

RAJKOT MUNICIPAL CORPORATION

e - Tender No.RMC/ENGG/EZ/24-25/36



Bid Documents For

PROVIDING AND LAYING PIPE GUTTER, UTILITY LINE, CC ROAD WORK AND LAYING OF INTERLOCKING PAVING BLOCK WORK FROM NANDA HALL TO SARDAR PATEL AROGYA KENDRA 15.0 MTR TP ROAD IN WARD NO.16 (6TH ATTEMPT)



Milestone dates for e-tendering are as under	
1. Downloading of e-documents	03-03-25 To 18-03-25 upto 17.00 Hrs.
2. Pre-bid meeting in the O/o CE	07-03-25 at 16.30 Hrs.
3. Last date for online submission	18-03-25 upto 18.00 Hrs.
4. Submission of EMD, Tender fee and other documents for verification by Regd.Post.A.D. / Speed Post	Before 25-03-25 and 18.00 Hours
5. Opening of Technical Bid	26-03-25 at 11.00 Hours onwards
6.Verification of submitted documents (EMD, e - Tender fee, etc.)	26-03-25 at 11.00 Hours onwards
7.Opening of Price Bid (For Technically qualified bidders only)	30-03-25 at 11.00 Hours onwards
8.Bid Validity	180 Days

2024-25

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

RAJKOT MUNICIPAL CORPORATION

BID DOCUMENT FOR

**PROVIDING AND LAYING PIPE GUTTER, UTILITY LINE, CC
ROAD WORK AND LAYING OF INTERLOCKING PAVING
BLOCK WORK FROM NANDA HALL TO SARDAR PATEL
AROGYA KENDRA 15.0 MTR TP ROAD IN WARD NO.16 (6TH
ATTEMPT)**

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

PART - I
SECTION - 1

INVITATION FOR BIDS

RAJKOT MUNICIPAL CORPORATION
e-TENDER NOTICE

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

Sr No	Name of work	a) Estimated cost in Rs. b) EMD c) E-TENDER fee d) Time limit for completion of work
1	PROVIDING AND LAYING PIPE GUTTER, UTILITY LINE, CC ROAD WORK AND LAYING OF INTERLOCKING PAVING BLOCK WORK FROM NANDA HALL TO SARDAR PATEL AROGYA KENDRA 15.0 MTR TP ROAD IN WARD NO.16 (6TH ATTEMPT)	a) Rs.2,14,00,000/- (with GST) b) Rs.2,14,000/- c) Rs.4,500/- d) 10 Months
e-TENDER No.RMC/ENGG/EZ/24-25/36		

Milestone dates for e-tendering are as under	
1. Downloading of e-documents	03-03-25 To 18-03-25 upto 17.00 Hrs.
2. Pre-bid meeting in the O/o CE	07-03-25 at 16.30 Hrs.
3. Last date for online submission	18-03-25 upto 18.00 Hrs.
4. Submission of EMD, Tender fee and other documents for verification by Regd.Post.A.D. / Speed Post	Before 25-03-25 and 18.00 Hours
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7.Opening of Price Bid (For Technically qualified bidders only)	30-03-25 at 11.00 Hours onwards
8.Bid Validity	180 Days

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

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

Office of the ADDL. CITY ENGINEER

Rajkot Municipal Corporation
SHRI ZAVERCHAND MEGHANI BHAWAN,
Construction Branch, BHAVNAGAR ROAD,
Rajkot – 360003

4. The pre-qualification requirement is as under:

i) Financial Criteria:

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

Available bid capacity (ABC) = (A x N x 2) – B,
where,

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

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

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

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

ii) Experience Criteria:

The bidder should possess following minimum experience:

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

Note:

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

Note on pre-qualification requirement:

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

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

2. For Financial and Experience criteria, the estimated cost of **Rs.2,14,00,000/-** will be considered.

5. Price Escalation:

- Price escalation will be applicable for this work.
- Contract price shall be adjusted for increase or decrease in rates and price of Labour, Materials, Fuels & Lubricants in accordance with the following principles & procedures and as per formula given in the contract data.
 - A. The price adjustment shall apply for the work done from the start date given in the contract data up to end of the initial intended completion date or extensions granted by the Competent Authority and shall not apply to the work carried out beyond the stipulated time for reasons attributable to the contractor.
 - B. The price adjustment shall be determined during each month from the formula given in the contract dat.
 - C. Following expressions and meanings during to the work done during each month.

The price adjustment for Material

$$Vm = 0.85 * (Pm/100)*R*(Mi-Mo) / Mo$$

Where.

Vm = Increase or decrease in the cost of work during the month under consideration due to change in rates for local materials other than Cement, Steel, Bitumen & POL (Fuel & Lubricants)

Mo = The all-India wholesale price index (All commodities) on 28 days preceding the schedule date of opening of technical bids, as published by the office of Economic Advisor, Dept. for promotion of Industry & internal trade, Ministry of Commerce and Industry.

Mi = The all-India Whole sale price index (all commodities) for the month under consideration as published by the office of Economic Advisor, Dept. for promotion of Industry & internal trade, Ministry of Commerce and Industry.

Pm = Percentage of local Material Component (other than Cement, Steel, Bitumen & POL) of the work.

R= Total value of work done during the month. It would include the amount of secured advance granted, if any, during the month less the amount of secured advance recovered.

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

1. Labour – Pl	39.25 %
2. Cement – Pc	14.68 %
3. Steel – Ps	0.00 %
4. Bitumen – Pb	0.00 %
5. POL – Pf	4.27 %
6. Plant & Machinery spares – Pp	4.27 %
7. Other Material – Pm	37.53 %
Total...	100.00 %

Note: The same formula will be applicable to Steel Ps / Cement Pc / Bitumen Pb / Labor Pl / POL (Fuel & Lubricants) Pf / Plant & machinery spares Pp / Other Material Pm.

6. Bidder has to quote their rates with 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.
7. 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.
8. 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.
9. The Tender of those bidder(s) those who fails to produce the required documents physically within the stipulated date and time, will be treated as non responsive and their Price Bid will not be opened.
10. 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.
11. The bidder should provide accurate information on any litigation history or arbitration resulting from contracts completed or under execution by him

over the last ten years. This should also include such cases, which are in process / progress. A consistent history of awards against the bidder may result in failure of the bid. In case the bidder has not provided such information and has come to the notice of the authority, the tender will be rejected at what so ever stage and in such case all the losses that will arise out of this issue will be recovered from the Bidder / bidder and he will not have any defense for the same.

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

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Rajkot Municipal Corporation**

CHECKLIST FOR SUBMISSION OF DOCUMENTS (ONLINE AND OFFLINE)

The bidder must submit the relevant documents as per below:

Sr No	Document Name	ONLINE SUBMISSION	OFFLINE SUBMISSION
1	Tender Fee and EMD	Scan Image	Original DD
2	Tender Documents with Corrigendum, if any	Scan Image	--
3	Work Experience Certificates	Scan Image	--
4	Turnover Certificate from CA	Scan Image	--
5	Working Capital from CA	Scan Image	--
6	Agency Registration Certificate	Scan Image	--
7	GST Registration	Scan Image	--
8	PAN Card	Scan Image	--
9	PF Registration	Scan Image	--
10	ESIC Registration	Scan Image	--
11	Professional Tax (PEC and PRC)	Scan Image	--
12	Non-Blacklist Declaration	Scan Image	Original
13	Litigation History	Scan Image	Original
14	Site Visit Declaration	Scan Image	Original
15	Other documents, if any	Scan Image	--

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

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

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Rajkot Municipal Corporation**

Name and signature of Bidder

Check List for submission of Documents Tab	
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
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

INSTRUCTIONS TO BIDDERS

INSTRUCTIONS TO BIDDER

IT 1. GENERAL

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

IT 2. INVITATION TO E-TENDER

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

IT 3. LANGUAGE OF e-TENDER

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

IT 4. QUALIFICATIONS OF BIDDERS

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

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

Financial :-

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

Technical :-

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

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

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

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

IT 5. e-TENDER DOCUMENTS

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

IT 6. EXAMINATION BY BIDDERS

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

(d) correlate his observations, investigations, and determinations with the requirements of the e-TENDER Documents, site & subsoil investigation.

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

e-TENDER Document:

Part-I

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

Part-II

Technical specifications

Part-III

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

General Specifications

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

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

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

IT 7. EARNEST MONEY DEPOSIT:

- A. Each Bidder must submit a receipt of deposit as Tender guarantee towards **Earnest money** amounting to **Rs.2,14,000/-** in any form mentioned below:

- a) By a Demand Draft on the Rajkot Branch of any Nationalized Bank or Scheduled Bank except co-operative bank.
- b) It can be directly deposited in the account of Rajkot Municipal Corporation.
- c) ~~A Bank Guarantee from Rajkot Branch of any Nationalized Bank or Scheduled Bank except co-operative bank. It shall be valid for a period of not less than Three hundred and Sixty (360) days from the date of submission.~~

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

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

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

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

IT 8. INCOME TAX CLEARANCE CERTIFICATE: (DELETED)

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

IT 9. PREPARATION OF e-TENDER DOCUMENTS

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

- A. e-TENDER shall be submitted on the e-TENDER form bound here in English. All statements shall be properly filled in. Numbers shall be stated both in words and in figures 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 Gujarat or appropriate authority
 - III. Bidder's financial capability statement including last three years Income tax returns, balance sheet, duly signed by registered chartered account.
 - IV. Bidder's experience in the field relevant to this contract.
 - V. A list of the equipment the Bidder possesses and that which he proposed to acquire and use for the purpose related to the work.

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

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

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

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

IT 11 TENDER VALIDITY PERIOD

The validity period of the e-Tender submitted for this work shall be of One Hundred and Twenty (120) calendar days from the date opening of the Technical bid of eTender and that the Bidder shall not be allowed to withdraw or modify the e-Tender offer on his own during the validity period. The Bidder will not be allowed to 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 stated below their signatures. All the signatures in the e-Tender document shall be dated.

IT 14 WITHDRAWAL OF TENDERS

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

IT 15 INTERPRETATIONS OF e-TENDER DOCUMENTS

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

IT 16 ERRORS AND DISCREPANCIES IN e-TENDERS

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

IT 17 MODIFICATION OF DOCUMENTS

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

ADDENDA

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

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

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

IT 18 TAX AND DUTIES ON MATERIALS

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

IT 19 EVALUATION OF e-TENDERS

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

IT 20 TIME REQUIRED FOR COMPLETION

The completion period mentioned in this schedule is to be reckoned from the date of notice to proceed. Total completion period is **10 Months** from the date of issue of notice to proceed and contractor should adhere to this completion time. Monsoon period from 1st July to 30th September will be considered as non-working period and hence excluded in time limit.

IT 21 POLICY FOR TENDER UNDER CONSIDERATION

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

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

IT 22 PRICES AND PAYMENTS

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

IT 23 PAYMENT TERMS

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

IT 24 AWARD

Award of the contract or the rejection or e-TENDERS will be made during the Tender validity period. A separate Schedule-B (Price Schedule) is given. The

contractors are requested to quote their price offer **in % below or above on the given price in the schedule-B of Price Schedule only.**

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

IT 25 SIGNING OF CONTRACT

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

IT 26 DISQUALIFICATION

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

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

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

- (e) Any conditional tender.
- (f) All corrections or posted slips are not initiated by Bidder.
- (g) Any erasure is made in the e-tender.

IT 27 PERFORMANCE GUARANTEE (SECURITY DEPOSIT)

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

Additional performance guarantee is payable if,

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

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

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

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

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

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

The performance guarantee shall be delivered to the Corporation within ten (10) days of the notice of award and at least three (3) days before the contract agreement is signed unless otherwise specified by the Engineer-in-charge. Alternatively, the contractor may at his option deposit an amount of **2.5%** of the value of the contract price within ten days and the balance

2.5% to be recovered in installments through deduction @ the rate of 10% from the running account bills. It is further clarified that Performance Guarantee (SD) for extra work will also be recovered @ 10% from the bill of extra work i.e. works beyond tender amount.

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

IT 28 STAMP DUTY

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

IT 29 BRAND NAMES

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

IT 30 NON TRANSFERABLE

e-TENDER documents are not transferable.

IT 31 COST OF e-Tendering

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

IT 32 EFFECT OF e-Tender

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

IT 33 CHANGE IN QUANTITY

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

IT 34 NEW EQUIPMENT AND MATERIAL

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

IT 35 RIGHTS RESERVED

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

IT 36 ADDITIONAL RIGHTS RESERVED

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

IT 37 MOBILIZATION ADVANCE

No mobilization advance or advance on machinery will be given.

IT 38 CONDITIONAL e-Tenders

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

IT 39 CESS & REGISTRATION:

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

IT 40 ESI REGISTRATION:

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

IT 41 PROFESSIONAL TAX

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

IT 42 PF CODE:

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

IT 43 LABOUR LICENSE:

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

IT 44 FILLING OF e-TENDER

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

Add. Asst. Engineer
R. M. C.

Dy. Executive Engineer
R. M. C.

ADDL. CITY ENGINEER
Rajkot Muni. Corporation

Signature of Contractor with Seal

F O R M A T S

Financial & Other Statements

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

STATEMENT NO-1

DECLARATION

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

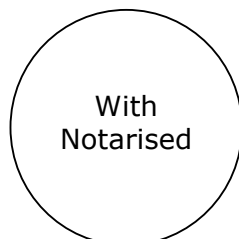
At present I am / we are registered as approved contractor(s), firms in _____ State, CPWD / MES / Railways.

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

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

Date:
Place:

Signature of Authorized Person



STATEMENT NO-2

APPLICABILITY OF PROVIDENT FUND AND MISCELLANEOUS PROVISIONS ACT 1952

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

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

Declaration Of Depositing Provident Fund contribution

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

_____with Provident
Fund Authority under our Provident Fund Code No. _____

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

Date:

Seal and Signature of the Bidder

STATEMENT NO. -3

CURRICULAM VITAE

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

Sr.No.	Period From - To	Organization under which work	Status /position in the organization

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 last seven years.		Certified true copy to be attached
3.	Price of biggest similar nature job carried out		Certified true copy to be attached

STATEMENT NO. – 4/A

BIDDER'S FINANCIAL CAPACITY

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

Note:-

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

STATEMENT NO. – 4 / B

AVAILABLE BID CAPACITY

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

The available bid capacity will be worked out as follows.

Available bid capacity = (A x N x 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.	Year of Construc t ion work	Name of Project	Name of owner & contact person of the project, address, phone no. fax no.	Total cost of the work	Total value of work done Rs.	Date of starting work	Date of Actual completion 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.	Name of work	Name of client	Estimated cost of work (Rs. Lakhs)	Tendered amount Rs. (Lakhs)	Date of award of contract	Target date of completion	Actual date of completion	Reason for delay	Amount of work done during last seven years preceding this tender (Rs. Lakhs).								Amount of work done after March 2024 (Rs. Lakhs)	Remarks
									2017	2018	2019	2020	2021	2022	2023	2024		
									-	-	-	-	-	-	-			

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

STATEMENT NO – 5/B
DETAILS OF IMPORTANT CONSTRUCTION PROJECTS

Sr. No .	Name of Project	Estimated cost Rs.	Prescribed time of performance		Actual Completion		Actual Completion Cost Rs.	Name, address and Telephone/Fax Nos of
			Start Date	Completion Date	Start Date	Completi on		
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)	
4. Name and address of any associates the applicant has in India (in case the applicant happens to be from foreign country) who are knowledgeable in the procedures of customs, immigration, taxes and other information necessary to do the work.	
For how many years has your organization been in business of similar work under its present name? What were your fields when your organization was established? Whether any new fields were added in your organization? And if so, when?	

5. Were you ever required to suspend construction for a period of more than six months continuously after you started? If so, give the name of project and give 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

:: TABLE OF CONTESTS ::

No.	Description
GC-1	Definitions and Interpretations
GC-2	Location of site and accessibility
GC-3	Scope of work
GC-4	Ruling language
GC-5	Interpretation of Contract Document
GC-6	Contractor to understand himself fully
GC-7	Errors in submissions
GC-8	Sufficiency of E-TENDER
GC-9	Discrepancies
GC-10	Performance Guarantee (Security Deposit)
GC-11	Inspection of work
GC-12	Defect Liability
GC-13	Power of Engineer-In-Charge to give further instructions.
GC-14	Programme
GC-15	Sub-letting of work
GC-16	Sub-Contracts for temporary works, etc.
GC-17	Time for completion
GC-18	Extension of time
GC-19	Contract Agreement
GC-20	Liquidated damages
GC-21	Forfeiture of Security Deposit
GC-22	Action of Forfeiture of Security Deposit
GC-23	No compensation for alteration in or restriction in work
GC-24	In the event of death of contractor
GC-25	Members of the owner not individually liable
GC-26	Owner not bound by personal representations
GC-27	Contractor's office at site
GC-28	Contractor's subordinate staff and their conduct
GC-29	Termination of sub-contract by owner
GC-30	Power of entry
GC-31	Contractor's responsibility with the other Contractor and Agencies.
GC-32	Other Agencies at site
GC-33	Notices
GC-34	Rights of various interests
GC-35	Price adjustments
GC-36	Terms of Payment
GC-37	Retention Money
GC-38	Payments due from the Contractor
GC-39	Contingent Fee
GC-40	Breach of Contract by Contractor
GC-41	Default of Contractor
GC-42	Bankruptcy
GC-43	Ownership
GC-44	Declaration against waiver
GC-45	Laws governing the contract
GC-46	Over payment and under payment
GC-47	Settlement of disputes
GC-48	Disputes of differences to be referred to
GC-49	Arbitration
GC-50	Termination of the Contract

GC-51	Special risks
GC-52	Change in Constitution
GC-53	Sub-contractual relations
GC-54	Patents and Royalties
GC-55	Lien
GC-56	Execution of work
GC-57	Work in monsoon
GC-58	Work on Sundays and Holidays
GC-59	General Conditions for construction work
GC-60	Drawings to be supplied by the Owner
GC-61	Drawings to be supplied by the Contractor
GC-62	Setting outwork
GC-63	Responsibilities of Contractor for correctness of work
GC-64	Materials to be supplied by the Owner
GC-65	Conditions of issue of materials by the Owner
GC-66	Materials procured with assistance of the Owner
GC-67	Materials obtained from dismantling
GC-68	Article of value of treasure found during construction
GC-69	Discrepancies between instructions
GC-70	Alternations in specifications and designs and extra work.
GC-71	Action when no specifications are issued
GC-72	Abnormal rates
GC-73	Assistance to Engineer-In-Charge
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GC-77	Owner may do part of the work
GC-78	Possession prior to completion
GC-79	Completion Certificate
GC-80	Schedule of Rates
GC-81	Procedure for measurement of work in progress
GC-82	Running account payments to be regarded as advances
GC-83	Notice for claim for additional payment
GC-84	Payment of Contractor's Bill
GC-85	Final Bill
GC-86	Receipt for payment
GC-87	Completion Certificate
GC-88	Taxes, Duties, etc.
GC-89	Insurance
GC-90	Damage to Property
GC-91	Contractor to Indemnify Owner
GC-92	Implementation of Apprentice Act 1954
GC-93	Health and Sanitary arrangements for workers
GC-94	Safety Code
GC-95	Accidents

GC-01**DEFINITIONS AND INTERPRETATIONS :**

- 1.0 In the contract (as hereinafter defined) the following words and expressions shall, unless repugnant to the subject or context thereof, have the following means as signed to them.
- 1.1 The "Owner / Corporation" shall mean Rajkot Municipal Corporation and shall include its Municipal Commissioner or other Officers authorized by the Corporation and also include owner's successors and assignees.
- 1.2 The "Contractor" shall mean the person or the persons, firm or Company whose e-Tender has been accepted by the Owner and includes the Contractors legal representative, his successors and permitted assigned.
- 1.3 **DELETED**
- 1.4 The "Engineer-In-Charge" shall mean the person designated as such by the owner from time to time and shall include those who are expressly authorized by the Corporation to act for and on its behalf for all functions pertaining to the operation of this contract.
- 1.5 Engineer-In-Charge's Representative shall mean any resident Engineer or Assistant to the Engineer-In-Charge appointed from time to time by the owner to perform duties set forth in the E-TENDER Document whose authority shall be notified in writing to the Contractor by the Engineer-In-Charge.
- 1.6 "E-TENDER" – the offer or proposal of the Bidder submitted in the prescribed form setting for the prices for the work to be performed, and the details thereof.
- 1.7 "Contract Price" shall mean total money payable to the Contractor under the contract. (This includes estimated amount as well as GST and 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.
- 1.12 "The Sub-Contractor" shall mean any person, firm or company (other than the Contractor) to whom any part of the work has been entrusted by the Contractor with the written consent of the Engineer-In-Charge and the legal representative successors and permitted assignee of such person, firm or company.
- 1.13 The "Specifications" shall mean all directions, the various Technical Specifications, provisions and requirements attached to the contract which 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.

- 1.14 The "Drawings" shall include maps, plans, tracings, or prints thereof with any modification approved in writing by the Engineer-In-Charge and as such other drawings as may, from time to time, be furnished or approved in writing by the Engineer-In-Charge in connection with the work.

- 1.15 The "Work" shall mean the works to be executed in accordance with the contract or the part thereof as the case may be and shall include extra, additional, altered or substituted works as required for the purpose of the contract. It shall mean the totality of the work by expression or implication envisaged in the contract and shall include all materials, equipment and labour required for or relative or incidental to or in connection with the commencement, performance and completion of any work and / or incorporation in the work.

- 1.16 The "Permanent Work" shall mean works which will be incorporated in and form part of the work to be handed over to the owner by the Contractor on completion of the contract.

- 1.17 The "Temporary Work" shall mean all temporary works of every kind required in or about the execution, completion and maintenance of the work.

- 1.18 "Site" shall mean the land and other places, on, under, in or through which the permanent works are to be carried out and any other lands or places provided by the Corporation for the purpose of the contract together with any other places designated in the contract as forming part of the site.

- 1.19 The "Construction Equipment" shall mean all appliances / equipment of whatever nature required in or for execution, completion or maintenance of works or temporary works (as herein before defined) but does not include materials or other things intended to form or forming part of the permanent work.

- 1.20 **"Notice in writing or written Notice"** shall mean a notice written, typed or in printed form delivered personally **OR** sent by Registered Post to the last known private or business address or Registered Office of the Contractor **OR** through e-mail **OR** mobile message shall be deemed to have been received in the ordinary course of post it would have been delivered.

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

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

- 1.23 The "Completion Certificate" shall mean the certificate to be issued by the Engineer-In-Charge when the work has been completed and tested to his satisfaction.

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

GC-02 LOCATION OF SITE AND ACCESSIBILITY :

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

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

GC-03 SCOPE OF WORK :

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

Power Supply :

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

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

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

GC-04

RULING LANGUAGE :

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

GC-05

INTERPRETATION OF CONTRACT DOCUMENT :

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

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

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

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

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

GC-06 CONTRACTOR TO UNDERSTAND HIMSELF FULLY :

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

GC-07 ERRORS IN SUBMISSIONS :

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

GC-08 SUFFICIENCY OF e-TENDER :

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

GC-09**DISCREPANCIES :**

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

GC-10**PERFORMANCE GUARANTEE (SECURITY DEPOSIT) :**

1.

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

Additional performance guarantee is payable if,

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

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

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

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

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

- a) By a Demand Draft on the Rajkot Branch of any Nationalized Bank or Scheduled Bank except co-operative bank.

- b) A fixed deposit receipt of any Schedule Bank or Nationalized Bank (except Co-operative Bank) duly endorsed in favour of the **Rajkot Municipal Corporation, Rajkot.**
- c) A Bank Guarantee from Rajkot Branch of any Nationalized Bank or Scheduled Bank except co-operative bank.

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

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

- 2. If the Contractor, sub-contractor or their employees shall break, deface or destroy any property belonging to the owner or other agency during the execution of the contract, the same shall be made good by the contractor at his own expense and in default thereof, the Engineer-In-Charge may cause the same to be made good by other agencies and recover expense from the Contractor (for which the certificate of the Engineer-In-Charge shall be final). These expenses can be recovered from the security deposit if recovery from other sources is not possible. The amount as reduced in security deposit will be made good by deduction from the next R A Bill of the Contractor.

GC-11

INSPECTION OF WORK :

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

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

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

necessary arrangement as directed for inspection or measurement of work by Engineer-In-Charge.

GC-12

DEFECT LIABILITY :

1. Contractor shall guarantee the work for a period of 12 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 steps as may in all circumstances be responsible to make good such defects. The expenditure so incurred by owner will be recovered from the amount due to Contractor. The decision of Engineer-In-Charge with regard to the amount to be recovered from Contractor will be final and binding on the Contractor.

GC-13

POWER OF ENGINEER-IN-CHARGE TO GIVE FURTHER INSTRUCTIONS:

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

The time of completion of works shall, in the event of any deviations being ordered resulting in additional cost or reduction in cost over the contract

sum, be extended or reduced reasonably by the Engineer-In-Charge. The Engineer-In-Charge's decision in the case shall be final and binding.

GC-14 PROGRAMME :

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

GC-15 SUB-LETTING OF WORK :

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

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

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

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

GC-17 TIME FOR COMPLETION :

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

3. ~~Monsoon period from 1st July to 30th September shall be considered as non-working period hence excluded in time limit.~~

GC-18 EXTENSION OF TIME :

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

GC-19 CONTRACT AGREEMENT :

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

GC-20 LIQUIDATED DAMAGES :

If the Contractor fails to complete the work or designated part thereof within the stipulated completion date for the work or for the part, he shall pay liquidated damages at 0.1 (zero point one) percent of contract value for per day of delay subject to maximum of 10% of the contract value or as decided by Municipal Commissioner.

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

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

GC-21 FORFEITURE OF SECURITY DEPOSIT :

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

GC-22 ACTION OF FORFEITURE OF SECURITY DEPOSIT :

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

- a) To rescind the contract (of which recession notice in writing to the contractor under the hand of the owner shall be conclusive evidence) in

which case the security deposit of the Contractor shall stand forfeited and be absolutely at the disposal of the owner.

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

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

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

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

GC-23

COMPENSATION FOR ALTERATION IN OR RESTRICTION IN WORK :

If at any time from the commencement of the work, the owner shall for any reasons whatsoever not require the whole work or part thereof as specified in the e-Tender to be carried out, the Engineer-In-Charge shall give notice in writing of the fact to the Contractor, who shall have no claim

to any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of full amount of the work not having been carried out. He also shall not have any claim for compensation by reasons of any alterations having been made in original specifications, drawings, designs and instructions which shall involve any curtailment of the work as originally contemplated.

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

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

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

GC-25 MEMBERS OF THE OWNER NOT INDIVIDUALLY LIABLE :

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

GC-26 OWNER NOT BOUND BY PERSONAL REPRESENTATIONS :

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

GC-27 CONTRACTOR'S OFFICE AT SITE :

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

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

1. The Contractor on award of the work shall name and depute a qualified Engineer having experience of carrying out work of similar nature, whom equipments, materials, if any, shall be issued and instructions for work given. the Contractor shall also provide to the satisfaction of Engineer-In-Charge sufficient and qualified staff, competent sub-agents, foreman and loading hands including those specially qualified by previous experience to supervise the type of works comprised in the contract in such manner as will ensure work of the best quality and expeditious working. If, in the opinion of the Engineer-In-Charge additional properly qualified supervision staff is considered necessary, it shall be employed by the Contractor,

without additional charge on account thereof. The Contractor shall ensure to the satisfaction of the Engineer-In-Charge that sub-contractors, if any, shall provide competent and efficient supervision over the work entrusted to them.

2. If and whenever any of the Contractor's or sub-contractor's agents, sub-agents, assistants, foreman or other employees shall, in the opinion of the Engineer-In-Charge, be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties or that in the opinion of the owner or Engineer-In-Charge, it is undesirable for administrative or any other reason for person or persons to be employed in the works, the Contractor if so directed by the Engineer-In-Charge, shall at once remove such person or persons from employment thereon. Any person or persons so removed shall not again be re-employed in connection with the works without the written permission of the Engineer-In-Charge. Any person, so removed from the works shall be immediately replaced at the expense of the Contractor by a qualified and competent substitute. Should the Contractor be required to repatriate any person removed from the works he shall do so after approval of Engineer-In-Charge and shall bear all costs in connection therewith.
3. The Contractor shall be responsible for the proper behavior of all the staff, foreman, workmen and others and shall exercise proper control over them and in particular and without prejudice to the said generality, the Contractor shall be bound to prohibit and prevent any employee from trespassing or acting in any way detrimental or prejudicial to the interest of the community or of the properties or occupiers of land and properties in the neighborhood and in the event of such employees so trespassing, the Contractor shall be responsible therefore and relieve the owner of all consequent claims, actions for damages or injury or any other ground whatsoever. The decision of the Engineer-In-Charge upon any matter arising under this claim shall be final.
4. If and when required by the owner, the Contractor's personnel entering upon the owner's premises shall be properly identified by badges of a type acceptable to the owner which must be worn at all times on owner's premises.

GC-29 TERMINATION OF SUB-CONTRACT BY OWNER :

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

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

GC-30 POWER OF ENTRY :

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

- i) Fail to carry out works in conformity with the contract documents, or

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

The owner shall have the power to enter upon the works and take possession thereof and of the materials, temporary works, constructional plant and stores therein and to revoke the Contractor's license to use the same and to complete the works by his agents, other Contractor or workmen, to relate the same upon any terms to such other person firm or Corporation as the owner in his absolute discretion may think proper to employ, and for the purpose aforesaid to use or authorize the use of any materials, temporary works, constructional plant, and stores as aforesaid with making payments or allowance to the Contractor for the said materials other than such as may be certified in writing by the Engineer-In-Charge to be reasonable and without making any payment or allowance to the Contractor for the use of said temporary works, constructional plant and stock or being liable for loss or damage thereto. If the owner shall be reason of his taking possession of the works or of the work being got completed by other Contractor incurred excess expenditure be deducted from any money which may be due for the work done by the Contractor under the contract and not paid for. Any deficiency shall forthwith be made good and paid to the owner by the Contractor and the owner shall have power to sell in such manner and for such price as he may think fit all or any of the constructional plant, materials etc., consist constructed by or belonging to and to recoup and retain the said deficiency or any part thereof out of the proceeds of the sale.

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

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

and liabilities of every kind arising out of non-adherence to such statutes, ordinance, laws, rules, regulations etc.

