

BHAVNAGAR MUNICIPAL CORPORATION		
Notice Inviting On -Line Tender(Short Term)		
Tendar Notice No.- BMC/FIRE/1/2024-25/ 2nd Attempt		
Department Name	:-	Building Department
IFB No.	:-	BMC/FIRE/1/2024-25/ 2nd Attempt
Name of Project	:-	SJMMSVY GRANT/ Maintanance Fund BMC
Name of Work	:-	Providing fire safety facility at Various MUNICIPAL Buildings of Bhavnagar Municipal Corporation
Estimated Contract Value (INR)	:-	Rs. 1,23,71,136.00 With GST
Class of Registration required	:-	Class "C" and ABOVE
Period of Completion (in month)	:-	12 Months
Bid Call (Nos)	:-	Open (Percentage Rate Tender)
Tender Currency Type	:-	Single
Tender Currency Settings	:-	Indian Rupee (INR)
Joint Venture	:-	Applicable
Rebate	:-	N.A.
Amount Details		
Bid Document Fee	:-	Rs. 3600 /- (Rs. Three thousand and six hundreds only)
Bid Document Fee Payable To	:-	Commissioner, Municipal Corporation, Bhavnagar
Bid Security / EMD (INR)	:-	Rs. 125000.00 /- (Rs.One lakh twenty five thousand Only)
Bid Security / EMD in favour of	:-	Commissioner, Municipal Corporation, Bhavnagar
Defect liability period	:-	Three year
EPF registration no.	:-	The bidder shall have to submit valid certificate of registration for having EPF number.
Security deposit	:-	The bidder shall have to pay 10% security deposit at the time of agreement, out of which 5% shall be in the form of Bank Guarantee of schedule bank, 2.5 % in the form of FDR (except SBI) addressed to The Commissioner, Bhavnagar Municipal Corporation, and remaining 2.5% shall be deducted from every running bill as retention money. The retention money so deducted will be refunded along with the final bill upon the successful completion of project and submission of certificate of EIC. The 7.5% SD will be converted in the performance security and shall be released at the end of defect liability period and on production of certificate of EIC. The BG and FDR should having validity up to defect liability period plus 3 months, it will acceptable except SBI.
Tender Dates		
SHORT TERM		
Bid Document Downloading Start Date	:-	10-10-2024
Bid Document Downloading End Date	:-	17-10-2024
Pre Bid Meeting	:-	N.A.
Last Date & Time of Receipt of Bid (Submission Of Bid)	:-	22-10-2024, 18:00 PM
Bid Validity Period	:-	120 Days
Remarks	:-	CLASS OF REGISTRATION REQUIRED FOR BIDDER MUST BE "C" AND ABOVE. Demand Draft only for tender FEE and EMD shall be submitted in Electronic Formate through online scanning along with all the supporting documents such as Registration, Bank Solvency Certificate etc. while uploading the bid. Offer of those will be opened whose EMD & Tender fee is received electronically alongwith the bids. however for the purpose of realization of Demand Draft, bidder shall send them in original alongwith all the required documents mentioned in the tender documents through RPAD/Speed post/Reg AD so as they reach to the office of The Executive Engineer,Building Department, Sir Mangalsinhji road, Municipal Corporation, Bhavnagar during office hours between 18 10-2024 to 22-10-2024 17:00 pm. Penaltative action shall initiated for not submitting the supporting documents in original to The Executive Engineer, Building Department by bidder. Hard copy of Price bid will not be accepted and considered. Successfull Bids (Preliminary & Technical Bid), if possible will be opened on the 22-10-2024, 17:30 pm at the Office of City Engineer, BMC
Bid Opening Date	:-	22-10-2024- 17:30 PM if possible.
Other Details		
Officer Inviting Bids	:-	Executive Engineer, Building Department,Municipal Corporation,Bhavnagar
Bid Opening Authority Members in committee	:-	(1) Executive Engineer, Building Department, BMC(2) Officer on Special Duty, Technical (Office of City Engineer) (3) Chief Accountant (4) Chief Auditor

Address	:- Office of the Executive Engineer, Building Department, Bhavnagar. Mobile no. 8128207404 / 9724513409
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E-tendering relate instructions

- (1) Bidders can download the tender document free of cost from the website www.tender.nprocure.com
- (2) Bidders have to submit Technical bid as well as Price bid in Electronic for only on www.tender.nprocure.com website till the Last Date & time for submission.
- (3) Offers in physical form will not be accepted in any case.
- (4) Free vendor training camp will be organized every Saturday between 4.00 to 5.00 p.m. at (n)code solutions - A Division of GNFC Ltd., Bidders are requested to take benefit of the same.

All bids should be digitally signed, for details regarding digital signature certificate related training involved, kindly, contact the below mentioned address.

Any other bid submission related issue the bidder may contact to below mentioned office

(n) Code Solutions A Division of GNFC Ltd.

403, GNFC Infotower, Bodakdev,

Ahmedabad - 380 054 (India)

Tel. +91 79 26854511/12/13 (EXT :501,512,516,525) +91 79 26857316/17/18 (EXT :501,512,516,525)

Fax. +91 79 26857321, 40007533

E-mail : nprocure@gnvc.net

Web-site : www.nprocure.com

Toll Free : 1800-233-1010 (EXT :501,512,516,525)

Bhavnagar Municipal Corporation



FORM B-2

PERCENTAGE RATE TENDER FOR FIRE SYSTEM INSTALATION WORKS

Name of Work: -

Providing fire safety facility at Various MUNICIPAL Buildings of Bhavnagar Municipal Corporation

Division: – Building Department, Bhavnagar Municipal Corporation, Bhavnagar.

MILESTONE DATES	
Bid Document Downloading Start Date	10-10-2024
Bid Document Downloading End Date	17-10-2024 18:00 PM
Last Date & Time of Receipt of Bid (Submission of online Bid)	17-10-2024, 18:00 PM
Last Date & Time of Receipt of Physical documents	22-10-2024, 17:00 PM

EXECUTIVE ENGINEER
Building Department,
Bhavnagar Municipal Corporation,
Bhavnagar

MEMORANDUM OF WORKS IN BRIEF

BHAVNAGAR MUNICIPAL CORPORATION		
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BUILDING DEPARTMENT BHAVNAGAR MUNICIPAL CORPORATION

PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS

ADDITIONAL INSTRUCTIONS TO PERSONS TENDERING

1 Competency of Tender – No contract will be awarded except to responsible bidders capable of performing the class of works contemplated. Before the award of the contract, any bidder may be required to show that he has the necessary facilities, experience, ability and financial capacity required to furnish the department with the statement as to their experience and their financial status.

2. Tenderer will be deemed to have inspected the site and to have satisfied as to the nature of all works, all existing roads, water-way and other means of communication and access to and from the site and work and the building that may be required for temporary purpose in connection with the construction, completion and maintenance of the works and must make his own inquiries as to work, yard sites and depot, and dumps and as to acquisition of such additional sites and areas as may be necessary for temporary purpose for constructing, completing and maintaining the works.

2.1 The tenders shall be received only “**Through ON LINE e-tendering**”. No other system namely receiving of tenders by Hand Delivery ‘or’ by Express Delivery ‘or’ in person shall not be accepted under any circumstances. **However, the physical submission shall be made as per NIT.**

I: Late tenders (i.e., tender received after the specified time of opening), delayed tenders (i.e., tenders received before the time of opening but after due date and time of receipt of tenders) and post tenders offers shall not be opened and considered at all.

II: The tenders received after time & the date specified in the tender notice shall not be received by the concerned office,

III: ~~Necessary records should be maintained for refusal of such tenders in the registers for receiving tenders and should be initialed by the concerned Chief Fire Officer.~~

3 Payment – The tenderer must understand clearly that the rates quoted are for completed works and include all costs due to labor, scaffolding plant, supervision, service works, power, royalties and octroi etc., and to include all extras to cover the cost of night work if and when required and no claim for additional payment beyond the price/rates quoted will be entertained and the tenderer will not be entitled subsequently to make any claim on the ground of misrepresentation or on the ground that he was supplied with information given by any person (whether the member is the employee of Bhavnagar Municipal Corporation or not). Any failure on his part to obtain all necessary information for the purpose of making his tender and filling the several prices and rates therein shall not relieve him from any risks or liabilities arising out of or consequent upon the submission of the tender.

4 Tender Forms – Every ‘blank’ in the form of the tender and in the schedule must be filled up by the tenderer through online.

5 Bidder can prepare and edit their offers number of times before tender submission. After tender submission bidder cannot edit their submitted offer in any case. No written or online request in this regard shall be granted.

Contractor to please read this Carefully:

1. The rate in Schedule ‘B’ must be given only in figures.

2. If the tender is taken in favor of the company, a power of attorney in favor of the person who may have signed the tender for the company must accompany the tender.

3. Solvency certificate of a Bank of an amount up to **20%** of the tendered cost plus the amount of works on hand still to be executed will have to be produced by the contractor.

4. Details of EMD: **-As per NIT**

~~(i.e., 1% of estimated cost) must be put in format given in tender form. Tenderer may pay earnest money up to Rs.50,000 in the form of Crossed Demand Draft or fixed deposit of fixed deposit at call receipts with a validity period of not less than six months of Nationalized or Scheduled or Bank having 5 year standing drawn in favor of commissioner municipal corporation, BMC/ Divisional Officer concerned. Earnest money by cheque & Bank Guarantee shall not be accepted. vide R & B DG.R. No. TNC/ 1090/ (100) (4)-C dated 4-11-2000) However in respect of the works estimated to cost above Rs.50 lacs, the amount of earnest money in excess of Rs.50,000 can be offered by the contractor, at his choice, in the form of Bank Guarantee of the Scheduled Bank or~~

Nationalized Bank only. Theban Guarantee in such cases will be furnished in the following form. In such cases also, the amount of earnest money first Rs.50,000 will paid only in the form of crossed demand drafts or fixed deposit receipt or deposit at call receipts worth the validity period of not less than 6 months of the nationalized or Scheduled having five years standing.

The Contractors who have secured exemption certificate for payment of earnest money by depositing Lump Sum earnest money Deposit need not to pay earnest money, but they should enter the detail of exemption certificate in online. If the contractor does not turn up to pay the Security Deposit and execute contract agreement within specified (or extended) time after intimation to him about acceptance of this offer, the earnest money paid for this work will be forfeited and according to clause 1 of this tender form tender stander shall be rejected and then according to aforesaid provision of tender, action to blacklist the contractor will be initiated without Delay.

BANK GUARANTEE (NOT APPLICABLE)

Whereas M/s. (hereinafter called the Tenderer) is desirous and preferred to tender for works in accordance with the terms and conditions of tender for the work of and where as We, Bank agree to give the tenderer a guarantee for **the Earnest Money**.

1. Therefore, we hereby affirm that we are guarantors on behalf of the Tenderer up to total rupees..... (in words) Rs..... (in figures) and we undertake to pay to Commissioner, Bhavnagar Municipal Corporation, Upton his first written demand, without demur, without delay and without the necessity of a previous notice of judicial or administrative procedures and without the necessity to prove to the Bank the defects or shortcomings or debits of the contractor any sum within the limit of Rs.....
2. We further agree that the Guarantee herein contained, shall remain in full force and effect during the period that would be taken for the acceptance of tender. However, unless a demand of claim under this guarantee is made on us writing on or before the (Date to be specified – will not be less than 180 days from the date of opening the tender) we shall be discharged form all liabilities under the guarantee thereafter.
3. We undertake not to revoke the guarantee during it currency except with the previous consent of the Commissioner, Bhavnagar Municipal Corporation, Bhavnagar in writing
4. We lastly undertake not to revoke the guarantee for any change in constitution of the Tendered or of the ink.

Date

Signature & Seal of Guarantor
Bank Address

5. The contractor shall have to furnish PAN & intimate I.T. ward under which he is assessed or latest copy of audited balance sheet.

6. Copies of certificate as regards previous experience, if any, must accompany the tender.

7. Declaration showing all works on hand with the Contractor and the value of works that remains tube executed in each case must accompany the tender.

8. All pages of Schedule 'A' and 'B' and specifications should be initialed by the Contractor.

9. All corrections, erasures and overwriting should be initialed by the Contractor.

10. Discrepancies and adjustment of Errors:

Any error in quantity or amount in Schedule 'B' showing items of works to be carried out shall be adjusted in accordance with the following rules.

a) In the event of a discrepancy between description in words and figures quoted by a tenderer in the rates column, the description in words shall prevail.

b) In the event of an error occurring I the 'amount' column of the Schedule 'B' showing items of work, as a result of wrong multiplication of the unit rate and quantity; the unit rate shall be regarded as firm and multiplication shall be amended on the basis of the rate.

c) All errors in totaling in 'amount' column in carrying forward totals shall be corrected.

d) Any rounding of amount against 'items' or in 'totals' shall be ignored.

The tendered sum so altered shall for the purpose of the tender be substituted for the sum originally tendered and considered for acceptance.

10.I) It may please be noted that the tender will be considered as invalid, especially, if the requirements as per instruction No.1 to 7 above are not complied with before submitting the tender. Also please read carefully the face sheet and 'General Rules and Directions for the guidance of contractors of this form.

10.II) Right is reserved by the commissioner Bhavnagar Municipal Corporation to reject any or all tender(s) without assigning any reason (s) therefore.

10.A Tender documents shall have to be filled in.

11. In addition to the above, the tender will also be liable to be rejected outright if.

I) The tenderer proposes any alteration in the work specified or in the time allowed for carrying out the work or any condition or correction made in any code or mode or Schedule 'B' or specifications.

~~ii) Any of the page of the tender is/are removed or replaced.~~

~~iii) All corrections, additions or pasted slips are not initiated by the tenderer.~~

~~iv) Any erasure is made by him in the tender and.~~

v) The tenderer or in the case of a firm, each partner or the person holding the power of attorney thereof shall sign or signature is /are not attested by a witness on page, 15 of the tenders in the space provided for the purpose.

2. A certificate to registration as approved contractor should be attached with tender.

DECLARATION FORM

Name of Work: - Providing fire safety facility at different MUNICIPAL Buildings of Bhavnagar Municipal Corporation

- (I) I/We hereby declare that I/We have visited the site and fully acquainted myself/ ourselves with the local situations regarding materials, labor and other factors pertaining to the work before submitting this tender.
- (II) I/We hereby declare that I/We have carefully studied the conditions of contract, specifications other documents of this work and agree for execute the same accordingly.

Sign and Seal of Contractor

DECLARATION CERTIFICATE

(G.R. date 4-2-89 as revised by GR. No.TNC- 1083/6681/4/C, dated 31-8-1994)

(iv) I/We hereby declare that my/our near relative are not working in this Division or in its sub-division as an Deputy EXECUTIVE ENGINEER Station fire officer, Additional Station fire officer, overseer, Divisional Accountant, Store, Keeper, Manager or as a Chief Fire Officer in addition for Municipal works not working nor having posting as chairman of P.W. committee or as incumbent in Bhavnagar Municipal Corporation at today.

Sign and Seal of Contractor

General Rules and Directions for the Guidance of Contractors

1. All works proposed to be executed by the contractor shall be notified in a form of invitation to tender pasted on a board hung up in the office of the EXECUTIVE ENGINEER Building Department, Bhavnagar Municipal Corporation, Bhavnagar.

This form will state work to be carried out as well as the date of submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender and the amount of the security deposit to be paid by the successful tenderer and percentage, if any, to be deducted from bill, it will also state whether a refund of quarry fees, royalties, octroi dues and ground rents will be granted. Copies of the specifications, designs and drawing and estimated rates, and any other documents, required in connection with work which shall be signed by the EXECUTIVE ENGINEER Building Department, Bhavnagar Municipal Corporation, Bhavnagar for the purpose of identification shall also be open for inspection by Contractor at the office of EXECUTIVE ENGINEER Building Department, Bhavnagar Municipal Corporation, Bhavnagar. The same for the purpose of identification shall also be open for inspection by Contractor at the office of the EXECUTIVE ENGINEER Building department BMC during office hours.

Where the works are proposed to be executed according to the specifications recommended by a contractor and approved by a competent authority on behalf of the BMC, such specifications with designs and drawing shall form part of the accepted tender.

2. In the event of tender being submitted by a firm. It must be signed separated by each partner thereof or in event of the absence of any partner it shall be signed on his behalf by person holding power of attorney authorizing him to do so. Details of partner will be furnished in Annexure-I along with the copy of partnership.

3. Receipts for payment made on account of any work, when executed by a firm, shall also be signed by all the partners except where the Contractors are described in their tender as a firm in which case the receipts shall be signed in the name of the firm by one of the partners or by some other person having authority to give effectual receipts for the firm.

4. Any person who submits a tender shall fill up the usual printed form including the column total according to estimated quantities stating at what rate he is willing to undertake each item of the work (Not applicable). Tenderer which proposes any alteration in the works specified in the said form of invitation to tender or in the time allowed for carrying out the work or which contain any other condition of any sort, will be liable to rejection. No single tender shall include more than one work but contractors who wish to tender for two or more works shall submit a separate tender for each. Tender shall have the name and the number of the work (to which they refer) written outside the envelope.

OR

The following rule shall apply to the works having estimated cost of Rs.100 lacs (Rupees One Hundred lacs) and above. (G.R., R & B D No. TNC- 1777- 281C, dated 30-7-1992)

(a) It is not desirable to make any alteration in the works specified in the said tender form of invitation to tender or in the time allowed for carrying out the work or any other conditions of any sort. However, if it is felt necessary by the tenderer to have any conditions, he shall have to submit a sealed cover containing two separate covers for 'technical bid' and 'price-bid' duly super scribed on the sealed cover. No such tender's shall include more than one work but contractors who wish to tender for two or more works shall submit a separate tender for each. Tender shall have the type of bid and the name of the work (to which they refer) written. Outside envelopes as under:

(I) Technical bid for the work of.....

(ii) Price bid for the work of

(b) If any price-bid contains any conditions the same shall have to be rejected outright. Document of payment of earnest money or exemption certificate should accompany the technical bid cover.

(c) The tenders i.e., Price-bids and technical bids in separate should be submitted simultaneously by the 'Online through E-Tendering Only'. The 'Technical and Price' bids shall contain adequate cross reference wherever necessary to ensure clear and proper correlation of them with two bids without any ambiguity whatsoever.

(d) The bidders shall clearly indicate deviation (s) from specifications or the tender conditions very explicitly in the appropriate section and submit a copy of the same with the technical bid. It should be very clearly understood by all tenderer that the technical bid should be restricted only to technical matters and stipulations of conditions, by all tenderer that the technical bid should be restricted only to technical matters and stipulations of conditions, if any by tender having financial implications. The price of main tender should not be disclosed in the technical bid.

(e) The Technical bid will be opened on As per NIT in the presence of those bidders authorize representatives who choose to remain present. For opening of price bid the schedule will be intimated later.

~~(f) The conditions specified in technical bid should invariably be accompanied by proper financial evaluation with mode of calculation specifying assumptions, quantities, rate and ceiling amounts for each condition and shall also accompany the information in the form stating (a) Serono. (b) Description of the condition (c) Financial evaluation, (d) Ceiling amount to be added in price bid, in case condition is not accepted.~~

~~(g) Ceiling amounts shall be binding on the contractors and are liable to be added to the tender amount.~~

~~(h) It is necessary that the contractor or his authorized representative remains present at the time of opening of technical bid as specified in (e) above, so that wanting details and clarifications in respect of conditions can be furnished by him or conditions withdrawn on the spot by him. If the technical bid is incomplete in respect of any of the details referred to in sub-clauses 2(f) above and the contractor does not furnish the wanting details as required above on the spot in the presence of other bidders after opening the technical bid, the tender would be liable to rejection.~~

~~(i) The evaluation as given by the contractor as modified by tender opening authority with the ceiling limit will then be intimated to all the bidders who remain present and then, if convenient, the price bid shall be opened on the same day and the combined evaluation of the tender of precipitant the technical bid would be worked out. Not further opportunity shall be given to the contractors to modify/ withdraw conditions at that stage as the price bid would be known to allot. however, reserves the right to negotiate about the tender(s) further with any or all the contractors. In case the Price bids cannot be opened on the same day then another date will be intimated to the tenderer as in para (e) above.~~

5. At the time of opening tender the bidder or his authorized representative who have submitted his bid can only be permitted to remain present. If bidder or his representative is absent than the bid will be opened by the concerned officer. During this time other contractor or his representative who have not filed his bid will not be permitted to remain present. The concern officer will open the bid and note the details in the comparative statement. The bidder who is third lowest will be recommended for the refund of earnest money.

6. The officer competent to dispose of the tenders shall have the right of rejecting all or any of the tenders.

7. No receipt for any payment alleged to have been made by a Contractor in regard to any matter relating to this tender or the contract shall be valid and binding on Government unless it is signed by the EXECUTIVE ENGINEER Building Department, Bhavnagar Municipal Corporation, Bhavnagar.

~~8. The memorandum of the work to be tendered for and the schedule of materials to be supplied by Public Works Department and their rates shall be filled in and completed by the office of the EXECUTIVE ENGINEER Fire and Emergency. Bickerer the tender form is up loaded.~~

9. All works shall be measured net by standard measure and according to the rules and customs of the public works department without reference to any local custom.

10. Under no circumstances shall any Contractor be entitled to claim enhanced rate for any items in this contract.

11. Every contract shall, ~~unless exempted in writing by the Chief Fire Officer concerned,~~ produce along with this tender a solvency certificate of his financial ability from the Collector of the district within which he resides or a Banker's certificate. If he fails to produce such a certificate his tender will not be considered.

12. All corrections and additions or pasted slips should be initialed.

13. The measurements of work will be taken according to the usual method in use in the Public Works Department or as specified in technical specification and no proposals to adopt alternative methods will be accepted. The decision of the EXECUTIVE ENGINEER BMC as to what is the usual method in use in the Public Works Department will be final.

13-A The Insurance Company's bond will not be accepted against the security deposit.

14. The contractor shall have to attach to his tender Income-Tax Clearance Certificate to be obtained from the Income-Tax Officer.

15. The Contractor will have to construct a shed for storing controlled and valuable materials issued to him under schedule 'A' of the agreement at work-site having double locking arrangement. The materials will then be taken for use in the presence of the Department person. No materials will be allowed to be removed from the site of work.

16. No foreign exchange will be released by the Department for the purpose of plant and machinery required for the execution of the work contracted for.

17. Controlled materials (Essentiality Certificate)

- (I) As regard-controlled materials, the Bhavnagar Municipal Corporation will help to arrange for the permit as far as possible and help the Contractor in securing the same. All incidental charges met with in procuring these materials shall be borne by the Contractor himself. Though the Bhavnagar Municipal Corporation will help to arrange for the permit as far as possible and help the Contractor in obtaining the materials, it shall not accept any responsibility for any loss on account of delay caused to the Contractor while obtaining the same.
- (II) (ii)The contractor shall submit to the EXECUTIVE ENGINEER Building Department, Bhavnagar Municipal Corporation, Bhavnagar on close of every calendar month the monthly returns in the prescribed forms as to the receipts and actual use of the controlled materials during the month.
- (III) (iii) The contractor shall permit EXECUTIVE ENGINEER Building Department, Bhavnagar Municipal Corporation, Bhavnagar or his representative to inspect the stock of the controlled materials stored by him at any time whenever so desire (s).

18. The tender for the work shall remain open for period (120*) days from the last date of online submission of tender for this work and that the tenderer shall not be allowed to withdraw or modify the offer on his own after downloading of price bid. If any tenderer withdraws or make any modifications or additions in the terms and conditions of his tender not acceptable to the Government (Bhavnagar Municipal Corporation) then the Bhavnagar Municipal Corporation shall without prejudice to any right remedy Be at liberty to forfeit in full they said earnest money absolutely, in this connection G.R. R & BD NO. TNC – IIB– 22 (10) – C, dated 24-5-90 should be referred to.

19. The contractor shall employ only such laborer who shall produce a valid certificate of having been Vaccinated against small pox within a period of last three years.

20. Immediately after issue of the work order for the works of Roads, Bridges and Buildings, the contractor shall display the board in prescribed format showing brief details of the specifications on the site of work (R & B D GR NO. TNC-1090- 24-C, dated 18-11-1991.)

21. In the agreement the "Bank" means "Scheduled" or "Nationalized bank".

21. The buildings under the contract will not be occupied by the contractor for use of his laborer's, staff or for any other purpose, in case of breach of this condition market rent will be recovered for the area unauthorized occupied.

TENDER FOR WORK

I/ We hereby tender for the execution for the Bhavnagar Municipal Corporation of Gujarat (hereinbefore and hereinafter referred to as Bhavnagar Municipal Corporation) of the work specified in the underwritten memorandum within the time specified in such memorandum at the tendered rates specified in Schedule 'B' (memorandum showing item of works to be carried out) and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in this tender and in Clause 13 of the annexed conditions of contract ~~and agree that when materials for the work are provided by Government, such materials and the rates to be paid for them shall be as provided in schedule 'A' hereto.~~

* Strike out whichever is not applicable
+ In figures as well as words`

MEMORANDUM – યાદી

AS PER NIT

(f) Time allowed for the completion of work from date of written order to commence 18 Months. Give Schedule where necessary, showing dates by which, the various items are to be completed:

(g) Should this tender be accepted, I /We hereby agree to abide by fulfil all the terms and provisions of the conditions of the contract annexed here to so far as applicable and in default thereof to forfeit and pay to Government in Office the sums of money mentioned in the said conditions.

**Signature and seal
of Contractor**

TERMS & CONDITIONS OF CONTRACT

CLAUSE 1: Security Deposit:

The person/persons whose tender is accepted (hereinafter called the “Contractor” which expression shall, unless excluded by, or repugnant to the context include his Legal heirs, executors, administrators and assigns) shall (a) Deposit with the EXECUTIVE ENGINEER Building Department, BMC a sum sufficient to make up the full security deposit in the form as specified in the tender in the name of the Commissioner, Bhavnagar Municipal Corporation, Bhavnagar within a period of 10 days from the date of receipt of the Notification of his tender. This security deposited will be converted in performance security at the end of completion of work and will be refunded at the end of defect liability period as per clause 17 and 17-A after deducting there from the amount of expenses, if any, due to Bhavnagar Municipal Corporation under this contract. (See Performance bond on page no. 44) (As per NIT)

CLAUSE 2: Liquidated damages for delay: -

(I) If the Contractor fails to complete the work under contract by the stipulated date, he shall pay liquidated damages of at the rate of 0.1 percentage of the contract value per day from the date of delaying the said work up to the date of completion and handing over to the Government.

(ii) The aggregate maximum of liquidated damages payable under clause No.2 Shall not exceed 0.10 Percentage of contract value per day and shall be subject to the maximum amount of ten percent of the estimated amount put to tender.

(iv) Delays requiring payment of ten percentage liquidated damages of the amount put to tender for performance shall be sufficient causes for termination of contract and for forfeiture of security deposit including amount of performance bond in respect of works estimated to cost more than Rs.15 lacs, for. Performance and registration of the contractor shall also be kept in abeyance for three years from the date as fixed in all cases. (See Schedule© on Page No 48)

CLAUSE 3: Default by Contractor:

If the Contractor shall neglect on fail to proceed with the work with due diligence or if he violates any of the provision of the Contract, the Officer – in –charge shall give the Contractor a notice, identifying deficiencies in performance and demanding corrective action. Such notice shall clearly state that it is given under the provision of this clause. After service of such notice, the contractor shall not remove any plant, equipment and material from the site. The Government shall have a lien on all such plant, equipment and material from the date of such notice till the said deficiencies have been corrected as mentioned in the said notice.

If the contractor fails to take satisfactory corrective action within ten days after receipt of such notice, the Officer-in-charge on behalf of Governor of Gujarat shall terminate the contract in whole. In case the entire contract is terminated, the amount of security deposit and performance bond if any together with the value of the work done but not paid for, shall stand forfeited to the Government. The plants, equipment and materials, held under this clause shall then be at the disposal of the Government to recover the amount equivalent to the liquidated damages and registration of the contractor shall be kept in abeyance for three years from the date as fixed in all such cases. The Officer-in –charge if necessary, shall direct that a part or the whole of such plant, equipment and material be removed from the site within a stipulated period. If the Contractor fails to do so, the Officer-in-Charge shall cause them or any part of them to be sold holding the net proceeds of such sale to the credit of the Contractor. After settlement of accounts, the lien by the Government of the contractor’s remaining plant equipment and balances of materials shall be released. Termination of the contract in whole shall be an adequate authority for the Officer-in-charge to demand discharge of the obligations from the guarantors of the security for the performance.

CLAUSE 4:

If the progress of any particular portion of the work under Contract is unsatisfactory, the Officer- intermetal, notwithstanding that the general progress of the work is satisfactory, in accordance with Clause 2 be entitled to take necessary action under Clause 3 after giving the Contractor ten days' notice inwriting and the contractor shall have no claim whatsoever for any compensation for any loss caused to him due to such action.

~~(Clause 1,2,3 and 4 are substituted vide GR NO. TNC 1091/IB-10/(11)-C, dated 15-10-91 & modified by GR dated 29-10-91 & G.R. No TNC 1088/IB/18(13)-C did 31/8/94 and no TNC-10/2002-14 C dated 28/4/03 and 10-9-03)~~

CLAUSE 5:

In any case in which any of powers conferred upon the Officer-in-charge by clause-3 hereof shall have become exercisable and the same shall not have been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable at any future date.

CLAUSE 5 A:

In the event of the Officer-in -charge taking action under clause 3, he may if so desire take possession of all or any tools, plants, machineries materials and stores in or upon the work or the site there of or belonging to the contractor or procured by him and intended to be used for the execution of the work or any part thereof, by paying or allowing for the same in account at the contract rate or in case of contract rates not being applicable at such reasonable rate, as may be comparable to current market rates where ascertainable of similar articles and comparable condition, to be certified by the Officer-in-charge. In the alternative the Officer-in-charge may by notice in writing to the contractor or his clerk of the works foreman or other authorized agent require him to remove such tools, plants, machineries, materials or stores from the premises within a time to be specified in such notice and in the event of the contractor failing to comply with any such requisition , the Officer-in-charge may remove them at the contractor's expenses or shall remove them by auction or private sale at the risk and cost of the contractor in all respects, and the certificate of the Officer-in-charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such removal shall be final and conclusive against the contractor.

CLAUSE 6: Extension of time:

If the contractor shall desire an extension of the time for completion of the work on the ground of his having been unavoidably hindered in its execution or any other ground he shall apply in writing to the Officer-in-charge before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he has hindered whichever is earlier and the Officer-in-charge may, if in his opinion, believe that there are reasonable-grounds for granting an extension, recommend to grant such extension as he thinks necessary or proper. The decision of the Commissioner, Bhavnagar Municipal Corporation shall be final in this matter.

CLAUSE 7:

As soon as the work is completed the contractor shall give a notice of such completion to the Officer-uncharged on receipt of such notice the Officer-in-charge shall inspect the work and if he is satisfied that the work is completed in all respect then: -

(I)For all works costing upto Rs.50 lakhs (amount put to tender) the final measurements shall be recorded within 45 days from the date of physical completion of the work and the final bill shall be prepared within 45 days from the date of recording final measurement., The completion certificate shall be issued within one month from the date of final measurement subject to the contractor fulfilling his obligation as provided in the contract and subject to the work being complete in all respects.

(ii) In respect of works costing more than Rs.50 lakhs (amount put on tender), the final measurements shall be recorded within 75 days from the date of physical completion of the work and the final bill shall be prepared within 75 days from the date of recording final measurements subject to the contractor fulfilling his obligations as provided in the contract and subject to the work being complete in all respects.

When separate period of completion has been specified for items or groups of items, the Officer-intermetal issue separate completion certificate for such items or groups of items.

No certificate of completion shall be issued nor shall the work be considered to be complete till the contractor shall have removed from the premises, on which the work has been executed, all scaffolding, sheds and surplus materials, except such as are required for rectification of defects; rubbish and all huts and sanitary arrangements

required for his workmen on the site in connection with the execution of the work, as shall have been erected by the contractor for the workmen and cleared all dirt from all parts of building(s) in, upon or around which the work has been executed or of which he may have possession for the purpose of the execution thereof and cleared floors, gutters and drains, cased doors and sashes, oiled locks and fastenings labeled keys clearly and handed them over to the Officer-in-charge or his representative and made the whole premises fit for immediate occupation or use to the satisfaction of the Officer-in-charge. If the contractor shall fail to comply with any of the requirements of these conditions as aforesaid, on or before the date of completion of the works, the Officer-in-charge may, at the expenses of the contractor, fulfill such requirements and dispose of the scaffolding, or surplus materials and rubbish etc. as he thinks fit and the contractor shall have no claim in respect of any such scaffolding or surplus materials except for any sum actually released by the sale thereof less the Cost of fulfilling the requirements and any other amount that may be due from the contractor. If the expenses of fulfilling such requirements are more than the amount realized such disposal as aforesaid the contractor shall forthwith, OnDemand, pay such excess. The Officer-in-charge shall also have the rights to adjust the amount of excess against any amounts that may be payable to the contractor.

CLAUSE 8:

No payment shall be made for any work, estimated to cost less than rupees one thousand till after the whole of the said work shall have been completed and a certificate of completion given. But in the case of works estimated to cost more than rupees one thousand, the contractor shall on submitting a monthly bill therefore, be entitled to receive payment proportionate to the part of the work then approved and passed by the Officer-in-charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor., All such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for work actually done and completed and shall not preclude the Officer-in-charge from requiring bad, unsound, imperfect or unskilled work to be removed and taken away and reconstructed or re-erected, nor shall any such payment be considered as an admission of the due performance of the contractor or any part thereof in any respect or the accruing of any claims, nor shall it conclude, determine, or affect in any way the power of the Officer-in-charge as to the final settlement and adjustment of the accounts or otherwise or in any other way vary or effect the contract. The final bill shall be submitted by the contractor within one month of the completion of the work, otherwise the Officer-in-charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties.

CLAUSE 9:

The rates for items of works shall be valid only when the items concerned is accepted as having been completed fully in accordance with the sectional specifications. In cases where the items of work are accepted as not so completed, the Officer-in-charge may make payment on account of such items at such reduced rates as he may consider reasonable in preparation of final or on account bill.

CLAUSE 10: Bills to be submitted monthly:

A bill shall be submitted by the contractor each month on or before the date fixed by the Officer-in-charge for all works executed in the previous month and Officer-in-charge shall take or cause to be taken the requisite measurements for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted, if possible, within ten days from the presentation of the bill. If the contractor does not submit the bill within the time fixed as aforesaid, the Officer-in-charge may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorized agent whose countersignature to the measurement list shall be sufficient warrant and the Officer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects.

