well as if blasting is also not possible due to various reasons i.e. to avoid damage to nearby water pipeline, pipe gutter, telephone cables / Duct, Raw houses / week buildings / narrow street etc., then the excavation by blasting will not be permitted. Under these circumstances, excavation shall have to be carried out only by Breaker (pneumatic tools) as per the instructions of the Engineer-In-Charge. No extra payment will be made for such type of excavation done by using Breaker. The rate for excavation shall be paid as per the rate of related item mentioned in Schedule-B.
- 39. Regarding the width of excavation, as (a) it is difficult to carry out the vertical trench excavation, (b) possibility of sliding the soil, and (c) uneven excavation trench width in case of blasting. In this connection, for every 1.5 mt lift if there is less width up to 5 cm at the bottom then the top width of excavated trench, it shall be considered as per the specified trench width or actual trench width carried out at the ground level by the contractor whichever is less. If excavation is carried out more than the specified width then the payment will be made only for the specified width of excavation.
- 40. After entering into an agreement, the agency shall have to finalize the agency for supply of the material like Precast RCC slab and column and the name of manufacturer / supplier should immediately be informed to Rajkot Municipal Corporation so that Rajkot Municipal Corporation can also expedite the manufacturer / supplier for the material. If necessary, Rajkot Municipal Corporation will visit and inspect the factory. During the inspection, if Rajkot Municipal Corporation is not satisfied then the contractor shall have

- to procure the material from other manufacturer(s).
- 41. During construction activity, proper care must be taken for labor safety and all the provisions of the labor laws must be followed by the contractor.
- 42. The G.A. Drawings and other Drawings as provided at present with the tender document are indicative, however, there is possibility of any change or modification in the said drawing and as such the contractor shall have to carry out the work accordingly at the approved rates without any extra cost.
- 43. The contracting Agency then has to prepare bar bending schedule as per Structural Drawings and submit it to RMC after then RMC shall permit to work to start. Structure design is in the scope of work of contractor and its cost is to be borne by the contractor. The structure designer should be RMC license holder. The proof check of the structure design should be done by one of the structure designers, as suggested by RMC. (If the structure designer is suggested by RMC, then the proof check is not needed.) Bar Bending Schedule, register shall be maintained on site with the details of cut length of bar. The certificate for same shall be denoted in Pour Card.
- 44. Contract Agency has to provide a Site Office Room, a separate Laboratory included with necessary lab instruments for slump test, sieve analysis, etc. whatever suggested by Site Engineer in charge on site premises. There shall be provision of minimum 24 cube mould of 15 x 15 x 15 cm size and 12 mould of 7.5 x 7.5 x 7.5 cm. There shall be a provision of necessary stationary & Furniture. The periodical calibration of instruments like weigh batch Plant, Electronic Balance etc. shall be carried out as per instruction of Engineer in Charge. Without satisfactory report for the same the work may not be continued.
- 45. The Mix Design of Cement Concrete shall be revised submitted with respect to changes in Materials like Cement, Sand, Aggregate
- 46. The Final Completion Drawings shall be submitted in hard copy and as Auto Cad format by Agency. If the same is not submitted, the permanent deposit 0.25 % of Final Bill amount will be deducted from Final bill.
- 47. After the drawings for the proposed work are finalized by RMC, the agency has to submit the same to qualified & experienced structure engineer.
- 48. The agency has to submit the approved & signed copies of structure

- design 3 sets to Rajkot Municipal Corporation
- 49. Additional alternation changes during the work shall has to be incorporated in the structure drawing & shall be re submitted to Rajkot Municipal Corporation accordingly.
- 50. The contracting Agency then has to prepare bar bending schedule, submit it to Rajkot Municipal Corporation. & After checking the bar bending schedule, then Rajkot Municipal Corporation shall permit to work to start.
- 51. Approval to the samples of various materials given by the Engineer-in-charge shall not absolve the contractor from the responsibility of replacing defective material brought on site of materials used in the work found defective at a later date. The contractor shall have no claim to any payment of compensation whatsoever on account of any such materials being rejected by the Engineer-in-charge.
- 52. The agency has to facilitate the Town Planning department in all respective terms and has to provide all the required items as instructed by a surveyor of Town planning Dept. The items which are required for demarcation are colors, Tags, Nails, labors and agency will also be responsible for cleaning of the plot without any extra cost.
- 53. The agency has to create the passage/access to the plot where the work is supposed to start. If in case the access to plot is restricted by any farming land, then the agency has to take a proper arrangement for passage and whatever the cost occurred in the construction of the passage, the agency has to pay the cost of its own.
- 54. The compound wall has to be constructed with the proper guidance by the Engineer- in- charge, such as if the land has difference in the level (irregular topography), then the agency has to construct the compound wall in the step pattern form.
- 55. The top of the precast wall will be either in Semi-circular or triangular whichever instructed by the Engineer-in-charge. The Measurement of the Semi-circular or triangular item of the precast wall will be taken from the middle of the section of the item.
- 56. If in case the Semi-circular or triangular item of the precast wall will not be fixed, then the agency has to keep the top section of precast pole empty, without any curtailment in the height of the pole. But the measurement will be counted only for the constructed slabs.

- 57. In the precast wall, either the cement mortar in the ratio of 1:1 or Standard chemical mortar to be filled in Groove i.e. the area between two precast slabs and the area between the slabs and pole, whichever instructed by the Engineer- in- charge.
- 58. The restoration work for the excavation done is to be carried out immediately as per the instructions of engineer in charge. The excess material shall have to be disposed with no extra cost at the site specified by engineer-in-charge.

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

CITY ENGINEER
Rajkot Municipal Corporation

Signature of Contractor with Seal

# Raikot Municipal Corporation

#### :: SPECIAL CONDITIONS ::

- 1. The Royalty of each and every material, required to be paid is to be borne by the contractor.
- 2. Testing of each material as and when required by Rajkot Municipal Corporation, is to be carried out by the contractor at his own cost. Schedule of testing of material will be as per R&B, State Government Manual and I S Code provision.
- The whole work shall be executed by qualified Site Engineer. The required L- Section and Cross section is to be prepared by contractor at his own cost. The work should be done by levelling instrument. The Drawings shall be submitted accordingly in advance before starting the work. No extra payment will be made for the above work. Contractor has to submit Bill form with hard copy and soft copy of cross section and L-section of work completed. No bill will be accepted without above drawings.
- 4. Necessary tests for material quality, Paving Blocks, soil tests etc. shall be carried out as per the instructions of engineer-in-charge by contractor at his own cost and reports to be submitted to the engineer-in-charge.
- 5. The contractor shall have to get registered under ESI (Employer's State Insurance) Act and obtain ESI Registration number if the number of workers are 10 Nos. or more. Also, the agency shall have to give all the benefits to the workers as available under the ESI Act. The agency should follow all the rules and regulations of ESI Act as per prevailing norms.
- 6. The testing of metal and the design as per IRC shall have to be carried out by the contractor at his own cost.
- 7. Structure design is to be prepared by contractor and after approval of engineer-in-charge the work can be started.
- 8. Agency intending to carry out excavation will be able to carry out excavation / digging only after prior intimation through "Call before U Dig" mobile application.

CITY ENGINEER
Rajkot Municipal Corporation

Signature of Contractor with Seal

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

BID FORM(WITH PRICE)

CONTRACT No: RMC/ENGG/EZ/23-24/159

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

The Commissioner
Rajkot Municipal Corporation
Dr. Ambedkar Bhavan
Dhebar Road
Rajkot

Dear Sir,

# SUB: CONSTRUCTION OF TWO-WAY GATES AT DIFFERENT TWO LOCATIONS OF SAFARI PARK

1. Having visited the site and examined the Bid Documents, Drawings, Conditions of Contract, Specifications, Schedules, Annexures, Preamble to Price Schedules, Price Schedules etc. including Addenda/Amendments to the above, for the execution of the above Contract, we the undersigned offer to carry out as given in Conditions of Contract and in conformity with the Drawings, Conditions of Contract, Specifications, Preamble to Price Schedules, Price Schedules, Annexures, Bidding Documents, including Addenda Nos.\_\_\_\_\_\_(insert numbers) for \_\_\_\_\_\_%age (in figure)

(in words) below / above than the rates given in Price Schedule.

## 2. I / We agree that

(a) if we fail to provide required facilities to the Employer's representative or any other person/agency by the employer to perform on his behalf for carrying out the inspection and testing of materials and workmanship

OR

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

OR

(c) if we fail to deliver raw water of required quantity according to the conditions/stipulations of the Contract, the Engineer will be at liberty to take any action including termination of Contract and impose at his absolute discretion any penalties, and/or reject the work.

- 3. We undertake, if our Bid is accepted, to complete and deliver the Works in accordance with the Contract within **6 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 180 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 thisday of	20	
Company Seal	(Signature)	
company coal	(Name of the person)	
(Name of firm) Duly authorised to sign Bid for and on behalf of (Fill in block capitals)	(In the capacity of)	
Witness Signature Name Address		

# PREAMBLE TO PRICE SCHEDULES

# Note on Schedule:

The bid is percentage rate bid for CONSTRUCTION OF TWO-WAY GATES AT DIFFERENT TWO LOCATIONS OF SAFARI PARK.

- 1. The bid is percentage rate bid.
- 2. The rates and prices shall be submitted in the formats given in the online Price Schedules. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
- It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
- 4. In Price Schedule, bidder shall quote his percentage Equal/Above/Below for items listed in the schedule. Prices quoted in Schedule only will be considered for price evaluation & shall form a part of the Contract Agreement.
- 5. The Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
- 6. The bidder shall be deemed to have allowed in his price for provision, maintenance and final removal of all temporary works of whatsoever nature required for construction including temporary bunds, diverting water, pumping, dewatering etc. for the proper execution of works. The rates shall also be deemed to include any works and setting out that may be required to be carried out for laying out of all the works involved.
- 7. Where there is a discrepancy between the unit rates and the amount entered, the latter shall govern.
- 8. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.
- 9. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.
- The bidder shall interpret the data furnished and carry out any additional survey work, or investigative work required at his own cost.
- 11. The prices quoted shall also include the cost of materials utilized for testing.