GC-32 OTHER AGENCIES AT SITE :

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

GC-33 NOTICES :

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

GC-34 RIGHTS OF VARIOUS INTERESTS :

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

GC-35 PRICE ADJUSTMENTS :

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

GC-36 TERMS OF PAYMENT :

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

GC-37 RETENTION MONEY :

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

GC-38 PAYMENTS DUE FROM THE CONTRACTOR :

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

GC-39 CONTINGENT FEE :

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

GC-40 BREACH OF CONTRACT BY CONTRACTOR :

If the Contractor fails to perform the work under the contract with due diligence or shall refuse or neglect to comply with instructions given to him in writing by the Engineer-In-Charge in accordance with the contract, or shall contravene the provisions of the contract, the Corporation may give notice in writing to the Contractor to make good such failure, neglect, or contravention. Should the Contractor fail to comply with such written notice within 10 (Ten) days of receipt, it shall be lawful for the Corporation, without prejudice to any other rights the Corporation may have under the contract, to terminate the contract for all or part of the works, and make any other arrangements it shall deem necessary to complete the work outstanding under the contract at the time of termination. In this event, the performance Bond shall immediately become due and payable to the Corporation. The value of the work done on the date of termination and not paid for shall be kept as deposit for adjustment of excess expenditure incurred in getting the remaining work completed and the Corporation shall have free use of any works which the Contractor may have at the site at the time of termination of the contract.

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

GC-41 DEFAULT OF CONTRACTOR :

- i) The Corporation may upon written notice of default to the Contractor terminate the contract circumstances detailed as under:
 - a) If in the opinion of the Corporation, the Contractor fails to make completion of works within the time specified in the completion schedule or within the period for which extension has been granted by the Corporation to the Contractor.
 - b) If in the opinion of the Corporation, the Contractor fails to comply with any of the other provisions of this contract.

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

GC-42 BANKRUPTCY :

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

GC-43 OWNERSHIP :

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

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

GC-44 DECLARATION AGAINST WAIVER :

The condemnation by the Corporation of any breach or breaches by the Contractor or an authorized sub-contractor of any of the stipulations and conditions contained in the contract, shall in no way prejudice or affect or

be construed as a waiver of the Corporation's rights, powers and remedies under the contract in respect of any breach or breaches.

GC-45 LAWS GOVERNING THE CONTRACT :

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

GC-46 OVER PAYMENT AND UNDER PAYMENT :

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

GC-47 SETTLEMENT OF DISPUTES :

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

GC-48 DISPUTES OF DIFFERENCES TO BE REFERRED TO :

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

be final and binding on the Engineer-In-Charge and the Contractor unless the Contractor shall require the matter to be referred to an Arbitration panel as hereinafter provided.

GC-49

ARBITRATION :

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

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

GC-50

TERMINATION OF THE CONTRACT :

- i) If the Contractor finds it impracticable to continue operation owing to force majeure reasons or for any reasons beyond his control and/or the Corporation find it impossible to continue operation, then prompt notification in writing shall be given by the party affected to the other.
- ii) If the delay or difficulties so caused cannot be expected to cease or become unavoidable or if operations cannot be resumed within two (2) months then either party shall have the right to terminate the contract upon ten (10) days written notice to the other. In the event of such termination of the contract, payment to the Contractor will be made as follows :
 - a) The Contractor shall be paid for all works approved by the Engineer-In-Charge and for any other legitimate expenses due to him.
 - b) If the Corporation terminates the contract owing to Force Majeure or due to any cause beyond its control, the Contractor shall additionally be paid for any work done during the said two (2) months period including any financial commitment made for the proper performance of the contract and which are not reasonably defrayed by payments under (a) above.
 - c) The Corporation shall also release all bonds and guarantees at its disposal except in cases where the total amount of payment made to the Contractor exceeds the final amount due to him in which case the Contractor shall refund the excess amount within thirty (30) days after the termination and the Corporation thereafter shall release all bonds and guarantees. Should the Contractor fail to refund the amounts received in excess within the said period such amounts shall be deducted from the bonds or guarantees provided.
- iii) On termination of the contract for any cause the Contractor shall see the orderly suspension and termination of operations, with due consideration to the interests of the Corporation with respect to completion safeguarding of storing materials procured for the performance of the contract and the salvage and resale thereof.

GC-51

SPECIAL RISKS :

If during the contract, there shall be an outbreak of war (whether war is declared or not), major epidemic, earthquake or similar occurrence in any part of the world beyond the control of either party to the contract which

financially or otherwise materially affects the execution of the contract, the Contractor shall unless and until, the contract is terminated under the provisions of this article use his best endeavors to complete the execution of the contract, provided always that the Corporation shall be entitled at any time after the onset of such special risks, to terminate the contract by giving written notice to the contractor and upon such notice being given this contract shall terminate but without prejudice to the rights of either party in respect of any antecedent breach thereof.

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

GC-52 CHANGE IN CONSTITUTION :

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

GC-53 SUB-CONTRACTUAL RELATIONS :

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

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

GC-54 PATENTS AND ROYALTIES :

1. Contractor, if licensed under any patent covering equipment, machinery, materials or composition of matter to be used or supplied or methods and process to be practiced or employed in the performance of this contract agrees to pay all royalties and license fees, which may be due with respect

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

2. With respect to any sub-contract entered into by Contractor pursuant to the provisions of the relevant clause hereof, the Contractor shall obtain from the sub-contractor an understanding to provide the owner with the same patent protection that contracts is required to provide under the provisions of the clause.
3. The Contractor shall indemnify and save harmless the owner from any loss on account of claims against owner for the contributory infringement of patent rights arising out of and based upon the claim that the use by the Corporation of the process included in the design prepared by the Contractor and used in the operation of the plant infringes on any patent rights.

GC-55 LIEN :

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

GC-56 EXECUTION OF WORK :

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

GC-57 WORK IN MONSOON :

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

GC-58 WORK ON SUNDAYS AND HOLIDAYS :

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

GC-59 GENERAL CONDITIONS FOR CONSTRUCTION WORK :

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

GC-60 DRAWINGS TO BE SUPPLIED BY THE OWNER : (N.A.)

The drawings attached with the e-Tender documents shall be for general guidance of the Contractor to enable him to visualize the type of work contemplated and scope of work involved. Detail working drawings according to which the work is to be done shall be prepared by the Contractor for executing the work.

GC-61 DRAWINGS TO BE SUPPLIED BY THE CONTRACTOR:

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

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

Signed

**Contractor
Charge**

Engineer-In-

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

MATERIALS OBTAINED FROM DISMANTLING :

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

GC-68

ARTICLE OF VALUE OF TREASURE FOUND DURING CONSTRUCTION :

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

GC-69

DISCREPANCIES BETWEEN INSTRUCTIONS:

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

GC-70

ALTERATIONS IN SPECIFICATIONS & DESIGNS & EXTRA WORK :

The Architect / Engineer-In-Charge shall have power to make any alterations in, omission from, addition to substitution for, the schedule of rates, the original specifications, drawings, designs and instructions that

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

- a) If the rates for additional, altered or substitutes work are specified in the contract for work, the Contractor is bound to carry out such work at the same rates as specified in the contract.
- b) If the rates for additional, altered or substituted work are not specifically provided in the contract for the work, the rates will be derived from the rates of similar items of work in the contract work. The opinion of Engineer-In-Charge as to whether the rates can be reasonably so derived the items of contract will be final and binding to the Contractors.
- c) If the rates of altered, additional or substitute work cannot be determined as specified in (a) or (b) above, the rate shall be paid as per S.O.R. of RMC and if not available in RMC SOR than it will be paid according to SOR of R&B/GWSSB.
- d) If the rates of altered, additional or substitute work cannot be determined as specified in (a) or (b) or (c) above, the Contractor shall within seven days of the receipt of order to carry out the work inform the Architect / Engineer-In-Charge of the rate which he intends to charge for such work supported by rate analysis and the Architect / Engineer-In-Charge will determine the rate on the basis of prevailing market rates of materials, labour cost at schedule of labour plus 15% there on as Contractor's supervision overheads and profit. The opinion of Architect / Engineer-In-Charge as to the market rates of materials and the quantity of labour involved per unit of measurement will be final and binding on Contractor.

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

GC-71 ACTION WHEN NO SPECIFICAITONS ARE ISSUED :

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

GC-72 ABNORMAL RATES :

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

GC-73 ASSISTANCE TO ENGINEER-IN-CHARGE:

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

GC-74 TESTS FOR QUALITY OF WORK :

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

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

If it shall appear to the Engineer-In-Charge that any work has been executed with materials of inferior description, or quality or are unsound or with unsound, imperfect or unskilled workmanship or otherwise not in accordance with the contract, the Contractor shall, on demand in writing from Engineer-In-Charge or his authorized representative specifying the work, materials or articles complained of, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the work, so specified. In the event of failure to do so within a period to be specified by the Engineer-In-Charge in his aforesaid demand, Contractor shall be liable to pay compensation at the rate of half a percent of the estimated cost of work for every work limited to a maximum of ten (10%) percent of the value of work while his failure to do so continues and in the case of any such failure, the Engineer-In-Charge may on expiry of the notice period rectify and remove and re-execute the work or remove and replace with others at the risk and cost of the Contractor. The decision of the Engineer-In-Charge as to any question arising under this clause shall be final and conclusive.

GC-76 SUSPENSION WORK :

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

GC-77 OWNER MAY DO PART OF THE WORK :

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

GC-78 POSSESSION PRIOR TO COMPLETION :

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

GC-79 COMPLETION CERTIFICATE :

As soon as the work has been completed in accordance with contract (except in minor respects that do not effect their use for the purpose for which they are intended and except for maintenance thereof) as per General Conditions of Contract the Engineer-In-Charge shall issue a certificate (hereinafter called completion certificate) in which shall certify the date on which work has been completed and has passed the said tests and owner shall be deemed to have taken over work on the date so certified. If work has been divided in various groups in contract, owner shall be entitled to take over any group or groups before the other or others and there upon the Engineer-In-Charge will issue a completion certificate, which will, however, be for such group or groups so taken over.

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

GC-80 SCHEDULE OF RATES :

1. The rates quoted by the Contractor shall remain firm till the completion of the work and shall not be subject to escalation. Schedule of rates shall be deemed to include and cover all costs, expenses and liabilities of every

description and risks 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.
3. The Schedule of Rates shall be deemed to include and cover the cost of all royalties and fees for the articles and processes, protected by letters patent or otherwise incorporated in or used in connection with work, also all royalties, rents and other payments in connection with obtaining material of whatsoever kind for work and shall include an indemnity to owner which Contractor hereby gives against all action, proceedings, claims, damages, costs and expenses arising from the incorporation in or use on the works of any such articles, processes or materials. Other Municipal or local Board charges if levied on material, equipment or machineries to be brought to site for use on work shall be borne by the Contractor.
4. No exemption or reduction of custom duties, excise duties, sales tax or any other taxes or charges of the Central or State Government or of any Local Body whatsoever will be granted or obtained and all such expenses shall be deemed to have been included in and covered by Schedule of Rates. Contractor shall also obtain and pay for all permits or other privileges necessary to complete the work.
5. The Schedule of Rates shall be deemed to include and cover risk on account of delay and interference with Contractor's conduct of work which may occur from any cause including orders of owner in the exercise of his powers and on account of extension of time granted due to various reasons.
6. For work under unit rate basis, no alteration will be allowed in the Schedule of Rates by reasons of work or any part of them being modified, altered, extended, diminished or omitted.

GC-81

PROCEDURE FOR MEASUREMENT OF WORK IN PROGRESS:

1. All measurements shall be in metric system. All the work in progress will be jointly measured by the representative of Engineer-In-Charge and Contractor's authorized agent. Such measurements will be got recorded in the Measurement Book by the Engineer-In-Charge or his authorized representative and signed by the Contractor or his authorized agent in token of acceptance. If the Contractor or his authorized agent fails to be present whenever required by the Engineer-In-Charge for taking measures

for every reasons whatsoever, the measurement will be taken by the Engineer-In-Charge or his authorized representative notwithstanding the absence of Contractor and these measurements will be deemed to be correct and binding on the Contractor.

2. Contractor will submit a bill in approved proforma in quadruplicate to the Engineer-In-Charge of the work giving abstract and detailed measurements of various items executed during a month as mutually agreed. The Engineer-In-Charge shall verify the bill and the claim, as far as admissible, adjusted if possible, within 10 days of presentation of the bills.

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

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

GC-83 NOTICE FOR CLAIM FOR ADDITIONAL PAYMENT :

If the Contractor considers that he is entitled to extra payment or compensation or any claim whatsoever in respect of work, he shall forthwith give notice in writing to the Engineer-In-Charge about his extra payment and / or compensation. Such notice shall be given to the Engineer-In-Charge within ten (10) days from the happening of any event upon which Contractor basis such claims and such notice shall contain full particulars of the nature of such claim with full details and amount claimed. Failure on the part of the Contractor to put forward any claim with the necessary particulars as above, within the time above specified shall be an absolute waiver thereof. No omission by owner to reject any such claim and no delay in dealing therewith shall waiver by owner or any rights in respect thereof.

GC-84 PAYMENT OF CONTRACTOR'S BILL :

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

currency. Successful bidder must furnish his Bank details for RTGS/ECS with Account Branch of RMC.

GC-85 FINAL BILL :

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

GC-86 RECEIPT FOR PAYMENT :

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

GC-87 COMPLETION CERTIFICATE :

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

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

2. Within one month of completion of work in all respects Contractor shall be furnished with a certificate by the Engineer-In-Charge of such completion but no certificate shall be given nor shall work be deemed to have been executed until all (i) scaffolding, surplus materials and rubbish is cleaned off site completely, (ii) until work shall have been measured by the Engineer-In-Charge whose measurement shall be binding and conclusive and, (iii) until all the temporary works, labour and staff colonies etc. constructed are removed and the work site cleaned to the satisfaction of the Engineer-In-Charge. If Contractor shall fail to comply with the requirements as aforesaid or before date fixed for the completion of work, the Engineer-In-Charge may at the expense of Contractor remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit.
3. The following documents will form the completion documents:-
 - a) Technical documents according to which the work has been carried out.
 - b) Three sets of construction drawings showing therein the modifications and corrections made during the course of execution signed by the Engineer-In-Charge.
 - c) Completion Certificate for "Embedded" or "Covered" up work.
 - d) Certificate of final levels as set out for various works.

- e) Certificate of test performed for various work.
 - f) Material appropriation statement for the materials issued by owner for work and list of surplus materials returned to owner's store duly supported by necessary documents. (N.A.)
4. Upon expiry of the period of defect liability and subject to Engineer-In-Charge being satisfied that work has been duly maintained by Contractor during the defect liability period of fixed originally or as extended subsequently and that Contractor has in all respects made up any subsidence and performed all his obligations under contract, the Engineer-In-Charge (without prejudice to the rights of owner in any way) give final certificate to that effect. The Contractor shall not be considered to have fulfilled the whole of his obligation until final certificate shall have been given by the Engineer-In-Charge.
5. **Final Certificate only evidence of completion:**
Except the final certificate, no other certificate of payment against a certificate or on general account shall be taken to be an admission by owner of the due performance of contract or any part thereof of occupancy or validity or any claim by the Contractor.

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

1. Contractor agrees to and does hereby accept full and exclusive liability for the payment of any and all taxes including Sales Tax, Duties, etc., now or hereinafter imposed, increased or modified from time to time in respect of work and materials and all contributions and taxes for unemployment, compensation, insurance and old age pension or annuities now or hereinafter imposed by the Central or State Government authorities with respect to or covered by the wages, salaries or other compensation paid to the persons employed by Contractor.
If the Contractor is not liable to Sales Tax assessment, a certificate to that effect from the Competent Authority shall be produced without which final payment to the Contractor shall not be made No.P, 'C' and 'D' Form shall be supplied by the owner, and the Contractor shall be required to pay full tax as applicable.
2. Contractor shall be responsible for compliance with all obligations and restrictions imposed by the labour law or any other law affecting employer-employee relationship.
3. Contractor further agrees to comply and to secure the compliance of all sub contractors with applicable Central, State, Municipal and local laws and regulations and requirement. Contractor also agrees to defend, indemnify the hold harmless the owner from any liability or penalty which may be imposed by Central, State or local authority by reasons of any violation by Contractor or sub Contractor of such laws, regulations or requirements and also from all claims, suits or proceedings that may be brought against owner arising under, growing out of or by reasons or work provided for by this Contract by third parties or by Central or State Government authority or any administrative Sub-Division thereof.

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

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 harmless from any liability or penalty which may be imposed by the Central or State Government or local authority by reasons of any assorted violation by Contractor or Sub-Contractor or the Employees State Insurance Act, 1948 and also from all claims, suits or proceedings that may be brought against owner arising under, growing out of or by reasons of the work provided for by this contract whether brought by employees of Contractor by third parties or by Central or State Government authority or any administrative Sub-division thereof.

Contractor agrees to fill in with the Employees State Insurance Corporation, the declaration form and all forms which may be required in respect of Contractor's or sub-Contractor's employees whose aggregate remuneration is Rs.400/- p.m. or less and who are employed in work provided for or those covered by ESI from time to time under the agreement. The Contractor shall deduct and secure the agreement of the sub-Contractor to deduct the employees contribution as per the first schedule of the Employees State Insurance Act from wages. Contractor shall remit and secure the agreement of sub-contractor to remit to the State Bank of Indian Employees State Insurance Accounts, the employee's contribution as required by the Act. Contractor agrees to maintain all cards and records as required under the Act in respect of employees and payments and Contractor shall secure the agreements of the sub contractors to maintain in such records, any expenses incurred for the contributions, making contributions or maintaining records shall be to Contractors or sub-contractors own account. owner shall retain such sum as may be necessary from the contract value until Contractor shall furnish satisfactory proof that all contribution as required by the Employees State Insurance Act, 1948 have been paid.

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

GC-90

DAMAGE TO PROPERTY :

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

agreement, such claims result from the fault and / or negligence or willful act or omission of Contractor, his employees, agents representative or sub-contractor.

GC-91

CONTRACTOR TO INDEMNIFY OWNER :

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

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

GC-92

IMPLEMENTATION OF APPRENTICE ACT 1954 :

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

GC-93

HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS:

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

GC-94

SAFETY CODE :

General :

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

1.0

First Aid and Industrial Injuries :

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

2.0 General Rules :

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

3.0 Contractor's Barricades :

- 3.1 Contractor shall erect and maintain barricades without any extra cost, required in connection with his operation to guard or protect during the entire phase of the operation of this contract for -
 - i) Excavation
 - ii) Hoisting areas
 - iii) Areas adjudged hazardous by Contractor's OR Owner's inspectors.
 - iv) Owner's existing property liable to be damaged by Contractor's operations, in the opinion of Engineer-In-Charge / Site Engineer.
- 3.2 Contractor's employees and those of his sub-contractors shall become acquainted with owner's barricading practices and shall respect the provisions thereof.
- 3.3 Barricades and hazardous areas adjacent to but not located in normal routes of travel shall be marked by red lantern at night.

4.0 Scaffolding :

- 4.1 Suitable scaffolding shall be provided for workman for all works that cannot safely be done from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and handholds shall be provided on the ladder and the same shall be given an inclination not steeper than 1 in 4 (1 horizontal and 4 vertical).
- 4.2 Scaffolding or staging, more than 3.6 M. (12') above the ground or floor, swing or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached, bolted, braced and otherwise fixed at least 1.0 M (3') high above the floor or platform or scaffolding or staging and extending along the entire length of the outside ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- 4.3 Working platforms, gangways, and stairways should be so constructed that they should not sag unduly or inadequately and if the height of the

platform or the gangway of the stairway is more than 3.6 (12') above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in 4.2 above.

- 4.4 Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 1.0 M (3'.0").
- 4.5 Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9.0 M. (30') in length while the width between the side rails in rung ladder shall in no case be less than 30 cms (12 inches) for ladder up to and including 3.0 M. (10'), in longer ladders this width would be increased at least 6 mm (1/4") for each addition 30 c.m. (1.0) of length. Uniform step spacing shall not exceed 30 cms. (12"). Adequate precaution shall be taken to prevent danger from electrical equipment. No materials on any of the side of work shall be so stacked or placed as to cause danger or inconvenience to any person or public. The Contractor shall also provide all necessary all necessary fencing and lights to protect the workers and staff from accidents, and shall be bound to bear the expenses of defence of every suit action or other proceedings at law that may be brought by any persons for injury sustained owing to neglect of the above precautions and to pay damages and costs which may be awarded in any such suit or action or proceedings to any such person, or which, may be with the consent of the Contractor be paid to compromise any claim by any such person.

5.0 Excavation :

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

6.0 Demolition :

- 6.1 Before any demolition work is commenced and also during the progress of the work all roads and open area adjacent to the work site shall either be closed or suitably protected.
- 6.2 No electric cable or apparatus which is liable to be a source of danger shall remain electricity charged.
- 6.3 All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion 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 :

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

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

8.0 Risky Place :

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

9.0 Hoisting Equipment :

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

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

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

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

9.5 In case of every hoisting machine and of every chain ring hook, shackle, swivel and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.

9.6 In case of departmental machine, the safe work load shall be notified by the Engineer-In-Charge, as regards Contractor s machine, the Contractor shall, notify, the safety working load of the machine to the Engineer-In-Charge. Whenever the Contractor brings any machinery to site of work he should get it verified by the Engineer-In-Charge concerned.

10.0 Electrical Equipment :

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

11.0 Maintenance of Safety Devices :

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

12.0 Display of Safety Instructions :

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

13.0 Enforcement of Safety Regulations :

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

14.0 No Exemption :

14.1 Notwithstanding the above clause 1.0 to 13.0 there is nothing to exempt the Contractor from the operations of any other Act or Rules in force in the Republic of India.

14.2 In addition to the above, the Contractor shall abide by the safety code provisions as per C.P.W.D. safety code framed from time to time.

GC-95 ACCIDENTS :

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

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

Addl/Asst. Engineer

Dy.Ex.Engineer

ADDL. CITY ENGINEER

R.M.C.**R.M.C.****R.M.C.****Signature of Contractor with Seal**

PART-II

SECTION - 3

TECHNICAL SPECIFICATIONS

PART-II
SECTION – 3
TECHNICAL SPECIFICATIONS

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:: TECHNICAL SPECIFICATIONS ::

A. GENERAL

1. SCOPE OF CONTRACT :

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

2. e-TENDER PRICE:

The rates quoted in the bill of quantities shall cover everything necessary for the due and complete execution of the work according to the drawings and other condition and stipulations of the contract including specifications of the evident, intend and meaning of all or either of them or according to customary usage and for periodical and final inspection and test and proof of the work in every respect and for measuring, numbering or weighing the same, including setting out and laying or fixing in position and the provision of all materials, power, tools, rammers, labour, tackle, platforms with impervious lapped joints for scaffolding, ranging roads, straight edged, cantering and boxing, wedges, moulds, templates, posts, straight rods, straight edged, cantering and boxing, wedges, moulds, templates, posts, straight rails, boning staves strutting, barriers, fencing lighting pumping apparatus, temporary arrangement for passage of traffic access to premises and continuance to drainage water supply and lighting (if interrupted by contractor's work) temporary sheds, painting, varnishing, polishing establishment for efficient supervision and 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 contractor and the contractor shall sign the orders given by the inspecting officers and shall carry out them properly.
- 4.5 Quantities specified in the e-Tender may vary at the time of actual execution and the contractor shall have no claim for compensation on account of such variation
- 4.6 Unexcavated lengths shall be left wherever required and so directed by the Engineer in charge during the currency of the contract and shall be tackled. If required, before completion of work.
- 4.7 Diversion of road, if necessary, shall be provided and maintained during the currency of the contract by the contractor at his cost.
- 4.8 Figured Dimensions of drawing shall supersede measurements by scale, special dimensions or directions in the specifications shall supersede all other dimensions.
- 4.9 All levels are given on drawings and the contractor shall be responsible to take regular level on the approved alignment before actually starting the work. The levels shall be commence to the G.T.S. levels and shall be got approved from the Engineer in charge
- 4.10 If the arrangement of temporary drainage is required to be

made during any work of this Contract, this shall be made by the Contractor without claiming any extra cost.

5. CLASSIFICATION OF STRATA:

- 5.1 All materials encountered in excavation will be classified in the following groups irrespective of mode of excavating the materials and the decision of the Engineer in charge in this regard shall be final and binding to the contractor.
- 5.2 Soils :
Soils of all sorts, silt, sand, gravel, soft murrum, stiff clay, kunkar and other soft excavation not covered in the items mentioned hereunder.
- 5.3 Hard Murrum :
Hard Materials comprising of all kinds of disintegrated rock or shale or indurate conglomerate interspersed with boulders, weathered and decomposed rock which could be removed with pick, bar, shove, wedges and hammers, though not without some difficulties.
- 5.4 Soft – Rock:
This shall include all materials which is rock but which does not need blasting and can be removed with a pick bar, wedges, pavement breakers, pneumatic tools etc.
- 5.5 Hard Rock:
This shall include rock occurring in mass or boulders which need blasting, this will also include rock to be removed by chiseling or any other method where blasting is not permissible.
6. The rates are inclusive of dewatering, if required.
7. Regarding water supply for hydro testing, necessary water, power, labour, etc. required for necessary test shall be arranged by the contractor at his own cost.
8. During construction activity, proper care must be taken for labour safety and must follow the provisions of the Labour laws.
9. TMT bars of Fe-500 should be conforming to IS:1786. The approved makes shall be TATA, SAIL, Vizag, Gallent, Electrotherm or other equivalent make as approved by engineer-in-charge.
10. Cement shall be ordinary Portland cement 53 Grade conforming to IS:269, IS:8112 or IS:12269 for all the works as per the instructions

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

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

A. DETAILED TECHNICAL SPECIFICATIONS

B1 MATERIAL SPECIFICATION

1. Material:

M-1 Water:

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

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

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

Hard and bitter water shall not be used for curing.

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

M-2 Lime:

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

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

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

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

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

M-3 Cement:

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

M-4 White Cement:

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

M-5 Colored Cement:

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

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

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

M-6 Sand:

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

Coarse Sand:

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

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

Fine Sand:

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

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

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

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 Designation	Percentage passing through sieve	IS Sieve Designation	percentage pass- 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 Designation	Percentage passing	IS Sieve Designation	percentage passing
20 mm	100%	4.75 mm	70
10 mm	86	2.36 mm	52

M-10 Lime Mortar:

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

Proportion of Mix:

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

Preparation of Mortar:

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

Storage:

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

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

M-11 Cement Mortar:

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

Proportion of Mix:

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

Proportion of Mortar:

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

The mortar so prepared shall be used within 30 minutes of adding water. Only such quantity of mortar shall be prepared as can be 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- tion	Percentage passing for single sized aggregates of nominal size			IS Sieve desig- nation	Percentage passing for single sized aggregates of nominal size		
	40 mm	20 mm	16 mm		40 mm	20 mm	16 mm
80 mm	--	--	--	12.5 mm	--	--	--
63 mm	100	--	--	10 mm	0.5	--	0.30
40 mm	85-100	100	--	4.75 mm	--	0.20	0.5
20 mm	0-20	85-100	100	2.35 mm	--	0.50	--
16 mm			8-100	--	--	--	--

Note:

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

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

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

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

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

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

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

M-14 Brick Bats Aggregate:

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

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

M-15 Bricks:

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

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

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

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

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

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

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

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

M-16 Stone:

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

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

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

M-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.

Signature of Contractor

DETAILED TECHNICAL SPECIFICATIONS

Item No.1 and 2:

Excavation for Road work including bitumen surface upto 20 cm depth and extra depth upto 45 cm

The land with required for the road way shall be cleared of all trees having a girth of 30 cms and less, loose stones, vegetation, bushes, stumps and all other objectionable materials. The roots of trees and stumps shall be removed to a depth of 30 cms below the grade of formation and slope of excavation filled up with excavated materials and compacted. All the materials cleared will be the property of Rajkot Municipal Corporation.

After clearing the site, the alignment of the road shall be properly set out true to lines, curves, grades and sections as shown on plan or directed by the engineer-in-charge. The contractor shall provide all labour and materials such as lime, strings, pegs, nails, bamboos, stone mortal, concrete etc. required for setting out alignment establishing bench marks and giving profiles. The contractor will be responsible for maintaining BM alignments, and other stakes and marks.

The excavation shall be finished neatly smooth and evenly to correct lines, curves, grades if loose shall be scarified watered and compacted. The contractor shall on no account excavate beyond the slope or below the specified level or outside the section. It shall not be paid for and the contractor shall be required to fill up at his own cost with good and approved material by engineer in charge.

Disposal of all rubbish and removing of excavated soil as per the instructions from engineer-in-charge.

All necessary traffic arrangement is to be done by contractor. No extra will be paid for this.

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

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

The payment shall be made at per square meter basis.

Item No.3:

Excavation of Foundation in Soft Murrum, Soil or Sand from 0.0 mtr. to 3.00 mtr depth including lifting and laying in 90 mtr. lead area as instructed

1.0 General:

- 1.1** Any soil which generally yields to the application of the pickaxes and shovels, phawaras rakes or any such ordinary excavation

implement or organic soil, gravel, slit, sand turf lawn, clay, peat etc. fall under this category.

2.0 Cleaning the site:

2.1 The site on which the structure is to be built shall be cleared, and all obstructions, loose stone, materials and rubbish of all kind, bush, wood and trees shall be removed as directed. The materials so obtained 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.

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.4:

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

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

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

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

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

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

Mode of Measurement and Payment:

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

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

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

Item No.5:

- A) Supplying of hard murrum binding material.**
- B) Spreading bindage or road crust filling the gaps in metal and leveling to camber and gradient and directed murrum.**

- A) Material for the purpose shall be approved quality. Any material which is found inferior shall be rejected and contractor shall remove such rejected material from the site at his own cost.

The material shall be got approved by the CITY ENGINEER (SPECIAL) prior to collection on the site. It shall be free from all rubbish, dust and any organic materials as well as clouds of black cotton soils.

For road work, complete stocking of materials as per requirements shall be carried out 200 m length or as per condition of site or as per instructions of site incharge before spreading. The stacks of materials shall be got cross checked by Dy.Ex.Engineer as per rules before spreading.

Where any doubt exists as whether quantity of stacking of murrum corrected by contractor, no extra payment shall be claimed by contractor. If the quantity of murrum in any stack found less than standard measurement viz; 1.5 cmt. The entire shall be paid on the basis of the quantity so found.