CLAUSE 11:

The contractor shall submit all the bills on the printed forms to be had on application at the office of the Officer-in-charge to be made in the bills shall always be entered at the rates specified in the agreement or at the partly reduced rates subject to the approval by the Officer-in-charge in the case of items not completed/executed as per agreements or in the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the tender, at the rate here in after provided for such work.

CLAUSE 12:

If the specification of the work provides for the use of any special description of materials to be supplied from the Departmental Store or if it is required that the contractor shall use certain stores to be provided by the Officer-in-

charge (such materials and stores and the prices to be charged therefore as here in after mentioned being so far as practicable for the convenience of the contractor but not so as in any way to control the meaning or effect of this contract specified in the schedule or memorandum here to annexed) the contractor shall be supplied with materials and stores as may be required from time to time to be used by him for the purpose of the contract only, and the value of the full quantity of materials and stores so supplied shall be set off or deducted from any sum then deposit, or the proceeds of sale thereof, if the deposit is held in govt. Securities, the same or a sufficient portion thereof shall, in that case be sold for the purpose. All materials supplied to the contractor shall remain the absolute property of Govt. and shall on no account be removed from the site of the work, and shall at all time, be open to inspection by the Officer-in-charge. Any such materials, unused and in perfectly good condition at the time of completion or termination of the contract, shall be returned to the Departmental store if the Officer-in-charge so requires by a notice in writing given under his hand, but the contractor shall not be entitled to return any such materials except with the consent in writing of the Officer-in-charge and he shall have no claim for compensation on account of any such material supplied to him as aforesaid but remaining unused by him or for any wastage in or damage thereto. For materials provided in schedule-A, consumed in excess quantities, the rates provided in Schedule A shall be increased/adjusted corresponding to the increased/decrease in the new rate payable for excess quantity as compared to the tender-rates. The rate for materials provided in extra items will be the issue rates plus storage charge ruling on the date of issue of such quantity of materials.

CLAUSE 12A:

The contractor shall be entitled to use the materials supplied by the Department only to the extent of quantities of such materials required for execution of the work as per theoretical calculations. The Officer-in-charge may however, on being satisfied that a large quantity of such materials is required for the execution of the work, permit the contractor to use such large quantity of the materials, such permission shall be given in writing. The contractor is bound to return in good condition such materials issued in excess of the requirements so worked out or in excess of the quantities so permitted to be used by the Officer-in-charge if the contractor fails to return such extra materials within a period of 15 days from the date of the demand in writing of such materials being made by the Officer-in-charge, he shall - be charged for the excess materials at double the issue-rates for such materials specified in Schedule A of the contract Agreement.

CLAUSE 12B:

All stores and materials such as cement, if the consumption of which exceeds 25 tons and steel etc. Supplied to the contractor by Government shall be kept by the contractor in separate go down provided with a double lock. The key of one of the locks shall remain with the Officer-in-charge or his agent. The go down shall be accessible to the Officer-in-charge or his agent at all times. No materials shall be allowed to be removed from the site of the work and any material required for the execution of the work shall be taken out from the go down only in the presence of a duly authorized agent of the Officer-in charge.

CLAUSE 13:

(1) **Work Order book:** The contractor shall execute the whole and every part of the work in the most substantial and workman-like manner and Botha regards materials and in other respects in strict accordance with specifications. The contractor shall also confirm exactly, fully and faithfully to the design, drawings and instructions in writing for the work signed by the Officer-in-charge. the design and the drawings shall be lodged in the office of the site Officer-in-charge to which the contractor shall be entitled to have access for the purpose of inspection at such office during office hours. Where the instructions referred to above are not contained in separate letters addressed to the contractor the same shall be recorded in the work-order book, which shall be maintained and kept on the site of the work. The contractor shall be required to sign such entries in the work-order book in token of having noted the instructions. However, if the contractor fails to sign the work-orderbook for any reason whatsoever, the entry of the instructions in the work-order book shall be deemed to be the due notice to him of the said instructions. The work-order book shall be open for inspections to the contractor on the site of the work during office hours.

(2) The contractor will be entitled to receive one copy of the accepted tender along with the work order free of cost and will also be entitled to receive one set of contracts and working drawings according to the progress of work as and when needed, free of cost.

(3) The several documents forming the contract are essential parts of the contract and requirements occurring in one are binding as through occurring in all. They are intended to be mutually explanatory and complimentary and

to describe and provide for a complete work. In the event of any discrepancy in the several documents forming the contract or in any one document, the following order of precedence should apply.

(a) Dimension and quantities: (I) Drawings (ii) Schedule-B of the Tender form (iii) specification. On drawings, figures dimensions, unless obviously incorrect, will be followed in preference to scaled dimensions.

(b) Description: (I) Schedule-B of the Tender form: - (ii) Drawings (iii) Specifications.

In the case of effective description or ambiguity, the Officer-in-charge is entitled to issue further instructions directing in what manner the work is to be carried out. The contractor cannot take any advantage of any apparent error or omission in drawings or specifications and the Officer-in-charge shall be entitled to make corrections and interpretations as necessary to fulfill the plans and specifications.

CLAUSE 14.1:

The Officer-in-charge shall have power to make any alterations in or addition to the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by the Officer-in-charge and such alternation shall not invalidate the contract and additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work and at the same rate as out by the contractor on the same conditions in all respects on which he agreed to do the main work and at the same rate as are specified in the tender for the main work.

14.2. Except that when the quantity of any item exceeds the quantity as in the tender by more than 10% the contractor will be paid for the quantity in excess of 10% at the rate entered in the R & B S.O.R. of the year during which the excess in quantity is first executed and for the materials consumed in excess quantity the rate for the materials to be charged would be the basic rate taken into account for fixing the rate for the S.O.R. above instead of the rate stipulated in schedule – A.

14.3. If the additional or altered work includes any class of work for which no rate is specified in this contract, then such class of work shall be carried out.

(I) At the rate derived from the item within the contract which is comparable to the one involving additional or altered class of work, where there is more than one comparable item, the item of the contract which is nearest in comparison with regard to class or classes of the work involved shall be selected and the decision of the Chief Fire Officer as to the nearest comparable item shall be final and binding on the contractor.

(ii) If the rate cannot be derived in accordance with (I) above, such class of works shall be carried out at the rate entered in the Schedule of Rates of the Division for the year in which the tender was received, increased or decreased by the percentage by which the tender amount is more or less as compared to the amount arrived at the rates in the “Schedule or Rates” of the Division in the year in which the tender was received. if the Schedule of rates of the Division does not contain all the items the percentage increase or decrease of the tender shall be calculated considering such items which were included in the “Schedule of Rates “of the Division for the year and for materials consumed on such item the rate to be charged would be the basic rate taken into account for fixing the rate in S.O.R. referred to above instead of the rate Stipulated in schedule ‘A’.

(iii) If it is not possible to arrive at the rate from (I) and (ii) above, such class of work shall be carried out at the rate decided by the competent authorities on the basis of detailed rate analysis after hearing the contractor before a Committee of two superintending Officers stationed at the same place or the nearest place.

14.4 If the additional or altered work, for which no rate is entered in the “Schedule of Rates” of the Division is ordered to be carried out before the rate is agreed upon, then the contractor shall within seven days of the date of receipt by him of the order to carry out the work, inform the Officer-in-charge of the rate, which it is his intention to charge for such class of work and if the Officer in charge does not agree to this rates, he shall by notice in writing be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner as he may consider it advisable, provided always that if the contractor shall commence work or incur any expenditure in regard thereof before the rates shall have been determined as lastly herein beforementioned, then in such cases he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Officer-intervein the event of the dispute, the decision of the Chief Fire Officer of the Circle shall be final.

Where, however, the work is to be executed according to the designs, drawings and specifications recommended by the contractor and accepted by the competent authority, the alternation above referred to shall be within the scope of such designs, drawings and specifications appended to the tenders.

The time limit for the completion of the work shall be extended in the proportion that the increase in the cost occasioned by alternations bears to the cost of the original contract work and the certificate of the Officer anchorages to such proportion shall be final and conclusive.

14.5 For excess in item of well sinking the rates for sinking in depth beyond the designed depth shall be as per threat quoted by the contractor in the statement of variation, if no rates of variation in sinking are quoted the rate payable shall be the tender rate for sinking at designed level increased by the difference of schedule of rate for sinking at designed depth and sinking at final depth.

CLAUSE 15: No claim for any payment of compensation for change or restriction of work

If at any time after the execution of the contract documents the Officer-in-charge shall for any reason whatsoever, require the whole or part of the work, as specified in the tender, be stopped for any period or shall not require the whole or part of the work to be carried out at all or to be carried out by the contractor,

he shall give notice in writing, stating the fact to the Contractor who shall thereupon suspend or stop the work totally or partially, as the case may be. In any such case, except as provided hereunder, the Contractor shall have no claim to any payment or compensation whatsoever except as provided hereunder

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 so derive in consequence of the full amount of the work not having been carried out,

or on account of any loss that he may be put on account of materials purchased or agreed to be purchased or for unemployment of labor required by him. He shall not have also any claim for compensation by reason of any alteration having been made in the original specifications, drawings, designs and instructions which may involve any curtailment of the work as originally contemplated.

(1) However, the contractor will be entitled for compensation for loss, if any on the date of notice, for the purchased materials or for the contract executed for the material to be purchased for such work. Such compensation will be paid only for actual loss for materials, if such materials so purchased or agreed to purchase is of required quantity/quality and was purchased/ contracted to be purchased only for the same work. But no compensation shall be granted to contractor on material for which advance has been given to contractor by Government. The amount of loss for such claim will be decided by in charge Officer-in charge.

(2) The contractor also will be entitled for compensation of unemployed labor for 7 days from the date of notice provided that in that opinion of Officer-in-charge such labor working for 7 days prior to the notice and would not be in a position to get employment elsewhere within 7 days from the date of such notice. The contractor should try to employ such unemployed labor at other places from the date of such notice. In case the Contractor does not agree with the decision of EXECUTIVE ENGINEER Fire and Emergency. BMC regarding the amount of compensation or loss; it will be open for the contractor to appeal to Superintending Officer-in –charge within one month form the date of knowledge of such decision. In such case the decision of Chief Fire Officer will be final and binding to the Contractor.

The Contractor shall not be entitled for loss of any expected profit of such work. (Vide G.R. NO.SSR/1090/IB/247(2) /C, did 28-06-1993 as amended by GR of even number dated 11/02/1999)

CLAUSE 15A: The contractor shall not be entitled to claim any compensation from Govt. on account of delay by Government in the supply of materials entered in Schedule ‘A’ where such delay is caused by (I) Non-supply due to short allotment of quota in case materials available under quota regulations. (ii) Difficulties relating to the supply of railway wagon (iii) Force majored. (iv) Act of God. (v) Act of the country’s enemies or any other reasonable cause beyond the control of Government. In the case of such delay in the supply of materials, Government shall grant such extension of time for the completion of the works as shall appear to the Officer-in-charge to be reasonable in accordance with the circumstances of the case. The decision of the Commissioner, Bhavnagar Municipal Corporation as for the extension of time shall be accepted as final by the contractors.

(As modified Vide R&BD. G.R. No. TNC – 1096 IB – 143 (16) – C dated 11-1-99)

CLAUSE 16: Time limit for unforeseen claims:

The contractor shall not be entitled to any compensation from Government on any account unless were allowed by the conditions of this contact. In such cases the contractor shall have to submit a claim in writing to the Officer-in charge within one month of the cause of such claim occurring.

CLAUSE 17: Action & compensation in case of bad work:

If, at any time before the expiry of Defects Liability period as detailed in Clause 17-A. It shall appear to the Officer-in-charge or his sub-ordinate in charge of the work that/any work has been executed unsound, imperfect or unskilled workmanship or with materials of inferior quality or that any materials or articles provided by him for thereupon of the work are unsound , or of a quality inferior to that contracted for or are otherwise not in accordance with the contract, it shall be lawful for the Officer-in-charge to intimate this fact in writing to the contractor and then notwithstanding the fact that the work, materials or articles complained for may have been passed, certified and paid for the contractor shall be bound forthwith to rectify, or remove and reconstruct the - work so specified in whole or in part as the case may require, or if so required, shall remove the materials or articles so specified in whole or impart and provide other proper and suitable materials or articles at his own charge and cost, and in the event of his failing to do so within a period to be specified by the Officer-in-charge in the written intimation aforesaid, the contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimate of the rectification for every day not exceeding ten days during which the failure so. Continues and in the event of any such failure as aforesaid continuing beyond ten days, the Officer-in-Charge may rectify or remove, and re-execute the work or remove and replace the materials complained of as the case may be at the risk and expense in all respects of the contractor. Should the Officer-in-charge consider that any such inferior work or materials as described above maybe accepted or made use of, it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.

However, the contractor shall be responsible for normal maintenance of the work till the final bill for the work is prepared by the departmental Officer.

Clause 17A: Defect liability period:

The contractor shall be responsible to make good and remedy at his own expenses any defect which may develop or may be noticed before the period mentioned hereunder from the certified date of completion. The Officer-in-charge shall give the contractor a notice in writing about the defects and the contractor shall make good the same within 15 days of receipt of the notice. In the case of failure on the part of the contractor, the Officer-in –charge may rectify or remove or re-execute the work at the risk& cost of the contractor. The Officer-in-charge shall be entitled to appropriate the whole or any part of the amount of security deposit towards the expenses, if any, incurred by him in rectification, removal or re-execution.

The Defects Liability period shall be ~~three year~~ **36 Months from the date of issue of completion certificate by officer in charge.**

~~(a) for all works costing more than Rs. 50.000 and up to Rs. 1 crore (amount put tender), the period shall be 3 years including monsoon from the certified date of completion.~~

~~(b) For major project costing more than Rs. 1 crore, the period shall be 3 Years from the certified date of completion which should include three monsoons.~~

~~(c) For building works, the period specified in (a), (b) or (c) above elapse of monsoon period following the certified date of completion, whichever is later, for the purpose of deciding the monsoon period, the 30th September may be treated as the last date.~~

CLAUSE 18: Work to be open to inspections –Contractor or responsible agent to be present.: -

All Works under or in course of execution or executed in pursuance of the contract shall, at all times be open to the inspection and supervision of the Officer-in-charge and his subordinates and the Contractor shall, at all times during the usual working hours, and all other times for which reasonable notice of the intimation of the Officer-in-charge or his subordinate to visit the works shall have been given to the contractor , either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing present for that purpose.

Orders given to the contractor's duly authorized agent shall be considered to have the same force and effect as if they had been given to the Contractor himself.

CLAUSE 18:

(I) G.R.B. & CD NO. RGN-6090-UO 24 (42)-C, dated 26-11-90.

Employment of a qualified site Officer by the Contractor.

The Contractor shall employ full-time technically qualified staff during the execution of this work as under: -

1. One graduate Tech. officers and two diploma Mech. supervisors when cost of the work to be executed is more than Rs.50 lakhs.
 - ~~2. One graduate & two Diploma, Civil Officers when the cost of the work to be executed is more than Rs.15 lakhs but less than Rs.50 lakhs.~~
 - ~~3. Minimum one Diploma Civil Officer when the cost of work is less than Rs.15 lakhs but more than Rs.5 laes.~~
 - ~~4. Minimum two Diploma Civil Officers for the work when the cost of work to be executed is less than Rs. 5 lakhs.~~
- The Officer so employed for the Government work must have sufficient experience to handle the work independently. Such an Officer shall have to stay at the site of work and he shall not be entrusted with other duty except this work. In case the contractor or partner of the contractor firm is a Civil/Mech. Graduate Officer, Employment of separate Officer will not be necessary provided that the Officer partner himself attends the execution of the work on the site.

CLAUSE 19: Notice to be given before work is covered up:

The contractor shall give not less than five days' notice in writing to the Officer-in-charge or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions there of taken before the same is so covered up or placed beyond the reach of measurement and if any work shall be covered up or placed beyond the reach of measurement without such notice having and if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or consent obtained , the same shall be uncovered at the contractor's expenses and in default thereof nonpayment or allowance shall be made for such work or for the materials with which the same was executed.

CLAUSE 20:

If the contractor or his workmen, or servants shall break, deface, injure or destroy any part of the building or the work in a question in/on which they may be working or any building, road, fence, enclosure or grassland or cultivated ground contiguous to the premises on which the works or any part thereof is being executed or if any damage shall be done to the work from any causes whatever before damage occurred/caused due to normal flood or rain or if any imperfections become apparent in it within three months from the grant of a certificate of completion, final or otherwise by the Officer-in-charge, the contractor shall make good the same at own expenses or in default, the Officer-in-charge may cause the same to be made good by other contractor, and deduct the expenses (of which the certificate of the Officer-in-charge shall be final) from any sums that may thereafter become due to the contractor or from his security deposit or the proceeds of sale thereof or a sufficient portion thereof.

CLAUSE 20A:

Neither party shall be liable to the other for any loss or damage occasioned by or arising out from act of God, such as "Unprecedented flood", volcanic eruption, earthquake or other convulsion of nature and other acts such as but not restricted to general strike, invasion, the acts of foreign countries, hostilities, or war like operations before or after declaration of war, rebellion, military or usurped power which prevent performance of the contract and which could not have been foreseen or avoided by a prudent person.

Note: "Unprecedented flood" means the flood crossing the High Flood Level of the past Year(s) which is on the available record. (Modified Vide R& B D.G.R. No/ TNC – 1096 – IB –143 – (16) – C dated 11-1-99)

CLAUSE 21: Contractor to supply plant, ladders, scaffolding etc. and is liable for damage arising from nonprovisional lights, fencing etc.:

The contractor shall supply at his own cost all materials (except such special materials if any, as may, in accordance with the contract to be supplied from the Public Works Department Stores), plant, tools, appliances, implements, ladders, cordage, tackle, scaffolding, and any temporary works which may be required for the proper execution of the work whether in the original, altered or substituted form and whether included in the specifications, or other documents forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying with requirements of the Officer-in-charge as to any matter or to which under these conditions he is entitled to be satisfied or which he is entitled to require together with carriage there for to and from the work. The

contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time, of the work or the materials, failing this, the same may be provided by the Officer-in-charge at the expenses of the Contractor and the expenses may be deducted from any money due to the Contractor under the contract or from his security deposit, or proceeds of sale thereof or of a sufficient portion thereof. The contractor shall provide all necessary fencing and lights required to protect the public from accident and shall also be bound to bear expenses of defense of every suit, action or other legal proceeding, at law that may be brought by any person for injury sustained. Owing to neglect of the above precautions and to pay any damages and costs which may be awarded in any such suit, action or proceedings to any such person, or which may, with the consent of the Contractor, be paid in compromising any claim by any such person.

CLAUSE 21A: The Contractor shall provide suitable scaffolds and working platforms, gangways and stairways, and shall comply with the following regulation in connection therewith.

- (a) Suitable scaffolds shall be provided for workmen for all works that cannot be safely done from a ladder or by other means.
- (b) A scaffold shall not be constructed, taken down or substantially altered except
 - (I) Under the supervision of a competent and responsible person.
 - (ii) appointed by contractor and by competent workers possessing adequate experience in this kind of work.
- (c) All scaffolds and appliances connected therewith and all ladders shall
 - (I) be of sound material
 - (ii) be of adequate strength having regard to the loads and strains to which they will be subjected and
 - (iii) be maintained in proper condition
- (d) Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.
- (e) Scaffolds shall not be overloaded and so far, as practicable the load shall be evenly distributed.
- (f) Before installing the lifting gear on scaffolds, special precaution shall be taken to ensure the strength and stability of the scaffolds.
- (g) Scaffolds shall be periodically inspected by a competent person.
- (h) Before allowing a scaffold to be used by his workmen, the Contractor shall, whether the scaffold has been erected by his workmen or not, take steps to ensure that it complies fully with the regulation herein specified.
 - (I) Working platforms, gangways shall –
 - (I) be so constructed that no part thereof can be dug unduly or unequally.
 - (ii) be/so constructed and maintained having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping and
 - (iii) be kept free from any unnecessary obstruction.
 - (j) In the case of working platforms, gangways working places and stairways at a height exceeding 2.00 MT. (to be specified)
 - (I) every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety.
 - (ii) every working platform and every gangway shall have adequate width, and
 - (iii) every working platform, gangway, working place and stairway shall be suitably fenced.

(k) Every opening in the floor of a building or in a working platform shall, except for the time and to the extent required to allow the access of person or the transport or shifting of materials be provided with suitable means to prevent the fall of persons or material.

(l) When persons are employed on a roof where their danger of falling from a height exceeding 3.00Mtr. (to be specified) meters suitable precaution shall be taken to prevent the fall of persons or material.

(m) Suitable precautions shall be taken to prevent persons being struck by articles which might fall from scaffold or other working places.

(n) Safe means of access shall be provided to all working platforms and other working places.

CLAUSE 21B: The contractor shall comply with the following regulations as regards the hoisting appliances to be used by him

(a) Hoisting machines and tackle including their attachments, anchorages and supports shall –

(i) be of good mechanical construction, sound material and adequate strength and free from patent defect, and

(ii) be kept in good repair and in working order

(b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.

(c) Hoisting machines and tackles shall be examined and adequately tested after erection on the site and before use and be re-examined in position at intervals to be prescribed by Officer-in-charge.

(d) Every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering materials or as a means of suspension shall be periodically examined.

(e) Every crane driver or hoisting – appliance operator shall be properly qualified.

(f) No person who is below age of 15 years shall be in control of any hoisting machine, including any scaffolds, nor shall give signals to the operator.

(g) In the case of every hoisting machine and of every chain, ring hook, shackle, swivel and pulley block used in hoisting or lowering or as a means of suspension the safe working load shall be ascertained by adequate means.

(h) Every hoisting machine and all gears referred to in preceding regulation shall be plainly marked with the safe working load.

(i) In the case of hoisting machine having a variable safe working load, each safe working load and conditions under which it is applicable shall be clearly indicated.

(j) No part of any hoisting machine or gear referred to in regulation ‘g’ above shall be loaded beyond the safe working load except for the purpose of testing.

(k) Motors, gears, transmissions, electric wiring and other dangerous parts of hoisting appliances shall be provided with sufficient safeguards.

(l) Hoisting appliances shall be provided with such means as will reduce to a minimum the risk of the accidental descent of the load.

(m) Adequate precautions shall be taken to reduce to minimum the risk of any part of a suspended load becoming accidentally displaced.

CLAUSE 22: Measures for Prevention of Fire:

The contractor shall not set fire to any standing jungle, tree bush wood or grass without a written permit from the Officer-in-charge. When such permit is given, and also in all cases when destroying cut or dug up tree, bush wood, grass etc. by fire, the contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property. When such permit is given and also in all cases when destroying cut or dug up tress, bush wood, grass etc. by fire, the contractor shall take necessary measures to prevent such fire spreading to or other-wise damaging surrounding property.

CLAUSE 23: Liability of contractors for any damages done in or outside work area:

Compensation for all damage done intentionally or unintentionally by Contractor’s laborers whether in or beyond limits of Government property including any damage caused by the spreading of fire mentioned in the clause 22, shall be estimated by the Officer-in-charge, or such other Officer as he may appoint and the estimates of the Officer-in-charge, subject to the decision of the Superintending Officer, on appeal, shall be final and the contractor shall be bound to pay the amount of the assessed compensation OnDemand, failing which the same

will be recovered from the Contractor as damages in the manner prescribed in clause 1 or deducted by the Officer-in-charge from any sums that may be due or become due from Government to the contractor under this contract or otherwise.

The Contractor shall bear the expenses of defending any action or other legal proceeding that may be brought by any person for injury sustained by him owing to neglect of precautions to prevent the spread of the fire and he shall also pay the damages and cost that may be awarded by the court in consequence.

CLAUSE 24: Panalty

e-tender shall have to complete contract **within 12 Month** after getting LOI, other wise penalty will be charged as per noms(SCHEDULE - C) of Bhavnagar municipal corporation , 0.1% of awarded contract value per day maximum up to 10% .

CLAUSE 25: Deleted

CLAUSE 26: Work not to be sublet. Contract may be rescinded and security deposit forfeited for subletting it without approval or for bribing a public officer or if contractor becomes insolvent:

The contract shall not be assigned or sublet without the written approval of the Officer-in-charge. And if the contractor shall assign or sublet his contract or attempt to do so or become insolvent or commence any proceeding to get himself be adjudicated an insolvent or make any compromission with his creditors, or attempt to do so, the Officer-in-charge may, by notice in writing rescind the contract, Also if any bride, gratuity , gift loan, perquisite, reward or advantage, pecuniary or otherwise, shall either directly or indirectly be given, promised or offered by the contractor, or any of his servants or agents to any public officer or person in the employ of Government in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in contract, the Officering-charge may thereupon by notice in writing rescind the contract. In the event of contract being rescinded, the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of Government and the same consequence shall ensure as if the contract had been rescinded under clause 3 hereof and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under contract.

CLAUSE 27: Sums payable by way of compensation to be considered as reasonable compensation without reference to actual loss:

All sums payable by a contractor by way of compensation under any of these conditions shall be considered as a reasonable compensation to be applied to the use of Government without reference to the actual loss or damage sustained and whether any damage has or had not been sustained.

CLAUSE 28: Change in the constitution of firm to be notified:

In the case of a tender by partners, any change in the constitution of a firm shall be forthwith notified by the Contractor to Officer-in-charge for his information.

CLAUSE 29: Works to be under directions of Chief Fire Officer:

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of Chief Fire Officer of the Circle for the time being, who shall be entitled to direct at what point or points and in what manner they are to be commenced and from time to time carried on.

CLAUSE 30: (1) Disputes to be referred to Tribunal:

The disputes relating to this contract, so far as they relate to any of the following matters, whether such disputes arise during the progress of the work or after the completion or abandonment thereof, shall be referred to the Arbitration Tribunal, Gujarat State.

(I) The rates of payment under clause 5 for any tools, materials and stores, in or upon the works of the site thereof or belonging to the contractor or procured by him an intended to be used for execution of the work or any part thereof possession of which may have been taken by the Officer-in-charge under the said clause-5

(ii) The Reduction in rates made by the Officer-in-Charge under clause 9 from the items of works not accepted as completed fully in accordance with the sanctioned specifications.

- (iii) The rate of payment for any class of work which is included in the additional or altered work carried out by the contractor in accordance with the instructions of the Officer-in-Charge under clause 14 and the rates for which is to be determined under the said clause 14.
- (iv) The rates of payment for materials already purchased or agreed to be purchased by the contractor before receipt of notice given by the Officer-in-Charge under clause 15, and/or the amount of compensation payable to the contractor under the said clause for loss in respect of such materials.
- (v) The amount of compensation which the contractor shall be liable to pay under clause 17 in the event of his failure to rectify, remove or reconstruct the work within the period specified in the written intimation or the amount of expenses incurred by the Officer-in-Charge under the said clause 17 in rectifying, removing or re-executing the work or in removing and replacing the materials or articles complained of.
- (vi) The reduction of rates as may be fixed by the Officer-in-Charge under clause 17 for the inferior work or materials as accepted or made use of.
- (vii) The amount of compensation payable by the contractor for damages as estimated and assessed under clause 23.
- (viii) The amount payable to the contractor for the work carried out under clause 33 in accordance with the instructions and the requirements of the Officer-in-Charge in a case where there are no specifications.
- (2) The provision of Section-21 of the GPWD dispute Rabi. Tribunal Act –92 & order issued by the Govt. in connection with this Act will now apply for Arbitration (As per Government in N. & W.R.D. letter Nonsuit/1090/2679/K2 did. 9/2/94.
- (3) The provision of Arbitration Act., shall in so far as they are inconsistent with the provision of this act cease of to apply to any dispute arising from a works contract and all arbitration proceedings in relation to such dispute before an arbitrator, court of authority shall stand transferred to the Tribunal.
- (4) The awards declared by the arbitrator should be speaking award, giving reasons and calculations for every item of claims. The decision will have to be implemented by all the departments of the State Government and Public Sector Enterprises of Gujarat. (Resolution F. D. No. PB/1088/735/KT/Archivalia/Gandhinagar 5th October 1988.)
- (5) In case of dispute leading to the contractor or Government of Gujarat approaching to Court of Law, it shall be within the jurisdiction where the site of work is situated.
- (6) The reference to arbitration proceeding under this clause shall not
- (I) affect the right of the Officer-in-charge under clause 5 to take possession of all or any tools plants materials and stores in or upon the works of 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.
- (ii) Preclude the Officer-in-charge from utilizing the materials purchased by the contractor in any work or from removing such materials to other places, during the period the work is stopped or suspended in pursuance of notice given to the contractor under clause 15
- (iii) Entitle the contractor to stop the progress of the work or the carrying out the additional or altered working accordance with the provisions of clause 14 or as the case may be or clause 33.

CLAUSE 31: Deleted

CLAUSE 32: Lump sum in estimates:

When the estimate on which a tender is made includes lump sum in respect of part of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of the work in question is not in the opinion of the Officer-in-charge capable of measurement the Officer-in-charge may , as his discretion, pay the lump sum amount entered in the estimate and the certificate in writing of the Officer-in-charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him, under the provisions of this clause.

Payment breaks up for the electro- mechanical item shall be as under

On supply of material	65%
On installation	15%
On completion of testing and commissioning	10%
On completion and hand over to department	10%

CLAUSE 33: Action where no specifications:

In the case of work for which there is no such specification, such work shall be carried out in accordance with the Divisional Specification and in the event of there being no Divisional Specifications, then, in such case the work shall be carried out in all respects in accordance with the instructions and requirements of the Officer-in-charge.

CLAUSE 34: Definition of work:

The expression “work” or “works” where used in these conditions shall, unless, there be something in the subject or context repugnant to such construction to mean the work, or the works, contracted to be executed under or in virtue of the contract, whether temporary or permanent and whether original, altered, substituted or additional.

CLAUSE 35: Non refund of quarry fees & Royalties:

The contractor shall pay the royalty to the competent authority / local body/ Government as per rules. The same will not be refunded. ~~The contractor shall furnish quarterly the statement showing quantity of quarried materials, from whom purchased (with full address of the seller) and copies of bills for purchase to the District Officer of the Mining and Geology Department or authority competent to levy royalty in the area of work. Contractor shall also furnish such additional information as regard royalty payment to the royalty authority. The royalty charges paid shall be borne by the Contractor and shall not be reimbursed by the EXECUTIVE ENGINEER Fire and Emergency. BMC (Authority: - R & BD Circular No. TNC – 2286 – UO – 39 (19) – C dated 23-10-1989.)~~

Clause 36: Compensation under the workmen’s compensation Act:

The contractor shall be responsible for and shall pay compensation to his workman payable under the Workman’s Compensation Act. 1923 (VIII of 1923) hereinafter called the said Act) for injuries caused to the workman. If such compensation recoverable by Government as principal under sub-section 12(1) of the said Act on behalf of the Contractor it shall be recoverable by Government from the contractor under subsection 12(2) of the said section. Such compensation shall be recovered in the manner laid down in clause 1 above.

CLAUSE 36-A

The Contractor shall be responsible for and shall pay the expenses of providing medical aid to any workmen who may suffer a bodily injury as a result of an accident. If such expenses are incurred by Government, the same shall be recoverable from the contractor for with and be deducted, without prejudice to any other remedy of Government from amount due or that may become due to the Contractor.

Clause 36-B:

The contractor shall provide all necessary personal **safety equipment and first aid apparatus** available for the use of the person employed on the site and shall maintain the same in suitable condition for immediate use at any time and shall comply with the following regulations in connection therewith. The workers shall be required to use the equipment so provide by the Contractor and Contractor shall take adequate steps to ensure proper use of the equipment by those concerned. When work is carried on in approximates to any place where there is a risk of drowning all necessary equipment shall be provided and kept for use and all necessary steps shall be taken for the prompt rescue of any person, in danger. Adequate provision shall be made for prompt first aid treatment of all injuries to be sustained during the course of the work.

Clause 37:

The quantities shown in the tender are approximate and no claim shall be entertained for quantities of work executed being less than those entered in the tender. In the case of increase in the quantities by more than 30% the new rate will be paid to the contractor for the quantities in excess of 30%. The rates for the increased quantities as aforesaid will be fixed in the manner specified in clause – 14

Clause 38: Employment of famine or other labor:

The contractor shall employ any famine, convict or other labor or particular kind or class, if ordered in writing to do so by the Officer-in-charge.

Clause 39:

No compensation shall be allowed for any delay caused in the starting of the work on account of delay in making available the full site of land at a time.

Clause 40:

No claim for compensation shall be allowed for any delay in execution of the work on account of water standing in borrow pit or compartment. The rates are inclusive of hard or cracked soil, excavation in mud, sub soil water or water standing in borrow-pits and no claim for an extra rate shall be entertained unless otherwise expressly specified.

Clause 41: Entering upon or commencing any portion or work:

The Contractor shall not enter upon or commence any portion or work except with the written authority and instruction of the Officer-in-charge or of his subordinate in charge of the work. Failing such authority, the Contractor shall have no claim to ask measurement of or payment for work.

Clause 42: Minimum age of person employed:

(I) No Contractor shall employ any person who is under the age of 18 years.

Clause 42(1): DELETED

The employment of donkeys and / or other animals and the payment of fair wages: For Asphalt work(s) as far as possible, only the adult persons should be employed by the contractor. If the adult person is not available, then the children below the age of 15(Fifteen years) should not be employed under any circumstance.

(ii) No contractor shall employ donkeys or other animals with branching of string or thin rope. The branching must be at least three inches wide and should be of tape (Newer).

(iii) No animal suffering from stores, lameness or emaciation or which is immature shall be employed on the work.

(iv) The Officer-in-charge or his agent is authorized to remove from the work any person or animal found working which does not satisfy these conditions and no responsibility shall be accepted by Government for any delay caused in the completion work by such removal.

(v) The Contractor shall pay fair and reasonable wages to the workman employed by him in the contract undertaken by him in the event of any dispute arising between the Contractor and his workmen on the grounds that the wages paid are not fair and reasonable, the dispute shall be referred without delay to the Officer-in-charge who shall decide the same. The decision of the Officer-in-charge shall be conclusive and binding on the Contractor, but such decision shall not in any way affect the conditions in the contract regarding the payment to be made by Government at the section tender rates.

(vi) Government at the sanctioned tender rates.

