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**National Agricultural Cooperative Marketing**

**Federation of India Ltd. (NAFED)**

**B2**

**TENDERPAPERS**

**NAME OF WORK: NAFED INVITES BIDS FOR PROPOSED RENOVATION, RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE 1)**

**TENDER VALUE: Rs. 12.21Crores**

## E-TENDER NOTICE NO. 01

**National Agricultural Cooperative Marketing Federation of India Ltd. (NAFED)**

NAFED House, Siddhartha Enclave

Ring Road, Ashram Chowk,

New Delhi-110014

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**NAMEOFWORK: NAFED INVITES BIDS FOR PROPOSED RENOVATION, RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE 1)**

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**NAFED**

E-Tender Notice No. 01

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Online E-Tenders in **"B-2"Form** for the following works invited by NAFED, for Contractor whose branch in India and also complete terms and conditions mentioned in tender document.  Tender document downloads on our website https://www.nafed-india.com. Right of rejection of E-tender / cancellation of E-tender reserved by theNAFED, \*Conditional Tender will not be accepted.  Tender Forms can be purchased from the Tendering Portal of NAFED website https://www.nafed-india.com or by depositing EMD & Cost of tender after paying Tender Fees via online mode as per the Tender Schedule. Once the EMD and Cost of Tender is paid as per this document, you have to email the proof of payment to [shankarsrivastava@nafed-india.com](mailto:shankarsrivastava@nafed-india.com) to receive tender document. | | | | | | |
|  | **Sr. No.** | **Name of Work** | **Estimated Cost put to tender (Exl. GST)** | **Earnest Money** | **Cost of Tender**  **Form + GST** | **Time Limit of completion**  **of work** |
|  | **1** | NAFED INVITES PROPOSAL FOR PROPOSED RENOVATION, RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE-1) | **Rs.12.21Crs** | **Rs.12.21Lacs** | **Rs.15,000 + 18% GST extra**  (Nonrefundable)  **[To be deposited with EMD]** | **Part 1- 1000 ton facility- by 30.04.2025**  **Part 2- Rest of all works by 31.05.2025.** **DLP:** 2 years from Date of completion overall and other DLP as per tender |
| **E-TENDER SCHEDULE** | | | | | | |
|  | **Sr.**  **No.** | **Stage** | **Start**  **Date & Time** | | **Expiry**  **Date & Time** | |
|  | 1 | Publishing date and Time | 07.04.2025  From 11:00 hrs. | | -- | |
|  | 2 | Tender Start and End date, Time | 07.04.2025  From 11:00 hrs. | | 22.04.2025  Upto 12:00 hrs. | |
|  | 3 | Pre-Bid Meeting date and Time | 15.04.2025  At 11.30 hrs | | -- | |
|  | 4 | Bid Submission Start and End date, Time | 07.04.2025  From 11:05 hrs. | | 22.04.2025  Upto10:00 hrs. | |
|  | 5 | Bid Technical and Financial Opening Date and Time | 22.04.2025  From 12:00 hrs Onwards | | -- | |
| **ADDITIONAL INFORMATION ABOUT SCHDULE** | | | | | | |
|  | **1** | **Date, Time and Venue of Pre-Bid Meeting** | **Date & Time:** As per above table  Share your pre bid by email on  [shankarsrivastava@nafed-india.com](mailto:shankarsrivastava@nafed-india.com)  It will be replied in 1-2 days of time. | | | |
|  | **2** | **Hard Copy Submission** | Before Bid closing / last date& timeon below address in 2 sets  **National Agricultural Cooperative Marketing Federation of India Ltd. (NAFED)**  NAFED House, Siddhartha Enclave Ring Road, Ashram Chowk, New Delhi-110014 **Telephone EPABX:** 011-26340019**Fax:** 091-11-26340261 | | | |
|  | **3** | **Date, Time and Venue of Opening of Financial Bid (Envelope No.2)** | **Date & Time:** As per above table  **Address:**  **National Agricultural Cooperative Marketing Federation of India Ltd. (NAFED)**  NAFED House, Siddhartha Enclave Ring Road, Ashram Chowk, New Delhi-110014 Telephone EPABX: 011-26340019**Fax: 091-11-26340261** | | | |