The payment shall be on cubic meter basis without deduction for voids. The contractor shall maintain all stacks in regular and proper size till whole material shall not measure and finally accepted by the department.

The rates includes cost of collection, conveyance to the site with all lead and lift and filling the boxes including all labours, tools, equipment and other expenses. The rates quoted are inclusive of all such tools, duties, royalties, taxes etc.

- B) Spreading of material shall be started after the full supply in particular length is collected, measured and recorded. Permission of Engineer in-charge shall be obtained before spreading. It shall be seen that formation is dressed to required camber and grade. If the murrum is to be spread over the metaled surface then the spreading shall be uniform and as it has to act as binding surface. It shall be used for filling the interstices of metal and forming a smooth running surface as far as possible. Murrum bindage shall be spread evenly with a twisting motion of the baskets. No more murrum shall be used than specified as bindage. The contractor shall do good all unevenness, depression, projection etc. during consolidation work. Rate of these items includes all these operation except consolidation. **Also, the work is to be carried out with Mini Roll / Road Roller / Hand Roll as may be required for the work as per the requirement and instructions of engineer in charge.** The payment shall be made on cubic meter basis.

The testing of material is to be carried out by the Agency at his own cost.

Item No.6:

Rolling and consolidation water bound macadam (except latrite and kankar) including watering, not exceeding 150 mm thickness main layer including binding material including filling in depression which occur during the process (B) with roller 8 ton and not exceeding 12 ton

Immediately following the spreading of the coarse aggregates rolling shall be started with three wheeled roller of 8 to 10 ton capacity. The rolling and watering includes of work for two separate layer of mtalling.

Except on super elevated portions where the rolling shall proceed from inner edge to outer, rolling shall from the edges gradually progressing towards the center. First the edges shall be compacted with roller running forward and backward. The roller shall then move inwards parallel to center line of the road in successive passes uniformly lapping preceding tracks by at least one half the width. The total work includes four times of rolling in two layers of metalling.

Rolling shall continue until the aggregate is thoroughly keyed and creeping of the aggregate ahead of the roller is no longer visible.

The rolled surface shall be checked transversely and longitudinally with templates and any irregularities corrected by loosening the surface, adding or removing necessary amount of aggregate and rolling until the entire surface conforms to desired camber and grade.

The bondage material where it is to be used shall be applied successively in two or more than layers of a slow and uniform rate after each application, the surface shall be copiously sprinkled with water, which water shall be applied to the wheels of rollers if necessary to wash down the binding material sticking to them. These operations shall continue until the resulting slurry after filling of voids forms a wave ahead of the moving roller.

After the final compaction of water bound macadam course, the road shall be allowed to dry overnight. Next morning hungry spots shall be filled with screenings of binding materials as directed lightly sprinkled with water if necessary and rolled.

Payment will be made at Rs.7.50 per square meter basis of the finished work for single layer and shall include water, rent of machinery, cost of fuel, wages of drivers and cleaners and murrum bund etc. for both.

Item No.7:

Excavation of trench for Pipes in Soft Murrum / Clay / Sand with all safety Provisions (with re-filling of trench) for depth from 1.51 to 3.0 mtr

1.0 General:

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

2.0 Cleaning the site:

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

3.0 Setting out:

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

4.0 Excavation:

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

5.0 Disposal of the excavated stuff:

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

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

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

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

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

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

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

Mode of Measurement and Payment:

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

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

Item No.8 to 10 and 33:

Providing, lowering, laying, and jointing R.C.C. pipes (Socket spigot with Rubber Ring) NP-3 class, conforming to ISI, for storm water drain with Spigot joints including all taxes, insurances, transportation, freight, charges, octroi, inspection charges, loading, unloading, conveyance, stacking, etc complete (IS : 458- 2003) = 1200mm, 900 mm and 300 mm dia

And

Glazed stoneware pipe for drainage 150 mm dia

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-in-charge. 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 top-edge 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-in-charge 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.

Handling 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 socket 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 then 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-in-charge, 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.11:

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

And

Item No.13:

Making of B type mh

And

Item No.34:

Drainage MH A type upto 1.5 meter Approx depth

The said drainage manhole as per drainage type design is to be 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 masonry 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 fall 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 No.11, 13 and 34 shall be for a unit of one number.

Item No.12:

RCC precast frame and cover with supply, fitting, fixing with complete as per specification 10ton size 700/700/90mm.

Precast RCC Square Frame and cover of 10 Tonne capacity of approved quality shall be brought. Manhole cover and frame shall be fixed in line level as per the instructions of Engineer-in-charge. The jail shall also have to be provided and necessary fitting and fixing work shall have to be carried as per requirement of engineer-in-charge.

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

Item No.14:**Precast RCC Circular Frame and cover of 20 Tonne capacity round of 600 mm dia.****SHAPES AND DIMENSIONS****Shapes**

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

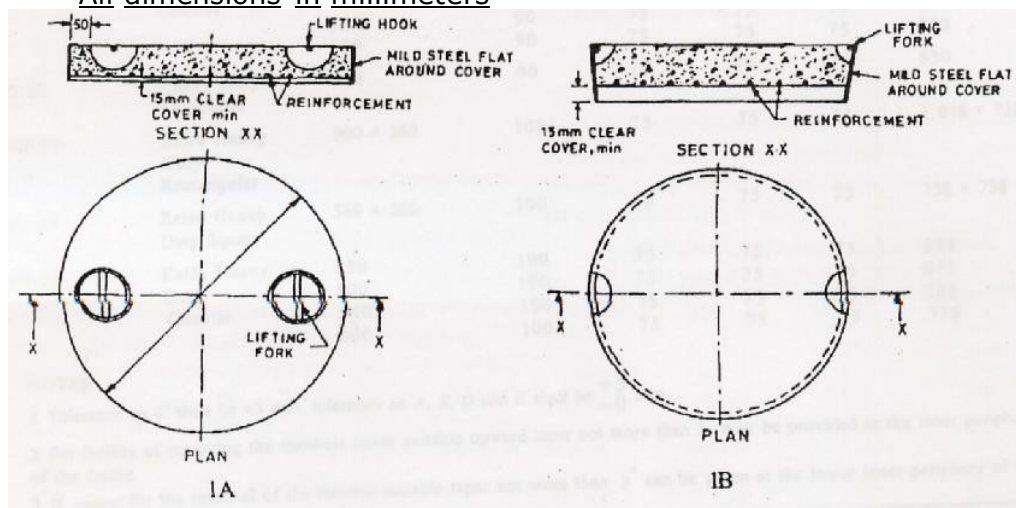
Dimensions And Tolerances

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 ± 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).

Fig.1 - Typical Illustration of Circular Precast Concrete Manhole Cover

All dimensions in millimeters



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 Circular	500	70	50	50	50	620
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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	Type	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.15:

Rubble Kerb block as divider stone (0.45 X 0.30 X 0.10) with fitting fixing etc complete

If Rajkot Municipal Corporation will provide cement concrete blocks prepared at Departmental Production Unit of Rajkot Municipal Corporation as per specified rate then Above CC Block is to be collected by the agency at their

cost and transport it to the required site. No transportation will be paid. If Divider Block is not available in RMC Production Unit then the contractor shall have to purchase the same from the market. Required excavation work shall be carried out by the agency on the paver road or conventional asphalt road as per depth and width as directed by Site Engineer. No extra payment will be made. The excavated stuff shall be disposed off as directed by the site incharge. Lime mortar of 1 part lime and 4 part of sand shall be well mixed and laid in minimum 50 mm thickness and C C precast rubber mould blocks shall be laid as per proper alignment keeping in mind the projection of tiles laying bed in the inner side of the block. Cement mortar of 1:6 is required to be used for 18 mm vatta and aesthetic groove shall be made as directed between the two blocks with proper vatta along with cement paste with required tamping etc complete as directed by Site Engineer. Minimum 75 mm x 75 mm triangular shaped lodhiya shall be casted with 1:2:4 cement concrete on both outer side of the block. The portion between the two blocks below the tile flooring level shall be filled with quality hard murrum and shall be watered for achieving proper compaction as directed and shall be tampered properly.

If Cement concrete blocks shall be purchased from Corporation Departmental Production Unit by deduction from bill amount. If the material is supplied from RMC Store, Rajkot Municipal Corporation will be deduct the amount for such supply as per the current S.O.R. rate of Rajkot Municipal Corporation. Excavated stuff shall be removed and spread within 90m lead as directed and no extra cost will be given.

The required stone shall either be supplied by Store or if required, as and when it is to be purchased from market shall be got approved from RMC. The stone shall be of good in quality if it is purchased from market and of sharpened edge and of sufficient crushing strength as per I.S. The testing shall be carried out at the cost of the bidder

Mode of measurement shall be as per unit of one number.

Item No.16:

Supply and fixing of 80 mm thick M-30 i.e. compressive strength of 300 Kg / sq.m. cement concrete rubber mold interlocking paving blocks (Grey Color) ISI Mark to be supplied and fixed as instructed with Concreting 1:2:4 the end of blocks (with Cement joints) in bedding of black stone sand for 50 mm thick leveling and fixing of interlocking blocks in line level on it with compacter machine and cleaning and filling the joints with sand (without cement vata) including cement concrete prop. 1:2:4 as per instruction in gap at end block and color as per instruction including curing complete

5.1 Paver Block Manufacturing facilities

RAJKOT MUNICIPAL CORPORATION, at its discretion shall nominate its representative for inspection of the factory. Party shall co-ordinate and co-operate with representative of RAJKOT MUNICIPAL CORPORATION. The

party shall inform the address, telephone numbers and other details of the workshop and the contact person to enable RAJKOT MUNICIPAL CORPORATION depute its representative. The party shall allow entry to RAJKOT MUNICIPAL CORPORATION representative during all working days and time.

The Paver Block shall be made in factory with following minimum facilities:

5.1.1 Design Mix Concrete:

- (a) All pavers designated by strength shall be treated as design mix concrete. The aggregate and cement shall be measured by weight in an approved weigh batching equipment. Mixing water shall be measured in graduated litre cans. One or more complete bags of cement shall be used for each batch of concrete.
- (b) The contractor shall be responsible for designing mixes of the specified performance to suit the degree of workability and characteristic strength. The mix design shall be finalized before manufacturing of the paver considering a set of suppliers for cement, sand and aggregates. In case of any change of suppliers of cement, sand or aggregates, party should have design mix ready for alternate suppliers.
- (c) The minimum cement content for compacted concrete of pavers shall not be less than 300/350/400 Kg / sq mtr as per design.
- (d) The maximum water cement ratio for pavers concrete shall not be more than 0.40
- (e) The design mix proportions for each set of raw material suppliers shall be finalized and approved by the authorized lab for the required compressive strength and the lab report with proportions should be available with the vendor at all times for scrutiny and verification purpose.

5.1.2 Paver Block Making Machine:

The machine should be capable of producing high quality Paver Blocks by obtaining high level of compaction by application of hydraulic compaction and also by high intensity vibration to the moulds. The machine should have automatic control panel and shall apply a minimum pressure of 3000 psi and then there shall be automatic cut off of hydraulic circuit without any manual interference. In no case, pavers mould by manual force or by machine without auto cut off shall be accepted. All pavers shall have uniformity in strength.

5.1.3 Weigh Batching & Mixing Equipment:

- (a) The proportioning of ingredients of concrete per batch of concrete shall be performed by an approved weigh batching machine. Water shall be fed into the mixer from a tank provided with means for adjusting the flow of water so as to supply the quantity determined for concrete as per mix design. Due allowance shall be made for the weight of water carried by aggregates so that actual amount added at the mixer can be reduced as necessary. For this purpose the moisture content of coarse and fine aggregates shall be ascertained as and when required and at other times when alteration of the moisture content may be expected due to new deliverance of aggregates, inclement weather or other reasons.
- (b) Volumetric batching of concrete may be allowed after the design mix is approved by lab after testing, by converting the proportion of concrete from weight to volumetric measurement subject to facilities being made available by the contractor for verifying and monitoring this.
- (c) All necessary equipment such as measuring boxes, devices for determination of moisture and bulking in sand, slump cone, etc. shall be provided by the contractor. Concrete shall be machine mixed until there is a uniform distribution of materials and uniform colour and consistency is achieved and under no circumstances for less than two minutes.

The concrete Mix Design should be followed for each batch of materials.

5.1.4 Curing :

The factory should have well designed curing area to ensure adequate (minimum 14 days) curing of paver blocks.

5.1.5 Laboratory

The factory should have the following:

- (i) Compression testing machine of capacity minimum 200 MT
- (ii) Other tools and equipment for testing raw materials and paver blocks.
- (iii) (1) Systematic record of test results of various paver blocks manufactured in the factory.
- (2) Concrete Mix Design for desired grade of concrete used for making of paver blocks.

5.2. Raw Materials.

5.2.1 CEMENT

The cement used in the manufacture of high quality precast concrete paving blocks shall be conforming to IS 12269 (53 grade ordinary

Portland cement) or IS 8112 (43 grade ordinary Portland cement) or IS 1489 (Part 1) (Portland-pozzolana cement – fly ash based). The minimum cement content in concrete used for making paver blocks should be 380 kg/Cum.

5.2.2 AGGREGATES

The fine and coarse aggregates shall consist of naturally occurring crushed or uncrushed materials, which apart from the grading requirements comply with IS 383-1970. The fine aggregates used shall contain a minimum of 25% natural silicon sand. Lime stone aggregates shall not be used.

Aggregates shall contain no more than 3% by weight of clay & shall be free from deleterious salts and contaminants. Zone iv sand shall not be acceptable. Course aggregate shall be 10 mm and below.

5.2.3 WATER

The water shall be clean and free from any deleterious matter. It shall meet the requirements stipulated in IS: 456-2000.

5.2.4 OTHER MATERIALS

Any other materials / ingredients used in the concrete shall conform to I.S. Specifications.

PIGMENT: The pigment shall be used only on wearing and top surface and throughout the paver block. The pigment used shall not be more than 10% of weight of cement used in the wearing course layer. However, use of pigment shall in no way alter the required strength of the paver block.

Pigment used for coloring paver blocks shall have durable color. It shall not contain matters detrimental to concrete. The pigment shall not contain Zinc compound. Lead pigment shall not be used.

5.3. Pavers Block Characteristics

5.3.0 The inter locking concrete paver tiles should conform to IS-15658 (LATEST). They shall be tested as per the code and have to qualify limits specified by us down below.

5.3.1 The paver tiles should be made of M-30 (80 mm) design mix concrete in approved size and shape. For acceptance the average of compressive strengths of 8 pavers shall be minimum 30 N/mm² (MPa). Any paver in the tested lot shall not have compressive strength less than 30.1 MPa. If needed, pavers shall be designed and manufactured on higher side to concrete grade M-30 to meet this requirement without extra cost to RAJKOT MUNICIPAL CORPORATION. Testing shall be done as per relevant clauses of IS-15658 (LATEST).

- 5.3.2 The concrete pavers should have perpendicularities after release from the mould and the same should be retained until the laying.
- 5.3.3 The surface should be of anti skid and anti glare type.
- 5.3.4 The paver should have uniform chamfers to facilitate easy drainage of surface run off.
- 5.3.5 The concrete mix design should be followed of each batch of materials separately and weigh batching plant is to be used to achieve uniformity in strength and quality.
- 5.3.6 The pavers shall be manufactured in single layer or more to ensure smooth surface on top and to remove all voids.
- 5.3.7 The pavers shall be of cement Grey colour without any pigment or colored with pigment or with chemically treated top surface as specified.
- 5.3.8 All paver blocks shall be sound and free of cracks or other visual defects, which will interfere with the proper paving of the unit or impair the strength or performance of the pavement constructed with the paver blocks.
- 5.3.9 The compressive strength requirement of concrete paver block shall be minimum 30 MPa (N/sqmm) for 28 days (Testing as per IS-15658) after applying the correction factor as per IS-15658 (LATEST). (Please refer clause 3.1 also).

5.4. Paver Block Dimensions

Thickness	60 / 80mm
Shape	Regular (Uniform shape with no Hollow or Cracks)
Chamfer	5 mm to 7 mm along top edges
Thickness of Wearing Layer	Minimum 6 mm (The thickness of the wearing surface shall be measured at several points along the periphery of paver blocks. The arithmetic mean of the lowest two values shall be the minimum thickness)
Plan Area A_{sp} (Ref. Cl.B-3.3 Annex B, IS-15658 (LATEST))	Maximum 0.03 m^2
Colour	Natural cement Grey colour without use of any pigment OR colour as specified
Dimensional Tolerance	Tolerances as per IS-15658 (LATEST)

Note: All other visual/physical & dimensional acceptance on parameters like aspect ratio, squareness etc to be as per IS-15658 (LATEST)

5.5. Testing of Paver Blocks

1 FOR 60 / 80MM PAVER TILES

TEST	SPECIFICATION Average Values
28 day Compressive Strength	Minimum 30 MPa (N/Sqmm)
Abrasion Resistance	Maximum 2 mm [i.e. 10 units of 1000 mm ³ per 5000 mm ² reported as per E-5 of Annex E of IS-15658 (LATEST)]
Water Absorption	Avg. of 3 units - Maximum 6% by mass (restricted to 7% in individual test units)

☐ **Sampling and Testing Procedure strictly As Per IS-15658 (LATEST).**

5.6. Laying of Paver Blocks

5.6.1 PRIMING

The contractor is required to verify the existing WBM driveway surface and ascertain the CBR value. Accordingly the total subgrade thickness required for achieving the desired CBR value shall be advised to RAJKOT MUNICIPAL CORPORATION within seven days of receipt of call-up. RAJKOT MUNICIPAL CORPORATION shall, through regular vendors arrange to carryout such WBM, wherever required. Before taking over the site, the Paver block laying party is required to verify the stabilization of the surface with CBR values. In case, contractor does not advise the CBR value within seven days, RAJKOT MUNICIPAL CORPORATION shall carry out WBM as per own design, and contractor shall have no claim later particularly to the quality of WBM or sub-grade.

It will be the responsibility of the Paver block party to ensure that the Manholes / Pipeline / Cable trenches / circular drainage system etc. is raised to driveway level using the requisite materials as per instruction of EIC. The areas of potholes / deep depressions at the isolated locations shall be filled up and properly compacted before laying the paver blocks. No extra payment will be made for this purpose. The area of raised manholes shall be included in the measurement of overall area of paver blocks for the purpose of payment.

5.6.2 BEDDING SAND COURSE

The bedding sand shall consist of naturally occurring, clean, well graded sand passing through 4.75mm sieve and suitable to concrete

manufacture. The bedding should be from either a single source or blended to achieve the following grading.

IS SIEVE SIZE	% PASSING
9.52mm	100
4.75mm	95-100
2.36mm	80-100
1.18mm	50-100
600 microns	25-60
300 microns	10-60
150 microns	5-15
75 microns	0-10

Contractor shall be responsible to ensure that single-sized, gap-graded sands or sands containing an excessive amount of fines or plastic fines are not used. The sand particles should preferably be sharp, not rounded. The sand used for bedding shall be free of any deleterious soluble salts or other contaminants likely to cause efflorescence.

The sand shall be of uniform moisture content, which shall be within 4% - 8%, at the time of spreading and shall be protected against rain when stockpiled prior to spreading. Saturated sand shall not be used.

The bedding sand shall be spread loose in a uniform layer as per drawing. The compacted uniform thickness shall be 50mm and within \pm 5mm. Thickness variation shall not be used to correct irregularities in the base course surface.

The spread sand shall be carefully maintained in a loose dry condition and protected against pre-compaction both prior to and following spreading. Any pre-compacted sand left overnight shall be loosened before further laying of paver blocks takes place.

Sand shall be slightly spread in a loose condition to the predetermined depth only slightly ahead of the laying of the paver block.

Any depressions in the spread sand exceeding 5mm shall be loosened, raked and re spread before laying of paver block.

5.6.3 LAYING OF INTERLOCKING PAVER BLOCK:

Paver block shall be laid in pattern as specified under cl. 7 throughout the pavement. Once the laying pattern has been established, it shall continue without interruption over the entire pavement surface. Cutting of blocks, the use of infill concrete or discontinuities in laying pattern is not to be permitted in other than approved locations.

Paving units shall be placed on the uncompacted sand bed to the nominated laying pattern; care shall be taken to maintain the specified

bond throughout the job. The first row shall be located next to an edge restraint. Specially manufactured edge paving units are permitted or edge units may be cut using a power saw, a mechanical or hydraulic guillotine, bolster or other approved cutting machine. No haphazardly broken pavers shall be used.

Paver block shall be placed with the help of spacers to achieve gaps nominally 2 to 3mm wide between adjacent paving joints. No joint shall be less than 2mm nor more than 4 mm. **However it is mandatory to use 3.0mm wide spacer while laying paver tiles so as to ensure uniform 3.0mm gap between adjacent pavers.** Frequent use of string lines shall be used to check alignment. In this regard, the "laying face" shall be checked at least every two metre as the face proceeds. Should the face become out of alignment, it must be corrected prior to initial compaction and before further laying job is proceeded with.

In each row, all full units shall be laid first. Closure units shall be cut and fitted subsequently. Such closure units shall consist of not less than 25% of a full unit.

To fill spaces between 25mm and 50mm wide, concrete having minimum 1:1:2 cement : sand : coarse aggregate mix and a strength of 40 N/Sqmm shall be used. Within such mix the nominal aggregate size shall not exceed one third the smallest dimension of the infill space. For smaller spaces dry packed mortar shall be used.

Except where it is necessary to correct any minor variation occurring in the laying bond, the paver block shall not be hammered into position. Where adjustment of position is necessary care shall be taken to avoid premature compaction of the sand bedding.

5.6.4 INITIAL COMPACTION

After laying the paver block, they shall be compacted to achieve consolidation of the sand bedding and brought to design levels and profiles by not less than two (2) passes of a suitable plate compactor.

The compactor shall be a high-frequency, low amplitude mechanical flat plate vibrator having plate area sufficient to cover a minimum of twelve paving units.

Prior to compaction all debris shall be removed from the surface. Compaction shall proceed as closely as possible following laying and prior to any traffic. Compaction shall not, however, be attempted within one meter of the laying face. Compaction shall continue until lipping has been eliminated between adjoining units. Joints shall then be filled and recompact as described in Clause 6.5

All work further than one meter from the laying face shall be left fully compacted at the completion of each day's laying.

Any blocks that are structurally damaged prior to or during compaction shall be immediately removed and replaced.

Sufficient plate compactors shall be available at the paving site for both bedding compaction and joint filling.

5.6.5 JOINT FILLING AND FINAL COMPACTION

As soon as practical after compaction and in any case prior to the termination of work on that day and prior to the acceptance of any traffic, sand for joint filling shall be spread over the pavement.

Joint sand shall pass a 2.36mm (No. 8) sieve and shall be free of soluble salts or contaminants likely to cause efflorescence. The same shall comply with the following grading limits:

IS SIEVE SIZE	% PASSING
2.36mm	100
1.8mm	90-100
600mm	60-90
300 microns	30-60
150 microns	15-30
75 microns	10-20

The Contractor shall supply a sample of the jointing sand to be used in the contract prior to delivering any such material to site for incorporation into the works. Certificates of test results issued by a recognised testing laboratory confirming that the sand sample conforms to the requirements of this specification shall be submitted prior to supply of total volume required.

The jointing sand shall be broomed to fill the joints. Excess sand shall then be removed from the pavement surface and the jointing sand shall be compacted with not less than one (1) pass of the plate vibrator and joints refilled with sand to full depth. This procedure shall be repeated until all joints are completely filled with sand. No traffic shall be permitted to use the pavement until all joints have been completely filled with sand and compacted.

Both the sand and paver block shall be dry when sand is spread and broomed into the joints to prevent premature setting of the sand.

The difference in level (lipping) between adjacent units shall not exceed 3mm with not more than 1% in any 3m X 3m area exceeding 2mm. Pavement portions which are deformed beyond above limits after final compaction, shall be taken out and relaid to the satisfaction of the Engineer in charge.

5.6.6 UNIFORM INTERLOCKING SPACES

The pavers should have uniform interlocking space of 2mm to 3mm to ensure compacted sand filling after vibration on the paver surface.

5.6.7 SKILLED LABOUR

Skilled labour should be employed for laying blocks to ensure line and level of pavers, desired shape of the surface and adequate compaction of the sand in the joints.

The rubber mold C C Precast interlocking paving block of approved quality 80 mm thickness, Grey Color and of M-40 And/Or M-30 Grade with concreting 1:2:4 and design shall be supplied by RMC. The bedding of **black stone** sand of interlocking block shall be done and the interlocking block shall be fixed hard on it in line and level. The contractor shall have to purchase the block of ISI Mark from the market and same shall have to be got approved from Rajkot Municipal Corporation.

The rate for this work shall be paid on one square meter basis.

Item No.17:

Painting of Traffic Strip Footpath / Circle & divider block size 0.38 x 0.30 x 0.30 in two coats using enamel paint in different colors

In this work the color work to road divider blocks except flooring including top the portion outside the road (from ground) is to be carried out with the oil paint of approved quality. The shade of various colors shall be used as approved by the engineer-in-charge. The work is to be carried out as per the instructions of engineer-in-charge.

For this color work, first of all primer is to be applied to old road divider blocks thereafter one coat is to be applied for whole work and shall have to be got checked from the engineer-in-charge and thereafter only the second coat is to be applied. The liquid between the two colors shall be done with due care and in line level.

The rate for this work shall be for running meter basis.

Item No.18:

Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density complete (Grade-I)

The work is to be carried out as per MoRTH Specification Clause No.401.

The material to be used for granular sub base must be confirming to MoRTH and the grade specified with respect to CBR value and the rate should be considered as per Schedule-B. The material used in the design must be used for the construction. The payment for this item will be made on Cubic Meter basis.

Item No.19:

Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing (As per MoRTH Sec. 601)

The work is to be carried out as per MoRTH Specification Clause No.601. The payment for this item will be made on Cubic Meter basis.

Item No.20:**Cement Concrete Pavement M-40**

Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 390 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing

Scope

The work shall consist of construction of unreinforced, dowel jointed, plain cement concrete pavement in accordance with the requirements of these Specifications and in conformity with the lines, grades and cross sections shown on the drawings. The work shall include furnishing of all plant and equipment, materials and labour and performing all operations in connection with the work, as approved by the Engineer-in-charge.

The design parameters, viz., thickness of pavement slab, grade of concrete, joint details etc. shall be as stipulated in the drawings.

Materials

Source of materials: The Contractor shall indicate to the Engineer the source of all materials to be used in the concrete work with relevant test data sufficiently in advance, and the approval of the Engineer for the same shall be obtained at least 45 days before the scheduled commencement of the work. If the Contractor later proposes to obtain materials from a different source, he shall notify the Engineer for his approval, at least 45 days before such materials are to be used with relevant test data.

Cement : Any of the following types of cement capable of achieving the design

strength may be used with prior approval of the Engineer, but the preference should be to use at least the 43 Grade or higher.

- i) Ordinary Portland Cement, 33 Grade, IS: 269.
- ii) Ordinary Portland Cement, 43 Grade IS: 8112.
- iii) Ordinary Portland Cement, 53 Grade, IS: 12269.

If the soil around has soluble salts like sulphates in excess of 0.5 per cent, the cement used shall be sulphate resistant and shall conform to IS: 12330.

Guidance may be taken from IS: SP: 23, Handbook for Concrete Mixes for ascertaining the minimum 7 days strength of cement required to match with the design concrete strength. Cement to be used may preferably be obtained in bulk form. If cement in paper bags are proposed to be used, there shall be bag-splitters with the facility to separate pieces of paper bags and dispose them of suitably. No paper pieces shall enter the concrete mix. Bulk cement shall be stored in accordance with Clause 1014. The cement shall be subjected to acceptance test just prior to its use.

Admixtures : Admixtures conforming to IS:6925 and IS: 9103 shall be permitted to improve workability of the concrete or extension of setting time, on satisfactory evidence that they will not have any adverse effect on the properties of concrete with respect to strength, volume change, durability and have no deleterious effect on steel bars. The particulars of the admixture and the quantity to be used must be furnished to the Engineer in advance to obtain his approval before use. Satisfactory performance of the admixtures should be proved both on the laboratory concrete trial mixes and in trial paving works. If air-entraining admixture is used, the total quantity of air in air-entrained concrete as a percentage of the volume of the mix shall be 5 ± 1.5 per cent for 25 mm nominal size aggregate.

Aggregates

Aggregates for pavement concrete shall be natural material complying with IS: 383 but with a Los Angeles Abrasion Test result not more than 35 per cent. The limits of deleterious materials shall not exceed the requirements set out in IS: 383.

The aggregates shall be free from chert, flint, chalcedony or other silica in a form that can react with the alkalis in the cement. In addition, the total chlorides content expressed as chloride ion content shall not exceed 0.06 per cent by weight and the total sulphate content expressed as sulphuric anhydride (SO^2) shall not exceed 0.25 per cent by weight.

Coarse aggregate: Coarse aggregate shall consist of clean, hard, strong, dense, non-porous and durable pieces of crushed stone or crushed gravel and shall be devoid of pieces of disintegrated stone, soft, flaky, elongated, very angular or splintery pieces. The maximum size of coarse aggregate shall not exceed 25 mm for pavement concrete. Continuously graded or gap graded

aggregates may be used, depending on the grading of the fine aggregate. No aggregate which has water absorption more than 2 per cent shall be used in the concrete mix. The aggregates shall be tested for soundness in accordance with IS: 2386 (Part-5). After 5 cycles of testing the loss shall not be more than 12 per cent if sodium sulphate solution is used or 18 per cent if magnesium sulphate solution is used.

Dumping and stacking of aggregates shall be done in an approved manner. In case the Engineer considers that the aggregates are not free from dirt, the same may be washed and drained for at least 72 hours before batching as directed by the Engineer.

Fine aggregate: The fine aggregate shall consist of clean natural sand or crushed stone sand or a combination of the two and shall conform to IS: 383. Fine aggregate shall be free from soft particles, clay, shale, loam, cemented particles, mica and organic and other foreign matter. The fine aggregate shall not contain deleterious substances more than the following:

Clay lumps	4.0 percent
Coal and lignite	1.0 percent
Material passing IS Sieve No. 75 micron	4.0 percent

Water: Water used for mixing and curing of concrete shall be clean and free from injurious amount of oil, salt, acid, vegetable matter or other substances harmful to the finished concrete. It shall meet the requirements stipulated in IS: 456.