- 12. The bidder should acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to worksites at his own cost. These accesses will be used by the other contractors working for RMC.
- 13. The material shall be inspected Departmentally, the cost of which, if any, is to be borne by contractor.
- 14. **Bidder has to quote their rates without GST** and including other taxes. The invoice should be submitted by contractor showing the breakup of GST in the bill. GST will be paid extra at the prevailing rate at the time of execution.

The contractor shall have to purchase the material required for this tender work, only from the supplier having registered GST Number. RMC will not be responsible to pay any amount towards GST if the material is purchased from the unregistered supplier not having GST Number.

- 15. In case of extra item work if quoted and approved tender price is above Percentage Rate then no above percentage rate will be given, only the rates as per S.O.R. will be paid for such extra item. But, if the quoted and approved tender price is below percentage rate then that below percentage rate will be considered for paying of any extra item.
- 16. The whole work is to be done under the supervision of RMC.
- 17. The rates and prices shall be submitted in the formats given in the enclosed Price Schedules. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
- 18. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
- 19. In Price Schedule, bidder shall quote his percentage Equal/Above/Below for items listed in the schedule. Prices quoted in Schedule only will be considered for price evaluation & shall form a part of the Contract Agreement.
- 20. Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
- 21. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of

- these bid documents and these documents are to be taken as mutually explanatory of one another.
- 22. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.
- 23. The bidder shall interpret the data furnished and carry out any additional survey work, or investigation work required at his own cost.
- 24. The prices quoted shall also include the cost of materials utilized for testing.
- 25. The bidder should acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to worksites at his own cost. These accesses will be used by the other contractors working for RMC.
- 26. From each Running Account Bill, labour cess will be deducted as per norms.
- 27. In Every running bill 0.25% amount shall be retained as extra security deposit if Drawings of work done are not submitted by agency.
- 28. The quoted rates should be inclusive of all taxes and duties.
- 29. The prices shall have to be quoted firm & fix including all the taxes & duties without any statutory variation. RMC will not consider any statutory variation as well as the price rise in the market and if any, those shall be on account of contractor.
- 30. The work contract tax will be borne by the agency.
- 31. While considering experience of ongoing sewer/storm water pipeline works, part work completed in all respect will be considered for evaluation of bid. In this regard contractor shall be required to submit part completion certificate along with bid document from competent authority.
- 32. Use of ready mix concrete may be permitted if it fulfils tender specifications.
- 33. No extra item or extra width will be paid due to excavating method or type of machinery.

- 34. For any type of license regarding labour, etc. has to be achieved by agency.
- 35. This office Circular bearing No. RMC/C/329 dated 22-12-2012 and Order No. RMC/C/132 dated 10-06-2013 are uploaded in tender document.
- 36. In reference to the above Circular and Order cited at above, the Contractor firm who have quoted their rates for this work will be called in person for verification of original documents. The date and time for verification of original documents will be intimated to the Contractors.
- 37. If the progress of work is found slow then Extra security Deposit may be recovered from any running bill as decided by Engineer in charge up to maximum 5% amount of concerned R.A. Bill amount.
- 38. In case of Extra Item, No "On" %age i.e. +ve % age Rate will be given but if there is Down %age i.e, -ve % age Rate that will be applied to that rate of that Extra Item.

CITY ENGINEER
Rajkot Municipal Corporation

Signature of Contractor with Seal

Check List for submission of Documents	
Tender Fee submitted as per Tender	Yes / No
Tender Earnest Money Deposit submitted as per Tender	Yes / No
Registration documents submitted as per tender requirement	Yes / No
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 not black listed 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

## PRICE SCHEDULE

## Rajkot Muni cipal Corporation Price Schedule – B

#### Name of work: CONSTRUCTION OF TWO-WAY GATES AT DIFFERENT TWO LOCATIONS OF SAFARI PARK

OF S	AFARI PAF				
Sr.	QTY.	Item	Rate	Unit	Amount
1	210.00	Excavation of Foundation in Hard Murrum from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	141.00	Cu.Mt	29610.00
2	315.00	Excavation of Foundation in Hard Rock with Breaker / Blasting / Gann from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	706.00	Cu.Mt	222390.00
3	21.00	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	4626.00	Cu.Mt	97146.00
4	415.00	Foundation filling with Rubble Cement Mortar in proportion of 1:6 Cement:Mortar	1667.00	Cu.Mt	691805.00
5	60.00	Rubble Plinth massonary work in Cement: Mortar in proportion of 1:6 with Brick Massonary Or Rubble Corner using old Rubble in propoproportion of 1:2 with Curring and C.Pointing	1610.00	Cu.Mt	96600.00
6	225.00	Brick Masonry work in Cement: Mortar 1:6	5761.00	Cu.Mt	1296225.00
7	20.00	Cement Concrete Work for Copping in proportion of 1:2:4 including Foam Work, finishing, curing etc. complete	5087.00	Cu.Mt	101740.00
8	20.00	RCC work 1:1.5:3 for Beam using aggregate of size 10-20 mm, centring, curing, finishing etc. complete.	6423.00	Cu.Mt	128460.00
9	22.00	RCC work 1:1.5:3 for RCC footing using aggregate of size 10-20 mm, centring, curing, finishing etc. complete	5765.00	Cu.Mt	126830.00
10	26.00	RCC work 1:1.5:3 for Column using aggregate of size 10-20 mm, centring, curing, finishing etc. complete	6344.00	Cu.Mt	164944.00
11	5.00	RCC work 1:1.5:3 for Lintel using aggregate of size 10-20 mm, centring, curing, finishing etc. complete (without reinforcement)	5840.00	cu.Mt	29200.00

Sr.	QTY.	Item	Rate	Unit	Amount
12	2.00	RCC work 1:1.5:3 for Chhaja	6062.00	Cu.Mt	12124.00
		using aggregate of size 10-20			
		mm, centring, curing, finishing			
		etc. complete (without			
13	5.00	reinforcement)  RCC work 1:1.5:3 for RCC slab	6083.00	Cu.Mt	30415.00
13	5.00	using aggregate of size 10-20	0003.00	Cu.ivit	30413.00
		mm, centring, curing, finishing			
		etc. complete (without			
		reinforcement)			
14	15700.00	Supplying, Cutting, Beding,	65.00	Kg	1020500.00
		Binding and Hooking and binding			
		with wire for RCC work Tor steel			
1 -	2075 00	TMT round bar including all cost	2/2.00	C =: N/4	F 4 F 7 2 F 0 0
15	2075.00	20mm thick Sand Face Cement Plaster Work	263.00	Sq.Mt	545725.00
16	150.00	Cement Plaster 12 mm thick	223.00	Sq.Mt	33450.00
. •		using Cement: Mortar in		94	00.00.00
		proportion 1:3 with Niru Finishing			
		curing, etc. complete			
17	12400.00	Iron work as per drawing and	109.00	Kg	1351600.00
10	1005.00	instruction including all	450.00	C N4+	4/5750.00
18	1035.00	Supplying and fixing of chain link jali 50x50x8g (including cost of	450.00	Sq.Mt	465750.00
		reveting, bolting, screw, nut etc.			
		complete with labour)			
19	2075.00	Apex Color work on Outer side of	115.00	Sq.Mt	238625.00
		Wall (Two coats) (with Base			
		Coat)			
20	150.00	Plastic Imulsion Paint (Two coats)	145.00	Sq.Mt	21750.00
		(Asian Paint, ICI, Dulux, Nerolac, Berger etc. of approved			
		type) (with Prime Coat)			
21	1555.00	Enemal painting on door/window,	125.00	Sa.Mt	194375.00
		iron door, iron grill or woodwork			
		two coat with Primer			
22	20.00	Supply, Fixing & Polishing of Kota	913.00	Sq.Mt	18260.00
		Stone work thickness 20-25 mm			
		to be fixed in Lime:Mortar 1:2 and liquid Cement and as			
		and liquid Cement and as instructed			
23	13.00	Supply & Fixing of Polished of	858.00	Sq.Mt	11154.00
		Kota Stone of required size &		- 1	
		thickness as instructed to fixed in			
		Platform / CupBoard etc		_	
24	33.00	Cement Concrete flooring (IPS)	338.00	Sq.Mt	11154.00
		50 mm thick in proportion of			
		1:2:4with a floating coat of neat cement, finishing, curing etc.			
		complete			
<u> </u>		COMPLETE		<u>ı                                      </u>	

Sr.	QTY.	Item	Rate	Unit	Amount
25	42.00	Supplying the material Dr	600.00	Sq.Mt	25200.00
		Fixit/Forsroc new coat and Dr			
		Fixit / Forsroc primeseal as per			
		the required quantity with			
		applying and primer coat with Dr			
		Fixit / Forsroc primeseal and			
		applying three coats of Dr Fixit /			
		Forsroc new coat with fiber mesh.			
26	60.00	S & F 25mm dia G.I Pipeline	377.00	R.Mt	22620.00
27	200.00	S & F 50 mm dia GI Pipe etc	778.00	R.Mt	155600.00
00	0.00	comp.	445.00	N.I	000.00
28	8.00	Polithin ball valve 20 mm dia.	115.00	Nos	920.00
20	10.00	Fitting & fixing.	402.05	Noo	4020 FO
29 30	10.00	S & F 25mm dia Gunmetal Valve	483.95 599.00	Nos Nos	4839.50
30	4.00	Brass wheel valve 25mm dia.	599.00	NOS	2396.00
31	2.00	fitting with fixxing. Supply of 1000 lit Sintex	13396.00	Nos	26792.00
32	4.00	White porselin wash bassin	1434.00	Nos	5736.00
32	4.00	560/410mm indian make c.i.	1434.00	1103	3730.00
		bracket with fitting cromium			
		platted topes 25cm plastic waste			
		pipe and 12mm pillar cock with			
		comp.			
33	4.50	S & F 110mm dia Rigid PVC Pipe	262.00	R.Mt	1179.00
34	60.00	Supply & Fixing of Glazed tiles	493.00	Sq.Mt	29580.00
		(1st Quality) of required size in			
		Cement Roga and joints to be			
		filled with white cement after			
		12mm rough plaster in proportion			
		of 1:3			
35	8.00	Flush Door 25mm thick (without	1788.00	Sq.Mt	14304.00
		frame) for Door & window with			
		polishing / oil painting using			
		company viz. Kitply / Century /			
		Dura / Everest etc ISI brand			
27	7.00	only(with necessary all fittings)	1250.00	C ~ 1/1+	0750.00
36	7.00	Supply & Fixing of Laminates  1mm of Approved Quality of ISI	1250.00	Sq.Mt	8750.00
		marked			
37	13.00	Making cupboard with 18mm	8610.00	Sq.Mt	111930.00
"	13.00	plywood which 6mm ply back	0010.00	Jq.ivit	111730.00
		side, 0.8mm white lamination			
		inner side, fixing approved quality			
		sunmica, hinges, stoper etc.			
		18mm thick ply with both side			
		lamination for selves. plywood			
		brands - kitply, century, dura,			
		everest.etc with ISI marked			