The contractor shall provide drinking water facilities to the workers/ laborers employed on Government works Amenities relating to sanitation shall also be provided to the workers/laborers employed on works in urban areas). if the contractor fails to comply with these provisions, the Officer-in-charge shall give notice in writing and if the contractor does not provide this facility to the workers/ laborers within aperiodic ten days from the date of the notice in writing, the Officer-in-charge shall thereupon make the arrangement for drinking water at the cost of the contractor.

(vii) The Contractor shall provide the amenity of proper shade and shelter to the workers/ laborer's and their children on Government works as soon as the work starts. If the contractor fails to provide shed and shelter, the Officer-in-charge shall provide the same at the cost of contractor.

Clause 43: Method of payment:

Payment to contractor shall be made by cheque drawn on any treasury within the division convenient to them, provided the amount exceeds Rs. 10 Amount not exceeding Rs. 10 will be paid in cash or the BMC will pay the amount by way of NIFT/RTGS for which the contractor shall provide his PAN No. and bank details.

Clause 43 A : Any sum of money due and payable to the Contractor (including the security deposit returnable to the contractor) executing work in any department of Bhavnagar Municipal Corporation as grant-in-aid under this contract shall be appropriated by Bhavnagar Municipal Corporation and shall be set off against any claim of the any department of Bhavnagar Municipal Corporation of Gujarat state by for the payment of a sum of money arising out or under any other contract made by the contractor with the Bhavnagar Municipal Corporation of

Gujarat State for the work wholly the contractor against any claim of the Bhavnagar Municipal Corporation of Gujarat state is available, such a recovery shall be made from the contractor as arrears of land revenue.

Clause 44: Deleted

Clause 45: Employment of scarcity labor:

If Government declares a state of scarcity or famine to exist in any village situated within 16 kilometers of the work, the Contractor shall employ upon such parts of the work, as are suitable for unskilled labor, any person certified to him by the Officer-in-charge or by any persons to whom, the Officer-in-charge may have delegated this duty in writing to be in need of relief and shall be bound to pay to such persons, wages not below the minimum which Government may have fixed in this behalf. Any disputes which may arise connection with the implementation of this clause shall be decided by the Officer-in-charge whose decision shall be final and binding on the contractor.

Clause 46: Deleted

Clause 47: The rates to be quoted by the Contractor must be inclusive of sales tax, all taxed including GST. No extra payment on this account will be made to the contractor.

Clause 48: The Contractor should, as far as possible, obtain his requirement of laborers skilled and unskilled, from the nearest Employment Exchange so as to utilize the local employment potential. If there are no local Employment Exchange or such Exchanges are not able to provide the required labor locally, suitable laborers should be utilized to the maximum extent possible.

Clause 49: Fair Wages:

If a Contractor fails to pay within '7' (Seven) days to the laborer(s) /worker(s) the minimum wages prescribed by the Government under the Minimum Wages Act. 1948 as in force from time to time, the Officer-in-charge shall be at liberty to deduct the amount payable to the laborer/ workers from his (Contractors) bills or deposit(s) payable by the Contractor after making due inquiries and establishing the claim(s) of the laborer(s) /Workers(s). The contractor shall not be entitled to any payment of compensation on account of any loss that the Contractor may have to incur on account of the action as aforesaid. Before the action as aforesaid, is enforced, a notice in writing to the Contractor shall be issued by the Officer-in-charge to pay the wages as per Minimum Wages Act in force at the relevant time. If Contractor does not act as aforesaid within seven days, then the action contemplated as above shall be taken against him.

Clause 50: Deleted

Clause 51: List of Machinery:

The contractors shall also give a list of machineries in his possession and which they purpose to use on the work.

Clause 52:

(I) In case, the roller deployed by Department for the use on contract work is kept idle by the contractor for want of adequate labor and materials, the contractor will have to pay rental charges as per prevailing rules even though the items of rolling and watering are to be carried out by the department.

(ii) If the contractor does not plan his programmed so as to suit the requirement of the Department, the proportionate rental charge on roller shall be recovered from the contractor.

Clause 53: Local labor on normal rates:

The contractor shall have to engage local labor and person seeking employment where available on normal rate.

Clause 54: Rent will be recovered from the contractor for the land (Other than site of construction) given to them for stacking materials as well as for construction of temporary hutments etc.

Land measuring Charges

1. One hectare or less Rs. 05 Per month
2. More than 1 hectare & up to 2 hectares Rs.10 per month

3. More than 2 hectare & up to 3 hectares Rs.15 per month
4. More than 3 hectare & up to 4 hectares Rs.20 per month

Clause 55: The contractor shall employ only such labor who shall produce a valid certificate of having been vaccinated against small-pox within a period of last three years.

Clause 56:

1 Huts: The contractor shall build sufficient number of huts on a suitable plot of land for the use of the laborer according to the following specifications.

(1) Huts of bamboos and grass may be constructed.

(2) (2) A good site shall be selected. High ground removed from jungle but well provided with trees shall be chosen wherever it is available. The neighborhood of rank jungle, grass or weeds should particularly be avoided. Camps should not be established close to large cuttings of earth work.

(3) The lines of huts shall have open spaces of at least 10 m. between rows. When a good natural site cannot be procured, particular attention should be given to the drainage.

(4) There should be no over-crowding. Floor spaces at the rate of 2.8 St. per head shall be provided. Care should be taken to see that the huts are kept clean and in good order.

(5) The contractor must find out his own land. If he wants Government land, he should apply for it and pay assessment for it.

2. Drinking Water: The contractor shall as far as possible, provide an adequate supply of chlorinated pure potable drinking water for the use of laborers. This provision shall be at the rate of not less than 4.5 liters per head. No provision need be made where there is a suitable nala, river or well within 0.4 km of the camp. However, arrangement should as far as possible, be made to chlorinate water by chlorinated tablets for it is allowed for drinking purpose.

3. The contractor shall construct semi-permanent latrines for the use of Laborers on the following scale, namely (a) Where female is employed, there shall be at least one latrine for every 25 females. (b) Where males are employed, there shall be at least one latrine for every 25 males provided that where the number of males or female exceed 100, it shall be sufficient if there is one latrine for every 25 males or females, as the case may be up to first 100 and one for every 50 thereafter.

4. **Privacy in latrines:** Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.

5. **Notice to be displayed outside latrines and urinals:** (1) Where workers of both sexes are employed there shall be displayed outside each block of latrine and urinal a notice in the language understood by the majority of the workers For Men Only or For Women Only: as the case may be. (2) The notice shall also bear the figures of Aman or of women, as the case may be.

6. **Urinals:** There shall be at least one urinal for male/female workers up to 50 employed at a time. Provided that where the number of male or female workmen, as the case may be, exceeds 500, it shall be sufficient if there is 36 -one urinal for every 50 males or females up to the first 500 and one for every 100 males or females or part thereof.

7. **Latrines and Urinals to be accessible:** (1) The latrines and urinals shall be conveniently situated and accessible to workers at all times at the establishment. (2) (i) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times (ii) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.

8. **Water for latrines and urinals:** Water shall be provided by means of pipes or tanks or the rise, so also beneficently accessible in or near the latrines and urinals.

9. **Bathing and washing places:** (1) The contractor shall construct sufficient number of bathing places every unit of 20 persons being provided with a separate bathing place. (2) Washing places should also be provided for the purposes of washing clothes. Every unit of 30 persons shall have at least one washing place. (3) such bathing and washing place should be suitably screened and separate places provided for male and female workers. (4) Such facilities shall be conveniently accessible and shall be kept in clear and hygienic condition.

10. **Drainage:** The contractor shall make sufficient arrangement for draining away the sewerage water as well as water from the bathing and washing places and shall dispose of this waste water in such a way as not to cause nuisance. The contractor should obtain a permission from the Gujarat Water Pollution Control Board, Gandhinagar if Water is so be drained in river or near the well. The contractor would put malaria oil once in a week in stagnant water round about the residence.

11. **Medical facilities:** The contractor shall engage a medical officer with a traveling dispensary for a camp having 500 or more persons if there is no Government or other private dispensary situated within 6 p.m. from the camp. 12. **Conservancy and cleanliness:** The contractor shall provide the necessary staff for effecting the satisfactory conservancy and cleanliness of

the camp to the satisfaction of the Officer-in-charge. At least one sweeper per 200 persons should be engaged. Conservancy staff should dump refuse in compost pit, away from the labor camp.

13. Health Provisions: The District Health Officer of the District or the Deputy Director of Health Service shall be consulted before opening a labor camp and his instructions on matters, such as the water supply, sanitary convenience, the camp-site, accommodation and food supply shall be followed by the contractor.

14. Precautions against epidemic: (a) The authorities in charge of the colonies should get the laborers inoculated against cholera and plague and vaccinated against smallpox at the time of recruitment, if they are not inoculated or vaccinated within 6 months or 3 years respectively prior to the date of recruitment. (b) When, in any labor camp there is an epidemic disease or is threatened with such an outbreak, the authorities in charge of the labor camps should ensure that all the inmates of the labor colonies are inoculated or vaccinated as the case may be, depending on the diseases, within 72 hours after the outbreak. (c) The authorities in charge of the labor colony should arrange to communicate by wire regarding the outbreak of the epidemic diseases on the very day of the outbreak, of the Mamlatdar of the Taluka, the District Health officer or to the Deputy Director of Public Health in charge of that area and the Director of Public Health. Thereafter they should continue to send daily reports to the above officers in the prescribed form regarding the progress of the epidemic disease. (d) When the authorities in charge of the labor colony suspect or have reason to believe that any inmate of the labor colonies is suffering from the infectious or contagious disease, they shall forthwith arrange for the segregation of such persons to isolated huts to be specifically provided for the purpose and also for their treatment. (e) As regional malaria epidemic outbreaks are likely to occur in such project areas, the authorities in charge of the labor colonies should report promptly the occurrence of unusual incidence of cases of malaria and also inform the District Health Officer of the District, Deputy Director of Public Health (Malaria) and the Director of Public Health and also arrange to institute all necessary anti-malarial measures as may be advised by the officials of the Public Health Department. (f) The authorities in charge of the colonies should also arrange to carry out any other measures that may be recommended by the officials of the Public Health Department necessary to prevent or control the spread of disease.

15. Rest rooms: (1) In every place where contract labor is required to halt at night in connection with the contract works and in which employment of contract labor is likely to continue for three months or more, the contractors shall provide and maintain rest rooms or other suitable alternative accommodation within fifteen days of the employment of contract labor.

(2) If the amenity referred to in sub-rule is not provided by the contractor within the period prescribed, the employer shall provide the same within a period of fifteen days of the expiry of the period laid down in the sub-rule (1). (3) Separate rooms shall be provided for women employees.

(4) Effective and suitable provision shall be made in every room for securing and maintaining adequate ventilation for the circulation of fresh air and there shall also be provided and maintained sufficient and suitable natural or artificial lighting.

(5) The rest room or other suitable alternative accommodation shall be of such dimensions as to provide at least a floor area of 1 Sq. mt. For each person making use of rest rooms.

(6) The rest room or other suitable alternative accommodation shall be so constructed as to afford adequate protection against heat, wind, rain, and shall have smooth, hard and impervious surface.

(7) The rest rooms or other suitable alternative accommodation shall be at a convenient distance from the establishment and shall have adequate supply of wholesome drinking water.

16. Canteen Facilities: (1) In every establishment of contract work and wherein work regarding the employment of contract labor is likely to continue for six months and wherein contract labor numbering one hundred or more are ordinarily employed, the adequate canteen facilities shall be the contractor for the use of such contract labor within sixty days of the commencement of the employment of contract labor.

(2) If the contractor fails to provide the canteen facilities within the time limit laid down the same shall be provided by the principal employer within sixty days of the time allowed to the contractor.

(3) The canteen shall be maintained by the contractor or principal employees as the case may be in an efficient manner.

17. Accommodation in canteen: (1) The canteen shall consist of at least dining hall, kitchen, storeroom, pantry, and washing places separately for worker and for utensils.

2 (i) The canteen shall be sufficiently lighted at all times where any person has access to it.

(ii) The floor shall be made of smooth and impervious materials and inside walls shall be lime-washed or coloratura least once in each year, provided that the inside walls of the kitchen shall be lime-washed every four months.

3 (i) The premises of the canteen shall be maintained in clean and sanitary condition.

(ii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause nuisance.

(iii) Suitable arrangements shall be made for the collection and disposal of garbage.

18. Accommodation in dining hall: (1) The dining hall shall accommodate at a time, at least 30% of the contractor working at a time.

(2) The floor area of the dining hall excluding the area occupied per dinner to be accommodated shall as prescribed in sub-rule (1)

(3) (i) A portion of the dining hall and service counter shall be partitioned and reserved for women workers, in proportion to their numbers. (ii) Washing places for women shall be separate and screened to secure privacy.

(4) Sufficient table, stools, chairs or benches shall be available for the number of diners to be accommodated as prescribed in sub-rule 1.

19. Equipment in canteen: (I) There shall be provided and maintained sufficient utensils, crockery, cutlery, furniture and any other equipment necessary for the efficient running of the canteen.

(ii) The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.

(2) (I) Suitable clean clothes for the employees serving in the canteen shall also be provided and maintained.

(ii) A service counter, if provided, shall have a top of smooth and impervious materials.

(iii) Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipment.

20. Food stuff to be served: The food stuff and other items to be served in the canteen shall be in conformity with the normal food habits of the contract labor.

21. Prices to be displayed: The charges for food stuffs, beverages and any other item served in the canteen shall be based on "no profit, no loss" and shall be conspicuously displayed in the canteen.

22. Canteen to be run on "No profit no loss" basis: In deriving the prices of food stuffs and other articles seventh canteen, the following items shall not be taken into consideration as expenditure, namely.

(a) the rent for the land and building.

(b) The depreciation and miniatous charges for the building and equipment provided for in the canteen.

(c) The cost of purchase, repairs and replacement of equipment including furniture, crockery, cutlery and utensils.

(d) The water charges and other charges incurred for lighting and ventilation.

(e) The interest on the amount spent on the provisions and maintenance of furniture and equipment provided for in the canteen.

The local officers should check up whether, facilities as offered and which are admissible under the existing rules and orders are made available to the workers and enforce upon the contractors the necessity of adhering to the instructions for promotion of welfare of the workers according to the terms of the contract.

23.-BOOKS OF ACCOUNTS AND REGISTRES OF THE CANTEEN: The books of accounts and registers and other documents used in connection with the running of the canteen shall be produced OnDemand to an inspector.

24.-AUDIT OF THE ACCOUNTS OF THE CANTEEN: The accounts pertaining to the canteen shall be audited once every 06 months by registered accountants and auditors. Provided that the Labor Commissioner may approve of any other person to audit the accounts; if he is satisfied that it is not feasible to appoint a registered accountant and auditor in view of the site or the location of the canteen.

CLAUSE 57: Contractor shall have to arrange for the supply of gumboots. Hand gloves, mask etc. Invariably to the laborers/workers engaged by the contractor on asphalt work.

CLAUSE 58: The Contractor shall not show any distinction between Harijan and other class of laborers/Workers employed to carry out the Government work.

CLAUSE 59: Price variation clause: Price variation: (NOT APPLICABLE)

For (A) Labor (B) Materials and (C) P.O.L. The amounts payable to the Contractor for the work done shall be adjusted for increase or decrease in the rates of (A) Labor (B) Materials excepting those materials supplied by Government as per Schedule-A and cement, steel and asphalt and (C) P.O.L. asunder:

~~(A) Labor: Increase or decrease in the cost due to Labor shall be calculated quarterly in accordance with the following formula.~~

$$\mathbf{VI = 0.75 \times \{pl \times R \times I - io\}}$$

~~100 io~~

~~Val = Increase or decrease in the cost of work during the quarter under consideration due to change in rates for labor.~~

~~R = The value of work done in rupees during the quarter under consideration, after excluding the value of extra items and after deducting the cost of.~~

~~(I) Materials supplied from the Departmental store to the Contractor at fixed rate as specified in schedule A and.~~

~~(ii) Value of cement, steel and asphalt brought by the contractor valued at star rate plus the increase/decrease for which price adjustment is done under clause 59 / A below:—~~

~~io = The average consumer price index for industrial workers for the quarter in which tenders were opened (as published in *.....)~~

~~I = The average consumer price index for industrial workers for the quarter under consideration.~~

~~pl = Percentage of labor components (specified in Schedule i.e., % Labor)~~

* This refers to average consumer's price index (wholesale) for industrial workers as applicable to Ahmedabad as published by Government of India, Ministry of Labor Bureau.

(B) Materials other than Cement, Steel and Asphalt: The increase or decrease in cost of materials other than cement, steel and asphalt shall be calculated quarterly in accordance with the following formula:

$$V_{im} = 0.75 \times \left\{ \frac{pm \times R \times I}{100} - io \right\}$$

V_{im} = Increase or decrease in the cost of work during the quarter under consideration due to change in the rates of material.

R = The value of work done in rupees during the quarter under consideration, after excluding the value of extra items and after deducting the cost of:

(i) Materials supplied from the Department store to the Contractor at fixed rates as specified in schedule—A.

(ii) Value of cement asphalt and steel brought by the contractor valued at star rate plus the increased / decrease for which price adjustment is done under clause 59/A below:—

io: The average wholesale price index * (all commodities) for the quarter in which tenders were opened as published in @.....)

I = The average wholesale price index (all commodities) for the quarter under consideration.

pm = Percentage of material component (specified in schedule...i.e., %) of item.

@ = For materials wholesale price index as published by Reserve Bank of India should be referred to.

(C) P.O.L.: The increase or decrease in the cost of petrol, diesel, oil, and lubricants shall be calculated quarterly in accordance with the following formula:

$$V_t = 0.75 \times \left\{ \frac{pd \times R \times D}{100} - Do \right\}$$

V_t = Increase or decrease in cost of work during quarter of consideration due to change in rates of petrol, oil and lubricants (POL)

R = The value of work done in rupees during the quarter under consideration, after excluding the value of extra items and after deduction the cost of:

(i) Materials supplied from the Department store to the Contractor at fixed rate as specified in schedule—A and

(ii) which price adjustment is done under sub clause 59/A below:—

Do = The average price of high speed diesel (HSD) fixed by I, O.C. for the district in which the work is to be carried out for the quarter in which the tenders were opened.

D = The average price of HSD fixed by the I.O.C. for the district in which the work is to be carried out for the quarter under consideration.

pd = Percentage of P.O.L. Component (specified in schedule) of the item. i.e., %

Conditions for variation except for Cement, Steel and Asphalt:

(1) No adjustment shall be done for the work done in the first twelve months of the time limit. Adjustment payable / recoverable will be calculated for the remaining work done during the subsequent period.

(2) The sum total price adjustment for A, B, and C will be limited to **5.00 %** of the estimated cost of work put to tender less the cost of Materials supplied from the Departmental store to the Contractor at fixed rate as specified in schedule A and cement, steel and asphalt valued at input rates mentioned as under on which the sanctioned estimate is based. When clause 60A(B1) 59A (b2) is not deleted.

Quantity Input rate per ton

Cement: M.T Rs. Per M.T.

Mild Steel: M.T Rs Per M.T.

HYSD Bars: M.T Rs..... Per M.T.

Asphalt: M.T Per M.T.

(3) The quarter referred to in the above formula shall mean the quarter of the calendar year January to March, April to June, July to September and October to December. Even if the tenders are opened in the middle of a quarter,

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the average index for the calendar quarter will be considered. The same principle would apply for identifying the quarter when the work is completed in the middle of calendar quarter.

(4) The value of extra items will be excluded for working out the value of 'R' in the above formula in all these cases.

(5) Intermediate payment of escalation to be made under this clause on each occasion shall be limited in such a manner that the total up to date payment of escalation will not exceed the proportionate percentage of the ceiling of calculation as related to the proportionate value of the contract cost.

(6) Price adjustment shall be applicable only for the work that is carried out within the stipulated time or extensions thereof as are not attributable to the contractor. No claim for price adjustment other than those provided herein shall be entertained.

(7) This clause will be applicable in respect of works which of the estimated cost put to tender is above Rs.25.00 lacs and the time limit involved is more than 06 months.

Clause 59A: Price Variation for Cement Steel and Asphalt brought by Contractor:

The amounts payable to the contractors for the work done involving use of cement, steel and asphalt when these

materials are not supplied by the Government as for schedule A shall be adjusted for increase or decrease in the rates of these materials as under:-

(4) Price variation for cement, steel and asphalt brought by the Contractor

The star rates for cement, mild steel, for steel and asphalt to be brought by the Contractor shall be considered Resupply Depot/ Go down as under.

QUANTITY STAR RATES

Cement: M.T Rs..... Per M.T. Month of

HYSD Bars: M.T Rs..... Per M.T. DTP Approved 12/14

TMT Bars: M.T Rs..... Per M.T.

Asphalt:VG30 M.T Rs..... Per M.T.

The above star rates are linked with Reserve Bank of India price index for steel and cement for the month in which the DTP s are approved. The star rate for asphalt will be based on the rate of Kayli Refinery prevailing on the date on which the estimate is prepared.

The month in which DTP are approved will be specified in the tender document

Star rates should be mentioned in the tender copy as under:-

I. For Cement, Price of cement from authorized dealer should be obtained for the month in which the DTP s are approved & mentioned as star rate before issue of tender copy.

ii. For steel & H.Y.S.D. bars, rate of SAIL should be obtained for the month in which the DTP s are approved and mentioned as star rate before issue of tender copy.

iii. For basic index specific month in which the DTP s are approved should be mentioned before issue of tender copy. The fluctuations in rates of cement and steel shall be adjusted in the bills payable to the contractors as under:

$$A = B \times \left\{ \frac{C1 - C0}{C0} \right\} \times D$$

C0

A = Difference of Amount payable or recoverable

B = Star rate of steel / cement / Asphalt

C1 = The (Quarterly) average corresponding index of steel, cement for the quarter under consideration (as published in monthly bulletin or Reserve Bank of India).

C0 = Price index of cement/steel for the month in which the DTSPs are approved published in monthly bulletin of Reserve Bank of India).

D = Qty. of cement/steel actually brought by the contractor on site of work and consumed in the work during the quarter duly supported with bill as recorded in cement consumption register or MB (for steel).

1. No Ceiling for escalation for difference in the cost of steel and cement will be applicable.

2. This clause shall be operative from the date of issue of work order and up to the expiry of original and extended time limit.

3. This formula shall be used individually for cement/mild steel and Tor steel for calculating adjustment.

4. The cement and steel brought by the contractor on site of work shall be used only after the same is tested by the Department.

5. If such materials are not found as per the requirement of I.S. specification, the same shall be removed by the contractor for which no claim shall be entertained.

6. This clause will be applied to the work irrespective of the cost of work (vide R & B D.G.R. No TNC /1089/ (4) /C dtd.21/10/05)

Conditions for variation in rates of asphalt only:-

1. The Contractor shall procure asphalt directly from refinery only.

2. The Contractor will not be furnished "P" form for purchase of quantity of asphalt required for this work.

3. The Contractor will have to produce in original all the gate passes issued by the refinery and also the bill in original to the Officer in-charge.

4. The Number of transport tanker carrying the asphalt shall be furnished by the contractor.

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5. The test certificate regarding the grade of asphalt as well as test result of asphalt from GERI Laboratory or other Laboratory approved by R & B Department shall have to be produced.

6. The difference between two different rates of purchase as per original bill produced and the star rate for the quantity of asphalt actually used in the work and work is completed during the original time limit and extended period (delay on part of Govt.) only will be paid / recovered. No escalation for the work estimated to cost up to 5.00 laes and remaining use of asphalt will be payable. (vide R & B D. Circular No STR /10/2001/M 3429 H did. 02/02/2007)

7. The difference will be payable/recoverable from the date of issue of work order and this price variation will not be subject to any ceiling.

8. No advance payment or secured Advance will be payable against asphalt.

9. This part of clause for price variation of asphalt will be applicable for works estimated to cost above Rs.5 Laes and involving use of asphalt.

CLAUSE 60: FENCING AND LIGHTING:

(a) The contractor shall, unless otherwise specified, be responsible for the proper fencing, lighting grading and taking of the necessary safety measures for all works comprised in the contract and for the proper provision of temporary road, way, foot-way, guards, fences, caution notices, etc. as far as the same may be rendered necessary by reasons of the work for the accommodation of workmen, foot passengers or other traffic and of owners and occupiers of adjacent property and the public and shall remain responsible for any accident that may occur on account of his failure to take proper & timely precautions.

(b) All the arrangements made for fencing and lighting shall be maintained by the contractor through the currency of the contract till the physical taking over of the work by department.

CLAUSE 61: LIABILITY OF ACCIDENTS TO PERSONS:

Responsibilities and liabilities fly the contractor under Workmen's Compensation Act are given in clause No.37 in addition following shall also apply:

(a) On the occurrence of an accident, which result in death of workmen employed by the contractor or which is so serious as likely to result in death of any such workmen the contractor, shall within 24 hours of happening of such Government against all loss or damage sustained by the Government resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or fines, if any, payable by the Government as a to the provisions of the said act in regard to such accident(s).

(b) In the case of an accident, in respect of which compensation may become payable under Workmen's Compensation Act. whether by the contractor or by the Government as principal Employer, it shall be lawful for the Officer-in-charge to retain out of money due and payable to the Contractor, such sum or sum of money as may, in the opinion of the Officer-in-charge, be sufficient to meet such a liability, the opinion of the Officer-in-charge shall be final regard to all matters arising under this clause.

CLAUSE 62: ACCESS TO SITE AND WORK ON SITE:

The Officer may, if he considers fit form to time, enter upon any land(s) which may be in possession of the contractor this contract for the purpose of executing any work not included in this contract by agents or by other contractors, at this opinion and the contractor shall, in accordance with the requirements of the Officer-in-charge, afford all reasonable facilities for execution of the work including occupation of lands by structure or otherwise for any other contractor employed by the Government and his workmen for the workmen of the Government who may be employed in the execution on or near the site of the work not included in the contract or of any contract in connection with or ancillary to the work and in default, the contractor shall be liable to the Government for any delay or expenses incurred by reason of such default. Provided always that if damage arising. Make a statement of the same to the Officer-in-charge who shall from time to time, assess the value in his judgment of such damage and goes Government shall from time to time pay to the contractor the amounts (if any) accepted as justified by the Officer-in-charge:

CLAUSE 63: REPORTS REGARDING LABOUR:

The Contractor shall submit the following reports to the Officer-in-charge:

(I) A daily report in the suitable form of the strength of labor, both skilled and unskilled employed by him on the work(s). The contractor shall increase or decrease the strength both skilled and unskilled. if directed by the Officer-in-charge. The submission of such reports shall not, however, relieve the contractor of his responsibilities and duties regarding progress or any other obligation under the contract

(ii) A classified weekly return in the suitable form of the number of people employed on the works during the preceding week.

(iii) A weekly medical report in the suitable form showing the health of the contractor's camp. The number of persons ill or incapable and the nature of their illness.

(iv) A report of any accident, which may have occurred, to be sent within 24 hours of the occurrence.

(v) Such other report as may be prescribed.

CLAUSE 64: Treasure Trove:

In the event of discovery by the contractor or his employees, during the progress of work of any gold, silver, oil or other minerals of any description and precious stones, treasures, coins, antiques, relic, fossils or other articles or value of interest whether geological, archaeological or any other such treasure & other things shall be deemed to be the absolute property of the Government and the contractor shall duly preserve the same to the satisfaction of the Officer-in-charge, from time to time, and relieve the same to such persons as the Officer-in-charge may appoint.

The contractor shall take all reasonable precautions to prevent his workmen other person from removing or damaging any such articles or things, immediately after the discovery thereof and before removal acquaint the Officer-in-charge with the discovery and carry out his orders for the disposal of the same.

CLAUSE 65: Indemnity:

The contractor shall indemnify the Government against all actions, suits, claims & demands through or made against the Department in respect of work of this contractor against any loss damage to Department in consequence of any action or suit being brought against the contractor for anything done or omitted to be done in execution of the work of this contract.

CLAUSE 66: Insurance of Labor:

The contractor shall be responsible to arrange for insurance of all labor, skilled and unskilled workers, supervisors, employed by him as per labor regulation of the State.

CLAUSE 67: Setting Out:

The contractor shall be responsible for the true and proper setting out of the works and the correctness of positions, levels, dimensions and alignments of all parts of the work and for the provisions of all necessary instruments, appliance and labor in connection therewith. if, at any time during the progress of the work, any errors, appear or arise in the position, levels, dimensions or alignments of any part of the work, the contractor, on being required to rectify such errors by the Officer-in-charge shall at his own expense do so to the satisfaction of the Officer-in-charge. if, however, such error is based on incorrect data supplied in writing by the Officer-in-charge, the expenses of rectifying the same shall be borne by the Department. The checking of and setting out of any line or level by the Officer-in-charge or his representative shall not in any way, relieve the contractor of his responsibilities for the correctness of the error. The contractor shall carefully protect and observe all bench-mark, site-nails, pegs and other things used in setting out of the work(s).

CLAUSE 68: Cement Register:

A register in the prescribed form showing day-to-day receipt, consumption and balance of cement on site of work will be maintained by the Department, which shall invariably be signed daily by the contractor or his authorized representative in token of its correctness.

CLAUSE 69: Materials and Works Test Register:

A register in the prescribed form showing day-to-day receipt, consumption and balance of cement on site of work by the Department and every entry thereof shall invariably be signed by the Contractor or his authorized representative in token of its correctness.

CLAUSE 70: Progress Schedule:

(a) The contractor shall furnish within one month (unless extended by the Officer-in-charge) of the start of the work, the progress schedule in quadruplicate indicating the date of starting. The monthly progress expected to be achieved and the anticipated completion date of each major item of work to be done by him, also indicating dates of, procurement and setting up the materials, plants and machinery. The schedule should include a statement of proposed general and detailed arrangements for carrying out works, and of item, order and manner in which it is proposed that these shall be executed. The practice to the achievement towards completion of the working the time limit and of the particular items on the dates specified in the contract and shall have the approval of the Officer-in-charge. Further the dates for the progress, as in this schedule shall be adhered to.

(a) in case it is sound necessary, at any stage to alter the schedule. the contractor shall submit in good, time a revised schedule incorporating necessary modification proposed and get the same approved from the Officer-in-charge. No revised schedule shall be operative without such acceptance in writing. The Officer-in-charge is further empowered to ask for more detailed schedule or schedule. any by week, for any item or items and the contractor shall supply the same as and when asked for.

(b) The Officer-in-charge shall have, at all times, the right, without in any way vitiating this contract forming grounds for any claim, to alter the order of the work of any part thereof and the contractor shall after receive such direction, proceed in the order directed. The contractor shall also revise the progress. Schedules accordingly and submit four copies of the revised schedule to the Officer-in-charge within seven days of the said Officer's direction to alter the order of works.

(c) The contractor shall furnish sufficient plant, equipment and labor and shall work such hours and shifts as maybe necessary to maintain the progress of the work as per approved progress-schedule, the working and shift shall comply with all the Government regulations in force and shall be such, as may be approved by the Officer in charge and the same not be varied without the prior approval of Officer-in-charge.

(d) The contractor shall from time to time. as may be required by the Officer-in-charge. furnish the Officer-in-charge a statement in writing of the arrangements he proposes to adopt for the execution of this contract and the Officer-in-charge may, if he considers necessary at any time advise alternation in the same. which the contractor shall adopt on notice thereof.

(e) The progress-schedule(s) shall be in the form of progress chart, forms, statements and/ or reports as may be approved by the Officer-in-charge.

The contractor shall submit four copies showing the progress of the work in the form of a chart etc. at periodical intervals as may be specified by Officer-in-charge.

(f) The approval of the progress schedules by the Officer-in-charge shall not relieve the contractor of schedule required by the Officer-in-charge shall not entitle the contractor to any extra payment.

CLUASE 71: Secured Advance to Contractor:

~~(1) Before any secured advance for metal is paid to the contractor, the metal shall have to be tested for its quality in the laboratory. Contractor's request for such secured advance will be considered only after test results of metals are received and results are satisfactory. (As per Government circular No. SSR 1070 1B 191 22 S of 5 3 92)~~

~~(2) Advance on security of materials brought to site will not exceed 75% of the value (as assessed by the Executive Officer) of such material provided that they are of imperishable nature.~~

~~(3) Recovery of advances will not be postponed until the whole of the work entrusted is completed Secured advance will be recovered within 3 months in which secured advance is given even if material is not utilized in the work.~~

~~(4) Secured advance is permissible on materials which are all actually brought on site and are required by the contractor for use on items of works for which rates for finished work have been agreed upon.~~

~~(5) Secured advance will be given only on materials for which the full value is paid by the contractor to the seller.~~

ક) જ્યારે સિક્યોર્ડ એડવાન્સ આપવા સરકારી માલ સામાનમાં કામની સાઈટ ઉપર ઘટ માલુમ પડે ત્યારે તેનો અહેવાલ કરવાની જવાબદારી ઉજારદારની રહેશે. આવી ઘટની જાણ ઉજારદાર ધ્વારા હવાલાના ઉજારદારને તાત્કાલીક કરવાની રહેશે અને જો આવી જાણ ઉજારદાર ધ્વારા હવાલાના ઉજારદારને તાત્કાલીક નહીં કરવામાં આવે તો કામની સાઈટ ઉપર માલુક પડેલ ઘટ કે ચોરીના બનાવમાં ઉજારદાર મોટે પણ પશ્ચાત્ત છે તેમ મણી તેની સામે પગલાં લેવામાં આવશે. ઉપરાંતકામ ઉપરના તાંત્રિક કર્મચારીઓ જેવા કે કારકુન, વર્ક આસીસ્ટન્ટ જેઓની પણ સીપોર્ટ કરવાની જવાબદારી છે તેઓએ માલ સામાન કામની સાઈટ ઉપરથી નજામ તે જોવાનું રહેશે તેમની જાણ બહાર જો આ માલસામાન ઉપડી જાય તો તેવા બનાવ બંને અગ્ર દિવસમાં સીપોર્ટ કરવામાં નિષ્ફળ જશે તો તેઓ સામે પણ જવાબદારી નક્કી કરવા પગલા લેવામાં આવશે (મા.મ. વિભાગ ઠરાવ ક્રમાંક પી. ૬બલ્યુ. ડી એમ ૧૦૯૦ યુ.ઓ. ૧૩(૫), તા. ૨૪/૧૦/૯૦.)