Mild steel bars for dowels and tie bars : These shall conform to the requirements of IS : 432, IS : 1139 and IS : 1786 as relevant. The dowel bars shall conform to Grade S 240 and tie bars to Grade S 415 of I.S.

Premoulded joint filler: Joint filler board for expansion joints which are proposed for use only at some abutting structures like bridges and culverts shall be of 20-25 mm thickness within a tolerance of ± 1.5 mm and of a firm compressible material and complying with the requirements of IS: 1838, or BS Specification Clause No. 2630 or Specification for Highway Works, Vol. I Clause 1015. It shall be 25 mm less in depth than the thickness of the slab within a tolerance of ± 3 mm and provided to the full width between the side forms. It shall be in suitable lengths, which shall not be less than one lane width. Holes to accommodate dowel bars shall be accurately bored or punched out to give a sliding fit on the dowel bars.

Joint sealing compound: The joint sealing compound shall be of hot poured, elastomeric type or cold polysulphide type having flexibility, resistance to age hardening -and durability. If the sealant is of hot poured type it shall conform to AASHTO M282 and cold applied sealant shall be in accordance with BS 5212 (Part 2).

Storage of materials: All materials shall be stored in accordance with the provisions of Clause 1014 of the Specifications and other relevant IS

Specifications. All efforts must be made to store the materials in proper places so as to prevent their deterioration or contamination by foreign matter and to ensure their satisfactory quality and fitness for the work. The platform where aggregates are stock piled shall be levelled with 15 cm of watered, mixed and compacted granular sub-base material. The area shall have slope and drain to drain off rain water. The storage space must also permit easy inspection, removal and storage of the materials. Aggregates of different sizes shall be stored in partitioned stack-yards. All such materials even though stored in approved godowns must be subjected to acceptance test as per Clause 903 of these Specifications immediately prior to their use.

Proportioning of Concrete

After approval by the Engineer of all the materials to be used in the concrete, the Contractor shall submit the mix design based on weighed proportions of all ingredients for the approval of the Engineer. The mix design shall be submitted at least 30 days prior to the paving of trial length and the design shall be based on laboratory trial mixes using the approved materials and methods as per IS: 10262 (Recommended Guidelines for Mix Design) or on the basis of any other rational method agreed to by the Engineer. Guidance in this regard can also be obtained from IS: SP: 23 Handbook on Concrete Mixes. The target mean strength for the design mix shall be determined as indicated in Clause 903.5.2. The mix design shall be based on the flexural strength of concrete. Design flexural strength for the HVFA concrete pavement shall be 4.50 MPa

Cement content: The cement content shall not be less than 300 kg per cu.m.of concrete. If this minimum cement content is not sufficient to produce in the field, concrete of the strength specified in the drawings/design, it shall be increased as necessary without additional compensation under the Contract. The cement content shall, however, not exceed 425 kg per cum of concrete.

Concrete strength

While designing the mix in the laboratory, correlation between flexural and compressive strengths of concrete shall be established on the basis of at least thirty tests on samples. However, quality control in the field shall be exercised on the basis of flexural strength. It may, however, be ensured that the materials and mix proportions remain substantially unaltered during the daily concrete production. The water content shall be the minimum required to provide the agreed workability for full compaction of the concrete to the required density as determined by the trial mixes or other means approved by the Engineer and the maximum free water cement ratio shall be 0.50.

The ratio between the 7 and 28 day strengths shall be established for the mix to be used in the slab in advance, by testing pairs of beams and cubes at each stage on at least six batches of trial mix. The average strength of the 7 day cured specimens shall be divided by the average strength of the 28 day specimens for each batch, and the ratio 'R' shall be determined. The ratio 'R' shall be expressed to three decimal places.

If during the construction of the trial length or during normal working, the average value of any four consecutive 7 day test results falls below the required

7 day strength as derived from the value of 'R', then the cement content of the concrete shall, without extra payment, be increased by 5 per cent by weight or by an amount agreed by the Engineer. The increased cement content shall be maintained at least until the four corresponding 28 day strengths have been assessed for its conformity with the requirements as per Clause 602.3.1. Whenever the cement content is increased, the concrete mix shall be adjusted to maintain the required workability.

For HVFA concrete with high content of flyash, it is common to have low strength at early ages. The setting and hardening rate of HVFA concrete at early ages is lower, especially under cold winter conditions. But HVFA concrete possesses a unique characteristic of gaining strength up to period as long as 365 days and more. This is normally not being seen in routine concrete, which gains most of its strength by 28 days.

At present, there is no IS code available for HVFA concrete. In this context, 28 days cube or beam test results as specified in IS 456 shall not be directly applicable to HVFA concrete for acceptance criteria and following shall be considered as acceptance criteria for HVFA concrete.

Whenever cubes or beams are taken for quality verification, four samples of each (Three nos. of cubes in each sample, hence total 12 nos.) shall be taken. These samples shall be tested at 7, 28, 90 and 365 days. In case of sample results being on lower side at 7 or 28 days, concrete shall still be acceptable based on results at 90 days.

Workability:

The workability of the concrete at the point of placing shall be adequate for the concrete to be fully compacted and finished without undue flow. The optimum workability for the mix to suit the paving plant being used shall be determined by the Contractor and approved by the Engineer. The control of workability in the field shall be exercised by the slump test as per IS: 1199.

The workability requirement at the Batching Plant and paving site shall be established by slump tests carried during trial paving. These requirements shall be established from season to season and also when the lead from Batching plant site to the paving site changes. The workability shall be established for the type of paving equipment available. A slump value in the range of 30 ± 15 mm is reasonable for paving works but this may be modified depending upon the site requirement and got approved by the Engineer. These tests shall be carried out on every truck/dumper at Plant site and paving site initially when the work commences but subsequently the frequency can be reduced to alternate trucks or as per the instructions of the Engineer.

Sub-base

The cement concrete pavement shall be laid over the sub-base constructed in accordance with the relevant drawings and Specifications contained in Clause 601. If the sub-base is found damaged at some places or it has cracks wider than 10 mm, it shall be repaired with fine cement concrete or bituminous concrete before laying separation layer. Prior to laying of concrete it shall be

ensured that the separation membrane as per Clause 602.5 is placed in position and the same is clean of dirt or other extraneous materials and free from any damage.

Separation Membrane

A separation membrane shall be used between the concrete slab and the subbase. Separation membrane shall be impermeable plastic sheeting 125 microns thick laid flat without creases. Before placing the separation membrane, the sub-base shall be swept clean of all the extraneous materials using air compressor. Wherever overlap of plastic sheets is necessary, the same shall be at least 300 mm and any damaged sheeting shall be replaced at the Contractor's expense. The separation membrane may be nailed to the lower layer with concrete nails.

Joints

The location and type of joints shall be as shown in the drawing. Joints shall be constructed depending upon their functional requirement as detailed in the following paragraphs. The location of the joints should be transferred accurately at the site and mechanical saw cutting of joints done as per stipulated dimensions. It should be ensured that the full required depth of cut is made from edge to edge of the pavement. Transverse and longitudinal joints in the pavement and sub-base shall be staggered so that they are not coincident vertically and are at least 1m and 0.3m apart respectively. Sawing of joints shall be carried out with diamond studded blades soon after the concrete has hardened to take the load of the sawing machine and personnel without damaging the texture of the pavement. Sawing operation could start as early as 6-8 hours depending upon the season.

Transverse joints

Transverse joints shall be contraction and expansion joints constructed at the spacing described in the Drawings. Transverse joints shall be straight within the following tolerances along the intended line of joints which is the straight line transverse to the longitudinal axis of the carriageway at the position proposed by the Contractor and agreed to by the Engineer, except at road junctions or roundabouts where the position shall be as described in the drawings:

- i) Deviations of the filler board in the case of expansion joints from the intended line of the joint shall not be greater than ± 10 mm.
- ii) The best-fit straight line through the joint grooves as constructed shall be not more than 25 mm from the intended line of the joint.
- iii) Deviations of the joint groove from the best-fit straight line of the joint shall not be greater than 10 mm.
- iv) Transverse joints on each side of the longitudinal joint shall be in line with each other and of the same type and width. Transverse joints shall have a sealing groove, which shall be sealed in compliance with Clause 602.11.

Contraction joints : Contraction joints shall consist of a mechanical sawn joint

groove, 3 to 5 mm wide and $1/4$ to $1/3$ depth of the slab \pm 5 mm or as stipulated in the drawings and dowel bars complying with Clause 602.6.5 and as detailed in the drawings.

The contraction joints shall be cut as soon as the concrete has undergone initial hardening and is hard enough to take the load of joint sawing machine without causing damage to the slab.

Expansion joints : The expansion joints shall consist of a joint filler board complying with Clause 602.2.7 and dowel bars complying with Clause 602.6.5 and as detailed in the drawings. The filler board shall be positioned vertically with the prefabricated joint assemblies along the line of the joint within the tolerances given in Clause 602.6.2.1 and at such depth below the surface as will not impede the passage of the finishing straight edges or oscillating beams of the paving machines. The adjacent slabs shall be completely separated from each other by providing joint filler board. Space around the dowel bars, between the sub-base and the filler board shall be packed with a suitable compressible material to block the flow of cement slurry.

Transverse construction joint: Transverse construction joints shall be placed whenever concreting is completed after a day's work or is suspended for more than 30 minutes. These joints shall be provided at the regular location of contraction joints using dowel bars. The joint shall be made butt type. At all construction joints, steel bulkheads shall be used to retain the concrete while the surface is finished. The surface of the concrete laid subsequently shall conform to the grade and cross sections of the previously laid pavement. When positioning of bulk head/ stop-end is not possible, concreting to an additional 1 or 2 m length may be carried out to enable the movement of joint cutting machine so that joint grooves may be formed and the extra 1 or 2 m length is cut out and removed subsequently after concrete has hardened.

Longitudinal joint:

The longitudinal joints shall be saw cut as per details of the joints shown in the drawing. The groove may be cut after the final set of the concrete. Joints should be sawn to at least $1/3$ the depth of the slab \pm 5 mm as indicated in the drawing.

Tie bars shall be provided at the longitudinal joints as per dimensions and spacing shown in the drawing and in accordance with Clause 602.6.6.

Dowel bars:

Dowel bars shall be mild steel rounds in accordance with Clause 602.2.6 with details/dimensions as indicated in the drawing and free from oil, dirt, loose rust or scale. They shall be straight, free of irregularities and burring restricting slippage in the concrete. The sliding ends shall be sawn or cropped cleanly with no protrusions outside the normal diameter of the bar. The dowel bar shall be supported on cradles/dowel chairs in pre-fabricated joint assemblies positioned prior to the construction of the slabs or mechanically inserted with vibration into the plastic concrete by a method which ensures correct placement of the bars besides full re-compaction of the concrete around the dowel bars.

Unless shown otherwise on the drawings, dowel bars shall be positioned at mid depth of the slab within a tolerance of ± 20 mm, and centered equally about intended lines of the joint within a tolerance of ± 25 mm. They shall be aligned parallel to the finished surface of the slab and to the centre line of the carriageway and to each other within tolerances given hereunder, the compliance of which shall be checked as per Clause 602.10.7.

- i) For bars supported on cradles prior to the laying of the slab:
 - a) All bars in a joint shall be within ± 3 mm per 300 mm length of bar
 - b) 2/3rd of the bars shall be within ± 2 mm per 300 mm length of bar
 - c) No bar shall differ in alignment from an adjoining bar by more than 3 mm per 300 mm length of bar in either the horizontal or vertical plane
 - d) Cradles supporting dowel bar shall not extend across the line of joint i.e. no steel bar of the cradle assembly shall be continuous across the joint
- ii) For all bars inserted after laying of the slab:
 - a) Twice the tolerance for alignment as indicated in (i) above

Dowel bars, supported on cradles in assemblies, when subject to a load of 110 N applied at either end and in either the vertical or horizontal direction (upwards and downwards and both directions horizontally) shall conform to be within the following limits:

- i) Two-thirds of the number of bars of any assembly tested shall not deflect more than 2 mm per 300 mm length of bar
- ii) The remainder of the bars in that assembly shall not deflect more than 3 mm per 300 mm length of bar.

The assembly of dowel bars and supporting cradles, including the joint filler board in the case of expansion joints, shall have the following degree of rigidity when fixed in position:-

- i) For expansion joints, the deflection of the top edge of the filler board shall be not greater than 13 mm, when a load of 1.3 kN is applied perpendicular to the vertical face of the joint filler board and distributed over a length of 600 mm by means of a bar or timber packing, at mid depth and midway between individual fixings, or 300 mm from either end of any length of filler board, if a continuous fixing is used. The residual deflection after removal of the load shall be not more than 3 mm.
- ii) The joint assembly fixings to sub-base shall not fail under the 1.3kN load applied for testing the rigidity of the assembly but shall fail before the load reaches 2.6 kN.

- iii) The fixings for contraction joint shall not fail under 1.3 kN load and shall fail before the load reaches 2.6 kN when applied over a length of 600 mm by means of a bar or timber packing placed as near to the level of the line of fixings as practicable.
- iv) Fixings shall be deemed to fail when there is displacement of the assemblies by more than 3 mm with any form of fixing, under the lest load. The displacement shall be measured at the nearest part of the assembly to the centre of the bar or timber packing.

Dowel bars shall be covered by a thin plastic sheath for at least two-thirds of the length from one end for dowel bars in contraction joints or half the length plus 50 mm for expansion joints. The sheath shall be tough, durable and of an average thickness not greater than 1.25 mm. The sheathed bar shall comply with the following pull-out tests:

- i) Four bars shall be taken at random from stock and without any special preparation shall be covered by sheaths as required in this Clause. The ends of the dowel bars which have been sheathed shall be cast centrally into concrete specimens 150 x 150 x 600 mm, made of the same mix proportions to be used in the pavement, but with a maximum nominal aggregate size of 20 mm and cured in accordance with IS: 516. At 7 days a tensile load shall be applied to achieve a movement of the bar of at least 0.25 mm. The average bond stress to achieve this movement shall not be greater than 0.14 MPa.

For expansion joints, a closely fitting cap 100 mm long consisting of waterproofed cardboard or an approved synthetic material like PVC or GI pipe shall be placed over the sheathed end of each dowel bar. An expansion space at least equal in length to the thickness of the joint filler board shall be formed between the end of the cap and the end of the dowel bar by using compressible sponge. To block the entry of cement slurry between dowel and cap it may be taped.

Tie bars

Tie bars in longitudinal joints shall be deformed steel bars of strength 415 MPa complying with IS: 1786 and in accordance with the requirements given below. The bars shall be free from oil, dirt, loose rust and scale.

Tie bars projecting across the longitudinal joint shall be protected from corrosion for 75mm on each side of the joint by a protective coating of bituminous paint with the approval of the Engineer. The coating shall be dry when the tie bars are used.

Tie bars in longitudinal joints shall be made up into rigid assemblies with adequate supports and fixings to remain firmly in position during the construction of the slab. Alternatively, tie bars at longitudinal joints may be mechanically or manually inserted into the plastic concrete from above by vibration using a method, which ensures correct placement of the bars and

recompaction of the concrete around the tie bars.

Tie bars shall be positioned to remain within the middle third of the slab depth as indicated in the drawings and approximately parallel to the surface and approximately perpendicular to the line of the joint, with the centre of each bar on the intended line of the joints within a tolerance of $\pm 50\text{mm}$, and, with a minimum cover of 30 mm below the joint groove.

Weather and Seasonal Limitations

Concreting in hot weather: No concreting shall be done when the concrete temperature is above 30 degree Centigrade. Besides, in adverse conditions like high temperature, low relative humidity, excessive wind velocity, imminence of rains etc., if so desired by the Engineer, tents on mobile trusses may be provided over the freshly laid concrete for a minimum period of 3 hours as directed by the Engineer. The temperature of the concrete mix on reaching the paving site shall not be more than 30° C. To bring down the temperature, if necessary, chilled water or ice flakes should be made use of.

No concreting shall be done when the concrete temperature is below 5 degree Centigrade and the temperature is descending.

Construction

General: A systems approach may be adopted for construction of the pavement, and the Method Statement for carrying out the work, detailing all the activities including indication of lime-cycle, equipment, personnel etc., shall be got approved from the Engineer before the commencement of the work. The above shall include the type, capacity and make of the batching and mixing plant besides the hauling arrangement and paving equipment. The capacity of paving equipment, batching plant as well as all the ancillary equipment shall be adequate for a paving rate of atleast 300 m in one day.

Batching and mixing: Batching and mixing of the concrete shall be done at a central batching and mixing plant with automatic controls, located at a suitable place which takes into account sufficient space for stockpiling of cement, aggregates and stationary water tanks. This shall be, however, situated at an approved distance, duly considering the properties of the mix and the transporting arrangements available with the Contractor.

Equipment for proportioning of materials and paving

Proportioning of materials shall be done in the batching plant by weight, each type of material being weighed separately. The cement from the bulk stock may be weighed separately from the aggregates and water shall be measured by volume. Wherever properly graded aggregate of uniform quality cannot be maintained as envisaged in the mix design, the grading of aggregates shall be controlled by appropriate blending techniques. The capacity of batching and mixing plant shall be at least 25 per cent higher than the proposed capacity of the laying/paving equipment.

Batching plant and equipment:

Plant and equipment used during construction shall be as per MoRT&H Specification.

The texture depth shall be determined by the Sand Patch Test as described in Clause 602.12. This test shall be performed at least once for each day's paving and wherever the Engineer considers it necessary at times after construction as under:

Five individual measurements of the texture depth shall be taken at least 2 m apart anywhere along a diagonal line across a lane width between points 50 m apart along the pavement. No measurement shall be taken within 300 mm of the longitudinal edges of a concrete slab constructed in one pass.

Texture depths shall not be less than the minimum required when measurements are taken as given in Table 600-2 nor greater than a maximum average of 1.25 mm.

TABLE : 600-2 Texture Depth

Time of Test	Number of Measurements	Required Texture Depth (mm)	
		Specified Value	Tolerance
1. Between 24 hours and 7 days after the constn., of the slab or until the slab is first used by vehicles	An average of 5 measurements	1.00	± 0.25
2. Not later than 6 weeks before the road is opened to public traffic.	An average of 5 measurements	1.00	+ 0.25 -0.35

Preparation and Sealing of Joint Grooves

General

All transverse joints in surface slabs shall be sealed using sealants described in Clause 602.2.8. Joints shall not be sealed before 14 days after construction. Preparation of joint grooves for sealing Joint grooves usually are not constructed to provide the minimum width specified in the drawings when saw cut joints are adopted. They shall be widened subsequently by sawing before sealing. Depth/width gauges shall be used to control the dimension of the groove.

If rough arrises develop when grooves are made, they shall be ground to provide a chamfer approximately 5 mm wide. If the groove is at an angle upto 10 degree from the perpendicular to the surface, the overhanging edge of the sealing groove shall be sawn or ground perpendicular. If spalling occurs or the angle of the former is greater than 10 degrees, the joint sealing groove shall be sawn

wider and perpendicular to the surface to encompass the defects upto a maximum width, including any chamfer, of 35 mm for transverse joints and 20 mm for longitudinal joints. If the spalling cannot be so eliminated then the arrises shall be repaired by an approved thin bonded arris repair using cemeiititious materials.

All grooves shall be cleaned of any dirt or loose material by air blasting with filtered, oil-free compressed air. If need arises the Engineer may instruct cleaning by pressurised water jets. Depending upon the requirement of the sealant manufacturer, the sides of the grooves may have to be sand blasted to increase the bondage between sealant and concrete.

The groove shall be cleaned and dried at the time of priming and sealing.

Before sealing the temporary seal provided for blocking the ingress of dirt, soil etc., shall be removed. A highly compressible heat resistant paper-backed debonding strip as per drawing shall be inserted in the groove to serve the purpose of breaking the bond between sealant and the bottom of the groove and to plug the joint groove so that the sealant may not leak through the cracks. The width of debonding strip shall be more than the joint groove width so that it is held tightly in the groove. In the case of longitudinal joints, heat resistant tapes may be inserted to block the leakage through bottom of the joint.

Sealing with sealants

When sealants are applied, an appropriate primer shall also be used if recommended by the manufacturer and it shall be applied in accordance with their recommendation. The sealant shall be applied within the minimum and maximum drying times of the primer recommended by the manufacturer. Priming and sealing with applied sealants shall not be carried out when the naturally occurring temperature in the joint groove to be sealed is below 7° C.

If hot applied sealant is used it shall be heated and applied from a thermostatically controlled, indirectly heated preferably with oil jacketed melter and pourer having recirculating pump and extruder. For large road projects, sealant shall be applied with extruder having flexible hose and nozzle. The sealant shall not be heated to a temperature higher than the safe heating temperature and not for a period longer than the safe heating period, as specified by the manufacturer. The dispenser shall be cleaned out at the end of each day in accordance with the manufacturer's recommendations and reheated material shall not be used.

Cold applied sealants with chemical formulation like polysulphide may be used. These shall be mixed and applied within the time limit specified by the manufacturer. If primers are recommended they shall be applied neatly with an appropriate brush. The Movement Accommodation Factor (MAF) shall be more than 10 per cent.

The sealants applied at contraction phase of the slabs would result in bulging of the sealant over and above the slab. Therefore, the Contractor in consultation

with the Engineer shall establish the right temperature and time for applying the sealant. Thermometer shall be hung on a pole in the site for facilitating control during the sealing operation.

Sealant shall be applied, slightly to a lower level than the slab with a tolerance of 5 ± 2 mm. During sealing operation, it shall be seen that no air bubbles are introduced in the sealant either by vapours or by the sealing process.

The payment for this item will be made on Cubic Meter basis.

Item No.21:

Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density complete (Grade-III)

The work is to be carried out as per MoRTH Specification Clause No.401.

The material to be used for granular sub base must be confirming to MoRTH and the grade specified with respect to CBR value and the rate should be considered as per Schedule-B. The material used in the design must be used for the construction. The payment for this item will be made on Cubic Meter basis.

Item No.22:

Providing & Supplying K-7 Ductile Iron Pipes with internal cement mortar lining and external Zinc coating with finishing layer of Bitumen; manufactured, tested and duly marked in strict accordance with and confirming to IS: 8329/2000 (as per latest amendment); suitable for push-on Jointing, along-with one number Rubber Gaskets for each length of pipe (EPDM Gasket as per IS: 5382/1985)

(i) 300 mm Diameter

Note: Wherever International Standards or Indian standards / specifications are mentioned, their equivalent or higher standards / specifications are also acceptable Supply and Delivery of Ductile Iron Pipe as per IS:8329-2000 or its latest revision or amendments if any including jointing material as EPDM ring as per IS 5382- 1985 and ISO: 4633-1996 or its latest revision or amendments if any Standards

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

- ✓ ISO: 10803-1997 Design method for ductile iron pipes
- ✓ IS:8329-2000 Centrifugally Cast (spun) ductile iron pressure pipes for water, gas and sewage
- ✓ ISO:2531-1991 Ductile iron pipes, fittings and accessories for

pressure pipelines.

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

1.0 Internal Diameter:

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

2.0 Length:

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

3.0 Thickness:

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

$$e = K(0.5 + 0.001 \text{ DN})$$

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

4.0 EPDM Rubber Gasket:

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

The spigot ends shall be suitably chamfered or rounded off to facilitate smooth entry of pipe in the socket fitted with the rubber gasket Rubber Gasket shall confirm to IS 5382-1985 and ISO : 4633-1996 its latest revision or amendments if any

5.0 Sampling Criteria:

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

6.0 Tolerances on External Diameter:

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

DN	Nominal	Positive Tolerance	Negative Tolerance
80	98	+1	-2.2

100	118	+1	-2.8
125	144	+1	-2.8
150	170	+1	-2.9
200	222	+1	-3.0
250	274	+1	-3.1
300	326	+1	-3.3
350	378	+1	-3.4
400	429	+1	-3.5
450	480	+1	-3.6
500	532	+1	-3.8
600	635	+1	-4.0

7.0 Tolerance on Ovality:

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

Nominal Diameter in mm	Allowable Difference Between Minor Axis and DE in mm
80 to 300	1.0
350 to 600	1.75
700	2.0
750 to 800	2.4
900 to 1000	3.5

8.0 Tolerance in thickness

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

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

9.0 Coating

Pipe shall be delivered internally and externally coated

External Coating: Pipe shall be metallic zinc coated and after that it shall be given a finishing layer of bituminous paint as per IS - 8329-2000 Zinc coating shall comply with IS:8329/EN 545/ ISO 8179. Only molten zinc spray coating shall be acceptable. The average mass of sprayed metal shall not be less than 130 g/sqm with a local minimum of 110 g/sqm.

Bitumen overcoat shall be of normal thickness of 70 microns unless otherwise specified. It shall be a cold applied compound complying with the requirements of BS 3416 Type II suitable for tropical climates factory applied preferably through an automatic process. Damaged areas of coating shall be repainted on site after removing any remaining loose coating and wire brushing any rusted areas of pipe.

Internal lining: Internal pipe shall be Portland Cement mortar lined (as per IS - 8329-2000). The mortar shall contain by mass at least one part of cement to 3.5 part of sand. All pipes and fittings shall be internally lined with cement mortar using high speed centrifugal process in accordance with IWO 4179/IS 8329.

Cement mortar lining shall be applied at the pipe manufacturing shop in conformity with the aforesaid standards. No admixtures in the mortar shall be used without the approval of the Engineer. The sand to cement proportion of sand if justified by the sieve analysis. Pipe lining shall be inspected on site and any damage or defective areas shall be made good to the satisfaction of the Engineer.

Lining shall be uniform in thickness all along the pipe. The minimum thickness of factory applied cement mortar lining shall be as per IS: 8329 Annex-B or ISO 4179. This is given below.

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

10.0 Joint

Jointing of DI pipes and fittings shall be push-on type Push-on-joints. The Contractor shall source the push-on-joint gaskets only from the pipe manufactures. In turn the pipe manufacturer shall supply at least 10% additional quantity of gaskets over and above the requirement to the Contractor at no extra cost.

The gasket used for joints shall be suitable for natural and purified water conveyance. In jointing DI pipes and fittings, the Contractor shall take into account the manufacturer's recommendations as to the methods and equipments to be used in assembling the joints. In particular the Contractor shall ensure that the spigot end of the pipe to be jointed is smooth and has been properly chamfered, so that once the rubber ring is correctly positioned before the joint is made, does not get damaged by friction or sharp edges of the spigot Chamfer. The rubber rings and the recommend lubricant shall be obtained only through the pipe manufacturer.

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

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

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

11.0 Testing of Pipe:

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

[a] Mechanical Tests

Mechanical tests shall be carried out during manufacture of pipes as specified in the Standards. The frequency and sampling of tests for each batch of pipes shall be in accordance with IS 11606-1986.

The test results so obtained for all the pipes and fittings of different sizes shall be submitted to Engineer. The method for tensile tests and the minimum tensile strength requirement for pipes and fittings shall be as per IS:8329/EN 545 for pipes and IS:9523/EN 545 for fittings.

[b] Brinell Hardness Test

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

[c] Re-tests

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

[d] For hydrostatic test

At works, the pipes and fittings shall be kept under test pressure as specified in the standard for a period of minimum 15 seconds during which the pipes shall be struck moderately with a 700 g hammer for confirmation of satisfactory sound. They shall withstand the pressure test without showing any leakage, sweating or other defect of any kind. The hydrostatic test shall be conducted before surface coating and lining.

12.0 Quality Assurance

The manufacturer shall have a laid down Quality Assurance Plan for the manufacture of the products offered which shall be submitted along with the tenders.

MARKING :

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

- i) Certification mark on each pipe.
- ii) Manufacturers brand name and/or trademark.
- iii) Purchasers mark as "RMC" be inscribed
- iv) The outside diameter and pressure rating.
- v) Batch number or lot number.
- vi) Inspector's mark on each pipe

INSPECTION

Inspection of pipes and specials will be carried out by Executive engineer or his representative agency appointed by RMC. All the expenditure for inspection shall be borne by the contractor except inspection charges if any in case of inspection agency appointed by RMC shall be paid by RMC.

PAYMENT

The payment shall be on RMT basis.

Mode of Payment : Payment restricted to 70% on completion of laying & jointing & 30% on giving hydraulic test. Maximum 2.0 km of unlaidd pipe line will be given at the rate of 70% of tender rate.

Item No.23:

Manufacture, Supply & Delivery of Ductile Iron Flange socket spigot bends, tees, reducers or any other specials as per BS-EN-545/1995 Class-A series K12 suitable for use with I. Pipes manufactured as per IS:8329/1994 delivery of specials is to be made to RMC/ OWNER store or site of works any where in Gujarat including all taxes, loading, unloading, carting, stacking, insurance, inspection charges, octroi etc. complete

- A) Manufacture, supply and delivery of Ductile Iron Flange Socket spigot bends, tees, reducers or any other specials as per BS-EN-545 / 1995 class-A series K-12 suitable for use with DI pipes manufactured as per IS 8329/1994 delivery of specials is to be made to site of works including all taxes, loading, unloading, carting, stacking, insurance, inspection charges, Octroi etc. complete with internal cement mortar lining with EPDM rubber gaskets.
- B) Manufacture, supply and delivery of flanges, Tee, bends, tail piece, reducers, air valve raiser pipes or any other specials suitable for use with DI pipes and delivery of specials is to be made to site of works anywhere in Gujarat including all taxes, loading, unloading, carting, stacking, insurance, inspection charges, Octroi etc. complete.
- C) Manufacture, supply and delivery of CID joints with Rubber Rings of Standard quality or any other specials suitable for use with I. pipes and delivery of specials is to be made to site of works anywhere in Gujarat including all taxes, loading, unloading, carting, stacking, insurance, inspection charges, Octroi etc. complete
- D) DI Specials with all types of diameters suitable of K9 grade pipes with inner cement mortal lining. The necessary DI Specials required during the lowering & lying of Ductile Iron Pipe shall be supplied by the agency and shall be as per standard specification.
- E) It shall be of best quality as per requirement Rate shall be including loading, unloading, carting, insurance and labour charge etc. complete.

PAYMENT

The payment shall be made on kg. basis.

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

Bcd

Item No.24:

Iron Work as per drawing and Instructions all complete:

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.25:

Lowering, laying and jointing D. I. K-7 Pipes of various classes with CI / MS specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including transportation to site of work,labour, giving flow testing as per IS code etc complete.

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

The trenches shall be well leveled so that pipes are laid evenly among them. The pipes shall be fixed within two rubber rings to be supplied by department at the place shown in schedule A, if directed by the Engineer-in-charge or mentioned in item of schedule B. The specification for titan joints i.e. Rubber Rings shall be as per details specification material section.