Sr.	QTY.	Item	Rate	Unit	Amount
38	13.00	Making tabel 0.75mt. Height, 18mm approved playwood, 1mm laminates, required lock arrangment, sliding drawer, handel etc. fiting fixing complete	15542.00	Sq.Mt	202046.00
39	13.00	Supply & Fixing of Granite Stone (Telephone Black Color) on wall after rough cast Cement Plaster in proportion of 1:3 and fixing grainage in Cement Paste	2882.00	Sq.Mt	37466.00
40	18.00	Supplying and fixing alluminium frame 62.50 x 25 mm. size and 37.50 x 18mm size shutter with sliding frame 2-track of standard compeny etc. complete.	4088.00	Sq.Mt	73584.00
41	6.00	Inspection chamber size of 0.30 X 0.30 m and depth of 0.45 m given as per design with air tight C.I frame - cover supply and fixing including brick masonry 1:6 cum. at base CC 1:3:6 benching coping 1:1:2 with plaster inside and outside with 1:3 ratio	954.00	Nos	5724.00
42	6.00	Manhole 0.60m/0.60m size 1.20m deep with exavation cement concrete 1:2:4 brick meassonary 1:6 0.30mm thick, foundation cement plaster 1:3, benching 50mm thick, IPS 1:2:4, top 15cm thick CC copping 1:2:4 with quaring finishing (without cover plate)	5306.00	Nos	31836.00
43	6.00	RCC precast cover with supply, fitting, fixing with complete as per specification 10ton size 550/550/90mm.	1023.00	Nos	6138.00
44	140.00	RCC NP-2 Class Pipe 300 mm dia Supply and Fixing etc comp.	591.00	R.Mt	82740.00
45	100.00	Rubble pitching work 0.15 to 0.22 mtr. thick with murrum backing of 0.15 mtr thick with jointing in Cement: Mortar in proportion of 1:3	317.00	Sq.Mt	31700.00

Sr.	QTY.	Item	Rate	Unit	Amount
46	315.00	Making & fixing of wooden art	9899.00	Sq.Mt	3118185.00
		tree/ board of size 300mm. Dia.			
		Including C.C. of 1:2:4, steel bar			
		10mm. Dia. 4 Nos. 8mm ring			
		200mm spacing with chiken			
		mesh/ cement plaster 1:3 with			
		double coat colour etc. complete.			
				Total	10939097.50
			GST 18	3%	1969037.55
			TOTA	\L	12908135.05
			SAY	7	12909000.00

AddI/Asst. Engineer R.M.C.

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

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 with Seal** 

## રાજકોટ મहાનગરપાલિકા



ડો. આંબેડકર ભવન, ઢેબરભાઈ રોડ, રાજકોટ – 350 00૧.

વેબસાઈટ : www.rmc.gov.in

આર.એમ.સી./સી./વીજી. (ટેક) /ન્સ. નાં. - 230

તા. ૧૧ /03/૨૦૧૨

## परीपत्र-:

રાજકોટ મહાનગરપાલિકા અને RSCDL ખાતે ટેન્ડરથી થતા કામમાં સિમેન્ટ કોન્કીટની કામગીરી કરવામાં આવે છે. આ કામોમાં ક્વોલીટી કન્ટ્રોલ જળવાઈ રહે તે માટે નીચે દર્શાવેલ દર્શાવ્યા મુજબ જુદા જુદા સિમેન્ટ કોન્કીટ ગ્રેડ વાઈઝ મીનીમમ સિમેન્ટ કન્ટેન્ટના ધોરણો અનુસરવા અને તેનો સમાવેશ ટેન્ડર ડોક્યુમેન્ટમાં કરવા આથી હકમ કરવામાં આવે છે.

(આ)	NABL માન્ય લેબ દ્વારા IS, IRC કે MORTH મુજબ તૈયાર કરાયેલ સિમેન્ટ કોન્કીટ મીક્સ ડીઝાઈન રીપોર્ટ
	મુજબ કિગ્રા સિમેન્ટ કન્ટેન્ટ પ્રતિ ઘનમીટર
(4)	નીચે દશાવેલ ટેબલ મજબ મીનીમમ કિગા સિમેન્ટ કન્ટેન્ટ પ્રતિ ધનમીટર

Sr. No.	Cement Concrete Grade	28 Days Strength in N/mm <sup>2</sup>	Minimum Cement in Kg	
1	M-7.5 for PCC Work	7.5 N/mm <sup>2</sup>	160 Kg	
2	M-10 for PCC Work	10 N/mm <sup>2</sup>	220 Kg	
3	M-15 for PCC Work	15 N/mm <sup>2</sup>	290 Kg	
4	M-20 for RCC Work	20 N/mm <sup>2</sup>	360 Kg	
5	M-25 for RCC Work	25 N/mm <sup>2</sup>	380 Kg	
6	M-30 for RCC Work	30 N/mm <sup>2</sup>	410 Kg	
7	M-35 for RCC Work	35 N/mm <sup>2</sup>	425 Kg	
8	M-40 for RCC Work	40 N/mm <sup>2</sup>	440 Kg	
9	M-45 for RCC Work	45 N/mm <sup>2</sup>	450 Kg	

ઉપરોક્ત (અ) અને (બ) પૈકી જે વધુ હોય, તે સિમેન્ટ કન્ટેન્ટ ને ફાઈનલ મીનીમમ સિમેન્ટ કન્ટેન્ટ પ્રતિ ધનમીટર ગણવા હુકમ કરવામાં આવે છે.

ઉપરોક્ત બાબતની અમલવારી તાત્કાલિક અસરથી યુસ્તપણે કરવાની રહેશે.

રાજકોટ મહાનગરપાલિકા

નકલ રવાના (જાણ તથા અમલવારી અર્થે)

- નાયબ કમિરનરશ્રી (ઝોન-વેસ્ટ ,સેન્ટ્રલ ,ઇસ્ટ)

નકલ રવાના -(અમલવારી અર્થે)

- તમામ સીટી એન્જીનીયરશ્રી, એડી. સીટી એન્જીનીયરશ્રી, એક્ઝીક્યુટીવ એન્જીનીયરશ્રી, એન્વાયરમેન્ટ એન્જીનીયરશ્રી (S.W.M.) R.M.C./C./ 832

કમિશ્નર વિભાગ, રાજકોટ મહાનગર સેવાસદન તા. 90/5/2013

हुडमः :-

વિષય:- ઈ-ટેન્ડર / ઓપન ટેન્ડર પઘ્ધતિથી મંગાવવામાં આવતી તમામ પ્રકારની ઓફરો સાથે ભિનઅધિકૃત રજુ થતાં ડોક્યુમેન્ટસ સામે કડક કાર્યવાકી હાથ ધરવા બાબત. સંદર્ભ :- આ અગાઉનાં પ્રીપત્ર નં. આર.એમ.સી./સી./૩૨૯. 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 ટુ બીડ 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 ડોક્યુમેન્ટસ ફરજીયાતપણે ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ રજુ કરવા આદેશ કરવામાં આવેલ છે. જે સંબંધ નીચે મુજબનાં હુકમની અમલવારી તાત્કાલીક અસરથી કરવા અદિશ કરવામાં આવે છે.

(૧) તમામ ટેન્ડરકામોના ટેકનીકલ બીડ ઓપન કરતી વખતે જે ટેન્ડર બીડ ભરનાર એજન્સીઓ દ્વારા તમામ ડોક્યુમેન્ટસ કે તે પૈકી કોઈપણ એક ડોક્યુમેન્ટસ ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ રજૂ કરેલ ન હોય તો રજૂ થયેલ ટેકનીકલ બીડ ઓપન કરવાની કાર્યવાહી દરમ્યાન ટેકનીકલ બીડ ઓપન કરનાર સંબંધીત અધિકારીશ્રી / કર્મચારીશ્રીએ Disqualify પ્રકારનો રબ્બર સ્ટેમ્પ બિનઅધિકૃત રજૂ 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 અધિકારીથી / કર્મચારીથ્રી 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 કરજીયાતપણે 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 ખાતાકીવ પગલાં લેવાની કરજ પડશે.
- (૩) ક્રમ ને.(૧) તથા (૨) મુજબની ચકાસણી કરવા છતાં જે કિસ્સામાં ટેકનીકલ બીડ ઓપન કરતાં બીડર દ્વારા કોઈપણ પ્રકારનાં ક્રોડ ડોક્યુમેન્ટસ ૨જુ 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 અધિકારીશ્રી (પ્રોટેકશન) દ્વારા જોઈન્ટલી દિન–૭ માં કરવા આદેશ કરવામાં આવે છે. જેની લેખિતમાં

- જાણ તાત્કાલીક અને કરવાની રહેશે. જેમાં ચૂક થયેથી સંબંધીત તમામ અધિકારીથ્રી / કર્મચારીથ્રી સામે કડક પગલાં લેવા કરજ પડશે.
- (૪) સંદર્ભનો પરીપત્ર તથા આ હુકમ તમામ પ્રકારનાં ટેકનીકલ કામના દરેક ટેન્ડર પ્રસિધ્ધ કરતી વખતે ટેન્ડરનો હિસ્સો ગણી ટેન્ડરના ભાગ તરીકે પ્રસિધ્ધ કરવાનું ફરજીયાત રહેશે, તથા બીડર દ્વારા ટેન્ડરમા પ્રસિધ્ધ થતા સંદર્ભના પરીપત્ર તથા આ હુકમનાં દરેક પાને સહી સિક્કા સાથે ભરેલ ટેન્ડરની ટેકનીકલ બીડ ફરજીયાત રજુ કરવાની રહેશે.