ઁ) જ્યારે કોન્ટ્રાક્ટર તારણવાળી પેશગી લેવા ઉચ્છેતો હોય ત્યારે તેને અરજી કરી નમુના ૩૧ માં ગીરોખત કરવાનો રહેશે. આ અરજી જોઈ માલસામાનની ખરીદીનું બીલ અથવા ઉ-વોઉસ/ ડીલીવરી ચલણ અરજી સાથે રજુ કરવાનું રહેશે. આવા ગીરોખતથી સરકારને તારણવાળા માલસામાન ઉપર 'લીઅન' પ્રાપ્ત થશે અને કોન્ટ્રાક્ટર કામ ખોરંબે પાડે, માલસામાનમાં ઘટ દુરુપયોગ કે ચોરીદારી તથા ચલામતીની વ્યવસ્થાના અભાવે ખોટ કે ખર્ચ થાય તે સામે સરકારને રક્ષણ મળશે.

ૃ) રૂપિયા ૫૦,૦૦૦ થી વધુ રકમ સિક્યોર્ડ એડવાન્સ આપવાનું હોય ત્યારે આવા માલસામાનની પુરેપુરી ચકાસણી કરાવવાની જવાબદારી ઉજારદારની રહેશે. (R. & B.D.G.R.No. P.W.M. 1090 40 13(5) C, dated 24 4 92.)

ૃ) સિક્યોર્ડ એડવાન્સની રકમ જેટલી બેંક એરેન્ડી ઉજારદારે રજુ કર્યા બાદજ સિક્યોર્ડ એડવાન્સ ચુકવવામાં આવશે (મા.મ. વિભાગ ઠરાવ ક્રમાંક પી. ૬બલ્યુ. ડી એમ ૧૦૯૦ યુ.ઓ. ૧૩(૫) સ, તા. ૪/૧૦/૯૦.)

CLAUSE 72: Advance Payment :

Advance payment for the work done, but not measured, may be made upto 80% of the approximate value of the work done as shown in the progress reports of approximate measurement Sheets with location furnished by the sub Divisional Officer subject to the following conditions:-

(1) That in the case of advance payment on the item of earth work payment should be made on the basis of detailed measurement except during the monsoon period (June to September).

(2) That the detailed measurements should be recorded within the month from the date of payment of the bill incorporating the advance payment. However in the case of sectional measurements of earth work, detailed measurement should be recorded within three months instead of one month stipulated above.

~~(3) If , on recording of the detailed measurements , it is found that the advance payment was made for more amount than the value of work now measured, excess payment shall be refunded forthwith by the contractor on demand, if it cannot be adjusted from the bill in which the item/s on which advance payment was given are recorded by measurements.~~

CLAUSE 73 - NIL

CLAUSE 74 - NIL

CLAUSE 75:

Before starting the work, the contractor will have to obtain the license from the **District Assistant Labor Commissioner under the Contract Labor (Regulation and Abolition) Act. 1970** and contract Labor (regulation and Abolition) Gujarat Rules 1972 after paying necessary fees and deposit on the basis of the number of labors to be employed on the work and will have to supply two true copies of the said license to the Deputy Chief Fire Officer before the work is started.

CLAUSE 76: All the testing charges shall be borne by the contractor

The Officer in charge will get the cement and steel tested in laboratories of G.E.R.I. Officering Colleges, Polytechnics, or any other laboratories approved by R & B or Water Resources Department or Industries Department and the test results of these Laboratories will be binding to the Contractor about suitability of use of materials (G.R. No R & B TNC /1088 /IB / 220 / 18 - Dated 31-3-05)

CLAUSE 77: Recovery of sales tax (GST)

The contractor must have a valid GST Registration No. His quoted rates shall be inclusive of all taxes including Services Tax(GST) . The contractor shall indicate in the running accounts bills / final bill the amount of the Tax separately while raising the bills to BMC. The contractor shall ensure compliance with GST law & procedure and to produce proof of service tax registration & payment of service tax whenever required by BMC. The amount of GST shall not be paid extra.

ANNEXURE – 1

(Referred to in Condition No.-2 General Rules and Direction for the guidance of Contractors.)

To
The EXECUTIVE ENGINEER,
Building Department Bhavnagar.

Details regarding our partners our Company (in the case of limited Company) Names, address(es), telephone numbers(s) income tax etc. are as under:

Sr. no	Name(s) of Person/Partner Director of the company	Full address of the place of business (with pin code)	Telephone No.(s) (office)	Residential address(es)	(Resin) Telephone No.(s)	Full address of income tax office ward was income tax return is filed
1	2	3	4	5	6	7

I/We hereby agree to intimate to you about change if any, in the above-mentioned address(es) and telephone No. (s) within Fifteen days of its occurrence till may/our deposit, for the said work paid by me/us is not returned to me/us.

PLACE:

DATE:

Signature of Tenderer

ANNEXURE - 2

PERFORMANCE BOND

(See clause no. 1)

(The date of this bond must not be prior to the date of the instrument in connection with which it is given)

Principal (Contractor)

Surety (Bank)

Sum of bond (express in words and figures)

Contract No. and date of Contract

KNOW ALL MEN BY THESE PRESENT, THAT WE, THE PRINCIPALS AND SURETY : Above named are held firmly bound unto the hereinafter called the Employer in the amount stated for payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors jointly and severally, firmly by these presents subject to the provisions of which the aforesaid Contractor on demand and without demand on a claim being made by the Employer.

THE CONDITION OF THIS OBLIGATION IS SUCH : That whereas the principals have entered in to a contract with the Employer numbered and dates as shown above and hereto attached for the execution of work

NOW THEREFORE, if the Principal shall well and truly perform and fulfill at the undertakings, covenants, terms, conditions and agreements of said contract during the original terms of the said Contract and any extensions thereof that may be granted by the Employer with or without notice to the surety and during the life or any guarantee required under the contract and shall also well and truly perform and fulfill all the Undertakings, covenants terms, conditions and agreements of any all duty and unduly authorized modifications of said Contract that may hereafter be made, notice of which modifications to the surety being hereby waived or shall pay over, make good and reimburse to the Employer all loss and damages which the employer may sustain by reason of failure or default on the part of said Principal so to do.

We further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the validity of the said Contract, and that it shall continue to be enforceable till all the dues of the employer under or by virtue of the Contract have been fully paid and its claims satisfied or discharge or till the Employer certifies that the terms and conditions and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the..... we shall be discharged from all liability under this guarantee thereafter.

IN WITNESS WHERE OF, the above bounded parties have executed this instrument under their several seals on the date indicated above the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representatives, pursuant to authority of its governing body.

In the presence of witness

Principal

1.....as to(seal)

2.....as to(seal)

3.....as to(seal)

4.....as to(seal)

by..... affix Corporate Seal

Attested

Corporate surety

Business address _____

Affix bycorporate Seal

Title

For and on behalf of the Employer

ANNEXURE - 3
LIST OF WORKS ALREADY COMPLETED BY THE TENDERER

Serono.	Name of work	Place	Cost on completion	Time taken in months To complete the work	Remarks
1	2	3	4	5	6

Note: Necessary certificate from office concerned shall be attached with the tender

ANNEXURE - 4

LIST OF PLANT AND MACHINERY IN GOOD WORKING ORDER AVAILABLE WITH TENDERER

Sr. No.	Plant or Machinery	Location	Age of Machinery	Make	Capacity	Approximate Value	Remark
1	2	3	4	5	6	7	8

ANNEXURE - 5

DECLARATION REGARDING WORKS ON HAND WITH TENDERER

Sr. No.	Name of work	Place	Estimated Cost	Date of issue of work order	Stipulated period of completion	Amount of work done on date of filling tender	Brief details of delay if any	Remark
1	2	3	4	5	6	7	8	9

Note 1 : Amount of work in column 6 should be given up to the month previous to the month in which tenders are invited.

Note 2 : Necessary certificate from the officer concerned shall be attached with the tender.

ANNEXURE – 06 (MANDATORY IN THE CASE OF JOINT VENTURE)

(NOTARIZED) 300 RS . NON JUDICIAL STAMP PAPER

DRAFT

MEMORANDUM OF UNDERSTANDING

This MOU is executed on date/month/ 2024 between Principle Civil contractor M/s (civil contr)through its Authorized Person who confirms he duly authorized to sign on behalf of M/s(civil contr)

Fire and Safety contractor (installation testing commissioning and 3 year O & M with defect liability work of all the fire and safety system) M/s.....fire and safety contr.....through its Authorized person who confirms he is duly authorized to sign on behalf of M/s.....fire and safety contr.....

Both parties are desirous to participate in respect to the tender invited by Bhavnagar Municipal Corporation.

For the works:

“ Providing fire safety facility at Various Municipal Buildings of Bhavnagar Municipal Corporation “

Whereas both parties are interested in bidding for the above-mentioned tender and subsequently executed the project in accordance with the scope briefly describe in the following paragraphs of this MOU:

1. Fire and Safety system contractor: Name of firm M/s
 - (a) To carryout Fire and Safety system work : Providing, supplying, installing, testing commissioning and AMC work with defect liability for 03 years and taking NOC etc miscellaneous works as per tender terms condition and B.O.Q of Fire and Safety system part of tender at proposed sites.
 - (b) Fire and Safety system contractor Fulfils all the Qualifying Criteria mentioned in the tender documents to be a Nominated as a Filtration Plant Contractor.
 - (c) Defect liability as per tender terms and condition of Fire and Safety system of tender.
 - (d) Fire and Safety system contractor will be wholly responsible for quality of Fire and Safety System of contract and for rectification of defective work up to defect liability period.
2. Civil Contractor : Name of Principal Contractor. M/s Civil contractor.....

- (a) To carry out civil work as per tender terms and condition of part of civil work at proposed site.
- (b) Stand guarantee for all the materials and works executed by them as per tender.
- (c) Execution of Civil Works and other works as mentioned in the tender documents.
- (d) Liaison & Co-ordinations with Fire and Safety system Contractor and AMC.
- (e) Principal Contractor sublet Fire and Safety work only to party mentioned in Memorandum of Understanding (M.O.U) . No. Other party is allowed to carry out Fire and Safety system work other than mentioned in the M.O.U.

By virtue of being designated as the Principal Contractor, it has been decided that M/s... Civil Contra..... would submit the tender for the project and M/s ... Fire and safety contr.....shall support for technical execution for Fire and Safety system work and other relevant systems for Fire and Safety Systems.

All Deposits like EMD/Security Deposited will be made by the Principal Contractor name M/s.....Civil Contr.....and the payment will be made by Bhavnagar Municipal Corporation directly to the Principal Contractor against the Bill raised by them.

In no case, for whatever , it may be, Bhavnagar Municipal Corporation shall be free from any liabilities (Financial specifically) with the Fire and Safety System Contractors.

This MOU is made at location..... on date / month 2024.

Principal Contractor-Civil Contractor	Fire and Safety Contractor
Name :	Name :
Sign :	Sign :
Stamp:	Stamp:
Authorized person	Authorized person

SCHEDULE – A :

Schedule showing (approximate) the materials to be supplied from the Public works store for work contract to executed and the rates at which they are to be charged for

Particulars	Approximate quantity	Rate at which the materials will be charged to the contractor		Place of delivery
1	2	3	4	5
	----- Nil -----	Unit	Rate in Rupees	

Note 5: The person or firm submitting the tender should see that the rates in the above schedule are filled up by the Officer-in-charge the issue of the form prior to the submission of the tender.

Note 6: Empty cement bags of cement if supplied by the Government will be the property of the contractor and no recovery for non-return will be made

Notes 7: Store to be supplied to contractors for a work free of cost should be mentioned in Schedule 'A' in addition to schedule 'B' and the specification attached to the contract agreement form.

SCHEDULE ' B'
Memorandum showing items works to be carried out:

items No.	Quantities estimated out or less	Item of work	Tendered Rates	Unit	Total amount according to estimated quantities
1	2	3	4	5	6
		As per Schedule – B and NIT			

(A) Total Tendered amount Rs.....

(B) Rebate on above tendered amount (if any) % (In figure) Rs.....

(..... in words)

(C) Net tendered amount (A – B) Rs.....

In words (Rupees.....)

Notes 1 - All work shall be carried out as per Public Works Department Handbook and other specifications of Division or as directed.

Notes 2 - All the columns are Schedule should be filled in ink and the total of the entries in the last column should be struck by the contractor under his signature.

Notes 3 - Rates quoted include clearance of site (prior commencement of work and at its close) in all respects and hold good for work under all conditions, site, moisture, weather etc.

Note 4 - To be continued on additional sheets, if found necessary.

Signature of contractor

Executive Engineer
Building Department,
Bhavnagar Municipal Corporation,

SCHEDULE - C

(See clause: No. -2)

Time Schedule, for completion of different designated parts of the work and rate of liquidated to be paid by the Contractor, if he fails to complete the part of work within stipulated time limit is as detailed below:

Time Schedule of Completion

Percentage of time of the total time limit	Percentage of work	Rate of liquidated damages per day
1	2	3
Building work/Fire and safty work		
25%	10%	0.10 % of contract value
50%	40%	0.10 % of contract value
75%	80%	0.10 % of contract value
100%	100%	0.10 % of contract value

(As corrected vied B & CD GR. No. TNC - 1091 - IB - 10/(11) - C , dated 29-6-92)

Signature of contractor

EXECUTIVE ENGINEER
Building Department,
Bhavnagar Municipal Corporation,
Bhavnagar

-:SPECIAL CONDITIONS:-

1. The bidder to note the following qualifying criteria for bidding. For **Similar means "High-Rise Building Work with Fire and Safty sytem installation work"** :

Note:

Joint Vencture is allowed if MOU is submitted by JV partners. (as per Draft MOU mentioned in tender ANNEXURE-06 : MANDATORY)

I) Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost. As a Proof for the same a certificate from registered chartered accountant shall have to be produced.

*ii) Experience of having successfully completed **similar** works during last **5 years** ending last day of month previous to the one in which applications are invited should be either of the following: -*

a. Three similar completed works costing not less than the amount equal to 40% of the estimated cost.

or

b. Two similar completed works costing not less than the amount equal to 50% of the estimated cost.

or

c. One similar completed work costing not less than the amount equal to 80% of the estimated cost.

2. A certificate in Form no 3A of the Competent Officer of the rank not less than **Chief Fire Officer/Executive Engineer regarding completing a similar nature** of work shall have to be produce by the bidder and the same shall be scanned and uploaded along with the bid at the time of submitting bid and with submission of hard copy. A tender without the certificate shall be considered non responsive and will not be opened (Price Bid).
3. For this contract in form B-2 the Government means Bhavnagar Municipal Corporation, Bhavnagar.
4. **The Bank guarantee for the Security deposited shall be submitted for the period of 12 month + Defect Liability period for the project and plus three months.**
5. The bidder shall have to produce valid certificate of registration for having GST, PF , ESIC .
6. 1% from every running bill shall be deducted towards labor chess.
7. The time for completion of the project shall be 12 Months from the issue of LOI/work order.
8. **The Defect Liability period for the project shall be **Three year** from the work completion certificate issued by Officer in charge.**

9. For the Electrical work the item is lump sum completed item and the agency has to quote accordingly. The contractor shall have to prepare and submit complete electric wiring (including installation of fittings and figures) diagram in conformity with the tender requirements, considering the lighting requirement, air conditioning, telephone connection, and lane cable for computer for public building and submit the same for approval; on the approval of the same, the work shall be carried out accordingly. For this work all the details shall have to be derived as per the relevant provision of IS code and NBC for public building. This should also include water pump procurement and installation on the underground tank with pump room, for protection from weather. This work includes Procurement, Installation and commissioning and testing of the complete concealed and open electro- mechanical items, fittings and figures.
10. The cost of the permeant electric power connection shall be borne by the Corporation; however, the contractor shall liaison for release of connection. The authority will extend every support for the application as well as to produce and submit the documents necessary for approval.
11. The specification for any item if not covered in the tender than it should be as decided by officer in charge.
12. The contractor shall have to follow test schedule as per relevant IS standard even if not specify otherwise in the tender, at his own cost.
13. The BMC have its Fire Consultant for the implementation of this work. The cost of consultant shall be borne by BMC.
14. The drawings attached with the tender are for the reference of the work, the detail drawings if available and available structural design will be supplied by the BMC and the work shall have to be carried out accordingly and as per instruction of EIC in all stages of the work. The quantities may vary at the time of execution and the agency is bound to execute the same as per the provisions of NIT.
15. All the material shall be first got approved from the EIC before procurement or use.
16. The General frequency for testing shall be as Directed by Officer Incharge.
17. Bidder must submit Employee Provident fund number, GST detail.
18. Firm workers having education in field of Fire & Safety/ Disaster Management
19. It is the responsibility of agency to get fire NOC from respective department and submit the same to this office, BMC, where NOC is not required as per norms the respective "self declaration" have to submit by Contractor.
20. Joint venture is allowed for MOU partners. Bidder should submit MOU with this bid submission. MOU should be as per draft mentioned in this tender in ANNEXURE -06 .

Signature of Agency

EXECUTIVE ENGINEER

Building Department,
Bhavnagar Municipal Corporation,
Bhavnagar

SCHEDULE - 1 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S DIFFERENT BUILDINGS

1...NAME OF PROJECT:- AKHILESH CIRCAL COMMUNITY HALL

DOCUMENT:- FIRE FIGHTING WORKS

NO.	Item Description	Qty.	Unit	Make/as per Approved Make list	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 1 220 lpm at 45 m. head conforming to IS standards. b) JOKEY PUMP Motor with suitable 180 lpm at 75 m HP with synchronous speed Suitable for operation on 415 volts, 3 phase 50 Hz. AC.	1	Set	Lubi/ Kilosker/TE XMO	1,80,000	1,80,000.00
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	1	Set	L&T/ cimens	26,000	26,000.00
3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 316 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	2	No.	H-guru	1,750	3,500.00
4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	56	Rmt.		1,342	75,152.00
	c) 80 mm dia	3	Rmt.		992	2,976.00
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	0	Rmt.		634	-
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	12	Rmt.		315	3,780.00
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	3	Nos.		3,175	9,525.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV		Nos.	Sant/ Zoloto		-
	a) 200 mm dia.	0	Nos.		10230	-
	c) 100 mm dia.	3	Nos.		5230	15,690.00
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	4	Nos.	Swati/ Newage/ISI	4,610	18,440.00
8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	4	Nos.	Swati/ Newage/ISI	1,650	6,600.00
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	4	Nos.	Swati/ Newage/ISI	4,423	17,692.00

10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	4	Nos.	Swati/ Newage/ISI	1,675	6,700.00
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	4	Nos.	Swati/ Newage/ISI	6,170	24,680.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	5	Nos.	Sant/ Zoloto	1,550	7,750.00
13	Supply, installation, testing and commissioning of Cast Iron FOUR Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	6,845	6,845.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendent Sprinkler 57°C standard response (K-80)	0	Nos.	HD/ Newage	310	-
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	4	Nos.	Agni/ASES	650	2,600.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	150	Mtrs.	Polycab	125	18,750.00
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer)	4	Nos.	Agni/ASES	650	2,600.00
	b) Hooters (FR-Polymer)	4	Nos.	Agni/ASES	550	2,200.00
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	120	Mtrs.	Polycab	110	13,200.00
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	5	Nos.	Kanex/ISI	4,700	23,500.00
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	5	Nos.	Kanex/ISI	1,710	8,550.00
	d) Manual Fire Alarm Panel	1	Nos.	Agni	5,800	5,800.00
20	UNDER GROUND WATER TANK	25000	Liter		15	3,75,000.00
21	NOC Changes	1	No		8,500	8,500.00
	TOTAL AMOUNT WITHOUT GST					8,67,375
1	AKHILESH CIRCAL COMMUNITY HALL				Amount Rs.	8,67,375.00

2...NAME OF PROJECT:- BAL VATIKA						
DOCUMENT:- FIRE FIGHTING WORKS						
NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 1 220 lpm at 45 m. head conforming to IS standards. b) JOKEY PUMP Motor with suitable 180 lpm at 75 m HP with synchronous speed Suitable for operation on 415 volts, 3 phase 50 Hz. AC.	1	Set	Lubi/ Kilosker/TE XMO	1,80,000	1,80,000.00
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	1	Set	L&T/ cimems	26,000	26,000.00
3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 316 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	2	No.	H-guru	1,750	3,500.00

4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	46	Rmt.		1,342	61,732.00
	c) 80 mm dia	12	Rmt.		992	11,904.00
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	0	Rmt.		634	-
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	12	Rmt.		315	3,780.00
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	3	Nos.		3,175	9,525.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV		Nos.	Sant/ Zoloto		-
	a) 200 mm dia.	0	Nos.		10230	-
	b) 150 mm dia	3	Nos.		5230	15,690.00
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	4	Nos.	Swati/ Newage/ISI	4,610	18,440.00
8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	4	Nos.	Swati/ Newage/ISI	1,650	6,600.00
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	4	Nos.	Swati/ Newage/ISI	4,423	17,692.00
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	4	Nos.	Swati/ Newage/ISI	1,675	6,700.00
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	4	Nos.	Swati/ Newage/ISI	6,170	24,680.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	5	Nos.	Sant/ Zoloto	1,550	7,750.00
13	Supply, installation, testing and commissioning of Cast Iron FOUR Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	6,845	6,845.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of SMOKE DETECTOR	8	Nos.	HD/ Newage	1,600	12,800.00
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	4	Nos.	Agni/ASES	650	2,600.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	150	Mtrs.	Polycab	125	18,750.00
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer)	4	Nos.	Agni/ASES	650	2,600.00
	b) Hooters (FR-Polymer)	4	Nos.	Agni/ASES	550	2,200.00
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	120	Mtrs.	Polycab	110	13,200.00

18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	5	Nos.	Kanex/ISI	4,700	23,500.00
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	5	Nos.	Kanex/ISI	1,710	8,550.00
	d) Manual Fire Alarm Panel	1	Nos.	Agni	5,800	5,800.00
20	UNDER GROUND WATER TANK	30000	Liter		15	4,50,000.00
21	NOC Charges	1	No		3,500	3,500.00
	TOTAL AMOUNT WITHOUT GST					9,45,683
2 BALVATIKA						9,45,683.00

NAME OF PROJECT:- BMC MAIN BUILDING						
DOCUMENT:- FIRE FIGHTING WORKS						
NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 1 220 lpm at 45 m. head conforming to IS standards. b) JOKEY PUMP Motor with suitable 180 lpm at 75 m HP with synchronous speed Suitable for operation on 415 volts, 3 phase 50 Hz. AC.	0	Set	Lubi/ Kilosker/TE XMO	1,80,000	-
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	0	Set	L&T/ cimens	26,000	-
3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 310 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	0	No.	H-guru	1,750	-
4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	0	Rmt.		1,342	-
	c) 80 mm dia	125	Rmt.		1,100	1,37,500.00
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	415	Rmt.		750	3,11,250.00
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	2100	Rmt.		360	7,56,000.00
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	0	Nos.		3,175	-
	c) 80 mm dia	5	Nos.		2,495	12,475.00
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV a) 200 mm dia.		Nos.	Sant/ Zoloto		-
	b) 150 mm dia	0	Nos.		10230	-
	c) 100 mm dia.	0	Nos.		5230	-
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	4,610	-
8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	0	Nos.	Swati/ Newage/ISI	1,650	-

9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	0	Nos.	Swati/ Newage/ISI	4,423	-
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	1,675	-
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	0	Nos.	Swati/ Newage/ISI	6,170	-
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	0	Nos.	Sant/ Zoloto	1,550	-
13	Supply, installation, testing and commissioning of Cast Iron FOUR Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	0	No.	Swati/ Newage	6,845	-
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	0	Nos.	Sant/ Zoloto	1,345	-
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendent Sprinkler 57°C standard response (K-80)	630	Nos.	HD/ Newage	180	1,13,400.00
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	0	Nos.	Agni/ASES	650	-
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	0	Mtrs.	Polycab	125	-
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer)	0	Nos.	Agni/ASES	650	-
	SMOKE DETECTOR	180	Nos.	Agni/ASES	1,600	2,88,000.00
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	2600	Mtrs.	Polycab	125	3,25,000.00
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	0	Nos.	Kanex/ISI	4,700	-
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	0	Nos.	Kanex/ISI	1,710	-
	d) Manual Fire Alarm Panel	1	Nos.	Agni	22,000	22,000.00
20	NOC Charges	1	No		50,400	50,400.00
	TOTAL AMOUNT WITHOUT GST					20,16,025
3 BMC MAIN BUILDING						20,16,025.00

NAME OF PROJECT:- MULTI LEVEL CAR PARKING						
DOCUMENT:- FIRE FIGHTING WORKS						
NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 2 280 lpm at 55 m. head conforming to IS standards. b) JOKEY PUMP Motor with suitable 180 lpm at 75 m HP with synchronous speed Suitable for operation on 415 volts, 3 phase 50 Hz. AC.	1	Set	Lubi/ Kilosker/TE XMO	2,80,000	2,80,000.00
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	1	Set	L&T/ cimens	32,000	32,000.00
3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 310 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	2	No.	H-guru	1,750	3,500.00

4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	125	Rmt.		1,342	1,67,750.00
	c) 80 mm dia	45	Rmt.		992	44,640.00
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	620	Rmt.		634	3,93,080.00
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	1680	Rmt.		315	5,29,200.00
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	6	Nos.		3,175	19,050.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV		Nos.	Sant/ Zoloto		-
	a) 200 mm dia.					
	b) 150 mm dia	0	Nos.		10230	-
	c) 100 mm dia.	6	Nos.		5230	31,380.00
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	14	Nos.	Swati/ Newage/ISI	4,610	64,540.00
8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	14	Nos.	Swati/ Newage/ISI	1,650	23,100.00
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	14	Nos.	Swati/ Newage/ISI	4,423	61,922.00
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	14	Nos.	Swati/ Newage/ISI	1,675	23,450.00
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	14	Nos.	Swati/ Newage/ISI	6,170	86,380.00
12	Supply, installation, testing and commissioning of SS Ball Valve .					
	a) 25mm dia	16	Nos.	Sant/ Zoloto	1,550	24,800.00
13	Supply, installation, testing and commissioning of Cast Iron FOUR Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	6,845	6,845.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads .					
	a) Pendent Sprinkler 57°C standard response (K-80)	486	Nos.	HD/ Newage	310	1,50,660.00
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	6	Nos.	Agni/ASES	650	3,900.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	300	Mtrs.	Polycab	125	37,500.00
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items					
	a) Manual call point (FR-Polymer)	6	Nos.	Agni/ASES	650	3,900.00
	b) Hooters (FR-Polymer)	6	Nos.	Agni/ASES	550	3,300.00
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	200	Mtrs.	Polycab	110	22,000.00
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	12	Nos.	Kanex/ISI	4,700	56,400.00

19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	12	Nos.	Kanex/ISI	1,710	20,520.00
	d) Manual Fire Alarm Panel	1	Nos.	Agni	4,635	4,635.00
20	UNDER GROUND WATER TANK	150000	Liter		15	22,50,000.00
21	NOC Charges	1	NO		68,750	68,750.00
	TOTAL AMOUNT WITHOUT GST					44,14,547
4 MULTILEVEL CAR PARKING						44,14,547.00

5..NAME OF PROJECT:- VALKET GATE						
DOCUMENT:- FIRE FIGHTING WORKS						
NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 1220 lpm at 45 m. head conforming to IS standards. b) JOKEY PUMP Motor with suitable 180 lpm at 75 m HP with synchronous speed Suitable for operation on 415 volts, 3 phase 50 Hz. AC.	1	Set	Lubi/ Kilosker/TE XMO	1,80,000	1,80,000.00
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	1	Set	L&T/ cimens	26,000	26,000.00
3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 316 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	2	No.	H-guru	1,750	3,500.00
4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	36	Rmt.		1,342	48,312.00
	c) 80 mm dia	3	Rmt.		992	2,976.00
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	0	Rmt.		634	-
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	12	Rmt.		315	3,780.00
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	1	Nos.		3,175	3,175.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV a) 200 mm dia.		Nos.	Sant/ Zoloto		-
	b) 150 mm dia	0	Nos.		10230	-
	c) 100 mm dia.	1	Nos.		5230	5,230.00
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	2	Nos.	Swati/ Newage/ISI	4,610	9,220.00
8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	2	Nos.	Swati/ Newage/ISI	1,650	3,300.00
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	2	Nos.	Swati/ Newage/ISI	4,423	8,846.00
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	2	Nos.	Swati/ Newage/ISI	1,675	3,350.00

11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	2	Nos.	Swati/ Newage/ISI	6,170	12,340.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	3	Nos.	Sant/ Zoloto	1,550	4,650.00
13	Supply, installation, testing and commissioning of Cast Iron FOUR Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	6,845	6,845.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendent Sprinkler 57°C standard response (K-80)	0	Nos.	HD/ Newage	310	-
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	3	Nos.	Agni/ASES	650	1,950.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	100	Mtrs.	Polycab	125	12,500.00
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer)	3	Nos.	Agni/ASES	650	1,950.00
	b) Hooters (FR-Polymer)	3	Nos.	Agni/ASES	550	1,650.00
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	100	Mtrs.	Polycab	110	11,000.00
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	3	Nos.	Kanex/ISI	4,700	14,100.00
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	3	Nos.	Kanex/ISI	1,710	5,130.00
	d) Manual Fire Alarm Panel	1	Nos.	Agni	5,800	5,800.00
20	UNDER GROUND LTR WATER TANK	25000	liter		15	3,75,000.00
21	NOC Charge	1	No		3,000	3,000.00
	TOTAL AMOUNT WITHOUT GST					7,54,949.00
5 VALKET GATE COMMUNITY HALL						7,54,949.00
6..NAME OF PROJECT:- EAST AND WEST ZONAL OFFICES						
DOCUMENT:- FIRE FIGHTING WORKS						
NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 900 lpm at 45 m. head conforming to IS standards.	0	Set	Lubi/ Kilosker/TE XMO	48,000	-
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	0	Set	L&T/ cimems	14,000	-
3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 310 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	0	No.	H-guru	1,750	-
4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	6	Rmt.		1,342	8,052.00
	c) 80 mm dia	12	Rmt.		992	11,904.00

	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	25	Rmt.		634	15,850.00
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	120	Rmt.		315	37,800.00
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	1	Nos.		3,175	3,175.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV		Nos.	Sant/ Zoloto		-
	a) 200 mm dia.					
	b) 150 mm dia	0	Nos.		10230	-
	c) 100 mm dia.	0	Nos.		5230	-
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	1	Nos.	Swati/ Newage/ISI	4,610	4,610.00
8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	1	Nos.	Swati/ Newage/ISI	1,650	1,650.00
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	1	Nos.	Swati/ Newage/ISI	4,423	4,423.00
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	1	Nos.	Swati/ Newage/ISI	1,675	1,675.00
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	1	Nos.	Swati/ Newage/ISI	6,170	6,170.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	2	Nos.	Sant/ Zoloto	1,550	3,100.00
13	Supply, installation, testing and commissioning of Cast Iron FOUR Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	0	No.	Swati/ Newage	6,845	-
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	0	Nos.	Sant/ Zoloto	1,345	-
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendent Sprinkler 57°C standard response (K-80)	56	Nos.	HD/ Newage	310	17,360.00
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	0	Nos.	Agni/ASES	650	-
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	0	Mtrs.	Polycab	125	-
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer) b) Hooters (FR-Polymer)	0	Nos.	Agni/ASES	650	-
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	0	Mtrs.	Polycab	110	-
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	3	Nos.	Kanex/ISI	4,700	14,100.00
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	4	Nos.	Kanex/ISI	1,710	6,840.00
	d) Manual Fire Alarm Panel	0	Nos.	Agni	5,800	-
20	NOC CHARGE	1	Nos.		24,300	24,300.00
	TOTAL AMOUNT WITHOUT GST					1,61,009.00
6.0	EAST AND WEST ZONAL BMC OFFICE					1,61,009.00

SUMMARY OF WORKS					
1	AKHILESH CIRCAL COMMUNITY HALL				8,67,375.00
2	BALVATIKA				9,45,683.00
3	BMC MAIN BUILDING				20,16,025.00
4	MAL TILE LEVEL CAR PARKING				44,14,547.00
5	VALKET GATE COMMUNITY HALL				7,54,949.00
6	EAST AND WEST ZONAL OFFICES				1,61,009.00
	TOTAL AMOUNT				91,59,588.00
SCHEDULE - 1 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S DIFFERENT BUILDINGS					TOTAL AMOUNT Rs. 91,59,588.00

SCHEDULE - 2 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S SCHOOLS and AANGANWADI/NANDHGHAR						
1..NAME OF PROJECT:- AKWADA PRATHMIK SCHOOL						
DOCUMENT:- FIRE FIGHTING WORKS						
NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 450 lpm at 45 m. head conforming to IS standards.	1	Set	Lubi/ Kilosker/TE XMO	32,000	32,000.00
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	1	Set	L&T/ cimens	6,000	6,000.00
3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 310 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	1	No.	H-guru	1,750	1,750.00
4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	28	Rmt.		1,342	37,576.00
	c) 80 mm dia	0	Rmt.		992	-
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	0	Rmt.		634	-
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	0	Rmt.		315	-
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	1	Nos.		3,175	3,175.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV		Nos.	Sant/ Zoloto		-
	a) 200 mm dia.	0	Nos.		10230	-
	b) 150 mm dia	1	Nos.		5230	5,230.00
	c) 100 mm dia.	0	Nos.			-
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	4,610	-

8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	0	Nos.	Swati/ Newage/ISI	1,650	-
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	0	Nos.	Swati/ Newage/ISI	4,423	-
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	1,675	-
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	2	Nos.	Swati/ Newage/ISI	6,170	12,340.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	3	Nos.	Sant/ Zoloto	900	2,700.00
13	Supply, installation, testing and commissioning of Cast Iron TWO Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	4,200	4,200.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendent Sprinkler 57°C standard response (K-80)	0	Nos.	HD/ Newage	310	-
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	2	Nos.	Agni/ASES	650	1,300.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	45	Mtrs.	Polycab	125	5,625.00
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer)	2	Nos.	Agni/ASES	650	1,300.00
	b) Hooters (FR-Polymer)	2	Nos.	Agni/ASES	550	1,100.00
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	40	Mtrs.	Polycab	110	4,400.00
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	2	Nos.	Kanex/ISI	4,700	9,400.00
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	2	Nos.	Kanex/ISI	1,710	3,420.00
	d) Manual Fire Alarm Panel	1	Nos.	Agni	5,800	5,800.00
20	ISI OVER HEAD GROUND 10,000LTR WATER TANK	1	Nos.	ISI	80,000	80,000.00
	TOTAL AMOUNT WITHOUT GST					2,18,661
1.0	AKWADA PRATHMIK SCHOOL fire and safty work amount Rs.					2,18,661.00