The contractor shall make his own arrangement for obtaining permission for storing & stacking of pipes etc. from land boards whether they are Government, Municipal Local Bodies or Private land owner.

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

be started unless the gradients levels are approved by the Engineer-in-Charge or his representatives.

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

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

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

TESTING OF WATER PIPES:

After each section of the pipeline has been completed it shall be tested for water tightness before being covere The contractor shall at his own cost fill up water in pipe line and given necessary flow test section by section and the pipe line shall stand the pressure which shall stand the pressure which shall exceed the working pressure by

(a) 50% of the highest pressure in the section.

(b) 30m whichever is less without showing any leakage or sweating anywhere in the pipes joints specials valves etc. it any defect are found the contractor shall be made good the same at his own cost.

Any leaking joints shall be made good and above test pressure in to be lowered gradually after satisfactory test is & over.

RMC/ OWNER will not be able to provide water for testing of the pipelines & water containers of the project. This shall have to be managed by the contractor at his costs and risk.

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

If the pipe lines are laid in detached sanctioned & not in continuous length due to any reasons such as non-availability of specials or due to obstacle etc. The contractor shall see that no end of pipes length is kept open-ends are immediately covered up either by suitable blank flange or cap slug or by means of double layer gunny bags clothes tied properly by mild steel wire without any claim for extra- cost. The rate shall be per meter of pipe line laid including all specials and fitting jointly etc. Cutting and waste shall

not be paid separately. The length shall be measured not on the straight line and curves along the center line over the pipe and specials correct up to 1 cm.

Method Of Measurement Of Pipes:

The measurement shall be recorded in running meter of pipe length laid along center line or axis of pipe line..

No payment shall be made for overlaps etc.

The payment shall be paid after completion of whole item as mentioned in price bid on Running Meter basis.

Mode of Payment: Payment restricted to 70 % on completion of laying & jointing & flow test.

Item No.26:

Thermoplast painting work on Roads size 10-35 cm width including material & labour

Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass bend of 250 gms per square meter area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be leveled, uniformed and shall be made free from streales and holes.

The whole work is to be carried out by approved quality of material. Measurement rate will be given per square meter of work.

Item No.27:

Cat eye - Radium standard make providing, fixing in alignment as per drawing and direction:

Providing and fixing cats eye / pavement marker (M.M.C. Nail less) made out of acrylic strene-acrilmistrade or Hi-impact polystyrene fitted with moulded of methacrylate (MMC) reflector CUBE CORNER REFLECTOR DESIGN, FILLED WITH TIGHTLY ADHERING POTTING COMPOUND AS PER ASTM D-788 size 11.5 cms x 7 cms x 1.6 cms or 10 cms x 10 cms x 1.75 cms provided with bituminous adhesive in sufficient quantity with each unit for fixing. No noil should be allowed for fixing. Reflectors on both sides minimum reflective are 12.90 sq.cms on each face. (Compressive strength 13 Tonnes at 23°C temperature and double side lenses).

Specification for durable, abrasion-resistant, retro reflective road studs(Cat eyes) designed for installation on asphalt and Portland cement concrete road surfaces. The road studs (Cat eyes) shall be designed to provide highly effective, long -life nighttime visibility.

DESCRIPTION:

The body of the Cat eyes shall be produced from an engineering polymer selected for superior impact resistance and weather ability. The Cat eyes shall be working exclusively on micro prismatic lens type technology and duo directional.

TECHNICAL REQUIREMENTS:

The Cat eyes shall meet the following specified requirements:

Conformance:

The cat eyes should conform to ASTM D4280. The manufacturer of Cat eyes should mandatorily submit an independent test laboratory certificate of having tested the Raised Pavement Markers for visual observation and coefficient of luminous intensity in an unprotected outdoor exposure for two years. Also a certificate of having tested the Cat eyes as per ASTM D 4280 for the following tests and its having passed these tests shall be obtained from a reputed laboratory by the manufacturer.

Tests and Certification:

The supplier should submit along with tender, the following certificates, issued by the original manufacturer of Raw Material

- ☐ Specific Intensity
- ☐ Compressive strength
- ☐ Abrasion

Color:

The Cat eyes body shall be produced in neutral white or yellow color. The color of the retro reflective element shall be white, yellow, or red.

Material :

The plastic body of the road stud (Cat eyes) shall be moulded from polycarbonate. The cat eyes should have two shanks for fixing arrangements.

Lens:

The reflective panels shall consist of number of prismatic lenses capable of providing total internal reflection of the light entering the lens face.

Dimensions:

Height	:	The Cat eyes height shall not exceed 20mm
Length	:	The Cat eyes length shall not exceed 130 mm.
Width	:	The Cat eyes width shall not exceed 105 mm
Shanks	:	The Cat eyes shall be fixed with two Nos. of polymer hanks of Diameter not less than 18mm, length not less than 25mm From the bottom face.

Rate will be given per number of cats eye.

Item No.28:

125 Micron thick impermeable plastic sheet Separation layer between DLC and HVFA concrete pavement (As per MoRTH Sec. 602)

The work is to be carried out as per MoRTH Specification Clause No.602. The payment for this item will be made on Square Meter basis.

Item No.29:

Providing mild steel dowel bars for pavement expansion joint including bending, binding and placing in position etc. complete including cost of cap, grease, cotton complete as per drawing and as directed by engineer in charge (As per MoRTH Sec. 602) - 32 mm dia dowel bars

The work is to be carried out as per MoRTH Specification Clause No.602. The payment for this item will be made on Number basis.

Item No.30:

Providing steel tie bars for pavement longitudinal joint including cutting, bending, binding and placing in position etc. including bituminous painting of butting face of concrete pavement complete as per drawing and as directed by engineer in charge (As per MoRTH Sec. 602) - 12 mm dia tie bars

The work is to be carried out as per MoRTH Specification Clause No.602. The payment for this item will be made on Number basis.

Item No.31:

Providing contraction joint (Dummy groove joints) by mechanically saw cut (Machine cut) and filling the groove by hot poured elastomeric type or cold polysulphide type joint sealant of approved quality etc. complete (As per MoRTH Sec. 602) - 50 mm deep and 3 mm wide

The work is to be carried out as per MoRTH Specification Clause No.602. The payment for this item will be made on Running Meter basis.

Item No.32:

Providing 25 mm thick premolded asphalt filler joints as per drawing and as directed by engineer in charge and filling the top 25 mm with hot poured elastomeric type or cold polysulphide type joint sealant of approved quality etc. complete (As per MoRTH Sec. 602)

The work is to be carried out as per MoRTH Specification Clause No.602. The payment for this item will be made on Square Meter basis.

Item No.35:

Providing c.c.bedding in 1:3:6 (M 100) using 12 to 20mm machine crushed metal incl. Consolidation curing etc. complete. (C-type bedding as per type design)

- 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, 3 parts of sand and 6 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 be 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.36:

Supply and laying of machine crushed aggregate of 25-38 mm

Machine Crushed metal shall be of approved quarry and it should be approved by the In-charge Site Engineer prior to collection.

The machine crushed metal shall be hard, tough, sound, durable, black trap field metal of close texture, with the decay and weathering. Each piece of the stone shall be angular and roughly cubical in shape and round elongated or flaky material shall be rejected. No round or oblong pebbles or at guar chips larger or smaller than specified size shall be allowed.

All unsound, weathered or disinclined stone obtained from the upper surface layer of the quarry or other layer of boulders shall be rejected. The physical requirement for standard size metal shall conform to the test results indicated in Table No.1. The metal shall be nearly uniform in size as possible and shall conform to following minimum requirements of passing through the rings.

The physical requirement for standard size metal shall conform to the test results indicated in the Table No.1 below:

Table No.1

Type of Const.	Test Method	Requirement
Base (a) Los Angelos abrasion Value Or	IS: 2386 Part iv	50 % (Max.)
Aggregate Impact Value.	IS 2386 Part iv or IS :5640	40 % (Max.)
(b) Flakiness index & Elongation Index	IS :2386 Part I	30 % (Combined.)
(c) Water Absorption	IS: 2386 Part-3	2% (Max.)

Table No.2

Grading No.	Size Range	IS Sieve Designation	Per cent by weight passing
2	25 mm to 38 mm	90 mm	100
		63 mm	90-100
		53 mm	25-75
		45 mm	0-15
		22.4 mm	0-5

Wherever and doubt exists as to whether the above requirement are satisfied in whole or part. The collection of M.C. metal shall be got screened by the contractor, it so ordered by the In-charge Site Engineer and for which no extra payments shall be claimed by the contractor.

Any collection which does not fully satisfy the above requirements is liable to be rejected altogether. Frequency of test shall be as per Ministry of Surface Transport Specifications. Agency has to submit complete drawing of leveling after each layer of work as mentioned in Special Conditions of Contract.

Also, the work is to be carried out with Mini Roll / Road Roller / Hand Rollas may be required for the work as per the requirement and instructions of engineer in charge.

The measurements shall be taken on cubic meter basis.

Addl/Asst. Engineer
R.M.C.

Dy.Ex.Engineer
R.M.C.

ADDL. CITY ENGINEER
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 / ARALEDITE
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 / ENCRFT / 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	CEMENT BASED PAINTS	ALL TYPES OF PAINTS I.E. CEMENT BASED PAINTS, OIL BOUND DISTEMPER, ACRYLIC PAINTS, PLASTIC EMULSION PAINTS ETC SHALL BE FIRST QUALITY OF MAKES BERGER, NEROLAC, ULTRATECH, JOTUN, SHIRWIN WILLIAMS MAKE, FOR CEMENT BASED PAINT ADD SNOWCEM PLUS AND TATACEM MAKE.
35	CEMENT PAINT	
36	DRY DISTEMPER	
37	OIL BOUND DISTEMPER/ACRYLIC WASHABLE DISTEMPER	
38	OTHER PAINTS/ PRIMER	
39	SYNTHETIC ENAMEL PAINTS	
40	RESIN BASED PAINTS	
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 DEVELOPMENTS 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 / CENTURLAM / 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 CORNING, 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. No.	Details of Materials /Equipment	Manufacture's Name
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
PLUMBING		
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 VALVE	KIRLOSKAR / IVC/ LEADER / ZOLOTO / L&T / AUDCO / ADVANCE / AIP
36	C.I VALVES (FULL WAY, CHECK AND GLOBE VALVES	KIRLOSKAR / SKF / ZOLTO
37	C.I. MANHOLE COVERS	NECO / HEPKO / 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 / HEPKO / 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 PLANT	BIKON WATER / ION EXCHANGE /THERMAX 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 / INDICATORS	ADVANCE AUTO / SRIDHAN INTERNATIONAL / 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 PROTECTION)	RPG RAYCHEM/PYPKOTE/MAKPHALT
62	PP-R PIPES (PN – 16)	SFMC / SUPREME / RELIANCE WETFLOW
63	PRE-COATED GALVANISED STEEL SHEET	TATA BLUESCOPE / LLYOD INSULATIONS INDIA LTD / S.R.METALS
64	PVC CONTINUOUS FILLET FOR PERIPHERY PACKINGOF GLAZINGS /STRUCTURAL/GLAZING	ROOP / ANAND / FOREX PLASTIC/ AKG /NAGALIA/TRADING COMPANY
65	PVC FLUSHING CISTERN	COMMANDER /JOHNSON PEDDER / DURALITE/ GEBERIT
66	PVC PIPES & FITTING SWR SOIL, WASTE & VENT PIPES AND FITTINGS, TYPE B PVC CASING & SCREEN PIPES	PRINCE / SUPREME / FINOLEX /PRAKASH SURYA / AKG
67	PVC WATER STOPS	PRINCE / SUPREME / FINOLEX
68	POLYETHYLENE STORAGE TANK	SINTEX / SFMC / SUPREME
69	R.O. SYSTEM	SSRE Engineering / Thermax / Ion_Exchange / C-Tech / Siemens
70	SENSOR OPERATED AUTO FLUSHING SYSTEMURINALS	KOHLAR / HINDWARE /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 RAIL ETC.	CAMRY/GLACIER/GEM
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 be binding to the contractor. The required documents shall have to be submitted every month by the contractor to the competent authority.
7. The contractor shall have to get registered under ESI (Employer's State Insurance) Act and obtain ESI Registration number if the number of workers are 10 Nos. or more. Also, the agency shall have to give all the benefits to the workers as available under the ESI Act. The agency should follow all the rules and regulations of ESI Act as per prevailing norms.
8. This office Circular bearing No.RMC/C/329 dated 22-12-2012 and Order No.RMC/C/132 dated 10-06-2013 are uploaded separately as a part of tender document. The Contractors/Consultants quoting their rates shall have to read, implement, and submit the same duly signed along with the documents to be submitted during physical submission.
9. In reference to the above Circular and Order cited para above, the Contractors/Consultant who have quoted their rates for this work will be called in person for verification of original documents. The date and time for verification of original documents will be as prescribed in the tender document.
10. After issuance of work order for this tender, if the work falls under any kind of dispute then Rajkot Municipal Corporation reserves the right to terminate the contract for this work awarded to the contractor or execute part work. The decision of Rajkot Municipal Corporation in this regard will be final and binding to the contractor.
11. Till the Completion Certificate is issued by Rajkot Municipal Corporation, the agency will be the sole responsible for security of material and structure at site.

12. The quantities given in the Schedules are provisional. The Rajkot Municipal Corporation reserves the right to increase or decrease the quantity of work or totally omit any item work and the contractor shall not be entitled to claim any extras or damages on these grounds & he is bound to execute the work as per the instruction of the Engineer-in-charge. Rajkot Municipal Corporation will not entertain any dispute in this regard.
13. It is further clarified that Performance Guarantee (SD) for extra work will also be recovered @ 10% from the bill of extra work i.e. works beyond tender amount.
14. The bidder must understand clearly that the prices quoted are for the totally works or the part of the total works quoted for and include all costs due to materials, labour, equipments, supervision, other services, royalties, taxes, duties, etc., and to include all extra to cover the cost. No claim for additional payment beyond the prices quoted will be entertained and the bidder will not be entitled subsequently to make any claim on any ground.
15. Qualified engineer must be deployed on site and at Plant. The details of qualified engineers are to be given to RMC at the time of bidding of this tender.
16. If any irregularities found during the work then penalty will be imposed by Engineer-in-charge or any higher officer. If any disputes arises regarding penalty imposed by Engineer-in-charge then decision of Municipal Commissioner will be final and binding to agency.
17. The time limit will remain same as mentioned in the tender document and the work is to be completed accordingly.
18. Tender of such Contractor not having registration in appropriate Class and Category, will be treated as non-responsive. In case of any conflicting provisions between registration of appropriate category and Pre-qualification criteria, the later shall govern the process of bid evaluation.
19. The agency shall have to quote their rates only after visiting the site and looking to the site conditions.
20. DEFECTS: Date of completion for start of defect liability period for the entire work will be considered as the last date mentioned in the completion of work recorded in Measurement Book. The contractor shall be required to make good all the damages/ defects identified and conveyed to him, during the entire defect liability period. The

method and time limit of rectification will be decided by the Engineer in charge. If the contractor fails to carry out rectification as per the instructions, the same will be carried out at his cost and the cost will be recovered from the amount retained.

21. The Contractor shall invariably get the job mix formula for the mix approved by the Engineer-in-charge or by TPI agency where applicable before starting of the work and when instructed by engineer-in-charge.
22. For this project works, Third Party Inspection (TPI) is mandatory. The TPI agency will be appointed by Rajkot Municipal Corporation and remittance of charges @ 0.70% of contract value for the same is to be borne by the agency, which will be deducted from the contractor's bill.
23. Joint venture shall not be allowed under this tender.
24. 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.
25. The Royalty of each and every material, required to be paid is to be borne by the contractor.
26. 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.
27. 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.
28. 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.

29. 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.
30. 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.
31. 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.
32. The Defect Liability period for this work is 12 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.
33. The agency shall have to get interior done from the approved Architect / Engineer and also to get approved from engineer-in-charge. The agency shall have to get the approval within a period of 7 (Seven) days.
34. 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.
35. The work order will be given only after getting the preliminary approval from Town Planning Department.
36. Providing and fixing of precast RCC slab and column shall have to be carried out in line and level.
37. 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.

38. 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.
39. 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.
40. 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.
41. 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.

42. 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).
43. 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.
44. 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.
45. 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.
46. 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.
47. The Mix Design of Cement Concrete shall be revised submitted with respect to changes in Materials like Cement, Sand, Aggregate

48. 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.
49. After the drawings for the proposed work are finalized by RMC, the agency has to submit the same to qualified & experienced structure engineer.
50. The agency has to submit the approved & signed copies of structure design 3 sets to Rajkot Municipal Corporation
51. Additional alternation changes during the work shall has to be incorporated in the structure drawing & shall be re submitted to Rajkot Municipal Corporation accordingly.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.

57. 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.
58. 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.
59. 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.
60. 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.

ADDL. CITY ENGINEER
Rajkot Municipal Corporation

Signature of Contractor with Seal

Rajkot Municipal Corporation

:: SPECIAL CONDITIONS ::

1. The Royalty of each and every material, required to be paid is to be borne by the contractor.
2. Testing of each material as and when required by Rajkot Municipal Corporation is to be carried out by the contractor at his own cost. Schedule of testing of material will be as per R&B, State Government Manual and I S Code provision.
3. The whole work shall be executed by qualified Site Engineer. The required L- Section and Cross section is to be prepared by contractor at his own cost. The work should be done by levelling instrument. The Drawings shall be submitted accordingly in advance before starting the work. No extra payment will be made for the above work. Contractor has to submit Bill form with hard copy and soft copy of cross section and L-section of work completed. No bill will be accepted without above drawings.
4. Necessary tests for material quality, Paving Blocks, soil tests etc. shall be carried out as per the instructions of engineer-in-charge by contractor at his own cost and reports to be submitted to the engineer-in-charge.
5. The contractor shall have to get registered under ESI (Employer's State Insurance) Act and obtain ESI Registration number if the number of workers are 10 Nos. or more. Also, the agency shall have to give all the benefits to the workers as available under the ESI Act. The agency should follow all the rules and regulations of ESI Act as per prevailing norms.
6. The testing of metal and the design as per IRC shall have to be carried out by the contractor at his own cost.
7. Structure design is to be prepared by contractor and after approval of engineer-in-charge the work can be started.
8. Agency intending to carry out excavation will be able to carry out excavation / digging only after prior intimation through "Call before U Dig" mobile application.

**ADDL. CITY ENGINEER
Rajkot Municipal Corporation**

Signature of Contractor with Seal

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

BID FORM(WITH PRICE)

CONTRACT No: RMC/ENGG/EZ/24-25/36

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 : PROVIDING AND LAYING PIPE GUTTER, UTILITY LINE, CC ROAD WORK AND LAYING OF INTERLOCKING PAVING BLOCK WORK FROM NANDA HALL TO SARDAR PATEL AROGYA KENDRA 15.0 MTR TP ROAD IN WARD NO.16 (6TH ATTEMPT)

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 **10 Months** of construction period from the date of Work Order issued to us by you.
4. We agree to abide by this Bid for a period of 120 days from the date of opening of technical bid for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
5. In the event of our Bid being accepted, we agree to enter into a formal Contract Agreement with you incorporating the conditions of Contract thereto annexed but until such agreement is prepared this Bid together with your written acceptance thereof shall constitute a binding Contract between us.
6. We agree, if our Bid is accepted, to furnish Performance Bond/Security in the forms and of value specified in the Conditions of Contract of a sum equivalent to 5% of the Contract price for due performance of the Contract.
7. We have independently considered the amounts of liquidated damages shown in Appendix to Bid and agree that they represent a fair estimate of the damages likely to be suffered by you in the event of the Work not being completed by us in time.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this _____ day of _____ 20____.

(Signature)

Company Seal

(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 **PROVIDING AND LAYING PIPE GUTTER, UTILITY LINE, CC ROAD WORK AND LAYING OF INTERLOCKING PAVING BLOCK WORK FROM NANDA HALL TO SARDAR PATEL AROGYA KENDRA 15.0 MTR TP ROAD IN WARD NO.16 (6TH ATTEMPT).**

1. The bid is percentage rate bid.
2. The rates and prices shall be submitted in the formats given in the online Price Schedules. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
3. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
4. In Price Schedule, bidder shall quote his percentage Equal/Above/Below for items listed in the schedule. Prices quoted in Schedule only will be considered for price evaluation & shall form a part of the Contract Agreement.
5. The Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
6. The bidder shall be deemed to have allowed in his price for provision, maintenance and final removal of all temporary works of whatsoever nature required for construction including temporary bunds, diverting water, pumping, dewatering etc. for the proper execution of works. The rates shall also be deemed to include any works and setting out that may be required to be carried out for laying out of all the works involved.
7. Where there is a discrepancy between the unit rates and the amount entered, the latter shall govern.
8. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.
9. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.
10. The bidder shall interpret the data furnished and carry out any additional survey work, or investigative work required at his own cost.

11. The prices quoted shall also include the cost of materials utilized for testing.
12. The bidder should acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to worksites at his own cost. These accesses will be used by the other contractors working for RMC.
13. The material shall be inspected Departmentally, the cost of which, if any, is to be borne by contractor.
14. **Bidder has to quote their rates with 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. For this project works / SJMMSVY Grant / 14th & 15th Finance Commission works, Third Party Inspection (TPI) is mandatory. The TPI agency will be appointed by Rajkot Municipal Corporation and remittance of charges @ 0.70% of contract value for the same is to be borne by the agency, which will be deducted from the contractor's bill.
38. 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.
39. 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.

**ADDL. CITY ENGINEER
Rajkot Municipal Corporation**

Signature of Contractor with Seal

PRICE SCHEDULE

Rajkot Municipal Corporation
Price Schedule – B

Name of work:

PROVIDING AND LAYING PIPE GUTTER, UTILITY LINE, CC ROAD WORK AND LAYING OF INTERLOCKING PAVING BLOCK WORK FROM NANDA HALL TO SARDAR PATEL AROGYA KENDRA 15.0 MTR TP ROAD IN WARD NO.16 (6TH ATTEMPT)

Sr.	QTY.	Item	Rate	Unit	Amount
1	4650.00	Excavation of Road up to 20 cm	12.00	Sq. Mt.	55800.00
2	4650.00	Excavation of Road 20 cm to 65 cm	4.50	Sq. Mt.	20925.00
3	3740.00	Excavation of Foundation in Soft Murrum, Soil or Sand from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	96.60	Cu.mt	361284.00
4	13304.00	Removed excavated soil	122.00	Cu.mt	1623088.00
5	2325.00	Supplying & Spreading of Hard Murrum	263.00	Cu.mt	611475.00
6	13950.00	Rolling & Watering Work	7.50	Sq. Mt.	104625.00
7	373.00	Excavation of trench for Pipes in Soft Murrum / Clay / Sand with all safety Provisions (with re-filling of trench) for depth from 1.51 to 3.0 mtr	103.50	Cu.mt	38605.50
8	335.00	RCC Spun Pipe with IS NP3 Pipe 1200mm dia having socket spigot with rubber ring including supply,transfer, fixing etc complete. Joints with C:M(1:1)	7802.00	R.mt	2613670.00
9	335.00	RCC Spun Pipe with IS NP3 Pipe 900mm dia having socket spigot with rubber ring including supply,transfer, fixing etc complete. Joints with C:M(1:1)	4876.00	R.mt	1633460.00
10	815.00	RCC Spun Pipe with IS NP3 Pipe 300mm dia having spigot and rubber ring joint including supply, transfer, fixing etc complete.Joints with C:M(1:1)	1030.00	R.mt	839450.00

Sr.	QTY.	Item	Rate	Unit	Amount
11	32.00	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 coping 1:2:4 with quaring finishing (without cover plate)	4726.00	Nos	151232.00
12	32.00	RCC precast frame and cover with supply, fitting, fixing with complete as per specification 10ton size 700/700/90mm.	2070.00	Pair	66240.00
13	13.00	Type B Circular Manhole - Inside Diameter 1500 mm Till height of 2.5 meter with all complete	22523.00	Nos	292799.00
14	35.00	Supply and fixing Circular Manhole frame and cover of 600 mm dia 20 tonnes	2306.00	Pair	80710.00
15	2700.00	Rubble Kerb block as divider stone (0.45 X 0.30 X 0.10) with fitting fixing etc complete	125.00	Nos	337500.00
16	2175.00	Supply & Fixing of 80mm M-30 Grade cement concrete rubber mold paving inter locking paving block (Grey colour) after beding of black stone powder in line and CC on the edge in proportion of 1:2:4 with curing etc. complete	562.00	Sq.mt	1222350.00
17	1240.00	Painting of Traffic Strip Foothpath / Circle & divider block size 0.38 x 0.30 x 0.30 in two coats using enamble paint in different colors	50.00	R.mt	62000.00
18	697.50	Construction of granular sub-base by providing close graded material, mixing in a mechanical mix plant at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density complete (Grade-I)	742.00	Cu.mt	517545.00

Sr.	QTY.	Item	Rate	Unit	Amount
19	700.00	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing	2195.00	Cu.mt	1536500.00

Sr.	QTY.	Item	Rate	Unit	Amount
20	870.00	Cement Concrete Pavement M-40 Construction of unreinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 390 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous proportion including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing	4875.00	Cu.mt	4241250.00
21	675.00	Construction of granular sub-base by providing close graded material, mixing in a mechanical mix plant at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density complete (Grade-III)	684.00	Cu.mt	461700.00

Sr.	QTY.	Item	Rate	Unit	Amount
22	315.00	Ductile Iron Pipes with internal cement mortar lining and external Zinc coating with finishing layer of Bitumen; manufactured, tested and duly marked in strict accordance with and confirming to IS: 8329/2000 (as per latest amendment); suitable for push-on Jointing, along-with one number Rubber Gaskets for each length of pipe (EPDM Gasket as per IS: 5382/1985). CLASS K9	3355.00	R.mt	1056825.00
23	800.00	Ductile Iron fittings like, bends, tees, reducers or any other specials as per IS-9523-2000 (as per latest amendment) use with D.I.Pipes manufactured as per IS:8329/1994 (With external bitumen & zinc coating & internal cement mortar lining) (80 mm to 300 MM dia)	106.00	KG	84800.00
24	3000.00	Iron work as per drawing and instruction including all	86.00	Kg	258000.00
25	330.00	Lowering of DI line 300 mm dia with fitting and fixing	88.00	Rmt	29040.00
26	90.00	Thermoplast painting work on Paver Roads size 15-35 cm width including material & labour	372.00	Sq.mt	33480.00
27	85.00	Supply & Fixing of center Cat-eye	255.00	Nos	21675.00
28	4650.00	125 micron thick impermeable plastic sheet separation layer between DLC and HVFA concrete pavement (As per morth Sec 602)	7.50	Sq.mt	34875.00
29	5310.00	Providing mild steel dowel bars for pavement expansion joint including bending, binding and placing in position etc. complete including cost of cap, grease, cotton complete as per drawing and as directed by engineer in charge (32 mm dia bars)	225.00	Nos	1194750.00

Sr.	QTY.	Item	Rate	Unit	Amount
30	2070.00	Providing mild steel tie bars for pavement longitudinal joint including cutting, bending, binding and placing in position etc. including bituminous painting of butting face of concrete pavement complete as per drawing and as directed by engineer in charge (12 mm dia bars)	37.00	Nos	76590.00
31	2160.00	Providing contraction joint (Dummy groove joints) by mechanically saw cut (Machine cut) and filling the groove by mixture of cold bitumen, fine sand, saw dust of approved quality etc. complete	62.00	R.mt	133920.00
32	310.00	Providing 25 mm thick premolded asphalt filler joints as per drawing and as directed by engineer in charge and filling the top 25 mm with hot poured elastometric type or cold polysulphide type joint sealant of approved quality etc. complete (As per MoRTH Sec. 602)	1065.00	Sq.mt	330150.00
33	1200.00	Glazed stoneware pipe for drainage 150 mm dia	332.00	R.mt	398400.00
34	22.00	Drainage MH A type upto 1.5 meter Approx depth	9394.00	Nos	206668.00
35	68.00	Bedding work in Drainage Pipe 150 mm dia with CC of 1:3:6	3558.00	Cu.mt	241944.00
36	435.00	Supply & Laying of Machine crushed aggregate of size 25-38 mm	971.00	Cu.mt	422385.00
				Total	21395710.50
			Say Rs.		21400000.00

Addl./Asst. Engineer
R.M.C.

Dy.Ex.Engineer
R.M.C.

ADDL. CITY ENGINEER
R.M.C.

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

Signature of Contractor with Seal



રાજકોટ મહાનગર સેવાસદન

ડો. આંબેડકર ભવન, ઢેબરભાઈ રોડ, રાજકોટ - ૩૬૦ ૦૦૧.

વેબસાઈટ : www.rmc.gov.in

રા.મ્યુ.કો./વીજી.ટેક./જા. નં. ૧૦૨

૨૯/૦૮/૧૮

તા. ૨૯/૦૮/૨૦૧૮

પરિપત્ર:-

- રાજકોટ મહાનગરપાલિકામાં ત્રણ ઝોન (ઇસ્ટ, સેન્ટ્રલ, વેસ્ટ) માં ઝોનલ કામમાં કે ટેન્ડરથી થતા કામમાં પેવર બ્લોકની કામગીરી કરવામાં આવે છે. જેથી, ક્વોલિટી કન્ટ્રોલ માટે પેવર બ્લોકની કામગીરીમાં વપરાશ કરવામાં આવતા પેવર બ્લોકનું ટેસ્ટીંગ કરવું જરૂરી હોય, વોર્ડમાં ઝોનલ કામ, ટેન્ડર કામ તેમજ વિવિધ શાખા હસ્તક ચાલતા પ્રોજેક્ટ કામમાં વપરાશ કરવામાં આવતા તમામ પ્રકારના પેવર બ્લોકના કામમાં કામ કરાવનાર RMC ટેકનીકલ ટીમ દ્વારા IS 15658:2006 મુજબ Government લેબોરેટરી કે Government માન્ય લેબોરેટરીમાં હાજરીમાં ફરજિયાતપણે ટેસ્ટીંગ કરાવવાનું રહેશે.
- આ ઉપરાંત, રાજકોટ મહાનગરપાલિકાની, વિવિધ શાખા હસ્તક ચાલતાં બાંધકામ તથા રસ્તાકામને લગત, દરેક મહત્વના પ્રોજેક્ટના અગત્યનાં તબક્કે કામગીરી કરાવનાર પ્રોજેક્ટ એક્ઝીક્યુશન ટેકનીકલ ટીમ દ્વારા આગળના દિવસે વિજીલન્સ (ટેક.) ટીમને SMS/Whatsapp થી જાણ કરવામાં આવે છે. તે જ રીતે પેવર બ્લોક બાબતે RMC એક્ઝીક્યુશન ટેકનીકલ ટીમ દ્વારા હાલ ચાલુ હોય તેમજ હવે પછી થનાર તમામ પેવર બ્લોકના કામો માટે આગળના દિવસે વિજીલન્સ (ટેક.) ટીમને SMS/Whatsapp થી જાણ કરવાની રહેશે. જે અન્વયે વીજીલન્સ શાખા (ટેક.) દ્વારા રેન્ડમ સેમ્પલીંગ કરી, IS 15658:2006 મુજબ Government લેબોરેટરી કે Government માન્ય લેબોરેટરીમાં હાજરીમાં ફરજિયાતપણે ટેસ્ટીંગ કરાવી, અત્રે રીપોર્ટ કરવાનો રહેશે.