ઉપરોક્ત લુકમનો તાત્કાલીક અસરથી યુસ્તપકો અમલ કરવા આદેશ કરવામાં આવે છે.

કમિશ્નીર છે. રાજકોટ મહાનગર સેવાસદન

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

નકલ જાણ તથા અમલવારી અર્થે:-(૧) સહાયક કમિશ્નરશ્રીઓ (તમામ) (૨) શાખાધિકારીશ્રીઓ (તમામ) આર.એમ.સી./સી. ૩૨/

રાજકોટ મહાનગરપાલિકા કમિશનર વિભાગ તા.૨૨૮/૧૨/૨૦૧૨

### પરિપત્ર:-

ઇ-ટેન્ડર પદ્ધતિ / ઓપન ટેન્ડર પદ્ધતિથી માંગવામાં આવતી ઓફરોમાં એજન્સીઓ દ્વારા ટેકનીકલ બીડમાં રજુ કરવામાં આવતા ડોક્યુમેન્ટ્સ જેવા કે ટર્નઓવર, અનુભવના પ્રમાણપત્રો વિગેરે ખરી નકલમાં રજૂ કરવામાં આવતા નથી. આથી હવે પછીથી એજન્સીએ દ્વારા રજૂ થતાં ટેકનીકલ બીડમાં રજુ કરવામાં આવતા ડોક્યુમેન્ટ્સ ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ ફોવા જરૂરી છે તેમજ જે એજન્સીનું ટેન્ડર ટેકનીકલ બીડમાં ક્વોલીફાય થાય અને ખરી નકલ ગેઝેટેડ ઓફીસર મારફત પ્રમાણિત કરાવેલ ન ફોય તેવા કેસમાં તેના ઓરીજીનલ ડોક્યુમેન્ટ્સ પ્રાઇસબીડ ખોલતા પફેલા ચકાસી અને ખરી નકલ રજૂ કરાવીને જ ખોલવાના રફેશે તથા આ બાબતનું શાખાધિકારીશ્રીઓએ યુસ્તપણે પાલન કરાવવાનું રફેશે. આમ ન થયેથી પુરતી ચકાસણીને અભાવે જો કોઇ એજન્સીને ખોટા કે અધુરા આધારો સાથે કામ આપવાની ક્ષતિજનક બાબત જાણમાં આવ્યે તે ટેન્ડર ડોક્યુમેન્ટ્સની ચકાસણી કરનાર કર્મચારીશ્રીઓ તેમજ શાખાધિકારીશ્રીની જવાબદારી નક્કી કરવામાં આવશે, જેની સર્વે શાખાધિકારીશ્રીઓએ નોંધ લેવી.

ઉપરોક્ત બાબતનો અમલ તાત્કાલિક અસરથી કરવો.

રાજકોટ મહાનગરપાલિકા

નકલ રવાના :- (જાણ અર્થે)

- નાયબ કમિશનરશ્રીઓ (તમામ)

નકલ જાણ તથા અમલવારી અર્થે :-

- સહાયક કમિશનરશ્રીઓ (તમામ)
- શાખાધિકારીશ્રીઓ (તમામ)

#### 中央が250円11日の中央中央中央

કાર્ચરીની અમિનીસમ ૧૯૭૩ (૧૯૭૪ના ને.૨) ની કલમ ૧૪૪ અન્વચે કાઢેલ ફકમ

કર્યાં કઃ એસ.બી/મજુર/જાહેરના દુ/મે કેઝિંજિરલ્જ. પોલીસ કમિશ્વરશ્રીની કચેરી. રાજકોટ શહેર,રાજકોટ. 41.2508/2018

તાજિતરમાં રાજકીટ શફરમાં ઘરકોડ ચીરીના બનાવો વખવા પ્રમાલ છે. ભુતશાળના રાજકોટ શહેરમાં બનેલ ઘરફોડ ચીરીના વનાવોની તપાસ કરતા તપાસમાં આવા ગુન્છે કરવાર (લાફોકીંગ) પકડાયેલ છે. ત્યારે તપાસમાં આવા ગુન્સ વાળ આરોપીઓ ગુન્ફાના બનાવના દિવસો અગાઉ રાજદોર જેટમાં નવા બંધાના મકાનોમાં જુદી જુદી ઐધોગીક કર્રાનીઓમાં, કોર્પોરેશનમાં મજુરી કામ અને ટેલીકોન કંપનીઓ દ્વાર તથા ગેસ પાઇપ લાઇન માટે ખોદાતા ખાડાઓની મજુરી ગ્રામ મેળવી અથવા તેના બહાના ફેકળ આવી રોકાલ કરી આજુલાજુની સ્થાનિક પરીસ્થિતીનુ સર્વે કરી માફીતગાર શર મિલ્કન વિરૂધ્ધના ગુન્ફરની આચરતા ક્ષેત્ર છે. મજુરી કાગના ભક્ષના ઢુંઠળ આતંકવાદીઓ પણ આશરો મેળવી લેતા પ્લેશ છે જેશી જાહેર જનતાની જાન-માલ (મિલ્કત)ની સલામની તથા કુરણા સરૂ થોડા નિર્ધત્રણો મુકલા <del>જરૂરી જણાય</del> છે. '

જેશી કું મોફળ ઝા લા.૧.૬), પોલીસ કમિલર, રાજકોટ શહેર કોજદારી કાર્થરીની અધિનીચય (સી.આર.પી.સી.) ૧૯૭૬ (૧૯૭૪ ના નં.૨) ની કલમ ૧૪૪ અન્વચે અમીને માંગલ સતાનો કમે આથી ડું ફકમ કરૂ છુ કે, રાજકોટ શકેરના વાલીસ કવિસ્તર વિસ્તારમાં લેબર ક્ષેન્ટ્રાક્ટર/મુલદમનાઓએ વોતાની પાસે જે મજર કામે રાપેલ ફીચ અને મજૂરો લમકાજ માટે સપતાય કરતા હોય તેઓએ નીચે જણાવેલ ક્રોર્મ મુજબ લ્ટેક પ્રજૂરોના અલગ-અલગ ક્રેર્મ લક્ષી કરજીયાત પણ સ્થાનીક પીલીસ સ્ટેશનને જાળ કરવાની રહેશે તથા મજુરી જ્યારે મજુરી કામ તથા રાજકીઢ શકેર છોડી જતા રહે ત્યારે લેબર બેન્દ્રાકરર / મુકારથે તે ચંગેની જણ નામ/સરનાયા સહિતની વિગત શાંછે સ્થા**નીક પી.રટે.મા** કરવાની **રહેશે** 

9-	लेजर क्षेत्राहरर / मुशहम (सप्लाश्वर) जु पुरु नाम सरनाम्	39		
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=	મજુરનું હાલનુ સલ્નામુ દેલીફોન નેવર	1-		
٧.	પ્રજુરનુ પૂળ વતનનું સરનામું ગામ, તાલુકો, જીકલો	1-1		
4	રાલની મ <b>જુ</b> રીનુ સ્થળ / કંપનીનુ નામ	1.54		
9	મજુરનુ વતનનું સ્થાનીક મો.સ્ટે.નું નામ તથા દેલીફોન નંબર	341		
٥	પ્રજુરના વતનના આગેવાનનું નામ, સરનામુ, કેલીકોન નંધર	5		
e.	મજુર અગાઉ કોઇ પોલીસ ગુન્ફામાં પકડાયેલ ટ્રેચ તો તેની	12-1		
	વિગત			
0	हमारकी गुडाहते / केन्सकारे मक्की कम मार्ड लागेल छ	1 12		
10	નહેડને ન્યુપાપ પાકને આશરી તૈકે (ક્ષેદ્રા સાજુ વે)	20		
17	राष्ट्रकेट कटेरमां का तारीभधी भष्ट्रसे अभ ७२ छे १ अने ३०	22		
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1	सरवाय			

Mc या इंडय मी. ०१/०५/२०१४ थी मा ३०/०६/२०९४ मुटी अमलमा रहेते.

આ કુઠમની ભંગ કરનાર વ્યક્તિ ભારતીય દંડ સહિતાની કલમ વટદ મુજબ શિકાને પાત્ર શકે.

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તમાનને વ્યક્તિગત રીતે મોટીસની ગજવાળી કરવી શક્ય ન હોય આદી એક્લરફો ટ્રકમ કરે છું. જોદેર જગવાની જાણ સારૂ સ્થાનીક વર્તમાન પત્ર આક્રણવાડ અને દૂરદર્શન કેન્દ્ર મારફતે પ્રસિધ્ધી ધ્યારા તાથ મોલીસ લ્ટેશનના પોલાક ઇન્સ્પેક્ટર, મદદનીશ પોલીસ ક્ષ્મિકર નાચાદ પોલીસ ક્રમિશ્વ તથા પોલીસ ક્રમિશ્વર કચેરીના ગોટીશ ભોર્ડ ઉપર દૂરમાની નકલ ચોટાડી પ્રસિધ્ધી કરવામાં આવશે તમક સહેલાઇથી જોઇ શકાય તેવી જાફેર જગ્યાએ ઉપર દૂકમાની નકલ ચોટાડી પ્રસિધ્ધી કરવામાં આવશે ગુજરાત મોલીસ હંકટ કલાય ૧૬૩ મુજબ પોલીસ અધિકારીઓ પણ એ ફેક્મની જાફેશન કરવા અધિકૃત સાલકો.