2..NAME OF PROJECT:- RUA PRATHMIK SCHOOL

DOCUMENT:- FIRE FIGHTING WORKS

NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 450 lpm at 45 m. head conforming to IS standards.	1	Set	Lubi/ Kilosker/TE XMO	32,000	32,000.00
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	1	Set	L&T/ cimens	6,000	6,000.00

3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 310 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	1	No.	H-guru	1,750	1,750.00
4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	28	Rmt.		1,342	37,576.00
	c) 80 mm dia	0	Rmt.		992	-
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	0	Rmt.		634	-
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	0	Rmt.		315	-
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	1	Nos.		3,175	3,175.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV		Nos.	Sant/ Zoloto		-
	a) 200 mm dia.					
	b) 150 mm dia	0	Nos.		10230	-
	c) 100 mm dia.	1	Nos.		5230	5,230.00
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	4,610	-
8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	0	Nos.	Swati/ Newage/ISI	1,650	-
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	0	Nos.	Swati/ Newage/ISI	4,423	-
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	1,675	-
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	2	Nos.	Swati/ Newage/ISI	6,170	12,340.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	3	Nos.	Sant/ Zoloto	900	2,700.00
13	Supply, installation, testing and commissioning of Cast Iron TWO Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	4,200	4,200.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendant Sprinkler 57°C standard response (K-80)	0	Nos.	HD/ Newage	310	-
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	2	Nos.	Agni/ASES	650	1,300.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	45	Mtrs.	Polycab	125	5,625.00

18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer)	2	Nos.	Agni/ASES	650	1,300.00
	b) Hooters (FR-Polymer)	2	Nos.	Agni/ASES	550	1,100.00
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	40	Mtrs.	Polycab	110	4,400.00
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	2	Nos.	Kanex/ISI	4,700	9,400.00
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	2	Nos.	Kanex/ISI	1,710	3,420.00
	d) Manual Fire Alarm Panel	1	Nos.	Agni	5,800	5,800.00
20	ISI OVER HEAD GROUND 10,000LTR WATER TANK	1	Nos.	ISI	80,000	80,000.00
	TOTAL AMOUNT WITHOUT GST					2,18,661
2.0	RUVA PRATHMIK SCHOOL fire and safty work amount Rs.					2,18,661.00

3..TARSAMIYA PRATHMIK SCHOOL fire and safty work :

DOCUMENT:- FIRE FIGHTING WORKS

NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 450 lpm at 45 m. head conforming to IS standards.	1	Set	Lubi/ Kilosker/ TEXMO	32,000	32,000.00
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	1	Set	L&T/ cimens	6,000	6,000.00
3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 316 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	1	No.	H-guru	1,750	1,750.00
4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	46	Rmt.		1,342	61,732.00
	c) 80 mm dia	0	Rmt.		992	-
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	0	Rmt.		634	-
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	0	Rmt.		315	-
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	1	Nos.		3,175	3,175.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV a) 200 mm dia.		Nos.	Sant/ Zoloto		-
	b) 150 mm dia	0	Nos.		10230	-
	c) 100 mm dia.	1	Nos.		5230	5,230.00
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	4,610	-

8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	0	Nos.	Swati/ Newage/ISI	1,650	-
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	0	Nos.	Swati/ Newage/ISI	4,423	-
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	1,675	-
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	3	Nos.	Swati/ Newage/ISI	6,170	18,510.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	4	Nos.	Sant/ Zoloto	900	3,600.00
13	Supply, installation, testing and commissioning of Cast Iron TWO Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	4,200	4,200.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendent Sprinkler 57°C standard response (K-80)	0	Nos.	HD/ Newage	310	-
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	3	Nos.	Agni/ASES	650	1,950.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	66	Mtrs.	Polycab	125	8,250.00
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer)	3	Nos.	Agni/ASES	650	1,950.00
	b) Hooters (FR-Polymer)	3	Nos.	Agni/ASES	550	1,650.00
	c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	55	Mtrs.	Polycab	110	6,050.00
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	3	Nos.	Kanex/ISI	4,700	14,100.00
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	3	Nos.	Kanex/ISI	1,710	5,130.00
	d) Manual Fire Alarm Panel	1	Nos.	Agni	5,800	5,800.00
20	ISI OVER HEAD GROUND 10,000LTR WATER TANK	1	Nos.	ISI	80,000	80,000.00
	TOTAL AMOUNT WITHOUT GST					2,62,422
3.0	TARSAMIYA PRATHMIK SCHOOL fire and safty work amount Rs.					2,62,422.00

4..NAME OF PROJECT:- DIAMOND CHOWK . SCHOOL NO 21

DOCUMENT:- FIRE FIGHTING WORKS

NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	Supply, Installation, Testing and Commissioning of Electric driven fire pump suitable for automatic/manual operation and consisting of following: complete in all respect as required. a) Monoblock pump to ensure a minimum pressure of 3.5 kg / sq.cm. at highest and farthest outlet at specified flow of 450 lpm at 45 m. head conforming to IS standards.	1	Set	Lubi/ Kilosker/TE XMO	32,000	32,000.00
2	Supplying, Installation, Testing and Commissioning of Control Panel suitable for automatic/manual operation of fire fighting pumps consisting (a) Necessary cabling, wiring, earthing from panel to individual equipment shall be included in the quoted price. (b) Facility for more selections i.e auto or manual. (c) Protection failure and control cabling. (d) interlocking of pressure switch with pumps (e) soft starter	1	Set	L&T/ cimens	6,000	6,000.00

3	Supply, Installation, Testing and Commissioning of 150 mm dia Pressure Gauge of range 0 - 16 Kg / cm ² conforming to IS - 3624 having bourdon tube of stainless steel 310 in cast aluminium, stove enameled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube etc.as per specification complete as required.	1	No.	H-guru	1,750	1,750.00
4	Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class C (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with one coats of anticorrosive primer and one coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required.		Rmt.	Jindal/ Asian/ Surya		-
4	a) 150 mm dia.	0	Rmt.		2,139	-
	b) 100 mm dia	36	Rmt.		1,342	48,312.00
	c) 80 mm dia	0	Rmt.		992	-
	d) 65mm dia	0	Rmt.		815	-
	e) 50 mm dia	0	Rmt.		634	-
	f) 40mm dia	0	Rmt.		528	-
	g) 32mm dia	0	Rmt.		443	-
	h) 25 mm dia	0	Rmt.		315	-
5	Supply, installation, testing and commissioning of C.I. Butterfly valve (PN 1.6) with flanges, nut bolts, gaskets complete as required.		Nos.	Sant/ Zoloto		-
	a) 150 mm dia	0	Nos.		4,443	-
	b) 100 mm dia	1	Nos.		3,175	3,175.00
	c) 80 mm dia	0	Nos.		2,495	-
	d) 65 mm dia.	0	Nos.		2,293	-
	e) 50mm dia.	0	Nos.		2,063	-
6	Supply, Installation, Testing and Commissioning of NON RETURN VALVE. NRV		Nos.	Sant/ Zoloto		-
	a) 200 mm dia.					
	b) 150 mm dia	0	Nos.		10230	-
	c) 100 mm dia.	1	Nos.		5230	5,230.00
7	Supply, installation, testing and commissioning Single Headed Fire Hydrant Valve with 80 mm N.B. flanged inlet, 63 mm dia female instantaneous outlet type. S.S. coupling, blank cap, chain, twist release type lug & all accessories Conforming to IS:5290. Including fixing with supports, flanged tapping from wet riser, orifice plate complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	4,610	-
8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allan key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	0	Nos.	Swati/ Newage/ISI	1,650	-
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	0	Nos.	Swati/ Newage/ISI	4,423	-
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	1,675	-
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	2	Nos.	Swati/ Newage/ISI	6,170	12,340.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	3	Nos.	Sant/ Zoloto	900	2,700.00
13	Supply, installation, testing and commissioning of Cast Iron TWO Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	4,200	4,200.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendant Sprinkler 57°C standard response (K-80)	0	Nos.	HD/ Newage	310	-
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	2	Nos.	Agni/ASES	650	1,300.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	45	Mtrs.	Polycab	125	5,625.00

8	Supply, Installation, Testing and Commissioning of Weather proof Standard MS Fire Hose Cabinet wall mounting type (450 mm x 600 mm x 250 mm deep) having single opening with necessary locking arrangement by allen key suitable for housing 1 no. hose pipe, 1no. Branch pipe & nozzle spanner.	0	Nos.	Swati/ Newage/ISI	1,650	-
9	Supply, installation, testing and commissioning non-percolating rubber reinforced lined fire Hose pipe (as per IS : 636) of 63 mm dia and 15 mtrs long. The hose shall be rated for burst pressure of 35.7 Kg/sqcm. Hose shall be complete with ISI marked SS male & female coupling (IS:903) bound & riveted to hose pipe with SS rivets & 1.5 mm SS wire. (RATE 1 NOS HOSE PIPE)	0	Nos.	Swati/ Newage/ISI	4,423	-
10	Supply, Installation, Testing and commissioning of 63 mm dia instantaneous pattern SS short branch pipe , 20 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required by the Local Fire Authority.	0	Nos.	Swati/ Newage/ISI	1,675	-
11	Supply, installation, testing and commissioning of First Aid Hose Reel equipment conforming to IS:884 comprising of hose reel drum, 8 mm shut off nozzle, Rubber hose reel tubing as per IS: 444 of 25 mm dia x 30 mtr. long, painting, Manual fix type with fixing bracket, anchor fastener, bolts & nuts etc. complete as required by Local Fire Authority	3	Nos.	Swati/ Newage/ISI	6,170	18,510.00
12	Supply, installation, testing and commissioning of SS Ball Valve . a) 25mm dia	4	Nos.	Sant/ Zoloto	900	3,600.00
13	Supply, installation, testing and commissioning of Cast Iron TWO Way Fire Brigade Inlet as per IS: 904 having 63 mm dia inlet with blank cap and chain with necessary fittings, flanges, nut bolts etc. complete as required.	1	No.	Swati/ Newage	4,200	4,200.00
14	Supply, Installation, Testing and Commissioning of Gun Metal Air Release Valve with necessary fittings. Size: 25 mm (For Riser)	1	Nos.	Sant/ Zoloto	1,345	1,345.00
15	Supply, Installation, Testing and commissioning of Quartzoid Bulb type Sprinkler Heads . a) Pendent Sprinkler 57°C standard response (K-80)	0	Nos.	HD/ Newage	310	-
16	Supply, installation, testing and commissioning of Pump on/off Remote switches to each internal hydrant valve with required accessories.	3	Nos.	Agni/ASES	650	1,950.00
17	Supply, installation, testing and commissioning of XLPE insulated copper Cable from each Pump on/off switches to Panel with all necessary accessories. Size: 4 core x 2.5 sq. mm	66	Mtrs.	Polycab	125	8,250.00
18	Providing and fixing of Manual Fire Alarm system as per requirement and specification consisting of following items a) Manual call point (FR-Polymer) b) Hooters (FR-Polymer) c) Cable & other accessories: 2C x1.5 sq. mm XLPE insulated copper	3	Nos.	Agni/ASES	650	1,950.00
		3	Nos.	Agni/ASES	550	1,650.00
		55	Mtrs.	Polycab	110	6,050.00
18	Supply, installation, testing and commissioning of Carbon Dioxide (Co2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	3	Nos.	Kanex/ISI	4,700	14,100.00
19	Supply, installation, testing and commissioning of ABC type 6 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets. d) Manual Fire Alarm Panel	3	Nos.	Kanex/ISI	1,710	5,130.00
		1	Nos.	Agni	5,800	5,800.00
20	ISI OVER HEAD GROUND 10,000LTR WATER TANK	1	Nos.	ISI	80,000	80,000.00
	TOTAL AMOUNT WITHOUT GST					2,49,002

5.0 SIDSAR PRIMARY SCHOOL fire and safty work amount Rs. 2,49,002.00

6 'Fire & Safety' expense for Aanganwadi / Nandghar

NO.	Item Description	Qty.	Unit	Make	Rate	Amount
1	'Fire & Safety' expense : REFILLING WORK FOR FIRE EXTINGUISHER 4KG ABC TYPE Rate withGST = 532.0 , hence without GST rate is	316.00	Nos		450.85	1,42,468.60
2	TRANSPORTATION 2 TIME PICKUP DROPE AT ONE LOCATION	2.00	Nos		1,906.78	3,813.56
				Total Amount Rs.		1,46,282.16
SUMMERY SHEET						
1	AKWADA PRATHMIK SCHOOL fire and safty work amount Rs.					2,18,661.00
2.0	RUVA PRATHMIK SCHOOL fire and safty work amount Rs.					2,18,661.00
3.0	TARSAMIYA PRATHMIK SCHOOL fire and safty work amount Rs.					2,62,422.00
4.0	DIAMOND CHOWK . SCHOOL NO 21 fire and safty work amount Rs.					2,29,397.00
5.0	SIDSAR PRIMARY SCHOOL fire and safty work amount Rs.					2,49,002.00
6.0	AANGANWADI/NANDGHAR Fire and safty work amount Rs.					1,46,282.16
				Estimated	Total	13,24,425.16

SCHEDULE -2 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S SCHOOLS AND AANGANWADI/NANDHGHR			TOTAL AMOUNT RS.	13,24,425.16
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SUMMERY OF WORKS FIRE AND SAFTY WORKS					
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SCHEDULE - 1 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S DIFFERENT BUILDINGS					
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1	AKHILESH CIRCAL COMMUNITY HALL					8,67,375.00	
2	BALVATIKA					9,45,683.00	
3	BMC MAIN BUILDING					20,16,025.00	
4	MALTILEVEL CAR PARKING					44,14,547.00	
5	VALKET GATE COMMUNITY HALL					7,54,949.00	
6	EAST AND WEST ZONAL OFFICE					1,61,009.00	
				FOR SCHEDULE -1	Estimated	Total	91,59,588.00

SCHEDULE - 2 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S SCHOOLS					
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1	AKWADA PRATHMIK SCHOOL fire and safty work amount Rs.					2,18,661.00	
2	RUVA PRATHMIK SCHOOL fire and safty work amount Rs.					2,18,661.00	
3	TARSAMIYA PRATHMIK SCHOOL fire and safty work amount Rs.					2,62,422.00	
4	DIAMOND CHOWK . SCHOOL NO 21 fire and safty work amount Rs.					2,29,397.00	
5	SIDSAR PRIMARY SCHOOL fire and safty work amount Rs.					2,49,002.00	
6	AANGANWADI / NANDGHAR					1,46,282.16	
				FOR SCHEDULE -2	Estimated	Total	13,24,425.16

SCHEDULE - 1 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S DIFFERENT BUILDINGS, work AMOUNT					Rs.	91,59,588.00
SCHEDULE - 2 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S SCHOOLS, work AMOUNT					Rs.	13,24,425.16

				Without GST	FOR SCHEDULE -1 AND 2	Estimated	Total Rs.	1,04,84,013.16
				GST			Total Rs.	18,87,122.37

				With GST	Total	Estimated	Total Rs.	1,23,71,135.53
							Say Rs.	1,23,71,136.00



Bhavnagar Municipal Corporation
Bhavnagar Municipal Corporation



બાંધકામ વિભાગ

(Tendar Notice No.- BMC/FIRE/1/2024-25) બીજો પ્રયત્ન

પર્સન્ટેજ રેઈટ ટેન્ડર - શોર્ટ ટર્મ

કામનુંનામ :- Providing fire safety facility at different school buildings of Bhavnagar Municipal Corporation.

કામ ની રકમ :- રૂ. ૧,૨૩,૭૧,૧૩૬.૦૦ જી.એસ.ટી સહીત

નિયત કરાયેલ ટેન્ડર ફી :- રૂ. ૩,૬૦૦.૦૦

નિયત કરાયેલ અનૉસ્ટ મની ની રકમ :- રૂ. ૧,૨૫,૦૦૦.૦૦

કામ ની સમય મર્યાદા :- ૧૨ માસ

ઈ - ટેન્ડર સબમીટ ઓન લાઈન કરવાની

આખરી તારીખ :- તા:- ૧૭/૧૦/૨૦૨૪

ઈ - ટેન્ડર સબમીટ ક્યો તારીખ :-

એજન્સી નું નામ :-

એજન્સી ઘર તથા ઓફિસ નું પૂરું સરનામું :-

એજન્સી નો ફોન નંબર તથા મોબાઈલ નંબર :-

ટેન્ડર ફી રકમ તથા પહોંચ નંબર- તારીખ :-



કામનુંનામ :- Providing fire safety facility at different school buildings of Bhavnagar Municipal Corporation

❖ આ સાથે અર્નેસ્ટ મની / ડીપોઝીટ મહાનગર પાલિકા માં રોકડા ભર્યા ની પહોંચ નં..... તારીખ.....
રૂા.....અંકે.....
ભર્યા ની અસલ પહોંચ સાથે સામેલ રાખેલ છે.

અથવા

❖ એફ.ડી.આર.નં.....તારીખ.....રૂા.....અંકેરૂપીયા.....
ની.....બેંક ની શ્રી કમિશનર મહાનગર પાલિકા સાથે જોઈન્ટ એકાઉન્ટ ની સાથે સામેલ રાખેલ છે. જેમાં પાછળ ની
સાઈડે રેવન્યુ સ્ટેમ્પ ઉપર સહી કરી અસલ માં રજૂ કરેલ છે.

❖ ઉપરોક્ત વિગત પ્રમાણે ના ભાવો થી ટકા.....અંકે.....કમતી / જાસ્તી ભાવ થી આ
કામ કરી આપવા બંધાઉં છું.

❖ સદરહુ ટેન્ડર ના ભાવો નાં છેલ્લા પાને, સ્પેસીફિકેશન ના છેલ્લા પાને, શરતો નાં છેલ્લા પાને, સહિ કરી આપેલ છે.

❖

કોન્ટ્રાક્ટરની સહી:- _____.

કોન્ટ્રાક્ટરનું આખું નામ:- _____.

કોન્ટ્રાક્ટરનું સરનામું :- _____.

કોન્ટ્રાક્ટરનોસિકકો:- _____ તારીખ:- _____.

ટેન્ડર કમીટી

ટેન્ડર ને ટેન્ડર કમિટિ સમક્ષ ખોલ્યા સમય:- _____ તારીખ:- _____.

સહી	કલાર્ક	કાર્યપાલક ઈજનેર	ચીફ એકાઉન્ટન્ટ	ચીફ ઓડીટર	ઓ.એસ.ડી.(ટેક.)
	બિલ્ડીંગ વિભાગ	બિલ્ડીંગ વિભાગ	એકાઉન્ટ વિભાગ	ઓડીટવિભાગ	સીટી એન્જી કચેરી

તારીખ : / / ૨૦૨૪.



શરતો ભાગ -૧

- ૧) ટેન્ડર માં જણાવેલી આઈટમ સિવાય બીજી આઈટમ કરવી પડે તો આનાકાની વગર કરી આપવું મારે કબુલ છે. અને તેના ભાવ શ્રી કમિશનર સાહેબ ઠરાવે તે લેવા મારે કબુલ મંજુર છે.
- ૨) સદરહુ કામ લેટર ઓફ ઈન્ટેન્ટ (L.O.A) મળ્યા તારીખ થી બાર માસ ની મુદત માં કામ પૂર્ણ કરી આપવા બંધાઉં છું.
- ૩) સદરહુ કામના ટેન્ડર ની શરતો તથા સ્પેશીફિકેશન વિગતો વિગેરે બરોબર સમજી અમોએ આ ટેન્ડર ભર્યું છે. એટલે કે તે મુજબ કાંઈપણ વાંધા વગર કામ કરી આપવા બંધાઉં છું અને આ બાબત ની પુરતી સમજૂતી મળ્યા ની ખાતરી ટેન્ડર તથા સ્પેશીફિકેશન માં અમોએ સહી કરી આપી છે. તે અમારે કબુલ મંજુર રહી છે.
- ૪) ઉપરોક્ત ભાવે આ કામ કરવા મને વર્ક/ઓર્ડર આપવામાં આવશે તો હું આ કામ કરવા બંધાઉં છું. અને જો કોઈ સંજોગોમાં હુંઆકામન કરુ તો મહાનગરપાલિકામાં આ કામ માટેની ભરપાઈ કરેલ તમામ પ્રકાર ની તમામ ડીપોઝીટ ની રકમ ફોરફીટ કરવા મહાનગરપાલિકા હકકદાર રહેશે અને મ્યુ. કોર્પો અમોને બ્લેક લીસ્ટ કરવા હકકદાર રહેશે.
- ૫) ટેન્ડર ખોલવાની તારીખ થી છ માસ સુધીમાં મને વર્ક—ઓર્ડર આપવામાં આવશે તો હું ભરેલ ભાવે મહાનગરપાલિકા ના સ્પેશીફિકેશન મુજબ આ કામ કરી આપવા હું બંધાઉં છું.
- ૬) મહાનગરપાલિકા ના પ્રવર્તમાન નિયત,ધારા – ધોરણ અનુસાર, કોન્ટ્રાક્ટરે પોતાના ખર્ચે જરુરી સ્ટેમ્પ પેપર લાવી ધોરણસર નું લખાણ સાથે ડીપોઝીટ—એગ્રીમેન્ટ કરવાના રહેશે. જે અંગેની જરુરી માહિતીમ્યુ.કોર્પો. ના બિલ્ડીંગ વિભાગે થી રૂબરૂ મેળવવાની રહેશે.
- ૭) સદરહુ કામ ટેન્ડર પ્રમાણે તથા હવે પછી વધારે વિગતવાર કામ બતાવવામાં આવે તે પ્રમાણે તેમની પસંદગી મુજબ બરાબર મજબુત અને સારી કારીગરીમાં લાઈન લેવલમાં કરવાનું રહેશે.
- ૮) સદરહુ કામના આઈટમો માં ફેરફાર અથવા કોઈ જથ્થામાં વધારો ઘટાડો કરવો પડે તો તેમ કરવાને કાર્યપાલક ઈજનેર સાહેબ મુખત્યાર છે અને તે પ્રમાણે કોન્ટ્રાક્ટરે કંઈ વાંધો લેવાશે નહીં. અગર એવો ફેરફાર અગર વધારો ઘટાડો ધોરણસર મંજુર થાય ત્યારે તે પ્રમાણે થયેલ કામનું માપ ભરેલા ભાવ મુજબ મજરે આપવામાં આવશે. અગર જરુર જણાશે તો તેમનો ભાવ શ્રી કમિશનર સાહેબ મુકરર કરશે અને તે ઠરાવ છેવટનો ગણાશે.
- ૯) શ્રી કોન્ટ્રાક્ટર કોઈ કામ પેટા કોન્ટ્રાક્ટરની પાસે થી કરાવાશે નહીં. પરંતુ તે કામ હોશીયાર કારીગરોને રોજે રાખી કોન્ટ્રાક્ટરે કરાવવું પડશે.
- ૧૦) અગત્યના કામનો કોઈપણ ભાગ ટેન્ડરમાં રહી ગઈ હોય તો પણ તે કોન્ટ્રાક્ટ માં કરેલ છે. તેમ સમજી બીજા કામની માફક તે મજબુત રીતે સારી કારીગરી થી કરી આપવું અને તેવાનો ભાવ ઠરાવેલા ભાવ પ્રમાણે આપવામાં આવશે.
- ૧૧) તમામ કામ ઉપર લખેલી મુદત પ્રમાણે અગર તે અગાઉ પસંદગી ને પાત્ર ઠરે તેવી રીતે બરોબર પુરુ કરવું.
ઉપર લખેલી મુદત ઉપરાંત વધારે દિવસ થાય તો પેનલ્ટી પેટે જેટલા દિવસ વધારે થાય તેટલા દરેક દિવસ ના ટેન્ડર રકમ ના ૦.૧૦ ટકા મુજબ અથવા વધુમાં વધુ ટેન્ડરની રકમથી ૧૦ ટકાની મર્યાદાની રકમ કોન્ટ્રાક્ટર મજકુર આપશે પરંતુ બીજુ વધારે કામ કરાવવું પડે તેવા કામ માટે અરજી કર્યે થી શ્રી કમિશનર સાહેબ મુળ કામ અને મુદત ઉપર સુરત રાખી યોગ્ય મુદત વધારી શકાશે .
- ૧૨) સદરહુ કામમાં વાપરવાનો સામાન ખરાબ માલુમ પડશે તો તે નાપાસ કરવાને શ્રી કાર્યપાલક ઈજનેર મુખત્યાર છે. તેવો સામાન કામના સ્થળ ઉપર થી દુર કરવાની રૂબરૂ સુચના અથવા ૨૪ કલાકની નોટીસ મળ્યે થી કોન્ટ્રાક્ટર તે દુર કરશે અને દુર નહી કરે તો



Bhavnagar Municipal Corporation



કોન્ટ્રેક્ટરને ખર્ચ દુર કરાવી શકાશે અને તેનો ખર્ચતથા જવાબદારી કોન્ટ્રેક્ટરના શીરે રહેશે અને તે કોન્ટ્રાક્ટરના બીલમાંથી કાપીલેવા હકકદાર રહેશે.

- ૧૩) સદરહુ કામ માં શ્રી કાર્યપાલક ઈજનેર ને જે કંઈ ખરાબ અગર નબળુ માલુમ પડશે તે તુરત નાપાસ કરવા માં આવશે. તેમજ શ્રી કાર્યપાલક ઈજનેર ત્યાં ન હોય તો તે કામ ખાતે નિમાયેલ અ.મ.ઈ. કે ટે.આ.. તે કામ અટકાવી શ્રી કમિશનર સાહેબનો તે બાબત હુકમ મેળવશે. કોન્ટ્રાક્ટરે સારો માલ સામાન વાપરવા વગેરે બાબતો માટે તે કામ ઉપર નિમાયેલા અ.મ.ઈ. / ટેક.આસિસ્ટ/ટા.કી.ના હુકમ પ્રમાણે કામ કરવાનુ રહેશે.
- ૧૪) સદરહુ કામ મુદતસર પુરુ થાય તેવી ઝડપથી અને શ્રી કાર્યપાલક ઈજનેર ની પસંદગી મુજબ ચાલતુ જણાશે નહીં તો તે કોન્ટ્રેક્ટરનું કામ બંધ પાડી દેશે અને રદ ગણાશે અને ત્યારબાદ બીજા માણસ અથવા માણસોથી એ કામ પુરુ કરાવવાને અને જોઈતો સામાન મેળવવાને શ્રી કમિશનર સાહેબ તુરત કુલ મુખત્યાર છે અને તેમ કરવામાં જે ખર્ચ થયેલ હશે તે કોન્ટ્રેક્ટરની તેની જામીનગીરીમાંથી અથવા તેના પૈસા જમા હોય તેમાંથી શ્રી કમિશનર સાહેબ વસુલ કરશે. (અમલ કરતા કલમ નં.: ૧૨ નો બાધ આવશે નહીં)
- ૧૫) સદરહુ કામ પુરુ થતાં સુધીને માટે જોઈતા તમામ સાધનો ઓજાર, રાય વિગેરે સામાન્ય કોન્ટ્રેક્ટરે પોતાના તરફથી પુરો પાડવો. ઉપરાંત દરેક જાતના સામાન કે રાય શ્રી કાર્યપાલક ઈજનેર ની પરવાનગી વગર કામના સ્થળ ઉપર થી ઉઠાવી લઈ જવા નહીં.
- ૧૬) કોન્ટ્રેક્ટરે સદરહુ કામ કરવા ઉપર માણસો અથવા માણસ રાખેલા હશે તેમના કોઈની ગેરમાહિતી અગર ગેરચાલ માલુમ પડશે તો તેઓને રજા આપવાને ઈજનેર કુલ મુખત્યાર છે. ત્યારબાદ સદરહુ માણસ અથવા માણસોને શ્રી કમિશનર સાહેબની પરવાનગી સિવાય પાછા કામ ઉપર રાખી શકાશે નહીં.
- ૧૭) સદરહુ કામમાં કોઈ ભાગને અથવા સામાનને ગફલતે લઈને અગર હરકોઈ કારણથી નુકશાન થાય તો કોન્ટ્રેક્ટરને શીરે છે અને તે દુરસ્ત કરવા વિગેરે માટેનો ખર્ચ થાય તે પોતાના તરફથી કરશે.
- ૧૮) આ કામનો કોન્ટ્રેક્ટર દેવાળું કાઢશે અગર શ્રી કમિશનર સાહેબ / શ્રી ઈજનેર ની પસંદગી પ્રમાણે કામ પુરુ કરવાને ના કહે અથવા વિલંબ કરે તો પંદર દિવસની લેખીત નોટીસ આપી તે કોન્ટ્રેક્ટરને (કલમ ૧૫ નો અમલ કરી) રદ કરવા માટે મ્યુ.કોર્પો. મુખત્યાર છે.
- ૧૯) કોઈ બાબત ઉપર કંઈ તકરાર પડે તો તે બાબત ઉપર શ્રી કમિશનર સાહેબ જે ઠરાવ કરે તે છેવટનો ગણાશે.
- ૨૦) કોન્ટ્રેક્ટરે સદરહુ કામ ઉપર રાખેલ મજુરો વિગેરે ને બરાબર રીતે નાણાની ચુકવણી કર્યા બાબત શ્રી કમિશનર સાહેબ ને ખાતરી કરાવી આપવી પડશે. તેમ નહીં થયાનું જાહેર થશે તો કોન્ટ્રેક્ટરને નાણા મળવામાં અટકાયત કરવામાં આવશે.
- ૨૧) કોન્ટ્રેક્ટર પોતાના બીલના નાણા લેવાનું મુખત્યારનામું શ્રી કમિશનર સાહેબ ની મંજુરી થી આપશે તો પણ જોખમદારી તો કોન્ટ્રેક્ટરને શીરે જ રહેશે અને આપેલું મુખત્યારનામું પાછળ થી શ્રી કમિશનર સાહેબ ની મંજુરી સિવાય રદ કરાવી કે ફેરવી શકાશે નહીં.
- ૨૨) આ કોન્ટ્રેક્ટ અમો કોન્ટ્રેક્ટ રાખ્યા બાદ સામાનનાં અગર મજુરીના જે કંઈ ભાવો વધઘટ થાય તેને અંગે જો અમે કોઈ જાતની ભાવ વધારી આપવાની માંગણી કરીએ તો તે અમારી રદ બાતલ છે.
- ૨૩) જે તે કામનો ડીફેક્ટ લાયેબીલીટી પીરીયડ આ કામ પૂર્ણ થયાની તારીખ થી ૩ – ત્રણ વર્ષ નો રહેશે. કોઈપણ પ્રકાર ની નુકશાની, સેટલમેન્ટ, લીકેજ તથા અન્ય પ્રકાર ની ખામી આ ડીફેક્ટ લાયેબીલીટી પીરીયડના સમયગાળા દરમિયાન જોવામાં આવશે તો ભાવનગર મહાનગરપાલિકા ની મૌખિક અથવા ટેલિફોનિક અથવા લેખિત કોઈપણ સુચના મળ્યે થી કોન્ટ્રાક્ટરે પોતાના ખર્ચે ટુંકા સમય ગાળામાં વ્યવસ્થિત રીપેર કરી સારુ કરી આપવાનું રહેશે. જો ભાવનગર મહાનગરપાલિકા ની સુચનાઓ મુજબની આઈટમો મુજબ કોન્ટ્રાક્ટર નુકશાનીઓ સુધારવામાં નિષ્ફળ જશે તો ભાવનગર મહાનગરપાલિકા – સદર કામ કોન્ટ્રાક્ટરના ખર્ચે અને જોખમે અન્ય પાસે રીપેર કરાવી અને થયેલા ખર્ચ ની રકમ વસુલ કરવામાં આવશે.