ઉપરોક્ત બાબતની અમલવારી તાત્કાલિક અસરથી ચુસ્તપણે કરવાની રહેશે.

કમિશ્નર

રાજકોટ મહાનગરપાલિકા

નકલ રવાના (જાણ તથા અમલવારી અર્થે)

- નાયબ કમિશ્નરશ્રી (ઇસ્ટ, સેન્ટ્રલ, વેસ્ટ-ઝોન)

નકલ રવાના (અમલવારી અર્થે)-

- તમામ સીટી એન્જીનીયરશ્રી, એડી. સીટી એન્જીનીયરશ્રી, એક્ઝીક્યુટીવ એન્જીનીયરશ્રી

2018-8-29 12:55



રાજકોટ મહાનગરપાલિકા

ડો. આંબેડકર ભવન, ઢેબર રોડ, રાજકોટ - ૩૬૦૧૧૦.

વેબસાઈટ : www.rmc.gov.in

આર.એમ.સી./સી./

તા. ૨૭/૧૨/૨૦૧૬

પરીપત્ર:-

રા.મ્યુ.કો./વિજી./જા.નં. ૧૦૨/૨૭૧૨૧૨૦૧૬

- રાજકોટ મહાનગરપાલિકામાં ત્રણ ઝોન (ઇસ્ટ, સેન્ટ્રલ, વેસ્ટ) માં ઝોનલ કામમાં કે ટેન્ડરથી થતા કામમાં પેવર બ્લોકની કામગીરી કરવામાં આવે છે, જેથી, ક્વોલિટી કન્ટ્રોલ માટે પેવર બ્લોકની કામગીરીમાં વપરાશ કરવામાં આવતા પેવર બ્લોકનું ટેસ્ટીંગ કરવું જરૂરી હોય, રા.મ્યુ.કો./વીજી. (ટેક.)/જા.નં.-૧૦૨, તા.૨૮/૦૮/૨૦૧૮ થી વોર્ડમાં ઝોનલ કામ, ટેન્ડર કામ તેમજ વિવિધ શાખા હસ્તક ચાલતા પ્રોજેક્ટ કામમાં વપરાશ કરવામાં આવતા તમામ પ્રકારના પેવર બ્લોકના કામમાં ફરજિયાતપણે ટેસ્ટીંગ કરાવવા માટે પરીપત્ર કરવામાં આવેલ છે.
- જે પરીપત્ર અન્વયે આ પરીપત્રથી હવે પછી કરવાનાં થતા તમામ ટેન્ડર કામ તેમજ નવા ઝોનલ કોન્ટ્રાક્ટના કામોમાં નીચે પ્રમાણે યુસ્ત અમલવારી કરવાની રહેશે.
- આ પરીપત્ર પહેલાના કોઇપણ ઝોનલ કે ટેન્ડર કામ માટે જે તે Grade ની સાપેક્ષ પરિણામ ન મળે તો જે તે મળેલ પરિણામ પ્રમાણે Rate Reduce કરવાનાં રહેશે.
- કોઇપણ Grade ના પેવર બ્લોક માટે Compressive Strength નું સરેરાશ પરિણામ 10% કરતા વધારે ઓછું (દા.ત. M-30 Grade માટે Compressive Strength 27 N/mm² થી ઓછી) મળશે તો તે પેવરબ્લોક Reject કરવામાં આવશે એટલે કે તેમનું Payment કરવામાં આવશે નહિ.
- કોઇપણ Grade ના પેવર બ્લોક માટે Compressive Strength નું સરેરાશ પરિણામ 10% ની મર્યાદામાં ઓછું (દા.ત. M-30 Grade માટે Average Compressive Strength 27 N/mm² થી 29.99 N/mm² ની વચ્ચે) મળશે તો તે પેવરબ્લોક માટે Minimum 5 % તેમજ Maximum 10% મળેલ Average Compressive Strength પ્રમાણે Rate Reduce કરવાનાં રહેશે.
- કોઇપણ Grade ના પેવર બ્લોક માટે Water Absorption નું સરેરાશ પરિણામ 6% થી વધારે આવશે તો તે પેવરબ્લોક Reject કરવામાં આવશે એટલે કે તેમનું Payment કરવાનું થશે નહિ.

Compressive Strength માટે કુલ ૮ પેવર બ્લોકનું ટેસ્ટીંગ કરવાનું રહેશે જે ૮ પેવર બ્લોક (ગ્રેડ મુજબ સરેરાશ પરિણામ મળશે તો પણ) પૈકી જો ૧ થી ૨ Individual Sample નું પરિણામ ૮૫% કરતા ઓછું મળશે તો ૧૦% Rate Reduce કરવામાં આવશે તેમજ ૮ પેવર બ્લોક પૈકી જો ૨ થી વધારે Individual Sample નું પરિણામ ૮૫% કરતા ઓછું મળશે તો તે પેવરબ્લોક Reject કરવામાં આવશે એટલે કે તેમનું Payment કરવામાં આવશે નહિ.

- ૧૨.૦૦ મી. કે તેથી મોટા રોડના Side Shoulder માટે M-30 Grade (ISI Mark) Rubber Mould Paving Block વાપરવાના રહેશે. ૧૨.૦૦ મી. થી નાની પહોળાઈના રસ્તાઓ પર Side Shoulder માં M-30 Grade (ISI Mark) Non Rubber Mould Paving Block વાપરવાના રહેશે.
- પહોળાઈમાં ૫.૦૦ મી. કે તેથી ઓછી પહોળાઈ વાળી શેરી હોય ત્યાં જ આખી શેરીમાં Paving Block ની કામગીરી કરી શકાશે. જનભાગીદારી યોજના હોય ત્યાં ૫.૦૦ મી. કે તેથી વધુ પહોળાઈ વાળી શેરીમાં Rubber Mould Paving Block ની કામગીરી કરી શકાશે.
- આ પરીપત્રને ટેન્ડરના એક ભાગ તરીકે રાખવાનો રહેશે.

ઉપરોક્ત બાબતની અમલવારી તાત્કાલિક અસરથી ચુસ્તપણે કરવાની રહેશે.

(Signature)

કમિશ્નર

રાજકોટ મહાનગરપાલિકા

નકલ રવાના (જાણ તથા અમલવારી અર્થે)

- નાયબ કમિશ્નરશ્રી (ઇસ્ટ, સેન્ટ્રલ, વેસ્ટ ઝોન)

નકલ રવાના (અમલવારી અર્થે)

- તમામ સીટી એન્જીનીયરશ્રી, એડી. સીટી એન્જીનીયરશ્રી, એક્ઝીક્યુટીવ એન્જીનીયરશ્રી, એન્વાયરમેન્ટ એન્જીનીયરશ્રી (S.W.M.)
- ડી.ઇ.ઇ.શ્રી (વીજીલન્સ શાખા - ટેક.)



રાજકોટ મહાનગરપાલિકા

ડો. આંબેડકર ભવન, ઢેબર રોડ, રાજકોટ - ૩૬૦૧૧૦.

વેબસાઈટ | www.rmc.gov.in

આર.એમ.સી./સી./

સ.મ્યુ.કો./વિજી./જા.નં. ૬૭.....

તા. ૧૬/૦૭/૨૦૧૮

સંદર્ભ:- પરીપત્ર સ.મ્યુ.કો./વિજી./જા.નં.-૧૮૦, તા.૨૭/૧૨/૨૦૧૮.

સુધારા પરીપત્ર:-

- રાજકોટ મહાનગરપાલિકામાં ત્રણ ઝોન (ઇસ્ટ, સેન્ટ્રલ, વેસ્ટ) માં ઝોનલ કામમાં કે ટેન્ડરથી થતા કામમાં પેવર બ્લોકની કામગીરી કરવામાં આવે છે. જેથી, ક્વોલિટી જળવાય તે માટે પેવર બ્લોક માટે સંદર્ભથી પરીપત્ર કરવામાં આવેલ. જેના બદલે નીચે પ્રમાણે સુધારા પરીપત્ર કરવામાં આવે છે.
- સંદર્ભમાં દર્શાવેલ પરીપત્ર પહેલાના કોઇપણ ઝોનલ કે ટેન્ડર કામ માટે પરિણામ ન મળે તો જે તે મળેલ પરિણામ પ્રમાણે Rate Reduce કરવાનાં રહેશે.
- સંદર્ભમાં દર્શાવેલ પરીપત્ર પછીના તમામ નવા ટેન્ડર કામ તેમજ નવા ઝોનલ કોન્ટ્રાક્ટના કામોમાં નીચે પ્રમાણે યુસ્ત અમલવારી કરવાની રહેશે.
- કોઇપણ Grade ના પેવર બ્લોક માટે Compressive Strength નું સરેરાશ પરિણામ 10% કરતા વધારે ઓછું (દા.ત. M-30 Grade માટે Compressive Strength 27 N/mm² થી ઓછી) મળશે તો તે પેવરબ્લોક Reject કરવામાં આવશે એટલે કે તેમનું Payment કરવામાં આવશે નહિ.
- કોઇપણ Grade ના પેવર બ્લોક માટે Compressive Strength નું સરેરાશ પરિણામ 10% ની મર્યાદામાં ઓછું (દા.ત. M-30 Grade માટે Average Compressive Strength 27 N/mm² થી 29.99 N/mm² ની વચ્ચે) મળશે તો તે પેવરબ્લોક માટે Minimum 5 % તેમજ Maximum 10% મળેલ Average Compressive Strength પ્રમાણે Rate Reduce કરવાનાં રહેશે.
- કોઇપણ Grade ના પેવર બ્લોક માટે Water Absorption નું સરેરાશ પરિણામ 6% વધુ 7% સુધી મળે તો 10% Rate Reduce કરવા, તેમજ Water Absorption નું પરિણામ 7% થી વધુ 8% સુધી મળે તો 25% Rate Reduce કરવા, તેમજ 8% થી વધુ Water Absorption નું પરિણામ મળે તો તે પેવરબ્લોક Reject કરવામાં આવશે એટલે કે તેમનું Payment કરવાનું થશે નહિ.

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- Compressive Strength માટે કુલ ૮ પેવર બ્લોકનું ટેસ્ટીંગ કરવાનું રહેશે જે ૮ પેવર બ્લોક (ગ્રેડ મુજબ સરેરાશ પરિણામ મળશે તો પણ) પૈકી જો ૧ થી ૨ Individual Sample નું પરિણામ 85% કરતા ઓછું મળશે તો 10% Rate Reduce કરવામાં આવશે તેમજ ૮ પેવર બ્લોક પૈકી જો ૨ થી વધારે Individual Sample નું પરિણામ 85% કરતા ઓછું મળશે તો તે પેવરબ્લોક Reject કરવામાં આવશે એટલે કે તેમનું Payment કરવામાં આવશે નહિ.
- આ ઉપરાંત ભવિષ્યમાં પેવીંગ બ્લોકના કામોમાં IS:15658 (2006) મુજબ વધુ પ્રમાણમાં જરૂર કરતા ઓછા પરિણામ મળતા હોવાનું જાણમાં આવશે, ક્વોલિટી જળવાતી નહિ જણાય તો, સંદર્ભના પરીપત્ર પ્રમાણેની જોગવાઈ ફરીથી લાગુ પાડવામાં આવશે.
- ૧૨.૦૦ મી. કે તેથી મોટા રોડના Side Shoulder માટે M-30 Grade (ISI Mark) Rubber Mould Paving Block વાપરવાના રહેશે. ૧૨.૦૦ મી. થી નાની પહોળાઈના રસ્તાઓ પર Side Shoulder માં M-30 Grade (ISI Mark) Non Rubber Mould Paving Block વાપરવાના રહેશે.
- પહોળાઈમાં ૫.૦૦ મી. કે તેથી ઓછી પહોળાઈ વાળી શેરી હોય ત્યાં જ આખી શેરીમાં Paving Block ની કામગીરી કરી શકાશે. જનભાગીદારી યોજના હોય ત્યાં ૫.૦૦ મી. કે તેથી વધુ પહોળાઈ વાળી શેરીમાં Rubber Mould Paving Block ની કામગીરી કરી શકાશે.
- આ પરીપત્રને ટેન્ડરના એક ભાગ તરીકે રાખવાનો રહેશે.

ઉપરોક્ત બાબતની અમલવારી તાત્કાલિક અસરથી ચુસ્તપણે કરવાની રહેશે.

(Signature)

કમિશ્નર

રાજકોટ મહાનગરપાલિકા

નકલ રવાના (જાણ તથા અમલવારી અર્થે)

- નાયબ કમિશ્નરશ્રી (ઇસ્ટ, સેન્ટ્રલ, વેસ્ટ ઝોન)

નકલ રવાના (અમલવારી અર્થે)

- તમામ સીટી એન્જીનીયરશ્રી, એડી. સીટી એન્જીનીયરશ્રી, એક્ઝીક્યુટીવ એન્જીનીયરશ્રી, એન્વાયરમેન્ટ એન્જીનીયરશ્રી (S.W.M.)
- ડી.ઈ.ઈ.શ્રી (વીજીલન્સ શાખા - ટેક.)

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રાજકોટ મહાનગરપાલિકા

ડો. આંબેડકર ભવન, ઢેબરભાઈ રોડ, રાજકોટ - ૩૬૦ ૦૦૧.

વેબસાઈટ : www.rmc.gov.in

આર.એમ.સી./સી./વીજી. (ટેક) /જા. નં. - ૨૩૦

તા. ૧૧/૦૩/૨૦૨૨

પરીપત્ર:-

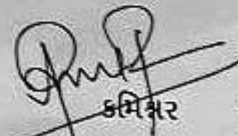
રાજકોટ મહાનગરપાલિકા અને RSCDL ખાતે ટેન્ડરથી થતા કામમાં સિમેન્ટ કોન્ક્રીટની કામગીરી કરવામાં આવે છે. આ કામોમાં ક્વોલિટી કન્ટ્રોલ જળવાઈ રહે તે માટે નીચે દર્શાવેલ દર્શાવ્યા મુજબ જુદા જુદા સિમેન્ટ કોન્ક્રીટ ગ્રેડ વાઈઝ મીનીમમ સિમેન્ટ કન્ટેન્ટના ધોરણો અનુસરવા અને તેનો સમાવેશ ટેન્ડર ડોક્યુમેન્ટમાં કરવા આથી હુકમ કરવામાં આવે છે.

(અ)	NABL માન્ય લેબ દ્વારા IS, IRC કે MORTH મુજબ તૈયાર કરાયેલ સિમેન્ટ કોન્ક્રીટ મીક્સ ડીઝાઈન રીપોર્ટ મુજબ કિગ્રા સિમેન્ટ કન્ટેન્ટ પ્રતિ ઘનમીટર
(બ)	નીચે દર્શાવેલ ટેબલ મુજબ મીનીમમ કિગ્રા સિમેન્ટ કન્ટેન્ટ પ્રતિ ઘનમીટર

Sr. No.	Cement Concrete Grade	28 Days Strength in N/mm ²	Minimum Cement in Kg
1	M-7.5 for PCC Work	7.5 N/mm ²	160 Kg
2	M-10 for PCC Work	10 N/mm ²	220 Kg
3	M-15 for PCC Work	15 N/mm ²	290 Kg
4	M-20 for RCC Work	20 N/mm ²	360 Kg
5	M-25 for RCC Work	25 N/mm ²	380 Kg
6	M-30 for RCC Work	30 N/mm ²	410 Kg
7	M-35 for RCC Work	35 N/mm ²	425 Kg
8	M-40 for RCC Work	40 N/mm ²	440 Kg
9	M-45 for RCC Work	45 N/mm ²	450 Kg

ઉપરોક્ત (અ) અને (બ) પૈકી જે વધુ હોય, તે સિમેન્ટ કન્ટેન્ટ ને ફાઈનલ મીનીમમ સિમેન્ટ કન્ટેન્ટ પ્રતિ ઘનમીટર ગણવા હુકમ કરવામાં આવે છે.

ઉપરોક્ત બાબતની અમલવારી તાત્કાલિક અસરથી ચુસ્તપણે કરવાની રહેશે.


કમિશનર
રાજકોટ મહાનગરપાલિકા

નકલ રવાના (જાણ તથા અમલવારી અર્થે)

- નાયબ કમિશનરશ્રી (ઝોન-વેસ્ટ, સેન્ટ્રલ, ઇસ્ટ)

નકલ રવાના - (અમલવારી અર્થે)

- તમામ સીટી એન્જીનીયરશ્રી, એડી. સીટી એન્જીનીયરશ્રી, એક્ઝીક્યુટીવ એન્જીનીયરશ્રી, એન્વાયરમેન્ટ એન્જીનીયરશ્રી (S.W.M.)

R.M.C./C/ ૧૩૨

કમિશ્નર વિભાગ,
રાજકોટ મહાનગર સેવાસદન
તા. ૧૦/૬/૨૦૧૩

હુકમ :-

વિષય:- ઈ-ટેન્ડર / ઓપન ટેન્ડર પદ્ધતિથી મંગાવવામાં આવતી તમામ પ્રકારની ઓફરો સાથે બિનઅધિકૃત રજુ થતાં ડોક્યુમેન્ટસ સામે કડક કાર્યવાહી હાથ ધરવા બાબત.

સંદર્ભ :- આ અગાઉનાં પરીપત્ર નં. આર.એમ.સી./સી./૩૨૯. તા. ૨૨/૧૨/૨૦૧૨.

રાજકોટ મહાનગર સેવાસદનના ત્રણ જોનનાં તમામ વોર્ડમાં શહેરનાં વિકાસ તથા જાળવણી માટે વિવિધ કામગીરી કરાવવા ઈ-ટેન્ડર / ઓપન ટેન્ડર પદ્ધતિથી અલગ અલગ એજન્સીઓ પાસેથી સ્પર્ધાત્મક ધોરણે અગમ્યારી પ્રતિધિથી ભાવો દુ 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 ફરજિયાતપણે ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ રજુ કરવા આદેશ કરવામાં આવેલ છે, જે સંબંધે નીચે મુજબનાં હુકમની અમલવારી તાત્કાલીક અસરથી કરવા આદેશ કરવામાં આવે છે.

(૧) તમામ ટેન્ડરકામોના ટેકનીકલ બીડ ઓપન કરતી વખતે જે ટેન્ડર બીડ ભરનાર એજન્સીઓ દ્વારા તમામ ડોક્યુમેન્ટસ કે તે પૈકી કોઈપણ એક ડોક્યુમેન્ટસ ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ રજુ કરેલ ન હોય તો રજુ થયેલ ટેકનીકલ બીડ ઓપન કરવાની કાર્યવાહી દરમ્યાન ટેકનીકલ બીડ ઓપન કરનાર સંબંધીત અધિકારીશ્રી / કર્મચારીશ્રીએ Disqualify પ્રકારનો રબ્બર સ્ટેમ્પ બિનઅધિકૃત રજુ થયેલ ટેન્ડરનાં તમામ પાને લગાવી ટેકનીકલ બીડમાં ટેન્ડર Disqualify ફરજિયાતપણે કરવાનું રહેશે.

જે ટેન્ડર ખરી નકલ કે સેલ્ફ એટેસ્ટેડ સાથે રજુ થયેલ નથી, તેવું ટેકનીકલ બીડમાં ધ્યાને આવ્યેથી રજુ થયેલ ટેન્ડરને Disqualify ન કરી, તે બીડરનું જો પ્રાઈઝ બીડ ખોલવામાં આવશે તો આવા પ્રાઈઝ બીડ ખોલનાર તમામ સંબંધીત અધિકારીશ્રી / કર્મચારીશ્રી સામે સખત શિક્ષાત્મક પગલાં લેવાની ફરજ પડશે.

(૨) તમામ ટેન્ડરોનાં ડિસ્સાઓમાં સંબંધીત ખરી નકલમાં રજુ થયેલ તમામ ડોક્યુમેન્ટસની મુળ (ઓરીજીનલ) નકલ મંગાવી તેની ખરી નકલની ચકાસણી ફરજિયાતપણે સંબંધીત ડી.ઈ.ઈ.શ્રી તથા મ.ઈ.શ્રી / અ.મ.ઈ.શ્રીએ કરવાની રહેશે. જે મુળ નકલ સાથે વેરીફાઇ કર્યાની સહી ફરજિયાતપણે દરેક ખરી નકલમાં સંબંધીત ડી.ઈ.ઈ.શ્રી / મ.ઈ.શ્રી / અ.મ.ઈ.શ્રીએ કરવાની રહેશે. તે પહેલાં તે ટેન્ડરની પ્રાઈઝ બીડ ઓપન કરી શકાશે નહીં, જેમાં ફરજિયાત થયેથી સંબંધીત જવાબદાર ડી.ઈ.ઈ.શ્રી / મ.ઈ.શ્રી / અ.મ.ઈ.શ્રી ની સામે કડક ખાતાકીય પગલાં લેવાની ફરજ પડશે.

(૩) ક્રમ નં. (૧) તથા (૨) મુજબની ચકાસણી કરવા છતાં જે ડિસ્સામાં ટેકનીકલ બીડ ઓપન કરતાં બીડર દ્વારા કોઈપણ પ્રકારનાં ફોડ ડોક્યુમેન્ટસ રજુ કરી કામ મેળવવા માટે પ્રયાસ કર્યાનું સાબિત થશે, તેવા ડિસ્સામાં બીડર / એજન્સીને બ્લેકલીસ્ટ કરી, આવા બીડર સામે ફરજિયાતપણે ફોજદારી કાર્યવાહી સંબંધીત શાખાના વડા તથા વીજલન્સ અધિકારીશ્રી (પ્રોટેક્શન) દ્વારા જોઈન્ટલી દિન-૭ માં કરવા આદેશ કરવામાં આવે છે, જેની લેખિતમાં

જાણ તાત્કાલીક અંગે કરવાની રહેશે, જેમાં ચૂક થયેલી સંબંધીત તમામ અધિકારીશ્રી / કર્મચારીશ્રી સામે કડક પગલાં લેવા ફરજ પડશે.

- (જ) સંદર્ભનો પરીપત્ર તથા આ હુકમ તમામ પ્રકારનાં ટેકનીકલ કામના દરેક ટેન્ડર પ્રસિધ્ધ કરતી વખતે ટેન્ડરનો હિસ્સો ગણી ટેન્ડરના ભાગ તરીકે પ્રસિધ્ધ કરવાનું ફરજિયાત રહેશે, તથા બીડર દ્વારા ટેન્ડરમાં પ્રસિધ્ધ થતાં સંદર્ભનો પરીપત્ર તથા આ હુકમનો દરેક પાને સહી સિક્કા સાથે ભરેલ ટેન્ડરની ટેકનીકલ બીડ ફરજિયાત રજૂ કરવાની રહેશે.

ઉપરોક્ત હુકમનો તાત્કાલીક અસરથી ચુસ્તપણે અમલ કરવા આદેશ કરવામાં આવે છે,


કમિશ્નર ૧૭/૬

રાજકોટ મહાનગર સેવાસદન

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

નકલ જાણ તથા અમલવારી અર્થે :-
(૧) સહાયક કમિશ્નરશ્રીઓ (તમામ)
(૨) શાખાધિકારીશ્રીઓ (તમામ)

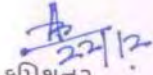
આર.એમ.સી./સી. ૩૨૪

રાજકોટ મહાનગરપાલિકા
કમિશનર વિભાગ
તા.૨૨/૧૨/૨૦૧૨

પરિપત્ર:-

ઇ-ટેન્ડર પદ્ધતિ / ઓપન ટેન્ડર પદ્ધતિથી માંગવામાં આવતી ઓફરોમાં એજન્સીઓ દ્વારા ટેકનીકલ બીડમાં રજુ કરવામાં આવતા ડોક્યુમેન્ટ્સ જેવા કે ટર્નઓવર, અનુભવના પ્રમાણપત્રો વિગેરે ખરી નકલમાં રજૂ કરવામાં આવતા નથી. આથી હવે પછીથી એજન્સીઓ દ્વારા રજૂ થતાં ટેકનીકલ બીડમાં રજુ કરવામાં આવતા ડોક્યુમેન્ટ્સ ખરી નકલમાં અથવા સેલ્ફ એટેસ્ટેડ હોવા જરૂરી છે તેમજ જે એજન્સીનું ટેન્ડર ટેકનીકલ બીડમાં ક્વોલીફાય થાય અને ખરી નકલ ગેઝેટેડ ઓફીસર મારફત પ્રમાણિત કરાવેલ ન હોય તેવા કેસમાં તેના ઓરીજીનલ ડોક્યુમેન્ટ્સ પ્રાઇસબીડ ખોલતા પહેલા ચકાસી અને ખરી નકલ રજૂ કરાવીને જ ખોલવાના રહેશે તથા આ બાબતનું શાખાધિકારીશ્રીઓએ ચુસ્તપણે પાલન કરાવવાનું રહેશે. આમ ન થયેથી પુરતી ચકાસણીને અભાવે જો કોઇ એજન્સીને ખોટા કે અધુરા આધારો સાથે કામ આપવાની ક્ષતિજનક બાબત જાણમાં આવ્યે તે ટેન્ડર ડોક્યુમેન્ટ્સની ચકાસણી કરનાર કર્મચારીશ્રીઓ તેમજ શાખાધિકારીશ્રીની જવાબદારી નક્કી કરવામાં આવશે, જેની સર્વે શાખાધિકારીશ્રીઓએ નોંધ લેવી.

ઉપરોક્ત બાબતનો અમલ તાત્કાલિક અસરથી કરવો.


કમિશનર

રાજકોટ મહાનગરપાલિકા

નકલ રવાના :- (જાણ અર્થે)

- નાયબ કમિશનરશ્રીઓ (તમામ)

નકલ જાણ તથા અમલવારી અર્થે :-

- સહાયક કમિશનરશ્રીઓ (તમામ)

- શાખાધિકારીશ્રીઓ (તમામ)

જોજદારી કાર્યરીતી અધિનિયમ ૧૯૭૩ (૧૯૭૪ ના નં.૨) ની કલમ ૧૪૪ અન્વયે ઘટેલ દુકમ

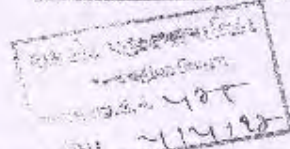
જોજદારી કાર્યરીતી અધિનિયમ ૧૯૭૩ (૧૯૭૪ ના નં.૨) ની કલમ ૧૪૪ અન્વયે ઘટેલ દુકમ

કચોક્: એસ.બી./મજુર/જાહેરનામું/૧૩૩૬૨૦૧૪.

પોલીસ કમિશ્નરશ્રીની કચેરી,

રાજકોટ શહેર, રાજકોટ.

તા. ૨૬/૦૪/૨૦૧૪



તારીખ ૨૦/૦૪/૨૦૧૪ના રોજ રાજકોટ શહેરમાં ઘટના બની હતી. આ ઘટનામાં રાજકોટ શહેરમાં બનેલ ઘટનાના અંગત અંગત તપાસ કરતા તપાસમાં આવા ગુનેા કરનાર (કરોડીયા) પકડાયેલ છે. ત્યારે તપાસમાં આવા ગુનેા વાળા આરોપીઓ ગુનેાના બનાવના દિવસે અગાઉ રાજકોટ શહેરમાં નવા બંધાતા ગામોમાં જુદી જુદી ઔદ્યોગિક કંપનીઓમાં, કોર્પોરેશનમાં મજુરી કામ અને ટેલીફોન કંપનીઓ સ્થાન તથા ગેસ પાઇપ લાઇન માટે ખોદાતા ખાડાઓની મજુરી કામ મેળવી અથવા તેના બહાના ફેકલ આવી શોધા કરી આજુબાજુની સ્થાનિક પરીસ્થિતિનું સર્વે કરી માહિતીવાર થઈ મિલકત વિરુદ્ધના ગુનેાઓ આચરતા હોય છે. મજુરી કામના બહાના ફેકલ આતંકવાદીઓ પાસે આશરો મેળવી લેતા હોય છે જેથી જાહેર જનતાની જાન-માલ (મિલકત)ની સલામતી તથા સુરક્ષા સારું થીડા નિયંત્રણો મુકવે જરૂરી જણાય છે.

જેથી હું મોકલ ગયું (૧.૨.૬.૬). પોલીસ કમિશ્નર, રાજકોટ શહેર જોજદારી કાર્યરીતી અધિનિયમ (સી.આર.પી.સી.) ૧૯૭૩ (૧૯૭૪ ના નં.૨) ની કલમ ૧૪૪ અન્વયે અમીને પૂર્ણ સલામતી રૂપે આવી હું દુકમ કરું છું કે, રાજકોટ શહેરના પોલીસ કમિશ્નર વિસ્તારમાં લેવર કોન્ટ્રાક્ટર/મુકાદમાઓએ થોતાની ખાસે જે મજુર કામે શમેલ હોય અને મજુરી કામકાજ માટે સંપાત્ર કરતા હોય તેઓએ નીચે જણાવેલ કોમ મુકબ દરેક મજુરીના ચક્રા-અગ્રાજ ક્રોમ હારી કરજીયાત પાલે સ્થાનિક પોલીસ સ્ટેશનને જણા કરવાની રહેશે તથા મજુરી જવાને મજુરી કામ તથા રાજકોટ શહેર છોડી જતા રહે ત્યારે લેવર કોન્ટ્રાક્ટર/મુકાદમા તે અંગેની જાણ નામ/સરનામ સહિતની વિગત સાથે સ્થાનિક પો.સ્ટે.મા કરવાની રહેશે.