આજ તારે\$માટે ચેપીલ-૨૦૧૪ ન ઉપ માટે લઈ અને સિક્કો કરી આપેલ છે.



ાર્પોકન ઝા પોલીસ કમિક્સ રાજકોટ શહેર રાજકોટ

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- (૧) અંગુ સચિવળી, ગૃફ વિભાગ, ગાંધીનગઢ.
- પોલીસ મફાનિદેશક અને મુખ્ય પોલીસ અધિકારીથી, ગુ. સ. ગાંધીનગર
- (૩) અધિક વીલીસ મુકા સિર્દેશકર્યા (ઇન્ટે.) ગુ.રા.લાંધીનગર.
- (૪) પાલીસ કમિલરક્રી, અમદાવાદ કાઇક, વડોકરા વાકેર, સુરત શકેર.
- (૫) ખાસ મુખ્ય પૌલીસ અધિકારીથી, રાજકોટ કેન્જ, રાજકોટ,
- (હ) જીલ્લા પોલીસ અધિક્ષકન્ની, રાજકાડ પ્રાપ્ત, રાજકોડ.
- (এ) এইছেবছমা সাপনীৰ গঠন
- (८) म्युनिशियस इमिश्रश्री, शक्तिर शक्तः
- (૯) વિશામકર્યા, માર્કીની માર્સ ડો.જીવર.જ પદાંગ કરવા મુક્ત સવિવાલય બ્લોક નાંગ, બીજા બાળે,ગુ.સ., ગોપીનગર
- (१०) कुल्स अध्याजी विक्रिस्सी, सेसन्स मेर्ड, अवस्तिः,
- (૧૧) મેનેજરથી, ભવેમેન્ટ પેસ રાજકોટ લોગેટ ભાગન્ય માં પશ્ચિષ્ય કરવા ચારા).
- (१२) भटदनीश भौतीय अभिक्रमी, पृद्य, महिन दिलाग, शक्षांट शहेर.
- (૧૩) આઈ.કમિલસ્ક્રી (ઈ.ટે.), રાજકોટ રીક્ટરાંગ, નાજકોટ,
- (૧૪) નાચલ પોલીસ એપિકાંકમી ત્યાં ડેન્ટ્ર મેં રાજદોક જેવે જંદરાન પી.સ્ટે.
- (૧૫) નમાન મો.સ્ટે.ઈન્સાર્જમીઓ,રાજકોડ હઠા(નકલી ચોંટાડી લાઉક સ્પીકર વારુન દેવારા જાઠેરાન કરાવવા શારૂ)
- (૧૬) તમામ જાવેડ તથા મામાં ઈન્વાજમીઓ, રજકાર સફેર,
- (૧૭) કન્દ્રીલ ઈન્લાજુમી, રાજકીટ શફેર (૧૦ નકલ) વર્તમાનપત્રીને આપલી.
- (१८) तेजर कमिन्नश्रमी, ... तमान भागानी सस्याधीले वादावत करदावा साव

#### महत्य अविवास स्वाना-

- (૧) ૧૪૦ સ્ટ્રાસ્થી, કાઈશેર્ટ, ગુ.શ.સોલારોક પ્રગલાવાલ
- (૨) જ્જાનક્ષારથી, ડીસ્ટ્રીક્ટ એન્ક સેશન્સ કોર્ટ, રાજકોડ,
- (૩) રજીસ્ટ્રારથી, ચીક જચુડીજાલ મેજીના ટીર, ગજકીર.
- (૪) ૧૪૦-દૂરઓ, મેદીલલ મેશન્સ ૧૧૫ કોઇ ગામદીત.
- (પ) એક્ઝોકયુરીય મેજી.સી, રાજકોટ શકેર
- (૬) એક ઝોક સુટીલ મેજી.કી, સજકોટ ત લુકા
- (૭) સર્વુકત માઠીની સિચામકશ્રી, રાજકોડ.

(સ્થાનીક વર્તમાનુપત્રો, આકાશવાણી તળા કરદરીન કેન્દ્રમાં પ્રસિધ્ધ કરવા અને વર્તમાનપત્રોની કાપલીએ મેઠલવર સફા

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## રાજકોટ મહાનગરપાલિકા

હિસાબી શાખા

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

રા.મ.ન.પા./ફિસાબીજા.નં. 829

al. 951 512093

नोंध -

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

ઉપરોક્ત વિષયે જ્ણાવવાનું કે રાજકોટ મહાનગરપાલીકા નાં તમામ વેન્કર / કોન્ટ્રાકટરો 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.

presentations

(જર્ને ચીફ એકાઉન્ટન્ટ રાજકોટ મહાનગરપાલીકા

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

ક્રેડીટ મળશે નફી જેની નોંધ લેવા વિનંતી.

નકલ અમુલવારી અર્થે

🕯 🖟 1. તમામ શાખા અધિકારીશ્રી ઓ

## નકલ સવિનય જાણ અર્થે

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

## જાહેરનામ

આથી કું અમિત અરોરા (IAS), મ્યુનિસીપલ કમિશનર, રાજકોટ મહાનગરપાલિકા, રાજકોટ ગુજરાત પ્રોવિન્સીયલ મ્યુનિસીપલ કોર્પોરેશન એકટ-૧૯૪૯ની જોગવાઇ અનુસંધાને મળેલ સતા મુજબ, જાહેર હિતને ધ્યાને લઇ, રાજકોટ મહાનગરપાલિકા વિસ્તારમાં ઇમારત તોડવા, સમારકામ અથવા તો નવા બાંધકામ દરમ્યાન ઉપસ્થિત થતા બાંધકામએ લગત કચરા (Construction and Demolition Waste) નો રાજકોટ મહાનગરપાલિકા દ્વારા નિયત કરાયેલ જગ્યા સિવાય નિકાલ કરવા પ્રતિબંધ ફરમાવું છું.

એવું ધ્યાનમાં આવેલ છે જે, રાજકોટ મહાનગરપાલિકા વિસ્તારમાં ઇમારત, ઇમારતોના બાંધકામ દરમ્યાન નળીયા, પથરા, ઇટો, ઇમારત બાંધવાના માલ સામાન અને એવા માલ સામાનનો કાટમાળ ગમે તે જગ્યાએ નિકાલ / એકઠો કરવામાં આવે છે. જેનાથી એવી જગ્યાએ ઉંદરો અથવા અન્ય જીવ જંતુઓનું આશ્રય સ્થાન અથવા ઉત્પતિ સ્થાન બને છે. તેમજ સદરહું જગ્યાનો ભોગવટો કરનારાઓને અથવા પડોશમાં રહેતી વ્યક્તિઓના ભય અને ઉપદ્રવનું કારણ બને છે. તેના કારણે રોગયાળો ફેલાવવાનો ભય અને લોકોના આરોગ્ય તથા જાનમાલને નુકસાન થાય તેવી સ્થિતી ઉત્પન્ન થાય છે. તેમજ તે કયરો (Construction and Demolition Waste) દ્દર કરવા રાજકોટ મહાનગરપાલિકાને ખુબજ મોટો ખર્ચ થાય છે, તેમજ માનવ સમય બગડે છે. આમ, લોકોના જાનમાલના અને આરોગ્યના નુકસાનના ભોગે આવી ગેરકાયદેસર પ્રવૃતિ ચાલી રહેલ છે, આવી કોઇપણ પ્રવૃતિ જન આરોગ્ય માટે બિન સલામતી નોતરે તેમ હોય, ગુજરાત પ્રોવિન્સીયલ મ્યુનિસીપલ કોર્પોરેશન એકટ અનુસ્યી-ક ના પ્રકરણ-૧૪ ની જોગવાઇઓ અનુસંધાને આવી તમામ પ્રવૃતિ કરવાનો અગાઉના જાહેરનામા નં.રા.મ.ન.પા./મ.ઝો./સો.વે.મે./જા.નં.૧૯૪૧, તા.૦૬/૦૮/૨૦૧૯ થી પ્રતિષેધ કરમાવવામાં આવેલ અને આવા કચરા (Construction and Demolition Waste)ના નિકાલ માટે રાજકોટ મહાનગરપાલિકાએ નીચે દર્શાવેલ સ્થળો નિયત કરવામાં આવેલ.

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

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- 3. ટી.પી.સ્ક્રીમ નં.૧૦, એફ.પી.-૮૭, ઢેબર રોડ, સાઉથ અટીકા વિસ્તાર, પી.જી.વી.સી.એલ. ઓફિસ પાસે,
- ૪. ટી.પી.સ્ક્રીમ નં.૨૩, એફ.પી.-૨૩, મોરબી રોડ,પોપટપરા આઇ.ઓ.સી. ગોડાઉન પાસે,
- પ. સમાટ ઇન્ડ. એરિયા, એસ.ટી. વર્કશોપ પાછળ, અનામત પ્લોટ.
- s. ટી.પી.સ્ક્રીમ નં.૯, એફ.પી.-૫, રૈયાધાર ગાર્બેજ ટ્રાન્સફર સ્ટેશન પાસે,
- ૭. ટી.પી.સ્ક્રીમ નં.૨૦, એફ.પી.-૩૫, પ્રધ્યુમન ગ્રીન પાછળ

ઉપરોક્ત સ્થળો ઉપરાંત નીચે મુજબના સ્થળો Construction and Demolition Waste ના નિકાલ માટે નિયત કરવામાં આવે છે.

- ૧. જેટકો ચોકડી, ટી.પી.સ્ક્રીમ નં.૨૮, મવડી, એફ.પી.-૪૬/એ,
- ર. ટી.પી.સ્ક્રીમ નં.૧૨, કોઠારીયા નેશનલ હાઇવે, લીજજત પાપડ પાસે, એફ.પી.-૩૮/એ, ૩૯/બી.