- ૨૪) સિક્કયોરીટી ડીપોઝીટ ની રકમ કોન્ટ્રાક્ટર હસ્તક નું આખરી કામ પૂર્ણ થયા બાદ ડીકેકટ લાયેબીલીટી પીરીયડ પૂર્ણ થયા બાદ તથા ડીકેકટ લાયેબીલીટી પીરીયડના સમયગાળા દરમિયાન ધ્યાન માં આવેલ કોઈપણ પ્રકાર ની નુકશાની, સેટલમેન્ટ, લીકેજ તથા અન્ય પ્રકાર ની ખામી વ્યવસ્થિત રીપેર કરી સારુ કરી આપ્યા બાદ માંગણી કર્યેથી પરત કરવામાં આવશે.
- ૨૫) કામની સાઈટ ઉપર જે કાંઈ અકસ્માત કે અનીચ્છીય બનાવ બને તે અંગેની બધી જવાબદારી કોન્ટ્રાક્ટરની રહે છે.
- ૨૬) કોન્ટ્રાક્ટરે પ્રવર્તમાન તમામ મજૂર કાયદાઓની જોગવાઈઓ મુજબ અમલ કરવાનો રહેશે.
- ૨૭) કામ અને મટીરીયલ્સનું સ્પેશીફિકેશન, જો બીજી કોઈ રીતે દર્શાવવામાં ન આવ્યું હોય તો તે કામ ની આઈટમ અને મટીરીયલ્સ ના પ્રવર્તમાન રીલેવન્ટ આઈ. એસ. સ્પેશીફિકેશન અનુસાર નું ગણવા નું છે.
- ૨૮) કોઈપણ કારણ બતાવ્યા સિવાય આ ટેન્ડર અથવા તેની કોઈપણ આઈટમ ના એક કરતા વધુ ભાગ કરીને અન્ય કોન્ટ્રાક્ટર અથવા એજન્સી ને કામ આપી શકશે.
- ૨૯) બાંધકામ સાઈટ પર કામ કરતા સમયે કોઈપણના જાન-માલને હાની થાય તો તેની સંપૂર્ણ જવાબદારી કોન્ટ્રાક્ટરની રહેશે. આમ ન બને તે માટે કોન્ટ્રાક્ટરે સ્વખર્ચે જરૂરી યોગ્ય પુર્વ પગલાઓ લઈ તમામ જરૂરી યોગ્ય પુરતી વ્યવસ્થા કરવાની રહેશે.
- ૩૦) કોન્ટ્રાક્ટરના અનુસંધાનમાં કે તે સિવાયના અથવા કામ કરવાની બાબત માં ઉપસ્થિત થતા તમામ પ્રકારના વાંધાઓ, કોઈપણ પ્રકાર ના મતભેદો કે તકરારો, તે તમામ ને સાંભળવા અને તેનું સમાધાન મ્યુનિ કમિશનર ભાવનગર ધ્વારા કરવામાં આવશે. મ્યુનિ કમિશનર ભાવનગર, કેવળ એક માત્ર લવાદ રહેશે અને તેના ધ્વારા લેવામાં આવેલ નિર્ણય બને પક્ષ કોન્ટ્રાક્ટર અને ભાવનગર મહાનગરપાલિકા ને બંધનકર્તા રહેશે. સમય તે આ કોન્ટ્રાક્ટનું મુળ હાર્દ છે.
- ૩૧) આપવામાં આવે તે સ્ટ્રક્ચરલ ડીઝાઈન, માપ સાઈઝ, નકશાઓ, પ્લાન, એલીવેશન, સેક્શન મુજબ તમામ કામ કરી આપવાનું છે.
- ૩૨) આ કામ માટે નિયત થતાં કોન્ટ્રાક્ટર / એજન્સી, આ કામ માટે ભાવનગર મહાનગરપાલિકાને સીધા જ જવાબદાર છે. અને ભાવનગર મહાનગરપાલિકા તરફ થી સંપૂર્ણ બાંધકામ ની ગુણવત્તા, જથ્થો, નકશા માં ફેરફાર, સ્પેશીફિકેશન અને બાંધકામ કરવા માટેની સાનુકૂળતા, પાણીનો છંટકાવ (ક્યોરીંગ) અને રોજ રોજના કામ ના સુપરવિઝન બાબત, વખતો વખતના ઓડર્સ મેળવશે.
- ૩૩) કોન્ટ્રાક્ટર ના મજૂર અને કર્મચારીઓ માટે રહેઠાણની જરૂરી વ્યવસ્થા કોન્ટ્રાક્ટરે સ્વખર્ચે અને જોખમે કરવાની રહેશે.
- ૩૪) આ કામ માટેકોન્ટ્રાક્ટરે સ્વ ખર્ચે અને જોખમે જરૂરી તમામ પ્રકારના પુરતા પ્રમાણમાં સાધનો, સરંજામ, અને સ્કેફોલ્ડીંગ તથા બાંધકામ મશીનરી ની વ્યવસ્થા કરવાની છે. તથા સમય મર્યાદામાં કામ પુરુ કરવા માટે તમામ મશીનરી ને સારી કન્ડીશન માં મેઈન્ટેન કરવાની છે. તમામ મટીરીયલ્સ, સાધનો, સ્કેફોલ્ડસ, અને સામગ્રી બાંધકામ સાઈટ સ્થળે લાવ્યા પછી ભાવનગર મહાનગરપાલિકા ની મંજૂરી સિવાય હટાવવાની નથી.
- ૩૫) GST, સેલ્સ ટેક્સ, ઈન્કમ ટેક્સ, રોયલ્ટી અથવા અન્ય લાગુ પડતા ટેક્સીઝ અથવા ઈ.એસ.ઈ. પ્રિમીયમ વિગેરે જો કોઈ લાગુ પડતા હોય તો, તે તમામ કોન્ટ્રાક્ટ ધ્વારા ભરપાઈ કરવાના રહેશે. અને ભાવનગર મહાનગરપાલિકા આ અંગે નો કોઈ દાવો સાંભળશે નહિં.**
- ૩૬) કોન્ટ્રાક્ટર બાંધકામ ના લેવલ તથા બાંધકામ ની ગુણવત્તા અંગેની વ્યવસ્થા ગોઠવશે. તેમજ કોન્ટ્રાક્ટર તેની ચોક્કસાઈ માટે સંપૂર્ણ જવાબદાર ગણાશે. કોન્ટ્રાક્ટર ધ્વારા કામ ની લાઈન લેવલ તથા કામ શરુ કરવાના પ્રાથમિક તબક્કા માટે જરૂરી તમામ સાધનો તથા સ્ટાફ ની વ્યવસ્થા કરશે તથા આ માટે કોઈ અલગ નાંણા ભાવનગર મહાનગરપાલિકા ધ્વારા ચુકવવામાં આવશે નહીં. સાઈટ કલયરીંગ માટે પણ કોઈ અલગ નાંણા ભાવનગર મહાનગરપાલિકા ધ્વારા ચુકવવામાં આવશે નહિં.
- ૩૭) બાંધકામ માટે વાપરવાનું થતું તમામ પ્રકાર નું મટીરીયલ સારી ગુણવત્તા વાળું તથા પ્રસ્તુત પ્રવર્તમાન આઈ.એસ. સ્ટાન્ડર્ડ અનુસારનું અને ભાવનગર મહાનગરપાલિકા ધ્વારા પાસ કરાયેલું હોય તેવું જ ઉપયોગ માં લેવાનું છે.
- ૩૮) થયેલા કામ અનુસાર ની કોઈ આઈટમ માટે રનીંગ બીલ ધ્વારા રકમ ચુકવણી થવાથી તે કામ અને આઈટમ માન્ય રખાયેલ છે. તેવું માની લેવાનું તથા કામ ની ગુણવત્તા સુધારવાની કોન્ટ્રાક્ટર ની જવાબદારી માંથી કોઈપણ રીતે મુક્તી આપતું નથી.



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- ૩૯) કોઈપણ કામ જેનો ઉપરોક્ત સ્પેશીફિકેશન માં સમાવેશ થયેલ ન હોય તે કામ બોમ્બે પી. ડબલ્યુ.ડી હેન્ડ બુક અનુસાર કરવાનું છે. અગર તો કમિશનર ફરમાવે તે પ્રમાણે કરવાનું છે.
- ૪૦) કામ કરવાના કલાકો અને દિવસના સવારના ૯.૦૦ થી ૧૮.૦૦ કલાક સુધી પ્રમાણે કામ ચાલુ રાખવાનું છે. તેમજ જાહેર રજા ના દિવસો માં સી.સી. વર્ક કરવાનું રહેશે નહીં અને જો એક્સ્ટ્રા સમયમાં કોઈપણ કામ કરવાનું ચાલુ રાખવાનું હશે તો તે માટે પ્રથમ સંબંધીત સત્તા ની લેખિત મંજૂરી મેળવ્યા બાદ કામ ચાલુ રાખવા દેવામાં આવશે.
- ૪૧) કામ પૂર્ણ થયે સાઈટ તદ્દન કલીયર કરી આપવાની છે. જેની લેખિત માં હકીકત જાહેર માં કરવાની રહેશે.
- ૪૨) કામ પર સૂચના લેવા માટે કોન્ટ્રાક્ટરે પોતે જાતે કાયમ હાજર રહેવું પડશે. અથવા કોઈ જવાબદાર ટેકનીકલી કવોલીફાઈડ માણસે કાયમ હાજર રહેવું પડશે. અને તેવો માણસ ફરમાન અનુસારકામ નહીં કરે તો તેને કામ પરથી રજા આપવામાં આવશે. કોન્ટ્રાક્ટર તરફથી રોકવામાં આવેલ આ માણસને આપવામાં આવેલ સુચના કોન્ટ્રાક્ટર ને આપ્યા બરાબર ગણાશે.
- ૪૩) સંબંધીત સત્તાના લેખિત હુકમ અને પહેલેથી ભાવ નક્કી કરાવ્યા સિવાય કોઈપણ પ્રકારનું "એક્સ્ટ્રા કામ" કરવાનું નથી.
- ૪૪) ચાલુ કામે વખતો વખત સરકારશ્રીના માર્ગ અને મકાન વિભાગના નિયમો અનુસાર સિમેન્ટ મોર્ટાર, સિમેન્ટ કોન્ક્રીટ, લોખંડ, ચણતરકામ, તથા સુચવવામાં આવે તે તમામના અત્રેની હાજરીમાં નમુનાઓ લઈ સુચવવામાં આવે તે લેબોરેટરીમાં કોન્ટ્રાક્ટરે સ્વખર્ચે ટેસ્ટીંગ કરાવી ટેસ્ટીંગ રીપોર્ટસ રજૂ કરવાનો રહેશે. તેમજ સુચના મુજબ ના સ્ટેજ વાઈઝ ફોટોગ્રાફ પાડી હાર્ડ કોપી એક સેટ તથા સોફ્ટ કોપી માં આપવા ના રહેશે.
- ૪૫) કામ ઉપરની સુચનાઓ, સ્પેસીફિકેશન સાથે અસંમત હશે તો પણ તે સુચનાઓ કામ સંતોષકારક રીતે પૂરું કરવા માટે આપવામાં આવેલ ગણાશે. જો કોઈ કામ સ્પેસીફિકેશનના ભાવર્થ થી બહાર હોવાનું જણાય તો તુરતજ તે માટે તેમણે સંબંધીત સત્તાને લેખિત બબર આપી દેવાની છે. તે માટે ભાવ ઠરાવી લેવાનો છે. નહીં તો પાછળથી એક્સ્ટ્રા કામ માટે નો દાવો બીલકુલ ચાલશે નહીં.
- ૪૬) કામનો પ્રોગ્રેસ દરમિયાન નક્શામાં ફેરફાર કરવો કે કામમાં વધારો ઘટાડો કરવા, એક્સ્ટ્રા આઈટમ કરવા સંબંધીત સત્તા મુખત્યાર છે. અને કોન્ટ્રાક્ટર તે પ્રમાણે કરી આપવા માટે બંધાયેલા છે. જે માટે કોઈ કલેઈમ કે વાંધા અરજી ચાલશે નહીં.
- ૪૭) કામની લાઈન દોરી, લેવલ માટે તમામ સગવડતાઓ (મેખ, ખીલા, ચુકો, દોરી, ઓળંભા, મેજર ટેપ, કાટખૂણા, ચૂનો વિગેરે) કોન્ટ્રાક્ટરે આપવાની છે. દરેક મટીરીયલ્સ સારી રીતે રહે તે માટે તથા મટીરીયલ્સ ના સ્ટોરેજ કામ માટે જોઈતા તમામ "શેડ" કોન્ટ્રાક્ટરે સ્વખર્ચે યોગ્ય રીતે બાંધી આપવાના છે.
- ૪૮) રેતી, ચુનો, મેટલ, પથ્થર, સિમેન્ટ, કોન્ક્રીટ, લોખંડ, મોઝેકટાઈલ્સ વિગેરે કોઈપણ ચીજ નો ટેસ્ટ કરવા જરૂર જણાશે તો તે માટે નો ખર્ચ કોન્ટ્રાક્ટરને શીરે રહેશે. અને ટેસ્ટનું પરિણામ કહેવામાં આવે તે લેબોરેટરીમાં પાસ કરાવ્યા બાદ વપરાશે. સ્પેસીફિકેશન પ્રમાણેની ફરજો તથા સંતોષકારક કામ બાબત તમામ જવાબદારીમાંથી મુક્ત થઈ શકતા નથી.
- ૪૯) બરાબ કામ કે નબળુ મટીરીયલ્સ કાઢી નાખી ઉપાડી લઈ જવા અથવા તેની દુરસ્તી કરી આપવા માટે ડીફેક્ટ લાયબીલીટી પીરીયડ પુરો થતાં સુધી કોન્ટ્રાક્ટર જવાબદાર રહેશે.
- ૫૦) સદરહું કામ માટે જે પ્રકારનું મજૂરી કામ કરવાનું હોય તે પ્રકારના કામ માટે સારા માં સારા કારીગરો / રોજમદારો રાખી કામ કરવાનું છે. નબળા કારીગરો ને કામ ઉપરથી તુરતજ રજા આપવામાં આવશે.
- ૫૧) તમામ ઈટ, ચુનો અને સિમેન્ટ ના કામ ને જરૂર જણાયે સૂચના અપાયે થી બરાબર વીસ દીવસ સુધી પાણીનો છંટકાવ કરવાનો છે. તે માટે પુરતા પ્રમાણમાં પાણી મળી રહે તે રીતે યોગ્ય પાણીની વ્યવસ્થા પોતાના સ્વખર્ચે અને જોખમે કરવાની છે. અને પાઈપ કીબી, પંપ વિગેરે આ કામ માટે પાસ મજૂરો રોકી ને પાણીનો છાંટવા પુરતો બંદોબસ્ત કોન્ટ્રાક્ટરે પોતાના સ્વખર્ચે અને જોખમે કરવાનો છે. તેમા જરા પણ ક્યાશ હશે તો કોન્ટ્રાક્ટર ના ખર્ચે અને જોખમે વિભાગ ધ્વારા બંદોબસ્ત કરાવી લેવામાં આવશે જે માટે નોટીસ પણ આપવામાં આવશે નહીં.



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- પર) તમામ રેતી નદીમાં ચાળેલી હશે તો પણ ૬ મીમી ચાળણા માંથી ચાળવી પડશે. અને ઉપરની સાઈઝ કાઢી નાખવી પડશે. પ્લાસ્ટર કામ માટે ૩ મીમી ચાળણા માંથી ચાળેલી ઝીણી રેતી વાપરવાની છે. તમામ રેતીચોકખાપાણી થી સારી રીતે ધોઈ ને વાપરવાની છે. ચાલુ કામે જ્યારે જ્યારે કામના ઈન્સ્પેક્શન માટે માપ લેવા અગર બીજી કોઈ તપાસ માટે તમામ સ્થળે પહોંચી શકાય તે માટે પુરતા સાધનો જેવા કે નીસરણી, પાટીયા વિગેરે તમામની પુરતી વ્યવસ્થા કોન્ટ્રાક્ટરે કરવાની છે. અને જરૂર પડે નીસરણી ફેરવવા અગર બીજી મુકવા વિગેરે સુચના પ્રમાણે બંદોબસ્ત કરવાનો છે. તેમ નહી કરવામાં આવે તો તેવો બંદોબસ્ત કોન્ટ્રાક્ટરના ખર્ચે કરાવી લેવામાં આવશે.
- પ૩) કોન્ટ્રાક્ટર/ટેન્ડર ભરનારે સવાલ વાળી બાંધકામની સાઈટની સ્થળ સ્થિતિ ની મુલાકાત લઈ જરૂરી અભ્યાસ કરી લેવો.
- પ૪) કોન્ટ્રાક્ટર / ટેન્ડર ભરનારે તેઓની અનુકુળતા અનુસાર આ પોઈટમાંથી સાઈટ(સ્થળે) જરૂરી અન્ય સ્થળોએ જરૂરી વિજળી અને યોગ્ય પાણીની વિતરણ વ્યવસ્થા સ્વ ખર્ચે અને જોખમે પોતાની રીતે ગોઠવવાની રહેશે. આ બંને સુવિધાના થતો વપરાશના ચાર્જીસ કોન્ટ્રાક્ટર/ટેન્ડર ભરનારે ભરપાઈ કરી આપવાના રહેશે.
- પ૫) કોન્ટ્રાક્ટમાં આવરી લેવામાં આવેલું તમામ કામ, કોન્ટ્રાક્ટર/ટેન્ડર ભરનારે સ્વયં બાંધવાનું /અમલ કરવાનો છે. ભાવનગર મહાનગરપાલીકાની લેખિત સંમતી મેળવ્યા સિવાય, કોન્ટ્રાક્ટર/ ટેન્ડર ભરનારે આ કોન્ટ્રાક્ટ અથવા તે પૈકીનો કોઈ ભાગ, સીધો અથવા આડકતરી રીતે અન્ય ના નામે ટ્રાન્સફર કે પેટા ફાળવણી કરવાની નથી.
- પ૬) કોઈપણ કારણ બતાવ્યા સિવાય આ ટેન્ડર અથવા તેની કોઈપણ આઈટમના એક કરતાં વધુ ભાગ કરીને અન્ય કોન્ટ્રાક્ટર અથવા એજન્સી ને કામ આપી શકશે.
- પ૭) ટેન્ડરની ચકાસણી સમયે, જરૂરી કલેરીફિકેશન તથા નેગોસીએશન રૂબરૂ હાજર રહી કરી આપવાનું છે.
- પ૮) ભાવનગર મહાનગરપાલીકાની સક્ષમ સત્તા ને કોઈપણ કારણ બતાવ્યા સિવાય કોઈપણ ટેન્ડર સ્વિકારવા અથવા રદ કરવા અંગેનો અધિકાર અબાધિત રહેશે. અને લોએસ્ટ ભાવનું ટેન્ડર સ્વિકારવા માટે પણ બંધનકર્તા નથી.
- પ૯) એજન્સીએ કામ માટે વપરાશમાં લેવાનું તમામ મટરીયલ પ્રથમ આ કામના ઈન્ચાર્જ એન્જીનીયર પાસેથી પાસ (એપ્રુડ) કરાવીને બાદમાં જ તેનો ઉપયોગ કરવાનો રહેશે તથા તમામ કામ તથા મટરીયલનું કટીંગ, ફીટીંગ, એસેમ્બલીંગ તથા અન્ય તમામ કામ સાઈટ ઉપર જ ઈન્ચાર્જ સાઈટ એન્જીનીયરની દેખરેખ હેઠળ જ કરવાનું રહેશે.
- ૬૦) કોઈપણ પ્રકારનું એડવાન્સ પેમેન્ટ કરવામાં આવશે નહીં.
- ૬૧) એસ્ટીમેટેડ (ટેન્ડર) ની કોઈપણ આઈટમની કવોન્ટીટીના કોઈપણ વેરીએશન સબબ કોઈપણ પ્રકારનો ભાવવધારો આપવામાં આવશે નહીં.
- ૬૨) કોઈપણ પ્રકારના માલ સામાન, મટરીયલ્સ વગેરેનો કોઈપણ પ્રકારનો ભાવ વધારો આપવામાં આવશે નહીં.
- ૬૩) કોઈપણ પ્રકારની વ્યાજની રકમની માંગણી કરી શકાશે નહીં.
- ૬૪) સામાન્ય રીતે આઈટમોના માપો લેવાની રીત પ્રસ્તુત આઈ.એસ. કોડ અનુસરની રહેશે. તમામ આઈટમોનું માપ ફાઈનલ વર્કીંગ ડ્રોઈંગ મુજબ અથવા સ્થળ પર ખરેખર થયેલા કામ મુજબ બન્ને માંથી જે ઓછું હોય તે ગણતરીમાં લેવાનું છે.
- ૬૫) સરકારશ્રી નાં વખતો વખત નાં બહાર પાડવા માં આવેલ મજૂર કામદારોનાં કાયદા ઓ નું ચુસ્ત પણે કોન્ટ્રાક્ટરશ્રી દ્વારા અમલ કરવાનું રહે છે.



Bhavnagar Municipal Corporation



૬૬) સ્કુલ પાસેથી એચ.ટી વીજ લાઈન પસાર થાય છે આ માટે વીજ પ્રોટેક્શન અંગેની તમામ વ્યવસ્થા કોન્ટ્રાક્ટરે સ્વખર્ચે કરવાની રહેશે.
તેમજ કોઈ અકસ્માત કે જાનહાની થાય તો તે અંગેની તમામ જવાબદારી કોન્ટ્રાક્ટરની રહેશે.

❖ ઉપરોક્ત તમામ શરતો નં- ૧ થી ૬૬ અમો એ વાંચી,વંચાવી,સમજી,વિચારીને ટેન્ડરમાં ભાવો ભરેલ છે જે મને / અમને કબુલ મંજૂર છે અને તે મુજબ અમો કામ કરવા બંધાઈએ છીએ.

કોન્ટ્રાક્ટરની સહી _____.

કોન્ટ્રાક્ટરનું નામ _____.

કોન્ટ્રાક્ટરનો સિક્કો

તારીખ

DOC. NO.	BHAVNAGAR MUNICIPAL CORPORATION	PROJECT NO.
	FIRE FIGHTING SYSTEM	
NAME OF WORK	Providing fire safety facility at different Buildings of Bhavnagar Municipal Corporation	2 nd Attempt - Short Term

CONTENT

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A. SPECIAL CONDITIONS OF CONTRACT

1.0 GENERAL:

These special conditions are meant to amplify the specifications and General Conditions of Contract. If any discrepancy is noticed between General Conditions of contract, specification, Bill of Quantity and Drawings, the most stringent of the above shall apply.

The work shall be carried out in the accordance with the drawings and design as would be issued to the Contractor by the Design Consultant duly signed and stamped by him. The Contractor shall not take cognizance of any drawings, designs, specifications etc. not bearing Design Consultant signature and stamp. Similarly the Contractor shall not take cognizance of instructions given by any other Authority except the instructions given by the Client's Representative/ Consultant in writing.

The scope of this section is to describe materials and systems for fire fighting installations within the building which form together with the project documents, a complete volume of work and quality description.

All fire fighting installations shall be of high quality, safe, complete and fully operational including all necessary items and accessories whether or not specified in details. All fire fighting works shall be completed in accordance with the regulations and standard to the specification OWNER, the general provisions, special provisions and general requirements apply to all items of this specification.

The work shall be carried out simultaneously with building work, civil work, etc. and shall be continued till it is completed satisfactorily along with the completion of essential portions of the building works.

The work shall be executed and measured as per metric dimensions given in the Bill of Quantities, drawings etc.

The Contractor shall acquaint himself fully with the partial provisions for supports that may be available in the structure and utilize them to the extent possible. In any case the Contractor shall provide all the supports regardless of provisions that they have been already made. Nothing extra shall be payable for situations where insert plates (for supports) are not available or are not useful.

Shop coats of paint that may be damaged during shipment or erection shall be cleaned off with mineral spirits, wire brushed and spot primed over the affected areas, then coated with paint to match the finish over the adjoining shop painted surface.

The Contractor shall protect / handle the material carefully and if any damage occur while handling by the Contractor then the sole responsibility shall be of the Contractor. Such damages shall be rectified/recovered by the Contractor at no extra cost whatsoever.

During the progress of work, completed portion of the building may be occupied and be put to use by OWNER but the contractor will remain fully responsible for the maintenance of Fire Protection System installations till the entire work covered by this contract is satisfactorily completed by him and handed over to OWNER.

2.0 ACCOMPANIMENT TO TENDER:

The tendered will attach to the Tender, at the time of submission, a statement containing information on the following points on separate pro forma.

List of all the confirmation of materials to be used as per specification along with manufacturer's name, catalogue and other technical details. Any deviation from the specifications shall be separately pointed out.

3.0 INTENT:

It is the intention of the specification and drawings to call for finished work, tested and ready for operation, whenever the words "Supply" or "Provide" are used. It shall mean delivery of material as specified in an assembled manner, ready for installation. Any apparatus, material or work not shown on drawings but mentioned in the specification or vice versa, or any incidental accessories necessary to make the work complete and perfect in all respects and ready for operation, even if not particularly specified, shall be furnished, delivered and installed by the contractor without additional expenses to OWNER. Minor details not usually shown or specified, but necessary for the proper installation and operation, shall be included in the work and in the contract.

4.0 INTERPRETATION OF PROJECT DOCUMENTS:

The Specification, Drawings, and Bill of quantity shall be interpreted in accordance with good installation practice defined in the appropriate regulations and standards whether specifically referred to or not. If there is any discrepancy or shortfall in the application of the regulations to any aspect of this contract or the contractor considers there is anything detrimental to the standards or inconsistent with his obligations and guarantees, OWNER shall be informed prior to signing the contract and shall thereafter inform the contractor in writing the course to be followed. Where the drawings are to a small scale or are expressed in symbolic terms or are in the form of a diagram, then exact location of items shall not be inferred and in all cases, the work shall be fully integrated with the work of other trades and with the fabric of the building. The contractor shall appraise the duties of all plants and equipments taking account of any additions or variations and shall inform the OWNER of any matters which may affect the design. In all cases the equipment installed shall be of appropriate rating for the duty it performs.

The Specifications and Bill of quantity shall be considered as part of this contract and any work or material shown on BOQ and not called for in the specification or vice versa, shall be executed as if specifically called for in both. The Drawings indicate the extent and general arrangement of the Fire Pumps, Fire Hydrants & Sprinkler system layout etc. and are essentially diagrammatic.

The work shall be installed as indicated on the drawings, however, any minor changes found essential to coordinate the installations of this work with other services shall be made without any additional cost to the owner. The drawings are for the guidance of the contractor, exact locations, distances and levels will be governed by the building. The contractor shall examine all structural and Fire Protection system drawings before starting the work, and report to OWNER or its representative, any discrepancies which in his opinion appear on them, and get them clarified.

5.0 SCOPE OF WORK:

The bidder shall have to provide fire safety facility in the below mentioned buildings as per the conditions of NIT.

SUMMARY OF WORKS FIRE AND SAFTY WORKS

SCHEDULE - 1 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S DIFFERENT BUILDINGS					Estimate Amount in Rs. (Without GST)	
1	AKHILESH CIRCAL COMMUNITY HALL				10,23,503.00	
2	BALVATIKA				11,15,906.00	
3	BMC MAIN BUILDING				23,78,910.00	
4	MALTILEVEL CAR PARKING				52,09,166.00	
5	VALKET GATE COMMUNITY HALL				8,90,840.00	
6	EAST AND WEST ZONAL OFFICE				1,89,991.00	
FOR SCHEDULE -1				Estimated	Total	1,08,08,316.00
SCHEDULE - 2 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S SCHOOLS						
1	AKWADA PRATHMIK SCHOOL fire and safty work amount Rs.				2,58,020.00	
2	RUVA PRATHMIK SCHOOL fire and safty work amount Rs.				2,58,020.00	
3	TARSAMIYA PRATHMIK SCHOOL fire and safty work amount Rs.				3,09,658.00	
4	DIAMOND CHOWK . SCHOOL NO 21 fire and safty work amount Rs.				2,70,688.00	
5	SIDSAR PRIMARY SCHOOL fire and safty work amount Rs.				2,93,822.00	
6	AANGANWADI / NANDGHAR				1,72,612.00	
FOR SCHEDULE -2				Estimated	Total	15,62,820.00
SCHEDULE - 1 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S DIFFERENT BUILDINGS					Rs.	1,08,08,316.00
SCHEDULE - 2 FOR FIRE AND SAFTY INSTALLATION WORK AT BMC'S SCHOOLS					Rs.	15,62,820.00
FOR SCHEDULE -1 AND 2				Estimated with GST	Total	1,23,71,136.00

The work to be carried out under this contract comprises of the Fire Fighting work for the proposed project called for in the documents. The work covered under this contract comprises of supply (wherever called for), installation, connection, testing and commissioning the Fire Fighting work commencing from point of fire brigade inlet or fire water storage within the project/site as per specifications, relevant to TAC, NBC, Indian standards, Local Fire Rules and Code of practice.

The contractor shall carry out and complete the said work under this contract in every respect and in conformity with the current rules and regulations of the local Fire Authority, the Indian Standards and with the directions of and to the satisfaction of the Consultant and Owner. The Contractor shall furnish all labor and install all materials, appliances, equipment (except those items which will be supplied by the Owner to the contractor at site), necessary for complete provision and testing of the whole fire fighting installation as specified herein and shown on the drawings. This also includes any material, appliances, equipment not specifically mentioned herein or noted on the drawing as being furnished or installed but which are necessary and customary to make complete installation and to make the fire fighting system shown in the schedule or described herein, properly connected and in working order.

The work shall include all incidental jobs connected with Fire Fighting installation such as foundation block for pump-motor sets, excavation for pipe trenches and back filling, cutting/drilling holes through walls/floors and grouting, fixing of sprinklers with necessary civil work , supports & hangers for hydrant / pipes, etc.

In general, the work to be performed under this contract shall comprise of supply, installation, testing & commissioning of the following work but limited to followings:-

Down Comer
Hose Reel, Portable Fire Extinguisher, Signages
Sprinkler System
Isolation valves
Terrace Pumps & OHT
System Pipes with all fittings, Flanges, Orifice Plates, valves, Hangers, Supports.

All qualities mentioned in the Bill of quantity are approximate and the contractor shall not be eligible for any claim due to any variation in / or omission of any item.

Any extra item shall be calculated on the rate analysis basis approved by OWNER.

It is the responsibility of the contractor to co-ordinate with Local Fire Authority, Fire Officer and fulfils all the documents, drawings & any other requirement of them at no extra cost.

6.0 MODE OF MEASUREMENTS:

M.S. pipes shall be measured per linear meter of the finished length and shall include all fittings, welding, jointing, clamps for fixing to walls or hangers, anchor fasteners and testing.

Sluice valves, check valves, butterfly valves shall be measured by numbers and shall include all items necessary and required for mixing and as given in the Specifications/Bill of Quantities.

Hydrant valves, hose cabinets, rubberized fabric linen fire hose pipes, First-aid fire Hose reels, S.S. branch pipes, sprinkler shall be measured by numbers and shall include all items necessary and required for fixing as given in the Specifications/Bill of Quantities.

Suction and delivery headers shall be measured per linear meter of finished length and shall include all items as given in the Bill of Quantities. Painting shall be included in the rate of headers. Painting of pipes shall be included in the rate for pipes and no separate payment shall be made.

No additional payment shall be admissible for cutting holes or chases in walls or floors, making connections to pumps, equipment and appliances.

7.0 MODE OF PAYMENT:

Advance against material up to 60% of actual value of materials shall be paid after necessary warranty of the same at site of work is done, in terms of quantity, quality, and purchase price of such material. Such advance amount shall be paid for pipes, all Valves, Hydrant valves, Pump set only.

Vender shall bring the material at site maximum one month in advance before the actual usage of the same for erection. If the material is brought earlier then specified above, the payment of such material shall not be made.

8.0 FEES, PERMITS AND TESTS:

The Contractor shall pay for any and all fees and obtain permits required for the firefighting work. On completion of the work the contractor shall obtain and deliver to the OWNER, **NOC**, certificates of final inspection and approval by the local fire authority and the Fire inspector.

9.0 UTILITY SUPPLY:

It is the responsibility of the contractor to co-ordinate with various utility agencies, the exact location of such Hook-Up Point and mode of connection. Further the contractor shall co-ordinate with such utility agencies to provide necessary drawings, documents, get their approval, make the necessary arrangement for the payments and arrange the utilities supply at no extra cost.

10.0 ACTUAL ROUTE OF PIPE:

The locations of the Hydrant pipes are only indicative; therefore, the actual route may differ from the plans according to the details of the building construction and the conditions of executions of the installations.

The contractor shall supply and install at his expense all secondary materials and special fittings found necessary to overcome the interference and to supply the modifications on the route of pipe and fittings that are found necessary during the work, to the complete satisfaction of the owner's representative.

11.0 MATERIAL AND EQUIPMENT:

All material and equipment shall conform to the relevant standards and shall be of the approved make and design. The materials and equipment shall conform to relevant Indian Standards. The Contractor shall be responsible for the safe custody of all the materials and shall insure them against theft, damage by fire, earthquake etc. A list of items of materials and equipment, together with sample of each shall be submitted to the OWNER within 10 days of the award of the contract. Any item which is proposed as a substitute, shall be accompanied by all technical detail giving sizes, particulars of materials and the manufacturer's name and shall be submitted along with the tender or bid offer. At the time of the submission of proposed substitute the Contractor shall state the credit, if any due to the owner. In the event the substitution is approved, all changes and substitutions shall be requested in writing and approvals obtained in writing from OWNER. Owner's decision in the matter shall be final.

All materials of the same kind of service shall be identical and made by the same manufacturers. Any deviation to this rule shall be approved by the Consultant. Top priority shall be given to the products that have a permanent agent providing spare parts and maintenance facilities in the same city where the project is situated.

The make of fire equipments, components, accessories, etc. has been mentioned in the tender. In case if the make is not given for the equipment / component / accessories, the contractor shall get approval for sample of that particular equipment / component / accessories from the Client / Consultants before any procurement.

12.0 MANUFACTURERS:

Where manufacturers have furnished specific instructions relating to the materials used in this job, covering points not specifically mentioned in these documents, these instructions shall be followed in all cases.

Where manufacturer's names and/or catalogue numbers are given, this is an indication of the quality, standards and performance required.

When interfacing occurs, equipment shall be mutually compatible in all respects.

13.0 RATING:

Rating of all items shall be appropriate for the conditions on the particular site on which the items will be used. All the equipment shall be fit for continuous work under the worst conditions of site and shall be rated for the following ambient condition.

- Outdoor temperature 50° C.
- Corrosive and humid

14.0 INSPECTION AND TESTING:

OWNER'S representative reserves the right to request inspection and testing at manufacturer's works at all reasonable times during manufacture of items for this contract. Tests on site of completed works shall demonstrate, among other things:

That the equipment installed complies with specification in all particulars and is of the correct rating for the duty and site conditions.

That all items operate efficiently and quietly to meet the specified requirements.

That all circuits are correctly fused and protected and that protective devices are properly coordinated.

That all non-current carrying metal work is properly and safely grounded in accordance with the specifications.

The contractor shall provide all necessary instruments and labour for testing, shall make adequate records of test procedures and readings, shall repeat any tests requested by the OWNER and shall provide test certificates signed by a properly authorized person. Such test certificates shall cover all works.

If tests fail to demonstrate the satisfactory nature of the installation or any part thereof then no claims for the extra cost of modifications, replacements or re testing will be considered. Owner's decision as to what constitutes a satisfactory test shall be final.

The above general requirements as to testing shall be read in conjunction with any particular requirements specified elsewhere.

15.0 PRICE DETAILS:

At anytime and at the request of OWNER, the contract shall provide details or breakdown of costs and prices of any part or parts of the works.

16.0 TEST CERTIFICATES:

The contractor shall submit test certificates for all the material/system installed. These shall be issued by a government recognized inspection office certifying that all equipment, materials, construction and functions are in agreement with the requirements of these specifications, ISI and when ISI is not applicable other approved certifying agencies.

17.0 INSTRUCTION MANUAL:

The contractor shall prepare and produce instruction, operation and maintenance manuals in English for the use, operation and maintenance of the supplied equipment and installations, and submit 3 sets to OWNER, at the time of handing over.

18.0 SAMPLES AND CATALOGUES:

Before ordering the material necessary for this work, the contractor shall submit to OWNER for approval, a sample along with the catalogues.

For big items such as Pump, Prime Mover, Valves, Hydrants, Pipe, Sprinkler the submission of catalogues shall be enough. Prior to ordering any fire fighting equipment/material/system, the contractor shall submit to OWNER, the catalogues, along with the samples, at least from three different manufacturers. After the selection of manufacturer by OWNER, the contractor shall arrange inspection and testing at the manufacturer's factory or assembly shop for final approval. No material shall be procured prior to the approval of the OWNER.

19.0 VENDOR AND SHOP DRAWINGS:

The contractor shall prepare and submit to OWNER, for his approval, two sets of vendor detailed drawings of all distribution boards, switch boards, outlet boxes, special pull boxes, and other likewise material, equipment to be fabricated by the contractor, or other vendor within 15 days of signing of the contract.