૧	લેવર કોન્ટ્રાક્ટર / મુકાદમા (સંપાદક) નું પૂરું નામ સરનામું	-
૨	મો.નં., નંબર સહિત	-
૩	મજુરનું નામ તથા ડી.વ.	-
૪	મજુરનું કાલનું સરનામું ટેલીફોન નંબર	-
૫	મજુરનું પૂર્ણ વતનનું સરનામું ગામ, તાલુકો, જિલ્લો	-
૬	જાલની મજુરીનું સ્થાન / કંપનીનું નામ	-
૭	મજુરનું વતનનું સ્થાનિક પો.સ્ટે.નું નામ તથા ટેલીફોન નંબર	-
૮	મજુરના વતનના આગેવાનનું નામ, સરનામું, ટેલીફોન નંબર	-
૯	મજુર અગાઉ કોઈ પોલીસ ગુનેામાં પકડાયેલ હોય તો તેની વિગત	-
૧૦	કચારથી મુકાદમા / કોન્ટ્રાક્ટર મજુરી કામ માટે અંગેનું છે	-
૧૧	મજુરનું અંગેનું આલકી પુરું (ફોટા સાથે નું)	-
૧૨	રાજકોટ શહેરમાં કોઈ તારીખથી મજુરી કામ કરે છે ? અને કોઈ તારીખે જવાનો છે ?	-
૧૩	રાજકોટ શહેરમાં નજીકના સંબંધી કોઈ કોઈતો તેનું નામ, સરનામું	-

મજુરનો તારીખનો ફોટા

મજુરના અંગેનું નિર્ણય

મુકાદમા/સંપાદક/કોન્ટ્રાક્ટરની સહિ

નામ

આ દુકમ તા. ૦૧/૦૪/૨૦૧૪ થી તા. ૩૦/૦૬/૨૦૧૪ સુધી અમલમાં રહેશે.

આ દુકમની હાલ કરનાર વ્યક્તિ ભારતીય ટેલ સહિતની કલમ ૧૮૮ મુકબ શિક્ષાને પાત્ર થશે.

સહી (અધિકારી)

સહી (મજુર)

સહી (મજુર)

૨૧/૪/૧૪

તમામને વ્યક્તિગત રીતે જોડીશો બજવાળી કરવી ચક્ર ન હોય ત્યાંથી એકત્રીકૃત દુકમ કરુ છુ. જાહેર જનતાની જાણ સારું સ્થાનીક વર્તમાન પણ બાકાશવાળી અને દુરદર્શન કેન્દ્ર ખારકુતે પ્રસિધ્ધી દ્વારા તાથ પોલીસ સ્ટેશનના પોલીસ ઇન્સ્પેક્ટર, મહત્વની પોલીસ કમિશર, બાવલ પોલીસ કમિશર તથા પોલીસ કમિશર કરોડના ગોટીશ બોર્ડ ઉપર દુકમની નકલ ચોટાડી પ્રસિધ્ધી કરવામાં આવશે તેમજ સંદેશાદયી જોઈ શકાય તેવી જાહેર જગ્યાઓ ઉપર દુકમની નકલ ચોટાડી પ્રસિધ્ધી કરવામાં આવશે ગુજરાત પોલીસ એક્ટ હાથ પકડ મુજબ પોલીસ અધિકારીઓ પણ આ દુકમની જાહેરાત કરવા અધિકૃત ગણાશે.

આજ તારીખથી એપ્રિલ-૨૦૧૪ ના રોજ માસી સદી અને સિદ્ધી કરી આપેલ છે.



(મોકલ યા)
પોલીસ કમિશર
રાજકોટ શહેર, રાજકોટ

નકલ રવાના:-

- (૧) અગ્ર સચિવશ્રી, ગૃહ વિભાગ, ગાંધીનગર.
- (૨) પોલીસ મહાનિદેશક અને મુખ્ય પોલીસ અધિકારીશ્રી, ગુ. રા. ગાંધીનગર
- (૩) અધિક પોલીસ મુખ્ય નિદેશકશ્રી (કોર્ટ), ગુ. રા. ગાંધીનગર.
- (૪) પોલીસ કમિશરશ્રી, અમદાવાદ શહેર, વડોદરા શહેર, સુરત શહેર.
- (૫) બાલ મુખ્ય પોલીસ અધિકારીશ્રી, રાજકોટ શહેર, રાજકોટ.
- (૬) જીલ્લા પોલીસ અધિકારીશ્રી, રાજકોટ શહેર રાજકોટ.
- (૭) કલેક્ટરશ્રી, રાજકોટ શહેર.
- (૮) મ્યુનિસિપલ કમિશરશ્રી, રાજકોટ શહેર.
- (૯) નિયામકશ્રી, માસીતી ખાતે રોજગર રાજકોટ શહેર મુખ્ય સચિવાલય પ્લોટ નં.૭, વીજા માળે, ગુ. રા. ગાંધીનગર.
- (૧૦) જીલ્લા મહત્વની વકીલશ્રી, સેક્શન કોર્ટ, રાજકોટ.
- (૧૧) મેનેજરશ્રી, ભલેગંડ પેરા, રાજકોટ. સ્પેશિયલ બ્રાન્ચ માં પ્રસિધ્ધ કરવા સારું.
- (૧૨) મહત્વની પોલીસ કમિશરશ્રી, પૂર્વ પશ્ચિમ વિભાગ, રાજકોટ શહેર.
- (૧૩) આર્થ. કમિશરશ્રી (કોર્ટ), રાજકોટ રીક્રીમલ, રાજકોટ.
- (૧૪) બાવલ પોલીસ અધિકારીશ્રી, પા. કોર્ટ, રાજકોટ જેને જરૂરના પી.સી.
- (૧૫) તમામ પો.સે. ઇન્ચાર્જશ્રીઓ, રાજકોટ શહેર (નકલ) ચોટાડી લાઉટ સ્પીકર વાઠન દ્વારા જાહેરાત કરાવવા સારું
- (૧૬) તમામ જીલ્લા તથા માળા ઇન્ચાર્જશ્રીઓ, રાજકોટ શહેર.
- (૧૭) કન્ડોલ ઇન્ચાર્જશ્રી, રાજકોટ શહેર (૧૦ નકલ) વર્તમાનપત્રોને આપવી.
- (૧૮) લેખક કમિશરશ્રી, ... તમામ ખાતેની સભ્યશ્રીને આવગત કરવા સારું

નકલ સંવિનય રવાના:-

- (૧) રજીસ્ટ્રારશ્રી, કોર્ટકોટ, ગુ. રા. સોલારીક ગમેરાવવા.
 - (૨) રજીસ્ટ્રારશ્રી, કોર્ટકોટ એન્ડ સેશન્સ કોર્ટ, રાજકોટ.
 - (૩) રજીસ્ટ્રારશ્રી, ગોડ જમુડીશાલ મેજી. માં કોર્ટ, રાજકોટ.
 - (૪) રજીસ્ટ્રારશ્રી, એડીશનલ સેશન્સ જજ કોર્ટ રાજકોટ.
 - (૫) એડીશનલ મેજી. શ્રી, રાજકોટ શહેર
 - (૬) એડીશનલ મેજી. શ્રી, રાજકોટ ન બુકા
 - (૭) સચુકત માસીતી નિયામકશ્રી, રાજકોટ.
- (સ્થાનીક વર્તમાનપત્રો, બાકાશવાળી તથા દુરદર્શન કેન્દ્રમાં પ્રસિધ્ધ કરવા અને વર્તમાનપત્રોની કપડાંથી એકલવા સારું)

૧૭



રાજકોટ મહાનગરપાલિકા

હિસાબી શાખા

ડો.આંબેડકર ભવન, ઢેબરભાઇ રોડ, રાજકોટ - ૩૬૦ ૦૦૧.

રા.મ.ન.પા./હિસાબી/જા.નં.....૪૨૧

તા. ૧૬/૬/૨૦૧૭

નોંધ -

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

ઉપરોક્ત વિષયે જણાવવાનું કે રાજકોટ મહાનગરપાલિકા નાં તમામ વેન્ડર / કોન્ટ્રાક્ટરો ની Vendor Registration માં GST No. ની જરૂરીયાત હોય તાત્કાલીક અપડેટ કરવા વિનંતિ. Temporary Vendor નાં Regi. આપની શાખામાં જ થઇ જશે જ્યારે Permanent Vendor નાં GST No. અપડેટ કરવા શાખા અધિકારીશ્રી નાં જરૂરી સહી સીકકા સાથે નીચે મુજબ વિગત નું પત્રક બનાવી દિવસ - ૭ માં હિસાબી શાખામાં માહિતી મોકલાવી આપવા વિનંતી.

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

જાવે
સ્ટેડી (૮૨)
પા.મ.ન.પા. હિસાબી શાખા
નોંધ - ૫૮૪

ચીફ એકાઉન્ટન્ટ
રાજકોટ મહાનગરપાલિકા

તમામ વિગતો ચકાસીને અપડેટ કરવી / ચકાસીને મોકલવી અન્યથા સપ્લાયર્સ ને TDS ની કેડીટ મળશે નહીં જેની નોંધ લેવા વિનંતી.

નકલ અમલવારી અર્થે

૧. તમામ શાખા અધિકારીશ્રી ઓ

નકલ સવિનય જાણ અર્થે

- માન. કમિશનર સાહેબશ્રી
- માન. નાયબ કમિશનર સાહેબશ્રી

રાજકોટ મહાનગરપાલિકા
સે. ઝોન માંડકામ શાખા
ઈન્વર્ડ નંબર ૭૩૭
તારીખ ૧૬/૬/૧૭

આથી હું અમિત અરોરા (IAS), મ્યુનિસિપલ કમિશનર, રાજકોટ મહાનગરપાલિકા, રાજકોટ ગુજરાત પ્રોવિન્સીયલ મ્યુનિસિપલ કોર્પોરેશન એક્ટ-૧૯૪૯ની જોગવાઈ અનુસંધાને મળેલ સત્તા મુજબ, જાહેર હિતને ધ્યાને લઈ, રાજકોટ મહાનગરપાલિકા વિસ્તારમાં ઇમારત તોડવા, સમારકામ અથવા તો નવા બાંધકામ દરમિયાન 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 દરમિયાન નળીયા, પથરા, ઇંટો, ઇમારત બાંધવાના માલ સામાન અને એવા માલ સામાનનો કાટમાળ ગમે તે જગ્યાએ નિકાલ / એકઠો કરવામાં આવે છે. જેનાથી એવી જગ્યાએ ઉંદરો અથવા અન્ય જીવ જંતુઓનું આશ્રય સ્થાન અથવા ઉત્પત્તિ સ્થાન બને છે. તેમજ સદરહું જગ્યાનો ભોગવટો કરનારાઓને અથવા પડોશમાં રહેતી વ્યક્તિઓના ભય અને ઉપદ્રવનું કારણ બને છે. તેના કારણે રોગચાળો ફેલાવવાનો ભય અને લોકોના આરોગ્ય તથા જાનમાલને નુકસાન થાય તેવી સ્થિતિ ઉત્પન્ન થાય છે. તેમજ તે કચરો (Construction and Demolition Waste) દુર કરવા રાજકોટ મહાનગરપાલિકાને ખુબજ મોટો ખર્ચ થાય છે, તેમજ માનવ સમય બગડે છે. આમ, લોકોના જાનમાલના અને આરોગ્યના નુકસાનના ભોગે આવી ગેરકાયદેસર પ્રવૃત્તિ ચાલી રહેલ છે, આવી કોઇપણ પ્રવૃત્તિ જન આરોગ્ય માટે બિન સલામતી નોતરે તેમ હોય, ગુજરાત પ્રોવિન્સીયલ મ્યુનિસિપલ કોર્પોરેશન એક્ટ અનુસુચી-ક ના પ્રકરણ-૧૪ ની જોગવાઈઓ અનુસંધાને આવી તમામ પ્રવૃત્તિ કરવાનો અગાઉના જાહેરનામા નં.રા.મ.ન.પા./મ.ઓ./સો.વે.મે./જા.નં.૧૯૪૧, તા.૦૬/૦૮/૨૦૧૯ થી પ્રતિષેધ ફરમાવવામાં આવેલ અને આવા કચરા (Construction and Demolition Waste)ના નિકાલ માટે રાજકોટ મહાનગરપાલિકાએ નીચે દર્શાવેલ સ્થળો નિયત કરવામાં આવેલ.

૧. કોઠારીયા પોલીસ ચોકીની બાજુમાં પથ્થરની ખાણ પાસે,
૨. રૈયા સ્માર્ટ સીટીના તમામ ખાણ વિસ્તાર,
૩. ટી.પી.સ્કીમ નં.૧૦, એફ.પી.-૮૭, ઢેબર રોડ, સાઉથ અટીકા વિસ્તાર, પી.જી.વી.સી.એલ. ઓફિસ પાસે,
૪. ટી.પી.સ્કીમ નં.૨૩, એફ.પી.-૨૩, મોરબી રોડ, પોપટપરા આઇ.ઓ.સી. ગોડાઉન પાસે,
૫. સમ્રાટ ઇન્ડ. એરિયા, એસ.ટી. વર્કશોપ પાછળ, અનામત પ્લોટ,
૬. ટી.પી.સ્કીમ નં.૯, એફ.પી.-૫, રૈયાધાર ગાર્બેજ ટ્રાન્સફર સ્ટેશન પાસે,
૭. ટી.પી.સ્કીમ નં.૨૦, એફ.પી.-૩૫, પ્રધુમન ગ્રીન પાછળ

ઉપરોક્ત સ્થળો ઉપરાંત નીચે મુજબના સ્થળો Construction and Demolition Waste ના નિકાલ માટે નિયત કરવામાં આવે છે.

૧. જેટકો ચોકડી, ટી.પી.સ્કીમ નં.૨૮, મવડી, એફ.પી.-૪૬/એ,
૨. ટી.પી.સ્કીમ નં.૧૨, કોઠારીયા નેશનલ હાઇવે, લીજજત પાપડ પાસે, એફ.પી.-૩૮/એ, ૩૯/બી.

ઉપરોક્ત નિયત કરેલ સ્થળો સિવાય અન્ય કોઇપણ જગ્યાએ કોઇપણ ઇસમ/ઇસમો છકડો, ટ્રેક્ટર અથવા ડમ્પર દ્વારા (Construction and Demolition Waste) નો નિકાલ કરતાં પકડાશે તો પ્રથમ વખત છકડો/ટ્રેક્ટર દીઠ રૂ.૭,૫૦૦/- તથા ડમ્પર દીઠ રૂ.૧૫,૦૦૦/-, બીજી વખત છકડો/ટ્રેક્ટર દીઠ રૂ.૧૫,૦૦૦/- તથા ડમ્પર દીઠ

રૂ.30,000/- અને ત્રીજી વખત છકડો/ટ્રેક્ટર દીઠ રૂ.40,000/- તથા ડમ્પર દીઠ રૂ.1,00,000/-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 - 0269-2450093 પર ફોન કરી તેમની મિલ્કતનાં રીપેરીંગ કે કાટમાળનો નિકાલ નીચે મુજબનાં નિયત થયેલ ચાર્જીસ ભરપાઇ કરી નિકાલ કરવાની વ્યવસ્થાનો લાભ મેળવી શકશે.


- રીક્ષા કે ૧/૨ ટ્રેક્ટર રૂ.300/-
- ટ્રેક્ટર જેટલો જથ્થો રૂ.400/-
- ટ્રક / ડમ્પર જેટલો જથ્થો રૂ.1,000/-

ઉપરોક્ત નિયત કરાયેલ સ્થળોએથી ખાનગી માલિકો, જુનો એકત્રિત થયેલ બાંધકામનો કાટમાળ પોતાના ઉપયોગ માટે સ્વખર્ચે ઉપાડી લઇ જઇ શકશે.

ઉક્ત જાહેરનામાનો ચુસ્તપણે અમલ કરવો.

રાજકોટ.

તા. 4/6/2022


કમિશનર
રાજકોટ મહાનગરપાલિકા

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विषयः - कलकत्ता नगर संस्था प्रभुती वसुधायुधम्

સત્ય:- આપની કચેરીનાં તા. 30/9/2006નો પત્ર

અપરોક્ષ વિષમ અને સંદર્ભ પત્ર વ્યવસ્થા આપતી કચેરી વ્યવસ્થા "કરાર ખત" પા-
રામાં નોંધાયેલ સુધીના માર્ગદર્શન બાબતે જણાવવાનું છે, અનેની કચેરીના પાલિકા નં સ્ટેમ્પ
નં. ૩૪૭૦૦/૮૩૮ તા. ૫/૨૨૦૦૦ ના પરિપત્ર ની નકલ મોકલવામાં આવેલ છે. એના પરથી
જાણવાલ સ્ટેમ્પ સુધી વાપરવાની થાય છે.

વિશેષમાં જણાવવાનું કે, આપના ધ્વારા અમે ૨૪ થયેલ વિગત અનુસાર અંગ્રેજી ના
 નામોના સરિપત ના મુદ્દા નં. ૨ મુજબ એપ્રિલ ૧૯૮૨ માટે રૂ. ૧૦૦/- તથા ડિસેમ્બર ૧૯૮૨ માટે રૂ. ૧૦૦/-
 ના સરિપત બેકની સીલ કરી દીધા હતા તથા નાની બચત પત્રોની રૂ. ૫૫ (અઢી દહા) રકમ રૂ.
 ૨૫.૦૦ ૪૦૦/- ઉપર આદેશ - ૩૬ (ક) સાથે આદેશ - ૨૦(ક)ના પ્રકાશિત કરેલ તથા
 ૨૦૦૦-૩ મુજબ સરકારી સરિપત ૧૦૦/- ને ૮.૯૯% મુજબ એમ ૭ મુદ્દા અરપાક કરાવવાના હોવાનો
 અંગ્રેજી નામોના સરિપત ના મુદ્દા નં. ૨ મુજબ એપ્રિલ ૧૯૮૨ માટે રૂ. ૧૦૦/- તથા ડિસેમ્બર ૧૯૮૨ માટે રૂ. ૧૦૦/-

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पुस्तकालय, मुंबई-४००००५

Handwritten text, likely a signature or date, including the word "MAY" and "1968".

નં.સ્ટેમ્પ-અનામ-૧૪-૨૦૦૭-૯૩૮

સુપ્રિ.ઓફ સ્ટેમ્પસની કચેરી,
સ્ટેમ્પ અને નોંધણી ભવન,
સેક્ટર-૧૩-સી, ખ રોડ,
ગાંધીનગર.

તા. ૧૫-૨-૦૭

પરિપત્ર:-

અત્રેની કચેરીનાં ધ્યાન ઉપર આવેલ વિગત મુજબ ગુજરાત રાજ્યમાં આવેલ જીલ્લા પંચાયત, નગર પાલિકાઓ તરફથી કરવાના થતા બાંધકામ તથા અન્ય કામો માટે ટેન્ડર બહાર પાડી. કોન્ટ્રાક્ટરો પાસે કામગીરી કરાવવામાં આવે છે. આવી કામગીરી માટે જે કોન્ટ્રાક્ટરનું ટેન્ડર મંજૂર કરવામાં આવે છે. તે ટેન્ડરની અંદાજીત રકમ પૈકી નિયમોનુસાર અનામતની (સીક્યુરીટી - ડીપોઝીટની) રકમ લેવામાં આવે છે. તે અંગે જીલ્લા પંચાયત / નગરપાલિકા / મહાનગરપાલિકા અને કોન્ટ્રાક્ટર વચ્ચે કરાર કરવામાં આવે છે. આવા કરારો સ્ટેમ્પ ડ્યુટીના અભિપ્રાય માટે અને રજૂ કરવામાં આવે છે. તેમાં જે ડિપોઝીટની રકમ અનામત મુકવાની થાય છે. તે રોકડ, ચેક, ડીમાન્ડ ડ્રાફ્ટ બેંક ગેરંટી ફિક્સ ડીપોઝીટ રીસીપ્ટ એન.એસ.સી. બચતપત્ર વિગેરે પૈકીના એક યા વધુ માધ્યમથી આપવામાં આવે છે. તેમાં ટેન્ડર અન્વયે કેટલી રકમ સીક્યુરીટી ડીપોઝીટ ગેરંટી મુકવાની છે અને કયા માધ્યમથી મુકવામાં આવે છે. તેની પુરેપુરી વિગત રજૂ કરેલ ન.હોય તો આવા કેસોમાં પુરેપુરી વિગત રજૂ કરવામાં ન આવે ત્યાં સુધી અભિપ્રાય આપી શકાતો નથી અથવા વિલંબ થાય છે. આવી પરિસ્થિતિ નિવારવા અને ટેન્ડરની રકમ અન્વયે જે કરાર કરવામાં આવે છે. તેમાં નીચેની વિગતો સ્ટેમ્પ ડ્યુટી લેવાની થાય છે.

(૧) અનામતની જે રકમ રોકડ, ચેક યા ડ્રાફ્ટથી લેવામાં આવે અથવા તો બેંક ગેરંટીથી આપવામાં આવે તો કરારનાં લેખ ઉપર મુબઈ સ્ટેમ્પ અધિનિયમ - ૧૯૫૮ની અનુસુચિ-૧ ના આર્ટીકલ - ૫ (જ) મુજબ કરાર ઉપર રૂા. ૧૦૦/- સ્ટેમ્પ ડ્યુટી વાપરવાની થાય છે.

(૨) ટેન્ડર અન્વયે જે અનામતની રકમ ફિક્સ ડીપોઝીટ રીસીપ્ટ, એન.એસ.સી. યા અન્ય કોઈ બચતપત્રના માધ્યમથી અનામત મુકવામાં આવે તો તેટલી અનામતની રકમ ઉપર મુબઈ સ્ટેમ્પ અધિનિયમ - ૧૯૫૮ની અનુસુચિ-૧ ના આર્ટીકલ - ૩૬ (ક) સાથે આર્ટીકલ ૨૦ (ક) મુજબ આ રીતે આપવામાં આવેલ અનામતની રકમના પ્રત્યેક રૂા. ૧૦૦/- અથવા તેના ભાગ માટે ૪.૨૫% પ્રમાણે સ્ટેમ્પ ડ્યુટીને પાત્ર બને છે.

આપના તરફથી જે કામો માટે ટેન્ડર બહાર પાડવામાં આવે અને તેમાં ટેન્ડરની રકમ અન્વયે જે રકમ ડિપોઝીટ (અનામત) મુકવામાં આવે છે. તેમાં ઉપર દર્શાવ્યા મુજબ સ્ટેમ્પ ડ્યુટીને પાત્ર બને છે. તે મુજબ અમલ કરવા વિનંતી છે. સાથોસાથ આપના ધ્યાને

જી.કે.સી.
૧૫/૨/૦૭

જી.કે.સી.
નં. ૧૫/૨/૦૭
તા. ૧૫/૨/૦૭

- ૨૩ -

જી.કે.સી.
૧૫/૨/૦૭

કો-ટ્રાક્ટરને વર્ક ઓર્ડર આપવામાં આવે તે સમયે કરારનામા ઉપર ઉક્ત વિગતે યોગ્ય સ્ટેમ્પ
ડયુટી ભરપાઈ કરેલ છે. કેમ? તેની પ્રકાશગી કરવા પણ જાણવામાં આવે છે.



પાંચક સુમિ. બેંક રોમ્બ
ગુજરાત રાજ્ય સંચાલન

પ્રતિ, શ્રી બુલના કો-ટ્રાક્ટર
(૧) જીલ્લા વિકાસ અધિકારી,
જીલ્લા વિકાસ અધિકારીની કચેરી

(૨) મુનીતાપલ કમિશ્નરશ્રી,
મુ. કમિશ્નરશ્રીની કચેરી

(૩) પોંક ઓફિસરશ્રી તમામ
નગરપાલિકા કચેરી,
(હી પાનેર) જી. કાજકોટ

સાચકી કલકો
પાંચક સુમિ. બેંક રોમ્બ
ગુજરાત રાજ્ય સંચાલન



RAJKOT MUNICIPAL CORPORATION
ACCOUNTS DEPARTMENT
Room No. 4, 2nd Floor
Dr. Ambedkar Bhavan,
Debar Road,
Rajkot - 360001

PARTY/VENDOR REGISTRATION FORM

VENDOR CODE	:	
Party Name	:	
Authorized Person	:	
PAN Card No.	:	
GST No.	:	
Address	:	
City	:	
Phone No.	:	
Mobile No.	:	
eMail ID	:	
Website	:	
Area Of Work	:	
Bank Details (attach copy of cancelled cheque)		
Bank Name	:	
Branch Name	:	
MICR Code	:	IFSC Code :
Account Type	:	
Account No.	:	

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

TO,
CHIEF ACCOUNTANT,
ACCOUNT DEPARTMENT,
RAJKOT MUNICIPAL CORPORATION

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

SIGN
NAME
DESIGNATION
DEPARTMENT NAME

રાજકોટ મહાનગરપાલિકા

હિસાબી શાખા

તા. ૨૦/૦૯/૨૦૧૮

જા. નં. ૧૬૧૭

પરિપત્ર :-

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

સંદર્ભ :- (૧) GoI, MoF (Department of Revenue) Central Board Indirect Taxes and
Customs Notification No. 50/2018-Central Tax
(૨) GoG, Finance Department Notification No. 50/2018-State Tax

ઉપરોક્ત વિષય અને સંદર્ભે ગુજરાત ગુડ્સ એન્ડ સર્વિસ ટેક્સ એક્ટ, ૨૦૧૭ તથા સેન્ટ્રલ ગુડ્સ
એન્ડ સર્વિસ ટેક્સ એક્ટ, ૨૦૧૭ ની કલમ ૫૧ અનુસાર રૂ. ૨,૫૦,૦૦૦ થી વધુ રકમના વેરાપાત્ર
ચીજવસ્તુઓ ખરીદે કે વેરાપાત્ર સેવાઓ કોન્ટ્રાક્ટથી મેળવે તો કુલ ૨% (બે ટકા) ટેક્સ ડિડક્શન એટ સોર્સ
(જી.એસ.ટી. ટી.ડી.એસ) કાપવાનો થાય છે.

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


નાયબ કમિશ્નર

રાજકોટ મહાનગરપાલિકા

બિડાણ :- GST FAQ's

નકલ સવિનય જાણ અર્થે:-

- (૧) માન. કમિશ્નર સાહેબશ્રી
 - (૨) માન. નાયબ કમિશ્નર સાહેબશ્રી, (વે.ઓન. ઈ.ઓન.)
- નકલ અમલવારી અર્થે:-
- (૧) તમામ શાખા અધિકારીશ્રી

સા.મ.ન.પા.લીગલજન. 1571
 રજીસ્ટ્રાર
 29/12/2019

સા.મ.ન.પા.લીગલજન. 1571

રાજકોટ મહાનગરપાલિકા
 લીગલ મુકાબ
 તા. 29/12/2019

પરિપત્ર :

વિષય : ઇ.પી.એફ. યોજના અંતર્ગત આપવાની સત્તી માહિતી

રાજકોટ મહાનગરપાલિકાની જુદી-જુદી શાખાઓમાં ફરજ બજાવતા કર્મચારી કે જેઓને ઇ.પી.એફ. યોજના લાગુ પડે છે, અથવા તો જેઓને એક વખત આ યોજના લાગુ પડી ગયેલ હોય, તેઓના ઇ.પી.એફ. એકાઉન્ટમાં કે.વાચ.સી. (K.V.C.S.I.) ફોર્મમાં આધાર કાર્ડ, પાનકાર્ડ, લેક એકાઉન્ટની વિગતો તથા બીજાકાલે જાનર બપોટ કરવાના બાકી હોય તેનું લીસ્ટ ઇ.પી.એફ. કચેરીમાં જે કર્મચારી/એકાઉન્ટ હોલ્ડરની જરૂરી વિગતો પુરી પાડવામાં આવેલ ન હોય તે સત્વરે પુરી પાડવાની યાચ છે. તથા અરેથી આ કામગીરીના સંકલન અર્થે નિયુક્ત કરવામાં આવેલ પેનલ એડવોકેટ તરફથી ઇ-મેઇલ મારફતે ચાદી પુરી પાડેલ છે. જે આ તારીખે સામેલ છે. સકરફુ લીસ્ટના કર્મચારીઓની વિગત સંબંધિત જાણાવે દિન-૨ માં પેનલ એડવોકેટ અમલ કન્સલ્ટન્ટ ને અચુકપણે પહોંચતી કરવાની યાચ છે.

આ ઉપરાંત રાજકોટ મહાનગરપાલિકાની જુદી-જુદી શાખાઓ વાસ સને ૨૦૧૧ થી આજરોજ સુધી એન્ટ્રાક્ટરો મારફતે કાર્ય કરાવેલ હોય જેમાં માનવશ્રમનો ઉપયોગ થયો હોય. તે તાલુકાલે ફોર્મમાં ઇ.પી.એફ. એક્ટ તથા ઇ.એસ.આઇ. એક્ટ લેકા રજીસ્ટ્રેશન કરાવેલ છે કે કેમ? તેની ખસણ બાદ જે સંબંધિત એન્ટ્રાક્ટરશ્રીઓના બીલ પાસ કરવા બગાઉ સુચના આપવામાં આવેલ હતી. જેનો કારણે ૩૩૩ સંખ્યાના સુચના આપવામાં આવે છે. સંબંધિત એન્ટ્રાક્ટરોની તથા તેઓ કસ્ટડિયન કમિશીની ઇ.પી.એફ. કચેરી તરફથી આવેલ પત્રમાં દર્શાવેલ વિગતો તાત્કાલિક અસરથી પેનલ એડવોકેટશ્રીને દિન-૫ માં પહોંચતી કરવા હેતુ શાખાધિકારીને સુચિત કરવામાં આવે છે.