ઉપરોક્ત નિયત કરેલ સ્થળો સિવાય અન્ય કોઇપણ જગ્યાએ કોઇપણ ઇસમ/ઇસમો છકડો, ટ્રેકટર અથવા ડમ્પર દ્વારા (Construction and Demolition Waste) નો નિકાલ કરતાં પકડાશે તો પ્રથમ વખત છકડો/ટ્રેકટર દીઠ રૂ!.૭,૫૦૦/- તથા ડમ્પર દીઠ રૂ!.૧૫,૦૦૦/-, બીજી વખત છકડો/ટ્રેકટર દીઠ રૂ!.૧૫,૦૦૦/- તથા ડમ્પર દીઠ રૂ|.30,000/- અને ત્રીજી વખત છકડો/ટ્રેકટર દીઠ રૂ|.40,000/- તથા ડમ્પર દીઠ રૂ|.4,00,000/-લેખે વહીવટી ચાર્જ વસુલ કરવામાં આવશે. તેમજ વાહન જપ્ત કરવા સુધીની કાર્યવાહી કરવામાં આવશે.

શહેરમાં વસતાં નાગરીકો દ્વારા ઉપરોક્ત Construction and Demolition Waste ના નિકાલ માટે રાજકોટ મહાનગરપાલિકા દ્વારા ઝોન વાઇઝ કામગીરી માટે Construction and Demolition Waste સેલની રચના કરવામાં આવેલ છે. શહેરના નાગરિકો રાજકોટ મહાનગરપાલિકાના કોલ સેન્ટર — ૦૨૮૧-૨૪૫૦૦૭૭ પર ફોન કરી તેમની મિલ્કતનાં રીપેરીંગ કે કાટમાળનો નિકાલ નીચે મુજબનાં નિયત થયેલ યાર્જીસ ભરપાઇ કરી નિકાલ કરવાની વ્યવસ્થાનો લાભ મેળવી શકશે.

- रीक्षा डे १/२ ट्रेडटर ३|.300/-
- ટ્રેકટર જેટલો જથ્થો રૂ|.૫૦૦/-
- ટ્રક / ડમ્પર જેટલો જથ્થો રૂ.૧,૦૦૦/-

ઉપરોક્ત નિયત કરાયેલ સ્થળોએથી ખાનગી માલિકો, જુનો એકત્રિત થયેલ બાંધકામનો કાટમાળ પોતાના ઉપયોગ માટે સ્વખર્ચે ઉપાડી લઇ જઇ શકશે.

ઉકત જાહેરનામાનો યુસ્તપણે અમલ કરવો.

રાજકોટ. તા. 4 / 6/૨૦૨૨

રાજકોટ મહાનગરપાલિકા

स्ति कार स्थापना इत्। स्थाप अने नीयारी करान स्थाप १ ३ - स्त्री का बीत. सामीनाम्ह

િલ્લા ઇલ્લાસોના કવરા, વ્યાપન તાર્ગ અને મકાન વિભાગ

> વિષય: કરારખત પર સ્ટેમ્ગ ક્યુ**ટી વસુલાત લાખત**. સદર્ભ:– આપની ક્યરીનો તા, 30/**૭/૨૦૦૯મો પ**ત્ર

વિશેષમાં જણાવવાનું કે, આપના ધ્વારા અને રજુ થયેલ વિગત મહત્વમે અનેનાં તા. જો મોરેયન ના મુદ્દા નં ર મુજબ એક્ટીમેન્ટ માટે રૂા, ૧૦૦૯ તથા દિપોલીટ તરીકે લેવામ જો ના ના ના કોઇ તે લેકની દીકલ ડીપોઝીટ તથા નાની વચત પત્રોની રૂપ જૂ (અફ્રી ઢકા) શક્ય રૂડ જે જે કે આઈકલ – 35 (ક) સાથે આર્ટીકલ – ૨૦(ક)માં પ્રવાસિત દૂર તથા જો સમ્યાર્થસહિત ૧૦૦ એ ૪.૯૪ મુજબ સ્ટેમ્પ કપૂરી ભરપાઈ ક્યાબલ મામ કોવામાં જો પ્રાપ્ત દ્વારા પ્રાપ્ત કોવામાં

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ે... - ઃ પત્રની નકલ.

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સુષ્ટ્રિઓફ સ્ટેમ્પસની કચેરી, સ્ટેમ્પ અને નોધણી ભવન, સેક્ટર-૧૩-સી, ખ રોડ, ગાંધીનગર.

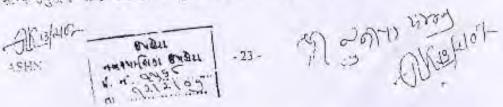
マパヤメ:-

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 અનામતની (સીકપુરીટી – ડીપોઝીટની ) રકમ લેવામાં આવે છે. તે અંગે જીલ્લા પંચાપત / નગરપાલિકા / મહાનગરપાલિકા અને કોન્ટ્રાકટર વચ્ચે કરાર કરવામાં આવે છે. આવા કરારો સ્ટ્રેમાં !યુટીના અભિપ્રાય માટે અત્રે રજુ કરવામાં આવે છે. તેમાં જે ડિપોઝીટની રકમ અનાવન મુકવાની થાય છે. તે રોકડ, ચેક, ડીમાન્ડ ડ્રાકટ એક 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 કથા માધ્યમથી 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 અનાયે જે કરાર કરવામાં આવે છે. તેમાં નીચેની વિગતે રહેમ્ય ડયુટી લેવાની થાય છે.

(૧) અનામતની જે ૨૬મ રોકડ, ચેક યા ડ્રાફ્ટથી લેવામાં આવે અથવા તો બેંક ગેરંટીથી આપવામાં આવેતો કરારનાં લેખ ઉપર મુંબઈ સ્ટેમ્પ અધિનિયમ –૧૯૫૮ની અનુસુચિ–૧ ના આર્શકલ –૫ (ત્ર) મુજબ કરાર ઉપર રૂા. ૧૦૦!– સંગ્ય હયુટી 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 સ્ટેમ્પ અધિનિયમ– ૧૯૫૮ની અનુસુર્ચિ–૧ ના આર્ટીકલ –૩૬ (ક) સાથે આર્ટીકલ ૨૦ (ક) મુજબ આ રીતે આપવામાં આવેલ અનામતની રકમના પ્રત્યેક રૂા. ૧૦૦/– અથવા તેના ભાગ માટે ૪.૨૫% પ્રમાણે સ્ટેમ્પ ડયુટીને પાગ બને છે.

આપના તરફથી જે કામો માટે ટેન્ડર બહાર પાડવામાં આવે અને તેમાં ટેન્ડરની રકમ અન્વવે જે રકમ ડિપોઝીટ (અનામત) મુકવામાં આવે છે. તેમાં ઉપર દર્શાવ્યા મુજબ રોગ્ય ડ્યુરીને પાત્ર બને છે. તે મુજબ અમલ કરવા વિનતી છે. સાથોસાથ આપના ધ્યારા



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

પ્રતિ, એ ૧૪ લ્લ્લા ક્રિકાર મહિકારી, (રો) જીલ્લા વિકાસ અધિકારી, જીલ્લા વિકાસ અધિકારીની કચરા ં નિક સુપ્રિક્ષિક સ્ટેમ્પ્યુ – વર્ષિક સુપ્રિક્ષિક સ્ટેમ્પ્યુ – ુજરાત રાજન ગોર્ધોન્ડિક

(૩) મ્યુનીતા પલ કમિશ્નરથ્રી, મ્યુ. કમિશ્નરથ્રીની કચેરી

(૪) નોક એક્સિસ્ટાી તમામ નગરપાલિકા કચેરી, ...િડાલેન્ટ)....જી. ૨૧૫૬ો ટ્રે.

त्यानवी अवस्थाः विकास



## RAJKOT MUNICIPAL CORPORATION

ACCOUNTS DEPARTMENT

Room Nc. 4, 2<sup>nz</sup> Flocr Dr. Ambedkar Bhavan, Debar Road, Rajkot - 360001

## PARTY/VENDOR REGISTRATION FORM

VENDOR CODE	:	
Party Name	1	
Authorized Person	\$	
PAN Card No.	1	
GST No.	1	
Address	* * * * * * * * * * * * * * * * * * *	
City	1	
Phone No.		
Mobile No.	‡ "	
eMail ID	4	
Website	- 1	
Area Of Work	:	
Bank Details (attach c	opy of cancelled	d cheque)
Bank Name		
Branch Name	1	
MICR Code	1	IFSC Code :
Account Type	1	11111
Account 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.

TO,
CHIF ACCOUNTANT,
ACCOUNT DEPARTMENT,
RAJKOT MUNICIPAL CORPORATION

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

SIGN
NAME
DESIGNATION
DEPARTMENT NAME

181 m 9599

पश्चिपत्र -

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

後に付:- (1) Gol, MoF (Department of Revenue) Central Board Indirect Taxes and Customs Notification No. 50/2018-Central Tax

(2) GoG. Finance Department Notification No. 50/2018-State Tax

उपरोक्त विषय अने सहलें गुकरात गुइस એन्ड सर्विस देश એક્ट, २०९७ तथा सेन्द्रल गुइस એन्ड सर्विस देश એક્ट, २०९७ मी इलम ५९ जनुसार इ. २,५०,००० थी वधु २९ममा वैरापात्र बीक्वस्तुओं जरीहै डे वेरापात्र सेवाओं डेन्ट्राक्टथी मेजवे तो इल २% (बे टक्का) देश डीड्ड्सम बेट सोसं (19. बेस.टी. टी.डी.बेस) अपवानो थाय छे.

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

> નાયબ કમિશ્નર રાજકોટ મહાનગરપાલિકા

બિડાણ :- GST FAQ's नडल सविनय श्वाण અर्थै:-

- (१) मान उमिश्रर साहेजश्री
- (૨) માન નાયબ કમિન્નર સાહેબશ્રી (વે.ઝોન ઇ.ઝોન) નકલ અમલવારી અર્થે:-
- (૧) તમામ શાખા અધિકારીશ્રી

24) 103 EN 11110 BOURS !