Before starting the work, the contractor shall submit to OWNER for his approval in the prescribed manner, the shop/execution drawings for the entire installation, specially the main connections and junctions, the route of conduits and cables, no. and size of wires drawn through the conduits, location of all the outlet points, and switch boards and distribution boards and any other information required by OWNER. OWNER reserves the right to alter or modify these drawings if they are found to be insufficient or not complying with the established technical standards or if they do not offer the most satisfactory performance or accessibility for maintenance.

20.0 AS BUILT DRAWINGS:

At the completion of work and before issuance of certificate of virtual completion the contractor shall submit to OWNER, three sets of layout drawing drawn at appropriate scale indicating the complete Fire Protection system "as installed". These drawings must provide (in plan, elevation and section)

Location and details of Terrace Pumps and Panels,

Location of Down Comer, Hose reel details, Fire Extinguisher, Signages & Sprinkler System.

Location of Fire Storage Tank.

21.0 GUARANTEE:

At the close of the work and before issuance of final certificate of virtual completion by OWNER, the contractor shall furnish written guarantee indemnifying OWNER against defective materials and workmanship for a period of one year after completion. The contractor shall hold himself fully responsible for reinstallation or replacement, free of cost to OWNER, the following:

Any defective work or material supplied by the contractor.

Any material or equipment supplied by OWNER which is damaged or destroyed as a result of

defective workmanship by the contractor.

Any material or equipment damaged or destroyed as a result of defective workmanship by the contractor

22.0 SAFETY OF MATERIALS:

The contractor shall provide proper and adequate, storage facilities to protect all the materials and equipment including those issued by OWNER against damage from any cause whatsoever.

23.0 COMPLETION CERTIFICATE:

On completion of the Fire Protection System installation (or an extension to an installation) a certificate shall be furnished by the contractor countersigned by the licensed supervisor, under whose direct supervision the installation was carried out. This certificate shall be in the prescribed form as required by the local supply authority. The contractor shall be responsible for getting the **approval/NOC** by the local concerned authorities.

24.0 DEFECTS LIABILITY:

Defect's liability period shall mean 12 calendar months after OWNER have issued certificate of completion of the whole work. The certificate of completion shall be issued after the necessary tests have been carried out to the satisfaction of OWNER and the required drawings are submitted.

The contractor shall make good at his own cost and to the satisfaction of OWNER, all defects or other faults arising in the opinion of OWNER out of bad workmanship or faulty materials not in accordance with the drawings, NBC or TAC and the Rules and Regulations under which it may appear within twelve months after completion of the work.

25.0 STAFF:

The contractor shall employ a competent fully licensed qualified, full time erection engineer to direct the work of erection in accordance with the drawings and specifications. The engineer shall be available all times at site to receive instructions from OWNER, in the day-to-day activities throughout the duration of contract. The engineer shall correlate the progress of the work in conjunction with all the relevant requirements of the supply authority.

26.0 REINSTATING AND FINISHING OF CIVIL DAMAGES:

For erection of equipment / cables etc., if any civil structure is required to be broken, the same shall be done, restated and finished as original by the tendered without any extra cost.

B. TECHNICAL SPECIFICATIONS

1.0 SCOPE OF WORK :

Work under this section shall consist of furnishing all labour, materials, equipment and appliances necessary and required to completely install Wet riser, Sprinkler, First Aid Fire Protection system as required for all floor as per the drawings and specified here in after or given in the Bill of Quantities.

Without restricting to the generality of the foregoing, the fire safety system shall include the following:- supply, installation, testing & commissioning within time limit and liability period is as per DLP mentioned in Tender.

- a) M.S. piping, Down comer, Hose box & accessories etc. The piping including casing pipe of which MOC approved by EIC.
- b) Hose reels, Fire Extinguishers etc.
- c) Pump House & Accessories

- d) Sprinkler System
- e) Suction, Delivery & header pipe, fittings, flanges & valves.
- f) Signages
- g) Installation water tank with plumbing work and water re filling arrangement

PIPE WORK :

GENERAL REQUIREMENT:

All the materials shall be of ISI mark / TAC approved, best quality conforming to the specifications and subject to the approval of the Client or his representative. If so directed, materials shall be tested in an approved testing laboratory & the contractor shall produce the test certificate in original to the Engineer-in-charge & the entire charges for original as well as repeated tests shall be borne by the Contractor.

Before welding, the pipe faces shall be cleared & then shall be welded conforming to IS: 9595 – 1980. The electrodes used for welding shall comply with IS: 814. The laying of welded pipe shall also comply to IS 5822 – 1986. The welding joints shall be tested in accordance to IS: 3600, Part 1973.

Pipes and fittings shall be fixed truly vertical, horizontal or in slopes as required in a neat workman like manner.

Pipes shall be fixed in a manner as to provide easy accessibility for repair and maintenance and shall not cause obstruction in shafts, passages etc.

Pipes shall be securely fixed to walls and ceilings by **suitable clamps or supported at every 3 mtrs. & at change of direction as required**. Only approved type of anchor fasteners shall be used for RCC ceiling and walls.

Valve and other apparatus shall be so located that they are easily accessible for operations, repairs and maintenance.

2.1. PIPE AND FITTINGS:

All pipes shall be conforming to IS:1239-1990 (M.S. Heavy class) with screwed flanged or welded joints as specified by the Client's Representative.

Pipes (exposed) shall be given two primary coat of Zinc chromate with two coat of compatible epoxy paint give an even look (Fire red, shade No. 536 as per IS: 5).

All black steel pipes under floors or below ground shall be provided with protection against corrosion by application of 100/ 150 mm wide and 4mm thick layer of PYPKOTE/ MAKPOLYKOTE (IS:10221) over the pipe, as per manufacturer's specifications Checking with holiday testing machine. Excavation of soft soil including backfilling, compacting, watering up to 1.3M depth.

Fittings for M.S. / G.I. pipes shall be approved type malleable iron (forged fittings) for tapered screwed joints. Fittings shall be approved type steel fittings conforming to IS:1239-1982 Part - II for screwed joints and welded.

All fittings such as bends, tees, etc. for 50mm below shall be standard forged fittings. Cast iron fittings and fabricated fittings shall not be accepted.

All piping laid shall be as follows:

Pipe Size	Material	Joints & Fittings	Sealing Material
Up to 50mm	E.R.W., M.S.Pipe Heavy Class IS:1239/1979	Screwed Fittings Unions Raised face Slip-on Flanges	Non-Hardening Lubricant 3mm, 3-ply Rubber insertion
75mm to 150mm	E.R.W., M.S. Pipe Heavy Class IS:1239/1979	Welded Fittings Raised face Slip-on Flanges -----	----- ----- 3mm, 3-ply Rubber insertion
200mm to 300mm	E.R.W. Welded Pipes (Minimum 6.35 mm Thk.) IS:3589/1981	Welded Raised face Slip-on Flanges -----	----- 3mm, 3-ply Rubber insertion -----

Pipes shall be provided with electrical resistance welding. Jointing shall be butt welded between pipe and pipe and fittings.

Joints between C.I. and M.S./G.I. pipes shall be made by provided a suitable flanged tail or

sockets piece and M.S. flanges on the M.S./G.I pipe shall have appropriate number of holes and shall be fastened with nuts, bolts and 1.5mm thick compressed asbestos gaskets.

Tee off connections shall be through reducing tees. Drilling and tapping of the main walls of the main pipe shall not be allowed.

All equipment and valve connections shall be through flanges (Welded or screwed for mild steel).

All welded piping is subjected to the approval of the Client's Representative and sufficient number of flanges and unions shall be provided.

Tender drawings indicate schematically the size and location of pipes. The Contractor on the award of the work, shall prepare detailed working drawings, showing the cross-section, longitudinal sections, details of fittings, locations of isolating and control valves, drain valves and all pipe support, structural supports. He must keep in view the specific openings in buildings and other structures through which pipes are designed to pass. Drawings to be got approved from Local Fire Authorities.

Contractor shall submit the Hydraulic calculation for the system in accordance with Fire Authority By Laws.

Piping shall be properly supported on or suspended from stand clamps, hangers as specified and as required. The Contractor shall adequately design all the brackets, saddles, anchors, clamps and hangers, and be responsible for their structural sufficiency.

Pipe supports shall be of steel, adjustable for height and primer coated with rust preventive paint and finish coated back. Where pipe and clamps are of dissimilar materials a gasket shall be provided in between. Spacing of pipe supports shall not exceed the following:

Pipe Size	Spacing between Supports
Up to 65 mm Dia	3500 mm
65 to 100 mm Dia	4000 mm
100 to 250 mm	5000 mm

Vertical risers shall be parallel to walls and column lines and shall be straight and plumb. Risers passing from floor to floor shall be supported at each floor by clamps or collars steel structural supports attached to pipe and with a 15 mm thick rubber pad or any resilient material. Where pipes pass through the roof floor, suitable flashing shall be provided to prevent water leakage. Risers shall have a suitable clean out at the lowest point and air vent at the highest point. The Contractor shall coordinate with structural.

Pipe sleeves, 50 mm larger diameter than pipes, shall be provided wherever pipes pass through walls and slabs, and annular space filled with fire proof materials like putty, fire seal etc.

Piping work shall be carried out in a workmen like manner, causing minimum disturbance to the existing services, buildings, roads and structure. The entire piping work shall be organized in consultation and coordination with other agencies work so that particular area work shall be carried out in one stretch.

Piping layout shall take due care for expansion and contraction in pipes.

All pipes using screwed fittings shall be accurately cut to the required sizes and thread in accordance with IS:554 and burrs removed before lying. Wherever reducers are to be made, eccentric reducers shall be used.

3.0 HUME PIPE:

NP3 class R.C.C Hume pipe (IS-458) shall be provided at the road crossing. Hume pipes with mortise - tension jointed with cement and with RCC collar to cover and overlap the joints laid to correct below ground level.

VALVES:

GATE/SLUICE VALVES:

Sluice valves of sizes 50mm and above shall be cast iron double flanged solid wedge, inside screw, non rising stem, bolted bonnet Construction. The valves shall have renewable screwed body seat. Pressure rating shall be PN 1.6 and valve shall be as per IS: 14846.

CHECK VALVES (NON RETURN VALVE):

Check valves / Non Return valve shall normally be used in all water services. Check Valve / Non return valves shall be provided as required or as shown in the drawings and conform to the following specifications:

- a) Type: Dual Plate
- b) Body material: Cast iron
- c) Standard : IS:5312 / API 594
- d) Test Pressure: Body 24 Bar, Seat 16 Bar

BUTTERFLY VALVES:

All the isolation valve 50cm and above on the equipment and water lines, where specified or shown on drawings shall be wafer type butterfly valves. They shall be designed to fit without gaskets, the water tight seal being obtained by Nitrile seat projection at the faces compressed between the

flanges. The valves shall be supplied inclusive of M.S. pipe flanges and high tensile steel bolts of dimensions recommended by suppliers of valves. The valves shall comply with following specification. It is provided as per following specifications:

- a) Type: Wafer type
- b) Pressure rating: PN 1.6
- c) Body Material: Cast iron
- d) Disc Material: Stainless steel
- e) Seat material: Nitrile
- f) Operation: hand Lever
- g) Standard : IS:13095
- h) Test Pressure: Body 24 Bar, Seat 18 Bar

AIR RELEASE VALVE:

Provide 25mm diameter screwed inlet ball type Gun metal air valve on all high points in the system for venting. Valve shall be of the single acting type, vulcanite balls, rubber seating etc.

INSTALLATION:

- Valve shall be installing in a manner that allows future removal and service of the valve.
- Packing and gasket shall not contain asbestos.
- The valve shall be of the same size as the pipe to which they are installing.
- Valve above 150mm diameter shall be self locking worm gear type water proof and protory lubricated.
- Provide chain operator's w/chain cleats on all valves more than 2.4 meter above floor.

5.0 HYDRANT VALVES:

Contractor shall provide on each landing and other locations as shown on the drawings one single headed Stainless Steel (S.S.) landing valve with 63mm dia, outlets and 80mm inlet (IS:5290) with individual shut off valves and cast iron wheels. Landing valves shall have flanged inlet and instantaneous type outlet as shown on the drawings.

Instantaneous outlets for fire hydrants shall be standard pattern approved and suitable for fire brigade hoses.

Contractor shall provide for each internal fire hydrant station two numbers of 63mm dia, 15 metre long rubberized fabric lined hose pipes with gunmetal male and female instantaneous type coupling machine wound with CI wire (Hose to IS:636 and couplings to IS:903 with IS certification), fire hose reel, S.S. branch pipe with nozzle IS:903 and fireman's axe.

Each hose box shall be conspicuously painted with the letters "FIRE HOSE".

HOSE PIPE, BRANCH PIPE & NOZZLE:

HOSE PIPES:

Two numbers Hose Pipes shall be rubber lined woven jacketed and 63mm in dia. 15m long. They shall conform to type A (Reinforced rubber lined) of IS: 636 - 1979. The hose shall be sufficiently flexible and capable of being rolled.

Each run of hose shall be complete with necessary coupling at the ends to match with the landing valve or with another run of hose pipe or with branch pipe. The couplings shall be of instantaneous swinging type. This shall be conforming to IS: 903.

BRANCH PIPES:

Branch pipe shall be of S.S. as given in BOQ 63 mm dia and be complete with male instantaneous spring lock type coupling for connection to the hose pipe. The branch pipe shall be externally threaded to receive the nozzle.

NOZZLE:

The nozzle shall be of S.S.as specified in BOQ 20 mm in (internal) diameter. The screw threads at the inlet connection shall match with the threading on the branch pipe. The inlet end shall have a hexagonal head to facilitate screwing of the nozzle on to the branch pipe with nozzle spanner.

End Couplings, Branch pipe, and Nozzles shall conform to IS: 903 - 1985.

7.0 HOSE REEL:

Contractor shall provide standard fire hose reels with 25mm dia, rubber hose of 30 metres length with S.S nozzle with 8mm bore, and control valve, connected wall mounted on circular hose reel of heavy duty mild steel construction and cast iron brackets. Hose reel shall conform to IS:884-1969. The hose reel shall be connected directly to the pipe riser through an independent connection.

8.0 FIRE HOSE CABINETS:

Provide MS / FRP cabinets for internal / external hydrants with single or double glass front door and locking arrangement with breakable glass key access arrangement, duly painted red with stove enameled paint fixed to wall or self supported on floor as per site conditions. The cabinet

shall also have a separate chamber to keep the key with breakable glass as per approved design. Hose cabinets shall be stove enameled fire red paint with "FIRE HOSE" written on it prominently. Samples of hose cabinet for internal and external works be got approved from Client's Representative/ Consultant before installation at site.

Fire hose cabinet suitable to accommodate 2 Nos. 15 metres long R.R.L. hoses, 1 No. branch pipe and nozzle.

9.0 AUTOMATIC SPRINKLER SYSTEM:

Work under this section shall consist of furnishing all labour, materials, equipment and appliances necessary and required to completely install the sprinkler system as required by the drawings and specified hereinafter or given in this Bill of Quantities.

Automatic sprinkler system has been installed at basement parking area. Sprinklers shall be 15mm dia, Quartz bulb type G.M. & operate at 57° C. Sprinkler should be Pendent type.

Sprinkler system should be separate header with M.S. piping, drain pipe & assembly, flow switch, butterfly valve etc. Water supply to the sprinkler system shall be fed from the overhead tank & terrace pump.

Contractor shall supply spare Sprinkler Heads of each type as per requirement and one Spanner for each type of sprinkler neatly installed in a steel box with glass shutters at locations approved by the Engineer-in-Charge.

- a) Sprinkler mains, branch and connection from piping complete with valves, hangers, appurtenances and painting.
- b) Sprinkler heads with spare sprinklers.
- c) Connections to risers, pumps and appliances.
- d) Flow switches, installation valve.
- e) Vertical drain pipes.

10.0 ORIFICE FLANGES:

Provide orifice flanges fabricated from 6mm thick stainless steel plate to reduce pressure on individual Hydrants/ sprinkler to restrict the operating pressure to 3.5 Kg/cm². The design of the orifice flanges shall be given by the Contractor as per the location and pressure conditions of each hydrants/hose reel and get approved from Client's Representative before installation.

11.0 FIRE EXTINGUISHERS:

Installation of fully charged and tested Fire Extinguishing Hand Appliances Carbon Dioxide (Co₂)

gas type extinguisher of 4.5 kg as per IS 15222, gross weight 16 to 16.5, Control discharge mechanism fitted with 1 Meter Wire Braided Hose & Flat Horn with Diffuser Nozzle for dispersed discharge of CO₂, Discharge Time 12 Sec, Average Discharge is 95%, Applicable on Class B, C and electrically started Fire, Fire Rating 55B, Internal coating is not applicable & External coating is of enamel spray painting, Powder Coated Handle, Valve Confirm to IS 3224 ISI Marked, CO₂ Cylinder construction: hot spinning by seamless pipes & bearing ISI mark, Body confirms to IS 7285 and PESO APPROVED, Extinguishers confirmed to IS 15683:2018 and ISI marked.

ABC 6 kg powder filled with mono ammonium phosphate powder 50% as IS 4303 stored pressures by these specifications and drawings. Stored Pressure Type, UGTS Pressure Gauge, Gross Weight 8.9 Kg, Empty Weight 2.9 Kg, Can Height 530 mm, Diameter 150 ± 10mm, Discharge Time 24 Sec, Controllable discharge mechanism, Jet Range 5 Meters, Average Discharge is 90%, applicable on Class A, B & C and electrically started Fire, Fire Rating 4A:144B, Can Construction : Deep drawn & CO₂ MiG welded, EPDM Rubber Hose with both end Aluminum clamped, Internal Coating - Epoxy Powder coating, External Coating - Pure Polyester Powder coating (UV Resistant), Brass forged valves with safety Pin is of SS material, Sheet metal thickness : 1.8 mm, ISI Approved IS 15683:2018.

Fire extinguishers shall conform to the following Indian Standard specifications and shall be with BIS approved stamp as revised and amended up to date.

- a) CO₂ Type : IS:15683
- b) ABC Powder Type : IS:15683

Fire extinguishers shall be installed as per Indian Standard Code of practice for selection, installation and maintenance of portable first aid appliances IS:2190-1979.

Hand appliances shall be installed in readily accessible locations with the Appliance brackets fixed to wall by suitable anchor fasteners.

Each appliance shall be provided with an inspection, testing, change of charge and other relevant data.

All appliances shall be fixed in a true workman like manner truly vertical and at current locations.

The Extinguisher shall be so distributed over the entire floor area that a person has to travel not more than 15 Mtr. to reach the nearest fire extinguishers.

12.0 SIGNAGES:

Equipment & Instruction Signages: Signages have been provided near all the equipment / shaft (i.e. Hydrant valve, Hose Reel, Fire Extinguishers etc) for easy to use.

13.0 BALL VALVES:

S.S. ball valves shall be provided with each Hose reel & wherever required for drain purpose as mentioned in BOQ/ Drawing.

FIRE PUMPS: SCOPE:

Contractor shall furnish all labor, materials, equipment for supply, installation testing and commissioning of complete fire pumping system. In general, the item of works shall include but not limited to the following:

- a) 1 no. of Terrace Pump - Electrically operated pump
- b) Complete electrical system, Panels for pumps.

TERRACE PUMP (ELECTRIC DRIVEN):

Contractor shall provide and install electrically operated fire pumps of capacity 450 LPM and head indicated in the Drawings/Bill of Quantities.

Pumping sets shall be single/multi stage horizontal End suction / split casing centrifugal type. The delivery pressure at pump outlet shall be not less than 3.5 Kg./cm² in any case.

Pumps shall be capable of giving a discharge of not less than 150 % of the rated discharge at a head of not less than 65% of the rated head. The shut off head shall be within 120% of rated head.

The pump casing shall be of cast iron of grade FG 200 to IS:210 and parts like impeller, shaft sleeve, wearing ring etc. shall be of non-corrosive metal like bronze/brass/gun metal. The shaft shall be of stainless steel.

Bearing of the pump shall be effectively sealed to prevent loss of lubricant or entry of dust or water.

The pump shall be provided with a plate indicating the suction lift, delivery head, discharge, speed and number of stages.

The pump casing shall be designed to withstand 1.5 times the working pressure.

MOTORS FOR ELECTRIC DRIVEN PUMPS:

MOTOR:

The motor shall be squirrel cage A.C. induction type suitable for operation on 415 volts 3 phase 50 Hz. System. Degree of protection shall be IP 55. The class of insulation shall be F. Temperature rise limit up to class 'B', duty 'S1' The synchronous speed shall be 1500/2900 RPM as specified. The motor shall be rated for continuous duty and shall have a horse power rating necessary to drive the pump at 150% of its rated discharge with at least 65% rated head. The motor shall conform to I.S. 325.

MOTOR STARTER:

The motor starter shall be soft or variable frequency drive type conforming to IS: 1822 - 1967. The unit shall include suitable current transformer and ammeter of suitable range on one line to indicate the current. The starter shall not incorporate under voltage no voltage trip overload or SPP.

The starter assembly shall be suitably integrated in the power and control panel for the wet riser system.

CONTROL PANEL:

CUBICAL PANEL:

The main switch board cubicle panel shall be of floor mounted type, totally enclosed, dust and vermin proof made from 14 SWG M.S. sheet of suitable size duly painted with one coat of anti-corrosive paint and two coats of synthetic enamel paint of approved make and shade with stove enameled finish. The cubical shall comprise of the followings:

- a) Incoming main M.C.C.B unit of required capacity.
- b) Outgoing M.C.C.Bs one for each motor.
- c) Aluminium busbar of suitable capacity.
- d) Fully Automatic "DOL" starter suitable for the motor H.P. with Push Buttons and ON/OFF indicating light one for each motor for all pumps.
- e) Single phasing preventers one for each motor.
- f) 96 mm² panel type Ampere meters - one for each motor complete with CTs.

- g) 150 mm² voltmeter on incoming main with rotary selector switch to read voltage between phase to neutral and phase to phase.
- h) Three neon phase indicating lamps.
- i) Rotary switch for manual/auto operation.
- j) All color coded internal and inter-connecting wiring from incoming main to bus bar, switch board panel and power/control cables from switch board cubicle to motors, engine and batteries etc. complete in all respect.

All switchgears and accessories shall be approved make to relevant IS codes and to the satisfaction of Client's Representative/Consultant and rating of all equipment must match the KW of motors included and as per TAC rules. All electrical work to be carried out as per TAC and NBC rules/specifications.

EARTHING:

There shall be two independent earthing stations at least 3 meters away from the pump room. Each earth electrode shall consist of GI earth plate 600mmx600mmx6mm thick including accessories and masonry enclosure with cover plate having locking arrangement. All electrical apparatus, cable boxes and sheath/armour clamps shall be connected to the main bar by means

of branch earth connection of 25mm x 5mm copper strip. All joints in the main bar and between main bar and branch bars shall have the lapping surface properly tinned to prevent oxidation. The joints shall be riveted and sheathed. The main earthing strip shall be 25 x 5mm copper in 40mm dia G.I. pipe from earth electrode as required.

Earth plates shall be buried in a pit 1.2 x 1.2m at minimum depth of 3 meters below ground. The connections between main bar shall be made by means of these 10 mm studs and fixed at 100mm centers. The pit shall be filled with coke breeze, rock salt and loose soil. A G. I pipe of 29mm dia with perforations on the periphery shall be placed vertically over the plates to reach ground level or watering.

A brick masonry man hole 30x30x30cms size shall be provided to surround the pipe for inspection. A bolted removable link connecting main bar outside the pit portion leading to the plates shall be accommodated in this manhole for testing.

Earthing shall be done complete as per NBC / TAC specifications.

CABLING:

All cables from switch board panel to the motors shall be PVC insulated and PVC sheathed armoured aluminum conductor power cables of 650/1100 V grade conforming to IS:1553. The cables of required size shall be suitable for laying on surface of wall or in flooring with suitable clamps. Necessary cable trays shall deemed to be included in this item as per site requirements.

The termination shall be with brass compression glands suitable for PVC sheathed armoured aluminium conductor cable of 1.1 KV 'A' grade of the required size.

PRESSURE GAUGE:

Contractor shall provide 150 mm dia Pressure Gauge of range 0 - 15 Kg /cm² conforming to IS - 3624 having bourdon tube of stainless steel 310 in cast aluminium, stove enamelled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock including providing suitably painted angle iron support to the tube. Pressure gauge shall be provided at each pump suction, delivery line & common delivery header.

15.0 TESTING OF THE SYSTEM:

All piping shall be tested to hydrostatic test pressure of 6 Kg/Cm² for a period of not less than 2 hours. All leaks and defects in joints revealed during the testing shall be rectified to the satisfaction of the Client's Representative.

Piping required subsequent to the above pressure test shall be re-tested in the same manner.

System may be tested in sections and such sections shall be securely capped.

The Client's Representative shall be notified well in advance by the Contractor of his intention to test a section of piping and all testing shall be witnessed by the Client's Representative.

The Contractor shall make sure that proper noiseless circulation of fluid is achieved through the system concerned. If proper circulation is not achieved due to air bound connections, the Contractor shall rectify the defective connections. He shall bear all the expenses for carrying out the above rectification including the tarring-up and re-finishing of floors, walls etc. as required.

The Contractor shall provide all materials, tools, equipment, instruments, services and labor required to perform the test, and shall ensure that the plant room and other areas are cleaned up and spill over water is removed.

The Contractor shall give the pressure test of head for external yard hydrant at ground level and also for hydrant at terrace level.

All air shall be trapped from the pipeline through hydrants, Hose Reel & air valves. Each section of the pipe shall be slowly filled with the water & allow to stand the water for few hours with the ends closed.

Flushing of underground connections: Underground mains and lead-in connections to system risers shall be flushed before connections made to piping in order to remove foreign materials which may have entered the underground during the course of installation. For hydrant system the flushing operation shall be continued until water is clear.

16.0 COMMISSIONING OF SYSTEM :

Before commissioning, the entire system shall be flushed to ensure that any earth /foreign matters which might have entered during installation are taken out. For this, pump may be operated and valves opened at different locations.

As soon as the work is complete, the system shall be commissioned and made available for use. Requirement of fire fighting installations is equally important during occupation of the building. If the building is to be occupied in part, fire fighting system of building completed shall be commissioned by isolating the system of under construction portion of the building.

The fire fighting system shall be maintained and manned from the very first day of its Commissioning.

Any defects noticed during the warranty period shall be promptly attended by the Contractor and availability of the system at all time is to be ensured.

17.0 ACCEPTANCE TEST:

Start terrace pump through pump on/off switch check required flow and pressure.

Stop pump through pump on/off switch.

All these tests mentioned above shall be repeated after one hour interval. The result of all the tests shall be identical again. After the system has satisfactorily withstood the above tests, it can be taken over from the contractor.

18.0 START-UP / SYSTEM TESTING:

It will be the responsibility of the tendered to cause interim/stage inspection by the FPCOR/ST.F.O/CFO during execution of the work as and when so called for by the Employer / Architect and shall carry out any rectification / modification as may be suggested by the Tariff Advisory Committee (ST.F.O.) / State Fire Officer (CFO).

Soon after the work is completed, the contractor shall inform the ST.F.O/CFO in writing with a copy to the Architect / Employer for getting the complete system including all sub system and instrumentation, control etc. thoroughly inspected and tested for satisfactory performance. After satisfactory completion of tests of the systems by the ST.F.O / CFO the contractor shall be required to submit in built drawings on tracing cloth to the Architect which have been so approved.

In addition to ST.F.O, the contractor shall also be responsible for getting the system and equipment tested and approved by other Statutory Authorities like the Area Fire Officer or the State Fire Services as may be required.

19.0 HANDING OVER:

All commissioning and testing shall be done by the Contractor to the complete satisfaction of the Engineer-in-Charge / Consultants, and the job handed over to the Client. Contractor shall also hand over to the Client all maintenance and operation manuals and all items as per the terms of the contract.

C. CODES & STANDARDS

SR. NO.	IS NO.	TITLE
1	IS: 325	Motors
2	IS:458	Hume Pipe
3	IS:636	RRL Hose
4	IS:778	Gun Metal valves
5	IS:14846	Sluice valve
6	IS:884	Fire Hose Reel
7	IS:903	Fire Hose, couplings, branch pipe, nozzles
8	IS:1239 / 3589	G. I. Pipe / M.S. pipe
9	IS:5132	Rubber Hose Pipe
10	IS:13095 / API 609	Butterfly valves
11	IS:5290	Fire Hydrants
12	IS:5312 / API 594/598	Non-Return Valves
13	IS:6595 / 12469	Pumps
14	IS:8423	C. P. Hose
15	IS:10001 / 10002	Diesel Engine
16	IS:10221	Coating / wrapping of underground M.S. pipe
17	IS:15683	Fire Extinguishers
18	IS:12349	Signages

D. MAKE LIST

SR NO	ITEM DESCRIPTION	MATERIAL
1	Fire Pumps	Lubi/ Kilosker/AQUATEX
2	Diesel Engine	Lubi/ Kilosker/AQUATEX
3	G.I / MS. Pipes	Jindal/ Asian/ Surya
4	Pipe Fittings	Jindal/ Asian/ Surya
5	Valves	Sant/ Zoloto/ protecto fire
6	M. S. Flanges	Sant/ Zoloto/ Jindal/ Asian/ Surya/ protecto fire
7	Foot Valve with Strainer	Sant/ Zoloto/ Jindal/ Asian/ Surya/ protecto fire
8	Strainers	Sant/ Zoloto/ Jindal/ Asian/ Surya/protecto fire
9	Flow Meter	Sant/ Zoloto/ Jindal/ Asian/ Surya/ protecto fire
10	Pressure Switch	L&T
11	Pressure Gauge	H-guru
12	Anticormosive Materia	
13	Hydrant Valves	Swati/ Newage/ protecto fire
14	Branch Pipe with Nozzle	Swati/ Newage/ protecto fire
15	Fire Hoses	Swati/ Newage/protecto fire
16	Hose Couplings	Swati/ Newage/ protecto fire
17	Hose Reel	Swati/ Newage/ protecto fire
18	Hose Boxes	Swati/

		Newage/ protecto fire
19	Fire Extinguishers	Kanex/ ceasefire/minimax/securezone
20	Flow Switch	ISI
21	Paints	ISI
22	Air Release Valve	Sant/ Zoloto/ protecto fire
23	SIREN / Hooter	Agni/ASES
24	Smoke /Heat / Beam/ LPG/Duct /High Sensitivity Detectors	Agni/ASES
25	Fire Alam Control Panel Repeater Panel	Agni/ASES
26	Hooter / Sounder/ Fault isolators	Agni/ASES
27	Manual Call Point / Resporise Indicator	Agni/ASES
28	Cabel 2 core	Polycab/ISI
29	PUMP ON-OF SWITCH	Agni/ASES

If any other then above make/vendor need to utilize in this work, the contractor has to refer Approved BMC's Vendor list or take approval from the EIC before ordering the material.

Name of work :

Providing fire safety facility at different Buildings of Bhavnagar Municipal Corporation :

Annual maintenance and operation of Fire Fighting, Fire Alarm, Public Address system Various buildings of Bhavnagar Municipal Corporation as per scope of work given in the tender documents complete as required.

SPECIAL CONDITIONS OF CONTRACT (SCC) AND TECHNICAL SPECIFICATIONS

1. Scope of Work and Maintenance Schedule:

The maintenance agency (contractor) shall be solely responsible for the day to day maintenance of Fire Fighting, Fire Alarm, Public Address and Talk Back system on 24 x 7 hours basis in the common areas under this contract. Complete Scope of work and Maintenance schedules of this work is given elsewhere in the tender document.

(ANNEXURE - A)

The maintenance shall include Servicing of the fire pumps and cost of consumables will be covered in the quoted rates.

2. No major or special repair or overhauling of any equipment such as Fire Pumps & Motors, Fire Fighting/Fire Alarm Panels, Batteries, and Hooters including winding of motors is covered in the scope of this work. However, prevention and routine maintenance including Servicing, minor rectification will be the responsibility of the Agency. All material including Diesel oil (Fuel) for Fire Engine Pump will be provided to the Agency by Bhavnagar Municipal Corporation (here after called "**BMC**") for such rectification .

free of cost except some minor material such as Petroleum Jelly, grass, lubricants, tools & tackles, nuts & bolts, distilled water, old dhoti, log books & stationeries, fuse, rubber packing, threads, indicator lamps, clamps, resistors, diodes etc which are in the scope of this work. Nothing extra shall be paid on account of consumables and small tools & plants required for the work.

3. The Agency will promptly inform **BMC's** officer in charge as soon as occurrence of any Major defect in these systems so that the latter can take advance action towards its Rectification and procurement of any material required for that purpose. Labour for the Rectification will be provided by the Agency in its quoted rates.

4. Materials (consumables) used shall be ISI quality or of approved quality only from BMC.
5. All minor tools and tackles are to be arranged by the contractor at his own cost and Nothing extra will be payable on this account.
6. Space for suitable office with storage facility will be provided to the agency by BMC free of cost.
7. The agency shall provide proper dress code to the engaged employees with name badge, photo identification Card.
8. The agency should ensure that their all employees while on duty should be in proper Uniform.
9. The electrician and operators to be deployed for work should have valid license or he should be having certificate course from any technical institute/department with a Minimum experience of three years.
10. The complete bio-data of all the manpower deployed by the agency should be submitted with Officer In charge, BMC for approval.
11. The agency should maintain a stock register for material purchased and consumed for Maintenance work. This register should indicate date wise receipts of material and material consumed on work. The agency should also maintain a register for unserviceable material received during repair work.
12. The Stationery, register, pens & pencils required for maintaining record will be arranged by the contractor on its own.
- 13.. Supervisor must be pass out of any Fire Institute, Nagpur/Pune/Delhi or equivalent with 1 year Diploma in Fire Safety with a minimum experience of five years in this field.
14. Firemen cum pump operator should preferably be I.T.I. certificate Holder with an experience of three years or he must be a matriculate with a minimum experience of seven years.
15. Technician should preferable be ITI certificate holding in wireman/electrician/electronics trade with an experience of 3 years or he must be a matriculate with an experience of seven years in this field
- 16.. COMPLETION PERIOD

The duration of contract will be 12 months from the date of start of work extendable for a further period of 12 months at the sole discretion of BMC, if required, and if BMC is fully

satisfied with the performance of the Agency. However, BMC has a right under this contract to foreclose the contract at any time. The contract can also be terminated by BMC by giving one month notice at any time. The agency has to continue his work with due diligence during the termination notice period, if any given by BMC. No claim whatsoever in this regard shall be entertained by BMC.

17. The agency has to issue photo Identity card for this all working employees deputed for maintenance work at this complex (HPC).