રાજકોટ મહાનગરપાલિકા
 હિસાબી શાખા
 રજીસ્ટ્રાર
 29/12/2019

સદરફે વિગત વિગત સમયમર્યાદામાં ન પડીશવાના સંજોગોમાં બચવા તે ગમપુરો માને બોટી વિગતો મોકલવા બાબતે સંબંધિત શાખાઓની વ્યક્તિગત જવાબદારી નક્કી કરવામાં આવશે. જેટલી લીસ્ટમાં હાજરના પ્રમાણેના સજકોટ મહાનગરપાલિકાના કર્મચારીઓની વિગતો તથા શાખાની દરમિયાન ઠસકના કોન્ટ્રાક્ટર તથા તેઓ ઠસકના કમિશીની વિગતો જોઈ ચકાસાઈ કરી વિગત કરેલ સમયમર્યાદામાં પેનલ બેડવોકેટને પહોંચતી કરવી. તથા તેની જાકુ લીગલ સાબતને કરવી

ઉપરીકલ પરિપત્રની મુસ્તાપ્તે તાત્કાલિક બલરથી અમલ કરવો

નકલ સવિનય રવાના :-

- મહાન કમિશનર સાહેબ
- નાયબ કમિશનર (ક.જી.)/સે.જી.:

નકલ રવાના :-

તમામ શાખાઓની (અમલસર)

પેનલ બેડવોકેટનું સરનામું :- શ્રીમતી કોનેલન

૫૦૨ મેન્જરેટ સ્ટોર

રાયોર રોડ. સાયકલ જોન ઉપર

સજકોટ, ડોન નં. ૨૪૩૩૮૦

નોંધ : સંબંધિત કોન્ટ્રાક્ટરો ઇ.પી.બેડ બેડ તથા ઇ.પી.બેડ બેડ બેડ રજીસ્ટ્રેશન ન બોલેલા હોય તેવા તમામ કોન્ટ્રાક્ટરોના બીલી બોડીટ તથા કિમાંબી શાખાને મંજુર કરવા નહીં


મહાન કમિશનર
સજકોટ મહાનગરપાલિકા

સ.મ.ન.પા./લીગલ/જા.નં. ૧૮૧/૮૪

રાજકોટ મહાનગરપાલિકા

લીગલ શાખા

તા.૧૮/૨/૨૦૧૭

કુઠ્ઠા:

વંશાણી : લીગલ ફાઇલ નં.૩૭૧/૨૦૧૬-૧૭

રાજકોટ મહાનગરપાલિકાની કામગીરી માટે જુદી-જુદી શાખાઓ દ્વારા કામગીરીના પ્રકારને સાથે લઈ નિયમ અનુસારની પ્રક્રિયા અનુસરીને એજન્સી/સપ્લાયર/કોન્ટ્રાક્ટર સાથે જોગવાઈઓ કરાવવામાં આવે છે. મહાનગરપાલિકાની કામગીરી સંદર્ભે તૈયાર કરવામાં આવતા ટેન્ડર/કારનામામાં લખતો વખતની જરૂરીયાતને ધ્યાને લઈ આર્બિટ્રેશન (Arbitration) ની જોગવાઈઓનો સમાવેશ કરવામાં આવેલ છે.

રાજકોટ મહાનગરપાલિકાની કામગીરી માટે કરવામાં આવેલ કારનામાની શરતો અનુસંધાને અમુક એજન્સી/સપ્લાયર/કોન્ટ્રાક્ટર દ્વારા છેલ્લા કેટલાક વર્ષોથી નામદાર હાલકોદે સમક્ષ આર્બિટ્રેટરશ્રીની નિયુક્તિ અંગે પીટીશનો કરવામાં આવે છે, જેના કારણે મહાનગરપાલિકાની કામગીરીના ભારણમાં વધારો થયેલ છે, અને સબંધિત અધિકારીશ્રીઓને વારંવાર અમદાવાદ ખાતે હાજર રહેવું પડતું હોય તેના કારણે અગત્યના પ્રોજેક્ટો સહીત કચેરીની કામગીરી તેમજ પ્રજાકીય કામો ઉપર વિપરીત અસર થવા પામેલ છે, તેમજ અરજદારોને હેરાન થવું પડે છે. આ અંગે કાયદાકીય, શાખાના અભિપ્રાય અને પ્રકરણની વિગતો જોતા આ કામે લેકલ્પેક ઉપાય (allernatio remedy) ઉપલબ્ધ હોય મહાનગરપાલિકાના ટેન્ડર/કારનામામાં આર્બિટ્રેશનની જોગવાઈઓને સામેલ કરવાનું ઉચિત જણાતું નથી.

આથી " રાજકોટ મહાનગરપાલિકાના કામે કરવામાં આવતા ટેન્ડર ડોક્યુમેન્ટ અને કારનામામાં આર્બિટ્રેશન (Arbitration) ને લગત જોગવાઈઓ દૂર કરવાનો," અને તેના બદલે "ટેન્ડરની શરત/કારનામાની શરતના અર્થઘટન સંદર્ભે મહાનગરપાલિકાના કમિશનરશ્રીનો નિર્ણય આપરી અને બંધનકર્તા રહેશે," અને "ટેન્ડરની/કારનામાની શરતો અંગે કોઇ પણ બાબતે વિવાદ ઉપસ્થિત થયે રાજકોટની દિવાની અદાલતની હકુમત રહેશે," તેવી શરતોનો મહાનગરપાલિકાના કામ અર્થે તૈયાર કરવામાં આવતા તમામ કામગીરીના પરિપત્રો/ટેન્ડર ડોક્યુમેન્ટ તેમજ કારનામામાં સમાવેશ કરવાનો આથી હુકમ કરવામાં આવે છે.

આ હુકમનો અગલ તાત્કાલિક અસરથી ચુસ્તપણે કરવો.

કમિશનર

રાજકોટ મહાનગરપાલિકા

2

નકલ રવાના જાણ અર્થે : નાયબ કમિશનરશ્રી (તમામ)

નકલ રવાના જરૂરી કાર્યવાહી અર્થે : તમામ શાખાધિકારીશ્રીઓ

રા.મ.ન.પા./લીગલ/જા.નં. 122)

રાજકોટ મહાનગરપાલિકા
લીગલ શાખા,
રાજકોટ.
તા. 25/06/2023

પરિપત્ર:

વિષય: ઇ.પી.એફ. તથા ઇ.એસ.આઇ.સી. બાબતેનો અભિપ્રાય.

સંદર્ભ: ૧) રા.મ.ન.પા./હિસાબી/જા.નં. ૧૨૦૯ તા. ૧૦/૮/૨૦૨૩

૨) રા.મ.ન.પા. ઇન્વર્ડ નં. ૮૧૨ તા. ૨૧/૦૮/૨૦૨૩

ઉપરોક્ત નિષ્પત્તિ તથા સંદર્ભે અન્વયે જણાવવાનું કે, સંદર્ભ - ૧ અન્વયેના પત્રથી હિસાબી શાખા દ્વારા ઇ.પી.એફ. તથા ઇ.એસ.આઇ.સી. લાગુ પાડવા બાબતેનો અભિપ્રાય માંગવામાં આવેલ હતો જે અનુસંધાને પેનલના એડવોકેટશ્રી તરફથી સંદર્ભ - ૨થી અભિપ્રાય આવેલ છે. સદરહું અભિપ્રાય રાજકોટ મહાનગરપાલિકાની તમામ શાખાને તથા શાખા હસ્તકના કોન્ટ્રાક્ટરોને લાગુ પડતો હોય જેથી સંબંધિત તમામ શાખાને સદરહું અભિપ્રાય વંચાણે લેવા સુચિત કરવામાં આવે છે.

આ ઉપરાંત આપની શાખાના કર્મચારી તથા કોન્ટ્રાક્ટરશ્રીઓની ઇ.એસ.આઇ.સી. અન્વયેની માહિતી આપવાની બાકી હોય તે તમામે દિન - ૦૨માં પેનલના એડવોકેટશ્રીને માહિતી પહોંચતી કરે અને તેની જાણ લીગલ શાખાને કરે અન્યથા તેમાંથી ઉત્પન્ન થતી તમામ જવાબદારી માટે વ્યક્તિગત રીતે જવાબદાર ઠેરવવામાં આવશે.

સદરહું પરિપત્રનો તાત્કાલિક અસરથી ચુસ્તપણે પાલન કરવું.

બિડાણ: સંદર્ભ અન્વયેના પત્રો

નકલ સવિનય રવાના:

- નાયબ કમિશનરશ્રી (વે. ઝોન, ઇ. ઝોન)
- તમામ શાખાશિકારીશ્રીઓ (અમલ સારું)

રાજકોટ મહાનગરપાલિકા

એડવોકેટ નિયામક

ઈન્વર્ડ નં. 2916

તારીખ 25/6/23

નાયબ કમિશનરશ્રી

રાજકોટ મહાનગરપાલિકા

મુખ્ય
ડેપુટી
મુખ્ય
મુખ્ય

Shraddha Associates

Corrosp. Add. :

502, Accurate Square, Tagore Road,

Nr. Atul Motors, Above Cycle Zone, Rajkot.

Ph. O. 2463380, 93767 68952 E-Mail : dodiaprag@yahoo.in

LABOUR LAW CONSULTANT



Prop. : Parag J. Dodi

(Advocate & Labour Law Advisor)

Address : 2-Nalanda Bungalow

6-Pragati Society, Raiya Road, Rajkot-

Ref.

Date :

-06-2023.

પ્રતિ,

લેબર ઓફીસરશ્રી,

રાજકોટ મહાનગરપાલીકા,

રાજકોટ.

વિષય :- ઈપીએફ તથા ઈએસઆઈસી લાગુ પડવા રામનપા/હીસાબી/જા.નં.૧૨૦૮ ખાબતે અભિપ્રાય.

રેફ. :- રા.મ.ન.પા./લીગલ/જા.નં. ૧૦૮૦, તારીખ ૧૦/૦૮/૨૦૨૩.

મે. સાહેબશ્રી,

સવિનય સાથે જણાવવાનું કે, ઉપરોક્ત વિષય અને રેફરન્સથી આપના તરફથી અભિપ્રાય માંગવામાં આવેલ. જેની સાથે મોકલેલ ફોર્મટ મુજબ વિગતવાર રીમાર્ક્સ આપેલ છે.

રાજકોટ મહાનગરપાલીકાનાં શાખા અધિકારીએ બીલ બનાવતી વખતે બીલ બનાવતી વખતે નીચે મુજબનાં ડોક્યુમેન્ટ્સ ચેક કરી બીલ સાથે સામેલ કરવા જરૂરી છે.

દર મહીને લેવાનાં ડોક્યુમેન્ટ.

૧. પગારપત્રક (જેમાં દરેક કર્મચારી તથા કોન્ટ્રાક્ટરની સહી/સિક્કો અને જે તે શાખા અધિકારીની સહી/સિક્કો)
૨. હાજરી પત્રક.
૩. પી. એફ. ચલણ.
૪. પી.એફ. ઈ.સી.આર.
૫. ઈ.એસ.આઈ.સી. પેઈડ ચલણ.
૬. ઈ.એસ.આઈ.સી. લાગુ ન પડતો હોય તેવા કર્મચારી (રૂ.૨૧૦૦૦/- થી વધુ પગારવાળા) ની WC પોલીસી.
૭. પી.ટી. નાં ચલણ. (જે કર્મચારીનો પગાર રૂ.૧૨૦૦૦/- કે તેથી વધુ થતો હોય તેનાં.)

વાર્ષિક લેવાનાં ડોક્યુમેન્ટ.

૧. જો ૫૦ કે તેથી વધુ માણસો કોન્ટ્રાક્ટરમાં કામ કરતા હોય તો લેબર લાઈસન્સ.
૨. લેબર વાર્ષિક પત્રક.
૩. બોનસ પત્રક.
૪. જે તે ડીપાર્ટમેન્ટને લાગુ પડતા સરકારશ્રીનાં લાયસન્સની નકલ (ફુડ , ઇલેક્ટ્રીસિટી વગેરે)

દરેક શાખા હસ્તકનાં કોન્ટ્રાક્ટર / એજન્સી ઉપરોક્ત સંદર્ભ અન્વયે પાલન કરાવવાની જવાબદારી મુખ્ય માલિક તરીકે જે તે શાખાનાં શાખા અધિકારીની ઠરાવી શકાય.

સહકારની અપેક્ષા સહ.

આપનો વિશ્વાસુ,

બિડાણ :- ઉપર મુજબ.

SHRADDHA ASSOCIATES


PROPRIETOR

લીગલ નંબર નં. 812
સરકારી નંબર નં. -
25/08/23

EPF તથા ESI લાગુ પડે છે કે કેમ ?

ક્રમ	વારંવાર ઉદભવતા પ્રશ્નો.	લાગુ પડે છે કે કેમ ?	
		EPF	ESI
1	કોમ્પ્યુટર ખરીદી કરી અને રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈન્સ્ટોલેશન કરવાનું થાય તો લાગુ પડે કે કેમ ?	ના	હા
2	રાજકોટ મહાનગરપાલીકાની જગ્યાનું સંચાલન કરતા કોન્ટ્રાક્ટર, વેન્ડર, ટ્રસ્ટ ને લાગુ પડે કે કેમ ? (જેમ કે સ્પોર્ટ્સ સંકુલ, ગાર્ડન, પાર્કીંગ વગેરેનું સંચાલન કોન્ટ્રાક્ટર, ટ્રસ્ટ સંસ્થા વગેરે ધ્વારા કરવામાં આવે)	હા	હા
3	રસ્તા કામ, ડ્રેનેજ કામ, પાણી વિતરણની કામગીરી સાથે સંકળાયેલા કોન્ટ્રાક્ટરોને લાગુ પડે કે કેમ ?	હા	હા
4	જનરલ બોર્ડનાં માઈક સંચાલનનાં કોન્ટ્રાક્ટમાં લાગુ પડે કે કેમ ?	હા	હા
5	રાજકોટ મહાનગરપાલીકાનાં ગ્રાઉન્ડ સંચાલન કરતા કોન્ટ્રાક્ટરોને લાગુ પડે કે કેમ ?	હા	હા
6	આઉટ સોર્સીંગ સ્ટાફનાં કીસ્સામાં વેન્ડરને લાગુ પડે કે કેમ ?	હા	હા
7	રાજકોટ મહાનગરપાલીકાનાં રેનબસેરાનું સંચાલન કરતા કોન્ટ્રાક્ટરોને લાગુ પડે કે કેમ ?	હા	હા
8	રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈવેન્ટમેનેજમેન્ટ કરવામાં આવે ત્યારે ઈવેન્ટમેનેજમેન્ટ કંપનીને તથા ગાયક / આર્ટીસ્ટ / મ્યુઝીશીયનને લાગુ પડે છે કે કેમ ?	ના	ના
9	મશીન / વાહન ફક્ત પાર્ટસ ખરીદીનાં કિસ્સામાં લાગુ પડે છે કે કેમ ?	ના	ના
10	મશીન / વાહન ફક્ત પાર્ટસ ખરીદી અને ફીટીંગ / રીપેરીંગ રાજકોટ મહાનગરપાલીકાની જગ્યામાં કરવામાં આવતું હોય તેવા કિસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
11	મશીન / વાહન ફક્ત પાર્ટસ ખરીદી અને ફીટીંગ / રીપેરીંગ રાજકોટ મહાનગરપાલીકાની જગ્યામાં કરવામાં આવતું હોય તેવા કિસ્સામાં લાગુ પડે છે કે કેમ ?	ના	ના
12	કોઈપણ ઈલેક્ટ્રીક વસ્તુની ખરીદી તથા તેનું ઈન્સ્ટોલેશન જેમ કે કેમેરા લાઈટ ફીટીંગ, કોમ્પ્યુટર, પ્રિન્ટર વગેરે કીસ્સામાં લાગુ પડે છે કે કેમ ?	ના	હા
13	મિત્ર મંડળ તથા સખી મંડળનાં કિસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
14	ઓપરેશન અને મેઈન્ટેનન્સ સર્વિસીઝ કોન્ટ્રાક્ટનાં કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
15	ટુર્સ / ટ્રાવેલ્સ ભાડે રાખવામાં આવેલ કાર્ડિયર સહીત તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
16	ઈલેક્ટ્રીક પોલ ફીટ કરવા શિફ્ટ કરવા અથવા નવા ઈન્સ્ટોલ કરવા વગેરે કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા



EPF તથા ESI લાગુ પડે છે કે કેમ ?

17	એર કુલર, એ.સી. , વોટર કુલર રીપેરીંગ વગેરે કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
18	રાજકોટ મહાનગરપાલીકાનાં કરાર આધારીત કર્મચારીનાં કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
19	રજીસ્ટ્રેશન સમયે કુલ પગાર ઈ.પી.એફ. / ઈ.એસ.આઈ.સી. નાં નિયમ મુજબનાં પગારમર્યાદા કરતા ઓછી હોય પરંતુ ત્યારબાદ પગાર ઈપીએફ, ઈએસઆઈસી નાં નિયમ મુજબ પગાર મર્યાદા કરતા વધી તો કયાં સુધી કપાત કરવી. (ફીક્સમાંથી કાયમીનાં કીસ્સામાં / ફીક્સ પગાર વધી જાય તેવા કીસ્સામાં)	હા	ના
20	ફીક્સ / કાયમી થાય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
21	વાલ્વ ઓપરેટર તથા પમ્પ ઓપરેટરનાં કીસ્સામાં લાગુ પડે છે કે કેમ?	હા	હા
22	લીગલ, પ્રોફેશનલ સર્વિસ રાજકોટ મહાનગરપાલીકાની જગ્યા પર આપવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
23	રાજકોટ મહાનગરપાલીકા ધ્વારા વિડીયોગ્રાફી / ફોટોગ્રાફી કરાવવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
24	રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઝેરોક્ષ મશીન ચલાવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	ના	ના
25	ન્યુઝ પેપર અથવા કોઈપણ વસ્તુ કે જેની ખરીદી કરી હોય અને જે રાજકોટ મહાનગરપાલીકાના પ્રીમાઈસીસ સુધી પહોંચાડવાની જવાબદારી વેન્ડરની હોય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	ના	ના
26	રાજકોટ શહેરમાં મોબાઈલ ડિસ્પેન્સરી ચલાવવા આપવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
27	ફક્ત એક વખત કામગીરી કરવાની હોય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	ના	ના
28	હોર્ડીંગ બોર્ડ ચડાવવા તથા ઉતારવાની કામગીરીનો એજન્સીને કોન્ટ્રાક્ટ આપેલ હોય તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
29	રાજકોટ મહાનગરપાલીકાની જગ્યામાં કાર્ટીઝ રીપેરીંગ તથા રીફીલીંગ તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા
30	કેટરીંગ સર્વિસ અથવા હોટલમાંથી ફુડ પાર્સલ તેમજ કુરીયર સર્વિસ રાજકોટ મહાનગરપાલીકાને ડીલીવરી કરવામાં આવે તેવા કીસ્સામાં લાગુ પડે છે કે કેમ ?	ના	ના
31	સોલાર પેનલ તથા રૂફ ટોપ સોલાર પેનલનાં રાજકોટ મહાનગરપાલીકાની જગ્યામાં ઈન્સ્ટોલેશન તથા મેઈન્ટેનન્સનાં કીસ્સામાં લાગુ પડે છે કે કેમ ?	હા	હા





રાજકોટ મહાનગરપાલિકા

સોલિડ વેસ્ટ મેનેજમેન્ટ શાખા

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હુકમ:

સંદર્ભ: રા.મ.ન.પા./સો.વે.મે./જા.નં ૮૬૬, તા. ૦૪-૦૬-૨૦૧૯

રાજકોટ મહાનગરપાલિકા વિસ્તારમાં વિકાસ કામો અને બાંધકામ પ્રવૃત્તિનો ખૂબ જ ઝડપથી વિકાસ થઈ રહેલ છે. જેના પરિણામે શહેરમાં કન્સ્ટ્રક્શન એન્ડ ડિમોલિશન વેસ્ટ પણ ખૂબ બહોળા પ્રમાણમાં ઉત્પન્ન થાય છે. આથી તેના કલેક્શન તથા યોગ્ય પદ્ધતિથી નિકાલની ખૂબ જ વિકટ સમસ્યા ઊભી થાય છે. કન્સ્ટ્રક્શન એન્ડ ડિમોલિશન (સી & ડી) વેસ્ટ રુલ્સ -2016 પ્રમાણે આ વેસ્ટનું કલેક્શન, સ્ટોરેજ તથા પ્રોસેસિંગ કરી યોગ્ય નિકાલ કરવો જરૂરી છે. જે અન્વયે આ અગાઉ ઉપરોક્ત સંદર્ભિત હુકમથી શહેરમાં ઉત્પન્ન થતા સી & ડી વેસ્ટના નિકાલ અન્વયેની માર્ગદર્શિકા નિયત કરવામાં આવેલ. જેની વધુ અસરકારકતા તથા કાર્યક્ષમતા સાથે પરિણામલક્ષી કામગીરી થઈ શકે તે માટે હવે પછીથી નીચે જણાવ્યા મુજબની વિગતે અમલવારી કરવા હુકમ કરવામાં આવે છે.

(૧) રાજકોટ મહાનગરપાલિકાની ટાઉન પ્લાનિંગ શાખા દ્વારા શહેરમાં આવેલ હયાત/જુના બાંધકામ ધરાવતી ઈમારતોને સ્થાને નવું બાંધકામ કરવા માટેની બાંધકામ પરવાનગી ઇસ્યુ કરતા પહેલા હાલની વ્યવસ્થા મુજબ જે ડિમોલિશન ચાર્જ લેવામાં આવે છે તેની સાથે શહેરમાં આવેલ આવી જૂની ઈમારતોનું બાંધકામ માલિક/કબજેદાર/ડેવલપર દ્વારા દૂર કરવાથી કેટલો સી & ડી વેસ્ટ ઉત્પન્ન (Generate) થશે તે બાંધકામ પરવાનગી અર્થે પ્લાન સહીતની વિગતો રજૂ કરનાર પરવાનેદાર એન્જિનિયરશ્રી/આર્કિટેક્ટશ્રી મારફત પ્રમાણિત કરાવી તેના જથ્થા મુજબ અને બાંધકામની પરવાનગીના પ્રકાર મુજબ આ ઉત્પન્ન થનાર સી & ડી વેસ્ટને નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે નિકાલ કરવા માટેની ડિપોઝિટની રકમ પેટે રૂપિયા ૫૦૦૦/- (અંકે રૂપિયા પાંચ હજાર પુરા) વસુલવાની રહેશે. આ પ્રકારના તમામ કિસ્સાઓમાં ડીપોઝિટની રકમ જમા થયા બાદ જ ટાઉન પ્લાનિંગ શાખા દ્વારા શરતી બાંધકામ પરવાનગી (Conditional Permission) આપવાની રહેશે, તથા સદરહુ શરતી બાંધકામ પરવાનગીમાં સંલગ્ન જૂની ઈમારતના સી & ડી વેસ્ટને ટ્રાન્સપોર્ટ કરી સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે મોકલી આપવામાં આવ્યાનું પ્રમાણિત થયા બાદ જ ટાઉન પ્લાનિંગ શાખા દ્વારા બાંધકામ પરવાનગી આપવામાં આવશે અને ત્યારબાદ જ અરજદારશ્રી દ્વારા નવું બાંધકામ શરૂ કરવાનું રહેશે તેવો ઉલ્લેખ કરવાનો રહેશે.

શરતી બાંધકામ પરવાનગી મેળવ્યા બાદ અરજદારશ્રી દ્વારા તેઓના જુના મકાન/ઈમારતના ડિમોલિશનને કારણે નીકળેલ સી & ડી વેસ્ટને રાજકોટ મહાનગરપાલિકાના નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ પર મોકલવાની વ્યવસ્થા કરી નિકાલ કરવાનો રહેશે, તથા સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતેથી આ અંગેની પહોંચ (રીસીપ્ટ)/પ્રમાણપત્ર મેળવી લેવાનું રહેશે.

સી. & ડી. વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે શહેરમાંથી સી & ડી વેસ્ટના નિકાલ અર્થે આવેલ મટીરીયલ અંગેનું રજીસ્ટર નિભાવવાનું રહેશે, તથા પ્લાન્ટ ખાતે સી & ડી વેસ્ટ લઈને આવેલ તમામ વાહન તથા તેના સી & ડી વેસ્ટના જથ્થાની નોંધ ઓનલાઈન નિયત એપ્લિકેશનમાં કરવાની રહેશે. પ્લાન્ટ ખાતે મેળવવામાં આવેલ સી & ડી વેસ્ટ મટીરીયલની પહોંચ (રીસીપ્ટ)/પ્રમાણપત્ર આપવા અંગેની જરૂરી તમામ વ્યવસ્થા સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટની એજન્સી દ્વારા કરવાની રહેશે.

ટાઉન પ્લાનિંગ શાખા દ્વારા ઉપરોક્ત જણાવ્યા મુજબ જુના બાંધકામ/ઈમારતના ડિમોલિશનને કારણે ઉત્પન્ન થયેલ સી & ડી વેસ્ટને અરજદારશ્રી દ્વારા નાકરાવાડી ખાતેના સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે



મોકલ્યાની ખરાઈ (Confirmation) કર્યા બાદ જ અરજદારશ્રી દ્વારા જમા કરવામાં આવેલ ડીપોઝીટની રકમ રૂ.૫૦૦૦/- (અંકે રૂપિયા પાંચ હજાર પુરા) પરત કરી બાંધકામ પરવાનગી ઇસ્યુ કરવાની રહેશે.

- (૨) ટાઉન પ્લાનિંગ શાખા દ્વારા કન્સ્ટ્રક્શન એન્ડ ડીમોલિશન વેસ્ટ રૂલ્સ ૨૦૧૬ ની માર્ગદર્શિકા મુજબ શહેરમાં જૂનો ઇમલો દૂર કરનાર એજન્સીઓ - કોન્ટ્રાક્ટરો દ્વારા સી & ડી વેસ્ટનું કલેક્શન તથા તેનું જરૂરી સેગ્રીગેશન કરી રાજકોટ મહાનગરપાલિકાના નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે નિકાલ કરવાનું ફરજિયાત હોવાની બાબતની સમજ આપી તેઓનું રજીસ્ટ્રેશન કરાવી રાજકોટ મહાનગરપાલિકાની વેબસાઇટ પર શહેરમાં ઇમલો દૂર કરવાની કામગીરી કરતી આવી તમામ એજન્સીઓ - કોન્ટ્રાક્ટરોની યાદી મૂકવાની રહેશે.
- (૩) સોલિડ વેસ્ટ મેનેજમેન્ટ વિભાગ દ્વારા હાલ રાજકોટ મહાનગરપાલિકાના ત્રણેય ઝોનના જુદા જુદા વોર્ડ - વિસ્તારના પ્લોટ તથા રસ્તાઓની સાઈડમાં પડેલ સી & ડી વેસ્ટને કલેક્ટ કરી નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટની જરૂરીયાત મુજબ પ્લાન્ટ ખાતે પહોંચાડવા (Transportation) ની વ્યવસ્થા કરવાની રહેશે, તથા શહેરના જાહેર રસ્તાઓ કે રાજકોટ મહાનગરપાલિકાના પ્લોટ પર અનઅધિકૃત રીતે સી & ડી વેસ્ટ ડમ્પિંગ ન થાય તે અંગેની તકેદારી રાખવા માટેની જરૂરી વ્યવસ્થા ઉભી કરવાની રહેશે.
- (૪) રાજકોટ મહાનગરપાલિકાની તમામ તાંત્રિક શાખા દ્વારા તેમના કાર્યક્ષેત્ર હેઠળ સિવિલ કામ કરતી તમામ એજન્સીઓ (ઝોનલ તથા ટેન્ડર કામ) ને સોંપવામાં આવેલ સિવિલ કામગીરી અંતર્ગત ઉત્પન્ન થનાર સી & ડી વેસ્ટના સંપૂર્ણ જથ્થાનો નિકાલ રાજકોટ મહાનગરપાલિકાની નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે કરાવવાનો રહેશે.
- આ માટે ઉત્પન્ન થયેલ સી & ડી વેસ્ટના જથ્થાને સંલગ્ન તાંત્રિક કામગીરી સંભાળતા એ.એ.ઈ.શ્રી તથા એ.ઈ.શ્રી દ્વારા તેમના નાયબ કાર્યપાલક ઇજનેરશ્રી મારફતે પ્રમાણિત કરાવી તે સી & ડી વેસ્ટના જથ્થાને સિવિલ કામની સંલગ્ન એજન્સી દ્વારા ટ્રાન્સપોર્ટેશનની વ્યવસ્થા કરી શહેરમાં અન્ય કોઈપણ જગ્યાએ નિકાલ ન કરી માત્ર નાકરાવાડી ખાતે આવેલ સી & ડી વેસ્ટ પ્રોસેસિંગ પ્લાન્ટ ખાતે જ જમા કરાવવાનો રહેશે, તથા પ્લાન્ટ ખાતેથી તે અંગેની પહોંચ (રીસીપ્ટ)/પ્રમાણપત્ર મેળવવાનું રહેશે. જે પહોંચ (રીસીપ્ટ)/પ્રમાણપત્ર સંલગ્ન તાંત્રિક શાખામાં રજુ થયા બાદ તેને સંલગ્ન તાંત્રિક સ્ટાફ દ્વારા ચકાસણી કર્યા બાદ જ સંલગ્ન નાયબ કાર્યપાલક ઇજનેરશ્રી દ્વારા એજન્સીએ કરેલ કામની રકમનું ચૂકવણું કરવા માટેની બીલ અંગેની કાર્યવાહી હાથ ધરવાની રહેશે.
- (૫) રાજકોટ શહેરમાં ઉત્પન્ન થનાર સી & ડી વેસ્ટનો મહત્તમ રીયુઝ તથા રિસાયકલ થાય તે માટે કઈ કઈ બાંધકામ ઉપયોગી વસ્તુઓ (મટીરીયલ) બનાવી શકાય તથા તે તમામ મટીરીયલનો રાજકોટ મહાનગરપાલિકાના વિવિધ તાંત્રિક કામોમાં ઉપયોગ થાય તેવા મટીરીયલનો રાજકોટ મહાનગરપાલિકાના શેડ્યુલ ઓફ રેઈટસ (S.O.R.) માં સમાવેશ કરવા તથા રાજકોટ મહાનગરપાલિકાના વિવિધ સિવિલ કામમાં તેનો ઉપયોગ થાય તે સુનિશ્ચિત કરવા માટેની જરૂરી કાર્યવાહી હાથ ધરવાની રહેશે.

ઉપરોક્ત વિગતે સોંપવામાં આવેલ કામગીરીનો રિપોર્ટ નાયબ કમિશનરશ્રી (ઈસ્ટ ઝોન)ને કરવો. સદરહુ હુકમનો અમલ તાત્કાલિક અસરથી ચુસ્તપણે કરવાનો રહેશે.


કમિશનર

રાજકોટ મહાનગરપાલિકા