શામન પાલીગલતાના 15>1

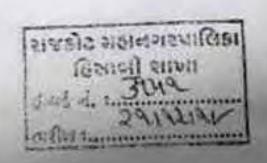
સંજ્યોટ મહત્વગ્રહાનિક ભોગલ મહત્વ ત્યા*તી* કરવા

## परिपत्र :

## विषय: ध्रापी केइ. योशना अंतर्शत आपवानी सती माहिती

રાજકોટ મહાનગરપાલિકાની જુદી-જુદી શાનાઓમાં કરજ બજાવતા કેમેળારે ક હેલ્ડિને ઇ પો એક ચોજના લાગુ પડી ગહેલ હેલ. તેલેના ઇ પો એક એકાઉન્ટમાં કે વાચ સી (K.n.C.) કોમેમાં આધાર કાર્ડ, પાનકાર્ડ, લેંક એકાઉન્ટની વિલ્તો હવા એબાઇલ જન્ટ અપડેટ કરવાના બાકી કોંચ તેનું લીસ્ટ ઇ પી એક. કચેરીમાં જે કમેચારી, એકાઉન્ટ હેલ્ડિકની જરૂરી લેંગલો પૂરી પાડવામાં આવલે ન હોંચ તે સત્વરે પૂરી પાડવાની શાલ છે. તથા અઝેશી આ કામગોરીન સફાલન અર્થ નિયુક્ત કરવામાં આવેલ પેનલ એકલોક્ટ તરફાઈ ઇ-મેઇલ પારકતે ચાદી પૂરી પાડલ છે. જે આ લઇ સામેલ છે. સદરફ લીસ્ટના કર્મચારીઓની વિગત સંબંધિત શાળાએ દિન્હર માં પેનલ એકવોક્ટ જાઇલ કન્સલ્ટન્ટ ને અયુકપણે પહોંચતી કરવાની શાલ છે.

આ ઉપરાંત રાજકોટ મહાનગરપાલિકાની યુદી-જુદી શાળાઓ દ્વારા સને ૨૦૧૧ થી આવશે ના કોન્ટ્રાક્ટરો મારફતે કાર્ય કરાવેલ કોય જેમાં માનવશ્વમનો ઉપયોગ કર્યો કોય. તે વાલ્યોન કોન્દ્રાક છે ઇ.પી.એક એક્ટ તથા ઇ.એસ.આઇ. એક્ટ ફેઠળ રજીક્ટ્રેશન કરવેલ છે કે કેમ? તેની ખરાઇ બાદ જ ગાળી વ કોન્ટ્રાક્ટરરશ્રીઓના બીલ પાસ કરવા અગાઉ સુપાના આપવામાં આવેલ છતી. જેને કરીથી કરફ અન્દી વ સુપાના આપવામાં આવે છે. સંબંધિત કોન્ટ્રાક્ટરોની તથા તેઓ કસ્તકના શ્રામિકોની ઇ.પી.એક એરો વર્લો આવેલ પત્રમાં દર્શવેલ વિગતો તાત્કાલિક અસરથી પેતલ એકવી કેટલીને કિનન્ય માં પાર્થિત કરવામાં આવે છે.



सर्व विज्ञत विद्यत सम्बन्धाधामा व वर्तम्यान संक्रियों व्यक्ति ते क्रियों क्रि

ઉપાશિક્ત પરિપત્રનો મુસ્તમણે તાલાંલિક અસરથી અમલ કરવી

નકલ સવિલય સ્વાલા :-- માન કમિક્ષનર સાહેલ્ડ - નાચબ કમિશનર રહ્ય તે તે તો !

મામ શાખાહિલારી (અમલસારૂ)

પેનલ એડલોકેટનું લરલામું . થયા કેમ્સલ્ટન્ટ ૫૦૨ મેંક્યુરેટ કરવેર રાગીર શેડ. સાથકલ ઝીન ઉપર સજકોટ, કોન ને, ૨૪૬૩૩૮૦ ्र सम्बद्ध म्यानस्थातिक सम्बद्धाः स्थानस्थातिक

नीम संविध केलाक्ष्यी ए भी क्षेत्र केल तथा ए क्षेत्र आए वेक्ट हेठण रक्ष्यकेल व वर्तेला क्षेत्र तेव्य तमाम केलाक्ष्यीना जीली ओडीट तथा िमाजी भाषाची मंगुर करवा नहीं

C-385-

રામાનાપા. રલીગલા જા.ન. ૧૮ ૧૯

રાજકોટ મહાનગરપાલિકા લીગલ શાખા તા*રા*જ્ય /૨૦૧૭

9911:

ા દેશાએ ા છાલા કારણ માના કાર્યો છે.

રાજકીટ મહાનગરપાલિકાની કામગીરી માટે જુદી-જુદી શાળાઓ દ્વારા કામગીરીના પ્રકારને દ્વાને લઇ નિયમ અનુસારની પ્રક્રિયા અનુસરીને એજન્સી/સપ્લાયર/કોન્ટ્રાકટર સાથે જોગવાઇઓ ક્યાનેલ્ટ્રો કરાર કરવામાં આવે છે. મહાનગરપાલિકાની કામગીરી સંદર્ભે તૈયાર કરવામાં આવતા હેન્કર/કરારનામામાં 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 પ્રોજેકટો સહીત કચેરીની કામગીરી તેમજ પ્રજાકીય કામો ઉપર વિપરીત અસર થવા પામેલ છે, તેમજ અરજદારોને દેશન થવું પડે છે. આ અંગે કાયદાકીય, શાખાના અભિપ્રાય અને પ્રકરણની વિગતો જોતા આ કામે તૈકલ્પિક ઉપાય (alternato remody) ઉપલબ્ધ હોય મહાનગરપાલિકાના ટેન્કર/કરાશનામામાં આબીટ્રેશનની જોગવાઇઓને સામેલ કરવાનું ઉચીત જણાતું નથી.

આથી " 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 નિર્ધય 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 અથી હકમ કરવામાં આવે છે.

આ ઠુકમનો અમલ તાત્કાલિક અસરથી યુસ્તપણે કરવો.

કમિશનર ે રાજકોટ મહનગરપાલિકા

નકલ રવાના જાણ અર્થે : નાયબ કમિશનરશ્રી (તમામ)

<sup>નકલ</sup> રવાના જરૂરી કાર્યવાહી અર્થે : તમામ શાખાધિકારીશ્રીઓ

રા.મ.ન.પા./ લીગલ/ જા.નં. 122)

રાજકોટ મહાનગરપાલિકા લીગલ શાખા, રાજકોટ. તા. 25/0૮/૨૦૨૩

પરિપત્ર:

વિષય: ઇ.પી.એફ. તથા ઇ.એસ.આઇ.સી. બાબતેનો અભિપ્રાય. સંદર્ભ: ૧) રા.મ.ન.પા./ફિસાબી/જા.નં. ૧૨૦૯ તા. ૧૦/૮૨૦૨૩ ૨) રા.મ.ન.પા. ઇન્વર્ડ નં. ૮૧૨ તા. ૨૧/૦૮/૨૦૨૩ પ

ઉપરોક્ત તિષય તથા સંદર્ભે અન્વયે જણાવવાનું કે, સંદર્ભ - ૧ અન્વયેના પત્રથી ફિસાંબી શાખા દ્રારા ઇ.પી.એફ. તથા ઇ.એસ.આઇ.સી. લાગુ પાડવા બાબતેનો અભિપ્રાય માંગવામાં આવેલ ફતો જે અનુસંધાને પેનલના એડવોકેટથ્રી તરફથી સંદર્ભ - રથી અભિપ્રાય આવેલ છે. સદરફું અભિપ્રાય રાજકોટ મહાનગરપાલિકાની તમામ શાખાને તથા શાખા કસ્તકના કોન્ટ્રાકટરોને લાગુ પડતો ફોય જેથી સંબંધિત તમામ શાખાને સદરફું અભિપ્રાય વંયાણે લેવા સુચિત કરવામાં આવે છે.

આ ઉપરાંત આપની શાખાના કર્મચારી તથા કોન્ટ્રાકટરશ્રીઓની ઇ.એસ.આઇ.સી. અન્વશેની માહિતી આપવાની બાકી હોય તે તમામે દિન - ૦૨માં પેનલના એડવોકેટશ્રીને માહિતી પહેચતી કરે અને માહિતી આપવાની બાકી હોય તે તમામે દિન - ૦૨માં પેનલના એડવોકેટશ્રીને માહિતી પહેચતી કરે અને તેની જાણ લીગુલ શાખાને કરે અન્યથા તેમાંથી ઉત્પન્ન થતી તમામ જવાબદારી માટે વ્યક્તિગત રીતે જવાબદાર ઠેરવવામાં આવશે.

સદરહું પરિપત્રનો તાત્કાલિક અસરથી યુસ્તપણે પાલન કરવું.

બિડાણ: સંદર્ભ અન્વયેના પત્રો નકલ સવિનય રવાના:

નાયબ કમિશનરશ્રી ( વે. ઝોન, ઇ. ઝોન ) તમામ શાખાશિકારીશ્રીઓ ( અમલ સારૂ )

> राणकोर महानगरपालिका कोन्छातीय मिलाग स्टिन्ड हेनवर्ड नं 2916 तारीण 26/8/23

નાયબ કમિશનરશ્રી રાજકોટ મહાનગરપાલિકા

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# Spraddha Associates

Corrosp. Add.:

#### LABOUR LAW CONSULTANT

502, Accurate Square, Tagore Road,

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Ph. O. 2463380, 93767 68952 E-Mail : dodiaparag@yahoo.in



Prop.: Parag J. Dodi (Advocate & Labour Law Advisor Address: 2-Nalanda Bunglow 6-Pragati Society, Raiya Road, Rajkot-;

Ref.

Date:

-0८-२०२३.