18. In case the agency fails to abide by any of the conditions a financial penalty of Rs.1,000/- per every default as decided by BMC management will be imposed.

19. The agency should depute a supervisor in the maintenance office for coordination with BMC and their maintenance team for smooth functioning of maintenance work.

20. The tenderer shall visit the site and shall satisfy him-self as to conditions under which the work is to be performed. He shall also check and ascertain the condition of the complete Fire Fighting and Fire Alarm System, the locations of any existing structures or equipment or any other situation, which may affect the work. No extra claim for ignorance or on the ground of insufficient description will be allowed at a later date.

21. The final bill will be submitted by the contractor within 90 days from the date of completion and acceptance of work accompanied by the following documents:

- a) Completion certificate issued by the Officer-in-charge specifying the satisfactory completion of work.
- b) Computerized printed final bill.
- c) No claim certificate by the contractor.

22. SERVICE TAX (GST) :

The contractor must have a valid GST Registration No. His quoted rates shall be inclusive of all taxes including Services Tax (GST) . The contractor shall indicate in the running accounts bills / final bill the amount of the Tax separately while raising the bills to BMC. The contractor shall ensure compliance with GST law & procedure and to produce proof of service tax registration & payment of service tax whenever required by BMC. The amount of GST shall not be paid extra.

23. No employee /manpower deployed for the said job shall consume alcohol cigarette/bidies/cigar/gutka and use chew gum etc. or do any such act that spoils the housekeeping work. If anybody is found to be consuming the same, then a suitable financial penalty will be recovered from the agency without forfeiting BMC's right to expel the defaulting person from the Annual Maintenance Contract forever.

24. DEPLOYMENT OF WORKERS ON HOLIDAYS

The work will be carried out on 24 X 7 hour basis. Nothing extra shall be paid for working
On holidays.

25. Firm\ bidder should have at least 3 year experience in AMC of Fire Fighting for
reputed MNC organisation and Government organisation.

ANNEXURE - A

Scope of Work

1. The firm will engage trained and experienced technical staff and helpers for routine Maintenance headed by a qualified Fire Supervisor for 24 x 7 hours.
2. The firm will maintain the logbook for maintenance as detailed below.
 - a) After each maintenance/Testing the test detailed to be entered in the maintenance register with dates and result achieved.
 - b) After carrying out each test, the entry in the register to be got counter signed from the BMC Officer. Without prior approval, no fitting/material will be removed for repairs; it will be contractor's responsibility to provide alternative temporary arrangement of such items for the period. The item is repaired and put back in to position so that the system remains fully functional all the time.
3. The Contractor will conduct periodical fire drill at site as per direction of the officer in charge including imparting training to the user's staff in the use of fire Extinguishers etc.
4. The checking and maintenance of the batteries for the system shall be done including maintaining specific gravity and distilled water level. However, replacement of defective batteries are not covered in the Scope of this work.
5. The firm shall maintain each fire zone.
6. The servicing of the system shall be done smoothly including fire detector system and random checking and heat detectors periodically by heat and smoke.
7. The system shall be kept in fully working condition till completion of contract. The firm will arrange handing over of the total system in fully functional condition on completion of the contract.
8. The demonstration drill of the working of the system shall be given once a month as and When desired by the Officer-in-Charge or as per his direction.
9. All the material to be supplied for replacement of parts shall be ISI make/approved.
10. The firm shall depute one qualified Electrical Officer to check the whole system once in every month and shall maintain a test record signed by them and got countersigned by their visit from the Officer of the employer i.e. BMC. The firm shall submit a list of person deployed for the work.

11. The firm has to arrange for testing both the fire pumps in the presence of **BMC's Officer** once in a fortnight. The test includes running of the pressurization pumping set in case of loss of pressure of fire hydrant system and running of diesel engine pump by artificial closure of electricity. Creating the pressure loss in the pipelines shall test the electricity driven pump set. Test Pressure at the farthest end, bottom most ends and at pump set one of the yard hydrants shall be taped for operation on the same day by creating the desired jet, such test shall be done at least **once in a month** in the presence of Officer.
12. **The BMC Officer** or his representative shall have access to installation during all hours.
13. Maintaining liaison with security department in case of fire, test being conducted to check the operation/readiness of the system shall be contractor's responsibility.
14. The servicing of the fire pumps, jockey pump, motor and engine shall be **done twice in a year**. During the 1st quarter and 3rd quarter of the contract period to the entire satisfaction of the Officer nothing extra shall be paid on this account. The department will provide H. S. diesel, Water and electricity free of cost for its running and maintenance.
15. Department shall be in no way be involved in any dispute of whatever kind between the contractor & the staff engaged by him.
16. Contractor would be bound to execute such additional item which can be termed as logical essential & necessary (even though not listed in schedule of work) for the effective execution of the work in totally rates for such extra items of work shall be rationally analysed/derived & would be binding on the contractor.
17. Refilling of Fire Extinguishers will be arranged by **BMC at its own cost**.
18. The contractor undertaking the job is advised to verify the particular as detailed in annexure & satisfy itself as regards to the conditions & quantity. On termination of the contract the contractor shall have to hand over the installation in good working condition.
19. List of main equipment's:
whole executed work as per this tender, bidder find it will be considered under AMC.

MAINTENANCE SCHEDULE

Maintenance of Fire Alarm, Fire hydrant and Public Address System.

The following work/checks are required to be performed on Daily / Fortnight / Monthly / Quarterly / Half Yearly basis and record all the activities in the log book with date and time.

1. Fortnightly Checks

- a- Operational readiness of system during mains failure.
- b- Check battery water level and specific gravity.

2. Monthly Checks

- a- Check the fire circuit of each zone from the panels.
- b- Check whether signals of fire and fault get transmitted from zonal panel to main panel.
- c- Performance check of the hooters should be done. Performance check of manual call points.

3. Quarterly Checks

- a- Check fault circuit of each zone by actually disconnecting wire by removing a detector.
- b- Check fire circuits by actual smoke to one detector of each zone.
- c- Cleaning of all type of detectors with a cloth piece from outside.

4. Half Yearly

- a- Clean all the detectors with cleaner.
- b- Performance of system and smoke to one detector before they are cleaned.

Note: - Above activity has to be divided on weekly basis for available number of smoke detectors so that all the detectors are checked for their performance and cleaned once in six months.

To maintain the wet riser system the contractor should carry out the following operation in the presence of departmental officials.

- a- Daily check of the water pressure and smoke detectors in the system minimum 3.5 kg/sqm.
- b- Daily running of the fire hydrant pump, motor and diesel engine.

c- Daily checks of leakage etc. in the system.

d- Daily check of control panel.

e- Daily check of bell and siren for proper working.

f- Monthly cleaning of system i.e., draining the same etc. s required.

6. No tools & plants shall be supplied by the department.

7. Distilled water for batteries, cleaning material such as Vim/surf/cotton/ old dhotis, pilot lamp for indicating lamp, PVC tape etc. gland dori, grease for pump and motors shall be supplied by the contractor.

8. All spare parts and consumables required in main/zonal control panels like resistance, capacitors, and all cords shall be repaired/replaced free of cost.

9. All spare parts required for keeping the wet riser system in operation shall be arranged by BMC free of cost. However, the contractor will promptly inform BMC as and when such requirement arises.

10. Payment of AMC bill will be done from " 12 percent recovered amount in all RA bill of work under this contract."

After getting completion certificate for the whole project , AMC period will be started from that date. Contractor can claim 4 percent amount for each year for successfully completed AMC.

**MUNICIPAL CORPORATION
BHAVNAGAR**

VENDOR LIST

(A) LIST OF APPROVED VENDORS FOR CIVIL WORKS

Sr. No.	ITEMS	Approved Brands / Quality
1	CEMENT PPC 53 Grade & SULPHATE RESISTANT CEMENT,S.R.C.	Ambuja, Hathi, Ultra Tech, Sanghi, Siddhi, Hi-bond
2	BRICKS	MBM, Arjun, PBM, 555, Kisan, ABM, TRD, Paresh, Dhara, B.R.C., Kiran, BMB, Kirit, Sonal
3	Steel TMT, CRS	TISCO, SAIL, VIZAG, Kamdhenu, NATIONAL, Electrotherm, JSW, Welspun steel, Pollad Steel, DIAMOUND TMT, M. G. Steel, Friends Steel, Crown next TMT, Briskon TMT
4	VITRIFIED TILES	Asian, Kajaria, Jonson, Varmora, Simpolo, OASIS
5	CERAMIC TILES	Asian, Kajaria, Johnson, Varmora, Simpolo, OASIS
6	GLAZED TILES	Asian, Kajaria, Johnson, Varmora, Simpolo
7	ACRYLIC PAINT	ICI, Asian, Nerolac, Burger
8	OIL BOUND DISTEMPER	ICI, Asian, Nerolac, Burger
9	EXTERIOR WEATHER PROOF EMULSION PAINT	ICI, Asian, Nerolac, Burger
10	Oil Paint	ICI, Asian, Nerolac, Burger
11	SANITARY WARE	Cera, Hindware, Parryware
12	CAST IRON PIPES AND FITTINGS.	NECO, Swayarhoo, Bengal, Oriental Castings, Electro steel Castings
13	P.V.C. PIPES AND FITTING (UPVC/CPVC)	Finolex, Supreme, Jain, Kisan, Astral, Dutron, Prince
14	CHROMIUM PLATED WATER SUPPLY FITTINGS	Jaquar, Ess Ess, Plumber ,ESSCO, Crown, Metro, Prince
15	GALVANIZED PIPE	Tata, Essco, Jaquar, Ess Ess, Plumber
16	GALVANIZED FITTINGS	'R' Brand, 'RV' Brand, Kranti
17	C.I. MANHOLE COVER	Manish, Sil, NECO
18	PLUMBING FIXTURES	Jaguar, Plumber, Essco
19	PVC WATER TANK (100% VIRGIN PVC)	Sintex, Aqua
20	ALUMINIUM SHEETS AND ACCESSORIES	Nalco, Jindal, Hindalco, Banko

Sr. No.	ITEMS	Approved Brands / Quality
21	ALUMINIUM EXTRUDED DOOR/ WINDOW SECTION	Jindal, Hindalco, Banko, Ajin India, Aldowin, Alumilite
22	ALUMINIUM HARDWARE	Rajdoot, Belu, Diamond, Glider, Ajin India, Aldowin, Alumilite
23	WATER PROOFING MATERIALS	Zycosil, Dr. Fixit, Kerakoll, Pidilite, Roff
24	DOOR CLOSER	Efficient Gadget, Everite, Hardwin, Aldowin, Ozone
25	DOOR FITTINGS	Godrej, Efficient Gadgets (E.G.) Dunex, Doorset, Suzu, Coral
26	HINGES	Suzu, Yama, E.P.P.W.
27	SCREW AND BOLTS	Nettle Folds, GKW, Stud
28	BOLTS & FASTENERS	Hilti, Fisher
29	LIFT	Top, Express, Omega, OTIS, Schander, TRIO, Aegis Elevator, Mitsubishi, Aditya, Siemens slider
30	ROOFING MATERIAL – Galvalume sheets	TATA, Essar, Jindal
31	Slag Cement	SANGHI CEMENT Sanghipuram
32	CPVC PIPES FOR AUTOMATIC SPRINKLER FIRE EXTINGUISHING SYSTEM	ASTRAL POLY TECHNIK LIMITED પાર્કિંગ એરિયા, બેઈઝમેન્ટ એરિયા જેવા વિસ્તારો સિવાય માત્ર કન્સીલ્ડ પાઈપીંગ માટે આ કંપનીના CPVC pipe નો ઉપયોગ fire sprinkler piping માટે કરવાની મંજૂરી આપવામાં આવે છે.
33	AAC Blocks	NXTBLOC
34	Jointing Mortar	NXTFIX Block
35	Ready Mix Plaster	NXTPLAST
36	Block joining Masonry Mortar	Unifix
37	Tile adhesive	Unifix
38	RCC bench	Sardar Pre cast
39	Rubber mould garden curbin	Sardar Pre cast

Sr. No.	ITEMS	Approved Brands / Quality
40	Rubber mould Paver block	Sardar Pre cast
41	Fencing Pole	Sardar Pre cast
42	RCC Masonry block	Sardar Pre cast
43	Pre cast wall	Sardar Pre cast

(B) LIST OF APPROVED VENDORS FOR MECHANICAL & ELECTRICAL WORKS

Sr. No.	Description	Name of Manufacturer
1	HSCF Pump	Crompton Greaves Ltd
		Kirloskar Brothers Limited (KBL)
		JASCO
		Mather & Platt Pumps Ltd.
		Jyoti Ltd.
2	Electric Motor	Lubi Industries LLP
		Bharat Bijlee Ltd.
		Jyoti Ltd.
		JSL Industries Ltd.
		Jeumont Electrical India Pvt. Ltd.
	LHP	
3	Electrical Panel	Crompton Greaves Ltd
		Bhagyashree Power Control
		Dynamic Control System
		Elembica Services
		JSL Industries Ltd.
	Nutral Power Tech	
4	Kinetic Air Valve	Kirloskar Brothers Limited (KBL)
		FOURESS Engineering (India) Limited.
		Durga Valves Pvt.Ltd
		Orbinox
		ಶ್ರೀ. ಕ್ರಿಷ್ಣಾ. ಇಂಜಿನಿಯರಿಂಗ್
5	Expansion Bellows	Precise Engineers
6	Dewatering (Drain) Pump(Submersible/Horizontal)	KSB Pumps
		Kirloskar Brothers Limited (KBL)
		JASCO
		Crompton Greaves Ltd
		La Gajjar Machinery Pvt Ltd.
		Pullen Pumps Industries Pvt. Ltd.
	MBH	
7	Sluice Valves and Sluice Gate	Kirloskar Brothers Limited (KBL)
		DURGA Valves Pvt.Ltd
		L & T Valves
		Jupiter
		SACHDEVA
8	UPVC Pipe	Supreme Industries Ltd.,Mumbai
		Dutron Polymers Ltd
		Parixit Industries Ltd., A'bad
		Jain Irrigation Systems Ltd., Jalgaon
9	HDPE Pipe	Parixit Industries Ltd., A'bad
		Jain Irrigation Systems Ltd., Jalgaon
		Dutron Polymers Ltd
		Jindal
	Essar Steel	
10	C.I. Pipe	Electro Steel, Kejriwal, Oriental Castings, BIC, Jindal, Lanco Industries Ltd.,Chennai, Kesins
13	EOT Crane	Grip Engineering Pvt. Ltd., JAPS Project, Brady & Morris Engineering Co. Ltd., Techno Industries

Sr. No.	Description	Name of Manufacturer
14	Cable & Wires	KEI Industries Ltd.
		Polycab Wires Pvt. Ltd.
		Aerolex Cables Pvt. Ltd.
		Allwin Industries
		Finolex Cables
		L&T Cables
		ULTRA CAB (India) Limited
15	Transformer	Atlanta Electricals Pvt. Ltd.
		Powerlite Electricals
		Voltamp Transformers Ltd.
		SKP Transformers
		Arya Electronics
16	Components for MCC :	
	Switch	L&T, Siemens
	HRC Fuse	L&T, Siemens
	Timer	L&T, Siemens
	Relay	L&T, Siemens
	Push Button Stations	L&T, Siemens
	Indicating Lamp	L&T, Siemens
	Cable Jointing Kit	CCI, M. Seal
	MCB/DB's	MDS, Siemens, Indokupp
17	Capacitors	L&T, Crompton, Khatau Note: Capacitors shall be oil fill type
18	KWH Meter	Simco, Jaipur, GEC
19	Light Fittings: (Indoor & Outdoor Luminaries)	Philips, Crompton, Bajaj, NESSA Illumination
20	Exhaust Fans	Crompton, Bajaj,
21	Ceiling Fans	Crompton, Bajaj, Havells
22	Air Blowers	Everest Ltd.
		Swan Pneumatics (P) Ltd
23	Alum Dosing Pumps	Asia LMI
		VK Pumps
		Swelore
24	Pressure Gauges	General Instruments
		Bells Control
		H. Guru Marketing
25	Level Gauge / Indicator	R K Dutt
		Levecon
		S. B. Electromec
26	Clarifier Equipment	Enviro Control Associates
		Voltas Ltd
		Hindustan Dorr-Oliver
		Geomiller/Triveni
27	Chlorination System	Industrial Device (I) Pvt. Ltd
		Metito
		Chloroequip
		Pennwalt
28	Gear Box	Greaves
		Radicon
		Elecon
		Shanti

Sr. No.	Description	Name of Manufacturer
29	Level Switches	Level-Tech
		Revathi Electronics
		Levec
30	Refrigerator	LG, Samsung, Kelvinator
31	PVC Pipes for Fluid	Finolex, Jain Irrigation
32	PVC Conduits for Electricals	Precision, Shakti
33	Butterfly Valve	KIRLOSKAR Brothers Limited(KBL), DURGA valves Pvt Ltd, L & T valves, R&D MULTIPLE, Jupiter, श्री कृष्णम वल्व्स IVC, IVI, Audco, R & D multiple, Jupiter, Cair, Orbit Engineers
34	Check Valve (Dual Plate check Valve)	KIRLOSKAR Brothers Limited(KBL), DURGA valves Pvt Ltd, Orbinox, R&D MULTIPLE, Orbit Engineers
35	Metallic Expansion Bellow	Beloflex(B.D. Engineers), Stanfab Engineering Pvt. Ltd., D. Wren Engineering Pvt. Ltd., Sur Industries,
36	Centrifugal / Centrifugal Non Clog Pumps	Beacon Weir, KSB, Mather & Platt (Wilo), Worthington, WPIL, Xylem pumps , Grundfos Pumps Pvt. Ltd., MBH, JASCO
37	Submersible non Clog Pumps / Submersible Centrifugal Pumps	Kirlosker, KSB, ABS, ITT- Flyght, Xylem pumps, Grundfos Pumps Pvt. Ltd. , MBH, JASCO, AQUA, Jyoti, PULLEN PUMPS, Alpha, Het Pump
38	Screw Pump	Roto, Netzsch, Tushaco, Seepex
39	Metering / Dosing Pumps	Swellore, V.K. Pumps, Shapotools
40	Non Return Valves (Single / multi door) / Dual Plate Check Valves	Kirlosker, IVC, IVI, R & D multiple, Durga, Jupiter, Cair, Orbit Engineers
41	Knife Gate valves	Jash, Fouess, Vass (Dezurick), Vag, Orbinox, Orbit Engineers
42	Sluice gates / open Chanel Gates	Jash Engineering, IVC, R & D Multiple, Jupiter
43	Mechanical Fine Screens – Step (Mat) Type / Drum Type	Jash, Huber, Johnson, Savi, Italy, Apollo Screens
44	Mechanical Course bar Screen	Jash, Huber, Johnson, HDO, Triveni, Savi, Italy
45	Manual Bar Screen	Jash, Japs, HDO, Triveni, Auric
46	Grit mechanism	EIMCO – KCP, Hindustan Dorr – Oliver, Jash-Shivpad, Triveni, Voltas
47	Diffused Aeration System	EDI, OTT, Rehau
48	Air Blower	Kay, Swam, Everest, Usha Compressors, Gardner Denver
49	Agitator / mixer	Remi, Schurtek, Fibre & Fibre, Milton Roy
50	Gear Boxes	Greaves, Elecon, CPEC, PEPL, Bonfiglioli
51	Centrifuge	Humboldt, Alpha Laval, Hiller

Sr. No.	Description	Name of Manufacturer
52	HDPE Pipes	Astral, Dutron, Duraline, Narmada, RIL (PIL), Penwalt, Anjney, jain irrigation, Sangir
53	Air Compressor	Ingersoll – Rand, khosla, Kirlosker, CPE, Alpha
54	Bearing For All Equipments	SKF, FAG, Tata
55	Fasteners	Precision, Durakhanawala, Echjay, Tata, Sundaram
56	Mechanical Seals	Eagle Seals (Sealol), Durametalllic, Burgman
57	Electric Actuator	Auma ,Rotork, Emerson, Pentair
58	(1) CATEGORY III Indoor LED fittings, LED Panel light, LED down light, outdoor LED ligh (street light, LED flood light, LED Post top lantern, LED bollard) (2) Solar LED Light	NESSA ILLUMINATION TECHNOLOGIES PVT.LTD., Litsun, Nextray
59	STREET LIGHT POLES	AMBICA POLES (for octogonal poles,swage poles,street loght poles, high mast poles,decorative poles, conical poles, JETCOTECH Engineering LLP
60	Resilient Seated Slice Valve	Cair
61	Air Vale	Cair, Orbit Engineers
62	Flow Control valve	Cair
63	Altitude Control valve	Cair, Orbit Engineers
64	Pressure reducing valve	Orbit Engineers
65	Pressure relief valve	Orbit Engineers
66	Ball valve	Orbit Engineers
67	Mast pole	JETCOTECH Engineering LLP
68	Earthing material	JETCOTECH Engineering LLP
69	Hot dip galvanizing	JETCOTECH Engineering LLP
70	LED Highbay	Litsun

(C) LIST OF APPROVED VENDOR FOR INSTRUMENTATION SYSTEM

SR NO	DESCRIPTION	Name Of Manufacturer
1	Electromagnetic Flow Meter	E+H, Siemens, Abb, Fuji, Yokogawa, Krohne-Marshall, AAROHI Embedded System Pvt Ltd., Emerson, SBEM
2	Pressure Gauges	Wika, H.Guru, General Instruments Consortium Manometer (India) P. Ltd. , Baumer, Waaree
3	Pressure Switch	Danfoss , Indfoss , Switzer
4	Process Analyzers (pH, DO, Free / Residual Chlorine , BOD / COD)	E+H , Emerson , Hach , Chemitech , Polymetron, Wtw (Forbes Marshall),Yokogawa
5	Ultrasonic transmitter level / diff. level / flow	E+H, Siemens – Milltronics, Krohne, Vega
6	Hydraulic level transmitter	E+H,Siemens, ABB, Forbes- Marshall, Emerson, SBEM
7	Displacer/Float Switches	Levcon, Nivo, Toshbro, Pune Techtrol , SBEM
8	PP Float / Buoyancy switch	Pepprl + Fuchs, Baumer, Waaree, E+H , Pune Techtrol , SBEM
9	Float & Board Type Level Gauge	Levcon, Nivo, Toshbro, Pune Techtrol, SBEM
10	Electromagnetic Flow Meter	E+H, Siemens, ABB, Fuji, Yokogawa, Krohne-Marshall
11	Field Transmitter (P, DP,F, L , T)	ABB, Fuji, Yokogawa, Honeywell, Emerson
12	Pressure Gauges	Wika, H.Guru, General Instruments Consortium Manometer (India) P. Ltd., Baumer, Waaree
13	Panel Mounted Process Indicator & Flow Integrator	Masibus, Nishko, Nivam, Selectron, Radix, Yokogawa, ABB
14	Pressure Switch	Danfoss, Indfoss, Switzer
15	Programmable Logic Controllers	Rockwell (Allen Bradeley), Siemens, Schneider, Fuji, ABB, GE Fanuc
16	Control Panel Enclosure	Rittal, Enklotek, Bartakke, BCH, Eldon
17	Alarm Annunciator	Aplab Ltd., Minilec , IIC
18	Solenoid valves	Asco, Rotex, Schrader
19	Tube Fitting	Excel Hydropneumatic, Multimetal, Placka

20	Instrument Valves , Manifolds	Aptek, Anmol (Superlok), Excel Hydropneumatic, General
21	Fitting	Instrument Consortium , Multimetal, Technomatic, Placka
22	Pneum , Brass Fitting	Swagelok, Multimetal Industries, SMC, Festo
23	Control Panel Accessories / Components	
a.	Miniature Relay	Wago, Omron,Phoenix, Rockwell
b.	Indication Pilot Lamps (LED Type)	Teknic, Schneider, Siemens
c.	Push Button / Selector Switch (with NO/NC Elements)	Teknic, Schneider, Siemens
d.	DC Power Supplies (DIN Rail mounted)	Phoenix, Omron, Schneider, Rockwell
e.	Terminals	Elmex, Phoenix, Wago, Connectwell
f.	Panel Wires	Finolex , Havell's , R R Kabel
g.	Panel Illumination	Philips , Crompton , GE
24	Instrument Cables (Power , Signal , Control)	Associated Cables, Associated Flexible and Wires P.Ltd., Brooks Cables, Thermo Cables, Udey Pyro
25	Cable Glands	Ex- protecta, Braco, Sudhir, Comet, Connectwell
26	Junction Box	Ex- protecta, CEAG, Sudhir, Baliga, FCG
27	Cable Tray	M.M.Engineering, Globe, Jacinth, Equi. Reputed, JETCOTECH Engineering LLP
28	Computer System	HP-Compaq, Dell, IBM, Sony, Samsung
29	UPS	Hirel-Hitachi, Emerson, APC
30	<ol style="list-style-type: none"> 1. PLC (Programmable Logic Controller) 2. SCADA (Supervisory Control and Data acquisition) 3. VFD (Variable Frequency Drive Up to 500 KW) 4. ACB (Air Circuit Breaker up to 	MITSUBISHI ELECTRIC INDIA PRIVATE LIMITED, Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune 411026

	<p>6000A)</p> <p>5. MCCB (Moulded Case Circuit Breaker up to – 1600 A)</p> <p>6. MCB (Miniature Circuit Breaker up to – 63 A)</p> <p>7. ELCB (Earth Leakage Moulded Case Circuit Breaker up to 1600 A)</p> <p>8. Contractor up to – 800 A & OLR (Over load Relay) up to 630 A</p> <p>9. Multi Functional Meters</p> <p>10. MPCB (Motor Protection Circuit Breaker up to 32 A)</p>	
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**(D) LIST OF APPROVED VENDORS FOR MATERIALS RELATED TO WATER
SUPPLY AND SEWERAGE NETWORK**

SR. NO.	ITEMS	NAME OF AGENCIES
1	A C Pressure pipe MAZZA process	Lotus, Kirti
2	A C Pressure pipe MEGHNANI process	Lotus, Kirti, Hindustan
3	Sluice Valve	Durga, kartar, Kirloskar, Jupiter, SACHDEVA (C.I. & D.I.), શ્રી કિર્તિ ઇન્જિનીયરિંગ, Cair, Orbit Engineers
4	DI Pipe	Electrotherm (I) Ltd.,Ahmedabad, Lanco Industries Ltd.,Chennai, Electrsteel, Jindal Saw Ltd.,Ahmedabad, Kesins, Welspun
5	R.C.C. PIPE (COLLAR JOINT & SOCKET SPIGOT JOINT) CLASS NP3 & NP4, & R.C.C. COLLARS	VIPUL SPUN PIPES (SIHOR & LATHIDAD,BOTAD), KATARIYA & CO. (DHASSA), OMKARESHVAR PIPES (NAVAGAAM), OMKAR PIPES (LATHIDAD, BOTAD), MARUTI PIPES (BAGODARA ,AHMEDABAD), KALATHIYA PIPES(BAGODARA ,AHMEDABAD), R. S. PIPES (BODELI), UMA HUME PIPES (KALOL, GANDHINAGAR), SIDHDHIVINAYAK (KARDEJ ,BHAVNAGAR)
6	R.C.C. MACHINEOLE FRAME & COVER, INLET FRAME COVER 10T.(600*450 MM.) , 20T.,35T., & 50T.	SONI CEMENT PRODUCT , VIPUL SPUN PIPES, KATARIYA & CO., OMKARESHVAR PIPES, OMKAR PIPES, MARUTI PIPES, KALATHIYA PIPES , R. S. PIPES, UMA HUME PIPES, SIDHDHIVINAYAK , S.K. Corporation, Laxmi Price Industries, S.J.Corporation, Sardar pre cast
7	Stone ware PipeManufacturer having BIS Certificate for ISI marking	Krishna Pipe, j.K. Pipe, Taya ceramic, Burn & co., perfect Potteries, Navroji Vakil, Kashmira
8	D.I. & C.I. FITTINGS	RG BRAND, ESSEM Engineering Industries, Bikaners Engineers works
9	CID Joints	ESSEM Engineering Industries
10	Valves & Graded Castings	ESSEM Engineering Industries
11	Pipe Fittings	ESSEM Engineering Industries, Bikaners Engineers works
12	CI/DI/MS graded castings	Bikaners Engineers works
13	Scaper machine hole	Sardar Pre cast

19.0 HANDING OVER:

All commissioning and testing shall be done by the Contractor to the complete satisfaction of the Engineer-in-Charge / Consultants, and the job handed over to the Client. Contractor shall also hand over to the Client all maintenance and operation manuals and all items as per the terms of the contract.

A. CODES & STANDARDS

SR. NO.	IS NO.	TITLE
1	IS: 325	Motors
2	IS:458	Hume Pipe
3	IS:636	RRL Hose
4	IS:778	Gun Metal valves
5	IS:14846	Sluice valve
6	IS:884	Fire Hose Reel
7	IS:903	Fire Hose, couplings, branch pipe, nozzles
8	IS:1239 / 3589	G. I. Pipe / M.S. pipe
9	IS:5132	Rubber Hose Pipe
10	IS:13095 / API 609	Butterfly valves
11	IS:5290	Fire Hydrants
12	IS:5312 / API 594/598	Non-Return Valves
13	IS:6595 / 12469	Pumps
14	IS:8423	C. P. Hose
15	IS:10001 / 10002	Diesel Engine
16	IS:10221	Coating / wrapping of underground M.S. pipe
17	IS:15683	Fire Extinguishers
18	IS:12349	Signages

B. MAKE LIST

SR NO	ITEM DESCRIPTION	MATERIAL
1	Fire Pumps	Lubi/ Kilosker/AQUATEX
2	Diesel Engine	Lubi/ Kilosker/AQUATEX
3	G.I / MS. Pipes	Jindal/ Asian/ Surya
4	Pipe Fittings	Jindal/ Asian/ Surya
5	Valves	Sant/ Zoloto/ protecto fire
6	M. S. Flanges	Sant/ Zoloto/ Jindal/ Asian/ Surya/ protecto fire
7	Foot Valve with Strainer	Sant/ Zoloto/ Jindal/ Asian/ Surya/ protecto fire
8	Strainers	Sant/ Zoloto/ Jindal/ Asian/ Surya/protecto fire
9	Flow Meter	Sant/ Zoloto/ Jindal/ Asian/ Surya/ protecto fire
10	Pressure Switch	L&T/ ISI
11	Pressure Gauge	H-guru
12	Anticorrosive Materia	ISI
13	Hydrant Valves	Swati/ Newage/ protecto fire/ISI
14	Branch Pipe with Nozzle	Swati/ Newage/ protecto fire/ISI
15	Fire Hoses	Swati/ Newage/protecto fire/ISI
16	Hose Couplings	Swati/ Newage/ protecto fire/ISI

17	Hose Reel	Swati/ Newage/ protecto fire/ISI
18	Hose Boxes	Swati/ Newage/ protecto fire/ISI
19	Fire Extinguishers	Kanex/ ceasefire/minimax/securezone/ISI
20	Flow Switch	ISI
21	Paints	ISI
22	Air Release Valve	Sant/ Zoloto/ protecto fire
23	SIREN / Hooter	Agni/ASES
24	Smoke /Heat / Beam/ LPG/Duct /High Sensitivity Detectors	Agni/ASES
25	Fire Alam Control Panel Repeater Panel	Agni/ASES
26	Hooter / Sounder/ Fault isolators	Agni/ASES
27	Manual Call Point / Resporise Indicator	Agni/ASES
28	Cabel 2 core	Polycab/ISI/ASES
29	PUMP ON-OF SWITCH	Agni/ASES

(NOTARIZED) 300 RS . NON JUDICIAL STAMP PAPER

DRAFT

MEMORANDUM OF UNDERSTANDING

This MOU is executed on date/month/ 2024 between Principle Civil contractor M/s (civil contr)through its Authorized Person who confirms he duly authorized to sign on behalf of M/s(civil contr)

Fire and Safety contractor (installation testing commissioning and 3 year O & M with defect liability work of all the fire and safety system) M/s.....fire and safety contr.....through its Authorized person who confirms he is duly authorized to sign on behalf of M/s.....fire and safety contr.....

Both parties are desirous to participate in respect to the tender invited by Bhavnagar Municipal Corporation.

For the works:

“ Providing fire safety facility at Various Municipal Buildings of Bhavnagar Municipal Corporation “

Whereas both parties are interested in bidding for the above-mentioned tender and subsequently executed the project in accordance with the scope briefly describe in the following paragraphs of this MOU:

1. Fire and Safety system contractor: Name of firm M/s
 - (a) To carryout Fire and Safety system work : Providing, supplying, installing, testing commissioning and AMC work with defect liability for 03 years and taking NOC etc miscellaneous works as per tender terms condition and B.O.Q of Fire and Safety system part of tender at proposed sites.
 - (b) Fire and Safety system contractor Fulfils all the Qualifying Criteria mentioned in the tender documents to be a Nominated as a Filtration Plant Contractor.
 - (c) Defect liability as per tender terms and condition of Fire and Safety system of tender.
 - (d) Fire and Safety system contractor will be wholly responsible for quality of Fire and Safety System of contract and for rectification of defective work up to defect liability period.
2. Civil Contractor : Name of Principal Contractor. M/s Civil contractor.....

- (a) To carry out civil work as per tender terms and condition of part of civil work at proposed site.
- (b) Stand guarantee for all the materials and works executed by them as per tender.
- (c) Execution of Civil Works and other works as mentioned in the tender documents.
- (d) Liaison & Co-ordinations with Fire and Safety system Contractor and AMC.
- (e) Principal Contractor sublet Fire and Safety work only to party mentioned in Memorandum of Understanding (M.O.U) . No. Other party is allowed to carry out Fire and Safety system work other than mentioned in the M.O.U.

By virtue of being designated as the Principal Contractor, it has been decided that M/s... Civil Contra..... would submit the tender for the project and M/s ... Fire and safety contr.....shall support for technical execution for Fire and Safety system work and other relevant systems for Fire and Safety Systems.

All Deposits like EMD/Security Deposited will be made by the Principal Contractor name M/s.....Civil Contr.....and the payment will be made by Bhavnagar Municipal Corporation directly to the Principal Contractor against the Bill raised by them.

In no case, for whatever , it may be, Bhavnagar Municipal Corporation shall be free from any liabilities (Financial specifically) with the Fire and Safety System Contractors.

This MOU is made at location..... on date / month 2024.

Principal Contractor-Civil Contractor	Fire and Safety Contractor
Name :	Name :
Sign :	Sign :
Stamp:	Stamp:
Authorized person	Authorized person