પતિ, લેબર ઓફીસરશ્રી, રાજકોટ મહાનગરપાલીકા, <u>રા જ કો</u>ટ.

વિષય :- <u>ઈપીએફ તથા ઈએસઆઈસી લાગુ પડવા રામનપા/હીસાબી/જા.ન.૧૨૦૯ બાબતે અભિપાય.</u> રેફ્ર. :- રા.મ.ન.પા./લીગલ/જા.નં. ૧૦૯૦, તારીખ ૧૦/૦૮/૨ં૦૨૩.

મે. સાહેબશ્રી,

સવિનય સાથ જણાવવાનું કે, ઉપરોક્ત વિષય અને રેફરન્સથી આપના તરફથી અભિપ્રાય માંગવામાં આવેલ. જેની સાથે મોકલેલ ફોર્મેટ મુજબ વિગતવાર રીમાર્કસ આપેલ છે.

રાજકોટ મહાનગરપાલીકાનાં શાખા અધિકારીએ બીલ બનાવતી વખતે બીલ બનાવતી વખતે નીચે મુજબનાં ડોકયુમેન્ટસ ચેક કરી બીલ સાથે સામેલ કરવા જરૂરી છે.

<u>દર મહીને લેવાનાં ડોકયુમેન્ટ</u>. ્

- ૧. પગા૨૫ત્રક (જેમાં દરેક કર્મચારી તથા કોન્ટ્રાક્ટરની સહી/સિકકો અને જે તે શાખા અધિકારીની સહી/સિકકો)
- ૨. હાજરી પત્રક. ્
- 3. પી. એફ. ચલણ.
- ૪. પી.એફ. ઈ.સી.આર.
- પ. ઈ.એસ.આઈ.સી. પેઈંડ ચલણ.
- દ. ઈ.એસ.આઈ.સી. લાગુ ન પડતો હોય તેવા કર્મચારી (રૂા.૨૧૦૦૦/– થી વધુ પગા૨વાળા) ની WC પોલીસી.
- ૭. પી.ટી. ના ચલણ. (જે કર્મચારીનો પગાર રૂા.૧૨૦૦૦/- કે તેથી વધુ થતો હોય તેનાં. ) વાર્ષિક લેવાનાં ડોકયમેન્ટ.
- ૧. જો ૫૦ કે તેથી વધુ માણસો કોન્ટ્રાક્ટરમાં કામ કરતા હોય તો લેબર લાઈસન્સ.
- ર. લેબર વાર્ષિક પત્રક.
- 3. બોનસ પગક.
- જે તે ડીપાર્ટમેન્ટને લાગુ પડતા સરકારશ્રીનાં લાયસન્સની નકલ ( કુડ , ઈલેક્ટ્રીસીટી વગેરે )

દરેક શાખા હસ્તકનાં કોન્ટ્રાકટર / એજન્સી ઉપરોક્ત સંદર્ભ અન્વયે પાલન કરાવવાની જવાબદારી મુખ્ય માલીક તરીકે જે તે શાખાનાં શાખા અધિકારીની ઠરાવી શકાય.

સહકારની અપેક્ષા સહ.

આપનો વિશ્વાસુ,

બિડાણ :- ઉપર મુજબ.

SHRADDHA ASSOCIATES

PROPRIETOR 81100

લીગલ ઇન્સર્કનાં. 812 સરકારી ઈન્લર્કનં. -25/08/23\_

,મ	વારંવાર ઉદભવતા પ્રશ્નો.	લાગુ પડે છે	કે ફ્રેમ ?
		EPF	ESI
1	કોમ્પ્યુટર ખરીદી કરી અને રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈન્સ્ટોલેશન કરવાનું થાય તો લાગુ પડે કે કેમ ?	ના	્રંહા
2	રાજકોટ મહાનગરપાલીકાની જગ્યાનું સંચાલન કરતા કોન્ટ્રાકટર, વેન્ડર , ટ્રસ્ટ ને લાગુ પડે કે કેમ ? (જેમ કે સ્પોર્ટ સંકુલ, ગાર્ડન, પાર્કીંગ વગેરેનું સંચાલન કોન્ટ્રકટર, ટ્રસ્ટ સંસ્થા વગેરે ધ્વારા કરવામાં આવે )	હા	હા
3	રસ્તા કામ, ડ્રેનેજ કામ, પાણી વિતરણની કામગીરી સાથે સંકળાયેલા કોન્દ્રાકટરોને લાગુ પડે કે કેમ ?	હા	હા
4	જનરલ બોર્ડનાં માઈક સંચાલનનાં કોન્ટ્રાકટમાં લાગુ પડે કે કેમ ?	. હા	ંહા
5	રાજકોટ મહાનગરપાલીકાનાં ગાઉન્ડ સંચાલન કરતા કોન્ટ્રાકટરોને લાગુ પડે કે કેમ ?	હા	હા
6	અત્તઉટ સોર્સીંગ સ્ટાફનાં કીસ્સામાં વેન્ડરને લાગુ પડે કે કેમ ?	હા .	.હા
7	રાજકોટ મહાનગરપાલીકાનાં રેનબસેરાનું સંચાલન કરતા કોન્ટ્રાક્ટરોને લાગુ પડે કે કેમ ?	હા	હા
8	રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈવેન્ટમેનેજમેન્ટ કરવામાં આવે ત્યારે ઈવેન્ટમેનેજમેન્ટ કંપનીને તથા ગાયક / આર્ટીસ્ટ / મ્યુઝીશીયનને લાગુ પડે છે કે કેમ ?	ના ,	ના
9	મશીન / વાહન ફક્ત પાર્ટસ ખરીદીનાં કિસ્સામાં લાગુ પડે છે કે કેમ ?	ના	ના
10	12 20 7 721 9	હા	કા
- 11	મશીન / વાહન ફકત પાર્ટસ ખરીદી અને ફીર્ટીંગ / રીપેરીંગ રાજકોટ મહાનગરપાલીકાની જગ્યામાં કરવામાં આવતુ હોય તેવા કિસ્સામાં લાગુ	ના	ના
12	કોઈપણ ઈલેક્ટ્રીક વસ્તુની ખરીદી તથા તેનુ ઇસ્ટાલશન જમે કે કમરા	ના	હા
13	3 મિત્ર મંડળ તથા સખી મંડળનાં કિસ્સામાં લાગુ પડે છે કે કેમ ?	હા	,લા
1		હા	લા
1	1317 (0 6 6 11 (		, gi
1	ઇલેક્ટ્રીક પોલ ફીટ કરવા શિફ્ટ કરવા અથવા નવા ઈ સ્ટ્રોલ કરવા વગે ક કીસ્સામાં લાગુ પડે છે કે કેમ ?	દા	<i>6</i> 1

	બેર કુલર, એ.સી. , વોટર કુલર રીપેરીંગ વગેરે કીસ્સામાં લાગુંપડે છે કુ કેમ ?	હા	. U
,	રાજકોટ મહાનગરપાલીકાનાં કરાર આધારીત કર્મચારીનાં કીસ્સાંમાં લાગુ પડે છે કે કેમ ?	, હા	1 151
9	રજીસ્ટેશન સમયે કુલ પગાર ઈ.પી.એક. / ઈ.એસ.આઈ.સી. નાં નિયમ મુજબનાં પગારમર્યાદા કરતા ઓછી હોય પરંતુ ત્યારબાદ પગાર ઈપીએક, ઈએસઆઈસી નાં નિયમ મુજબ પગાર મર્યાદા કરતા વધે તો કયાં સુધી કપાત કરવી. (ફીકસમાંથી કાયમીનાં કીસ્સામાં / ફીકરા પગાર વધી જાય તેવા કીરસામાં )	હા	111
0	ફ્રીકસ / કાયમી થાય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
1_	લાલ્વ ઓપરેટર તથા પમ્પ ઓપરેટરનાં કીસ્સામાં લાગુ પડે છે કે કેમ?	હા	હા
22	લીગલ, પોફેશ્નલ સર્વિસ રાજકોટ મહાનગરપાલીકાની જગ્યા પર આપવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
23	રાજકોટ મહાનગરપાલીકા ધ્વારા વિડીયોગાફી / ફોટોગાફી કરાવવામા	હા	હા
24	રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઝેરોક્ષ મશીન ચલાવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	<b>-11</b>	·11
25	ન્યુઝ પેપર અથવા કોઈપણ વસ્તુ કે જેની ખરીદી કરી હાય અને જ રાજકોટ મહાનગરપાલીકાના પીમાઈસીસ સુધી પહોંચાડવાની જવાબદારી	•tt*-	·11
26	રાજકોટ શહેરમાં મોબાઈલ ડિસ્પેન્સરી ચલાવવા આપવાના આવે હતા.	હા	હા
27	ફકત એક વખત કામગીરી કરવાની હાય તેવા કાસ્સાના લાંગુ	*IL *	-11
	કેમ ? હોડીંગ બોર્ડ ચડાવવા તથા ઉતારવાની કામગીરીનો એજન્સીને કોન્ટ્રાકટ	ં હા	. હા
28	આપેલ હોય તેવા કીસ્સામાં લાગુ પડ છે કે કર્ય ! રાજકોટ મહાનગરપાલીકાની જગ્યામાં કાર્ટીઝ રીપેરીંગ તથા રીફીલીંગ	હા	, હા
30	તેવા કીસ્સામાં લાગુ પડે છે કે કમ ! કેટરીંગ સર્વિસ અથવા હોટલમાંથી ફુડ પાર્સલ તેમજ કુરીયર સર્વિસ રાજકોટ મહાનગરપાલીકાને ડીલીવરી કરવામાં આવે તેવા કીસ્સામાં	<b>-</b> 11	તા
31	લાગુ પડે છે કે કેમ ?  સોલાર પેનલ તથા રૂક ટોપ સોલાર પેનલનાં રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈન્સ્ટોલેશન તથા મેઈન્ટેનન્સનાં કીરસામાં લાગુ પડે છે કે કેમ ?	લા	CSI