**NOTE:**

1. All eligible/interested tenderers are required to deposit EMD Plus Cost of tender with 18% GST. If the Cost of tender with GST or EMD, either of them are not deposited, tenders will be rejected. EMD shall not have GST.
2. Tendersarerequestedtocontactonfollowingtelephonenumbersanydoubts/information/ difficultyregarding on line enrollment or obtaining digital certificate.
3. ContactUs-[shankarsrivastava@nafed-india.com](mailto:shankarsrivastava@nafed-india.com)
4. DocumentTenderFeetobepaidviaonlinemodeonly in given account number in the tender.
5. Alloranyoneofthetendersmayberejectedbythecompetentauthority
6. Pre-Qualificationcriteriaconditionincludedintenderdocument
7. Envelope No 1 – Technical Bid and Envelope No 2- Financial Bid in prescribed format only. Envelope No. 1 (technical documents in an open ZIP folder) and Envelope No. 2 (password-protected Excel file) must be submitted via a single email as two separate attachments. If Envelope No. 2 is found to be not password-protected, NAFED reserves the right to accept or reject the tender without providing any justification. Any submission missing either Envelope No. 1 or Envelope No. 2 will be automatically rejected without explanation.
8. Envelope No 2 (Financial bid) should be submitted by password protected excel file via email only. No hard copy submission for envelope no 2 is required.
9. You have to enter rates in the excel (i.e. Envelope 2) provided with this tender. Tentative Quantities are mentioned in the excel BoQ.
10. The password for the Excel file in Envelope No. 2 shall be provided only to NAFED authorities at the time of the financial bid opening, in the presence of the tenderer or their authorized signatory. Those bidders who remain absent at the time of financial bid (envelope 2) opening or passwords are not given / not availableon financial bid opening date, their bids will not be open and NAFED shall assume no responsibility in that case.
11. Only tenderers who qualify in the technical bid (Envelope No. 1) will be invited for the financial bid opening.The tenderer must share the password for Envelope No. 2 on the scheduled date in the presence of the authorized representative of NAFED and himself.
12. Do not share the password with anyone in advance or outside the presence of the authorized signatory.NAFED holds no responsibility for any leakage of the password or bid information.
13. Envelope No. 1 should not be password-protected and must remain open for verification.
14. All communication email- [**shankarsrivastava@nafed-india.com**](mailto:shankarsrivastava@nafed-india.com). No other form of communications will be accepted.
15. **All bidders should note that 1000 tons facility should be ready by 30.04.2025 in all respect and rest of all the tender works should be completed by 31.05.2025. No extension of time will be provided. Only prompt and capable bidders are invited for tender participation.**
16. Decision of NAFED and its engineer in charge / Architect shall remain binding on contractor in all respects. Read all terms and conditions of the tenders very carefully in all respect. No claim will be entertained later on any grounds.

## D I S C L A I M E R

1. Detailed Time Table for the various activities to be performed in tendering process by the Tenderer for quoting their offer is given in this tender Document under Tender Schedule. Contractor should carefully note down the cut-off dates for the carrying out each process / activity.
2. Every effort is being made to keep the Website upto date and running smoothly 24 x 7 by the Government and the Service Provider. However, Government takes no responsibility, and will not be liable for, the website being temporarily unavailable due to any technical issue at any point of time.
3. In that event NAFED will not be liable or responsible for any damages or expenses arising from any difficulty, error, imperfection or inaccuracy with this Website. It includes all associated services, or due to such unavailability of the Website or any part thereof or any contents or any associated services.
4. Tenderers must follow the time table of tendering process and get their activities of tendering processes done **well in advance** so as to avoid any inconvenience due to unforeseen technical problem if any.
5. NAFED will not be responsible for any incomplete activity of tendering process of the tenderer due to technical error/ failure of website and it cannot be challenged by way of appeal, arbitration and in the Court of Law. **Contractors must get done all the tendering activities well in advance.**

## DETAILSOFWORK

**NAME OF WORK: NAFED INVITES BIDS FOR PROPOSED RENOVATION, RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE-1)**

EstimatedCostputtotender : **Rs.12.21Crores**

EarnestMoney : **Rs.12.21Lacs**

The EMD applicable amount shall be paid via Online mode only.

Bank Details are as follow. Tenderer shall attach the EMD receipt in the online tender.

|  |  |  |
| --- | --- | --- |
| BANK NAME and BRANCH | BANK ACCOUNT NO. | IFSC Code |
| Union Bank, Pimpalgaon Branch, Nashik | 597002010009304 | UBIN0559709 |

### TENDERSCHEDULE

|  |  |
| --- | --- |
| Cost of Tender Form(Includin gG.S.T.) | : As per NIT |
| E-tender Website | : https://www.nafed-india.com |
| Period fo rDownloading Tender Forms | : Refer NIT |
| Last date and time for online bid preparation and hash submission (technical and financial) | : Refer NIT |
| Date and time for online bid data decryption and re-encryption (technical andcommercial) | : Refer NIT |
| Receiptofonline EMD/stamppaper of Rs. 500/- bond Affidavit (Original) in prescribedformatgiveninAnnexureI sworn before Executive Magistrate / Notary andTenderDocumentfees,tobepaid onlineby depositing in the bank account mentioned in the tender document. | : Document Tender Fee to be paid via online mode only |
| Hard Copy Submission | : 2 Sets of hard copies to be submitted as per NIT |

### TOBEFILLEDINBYTHECONTRACTOR (Rs 500 Bond, Notarised)

I/We have quoted my/our offer in rate in words as well as in figures. I/We further undertake to enter into contract in regular “B-2” form in NAFED.

Name and signature of Contractor / Power of Attorney holder with complete address

Witness:

###### NAFED

**INVITATION FOR TENDERS**

**DETAILEDTENDERNOTICE**

**NAME OF WORK: NAFED INVITES BIDS FOR PROPOSED RENOVATION, RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE-1)**

Online lump sum offer on contractors in "B-2" form are invited by the **NAFED,** for the following work from**CapableandEligibleContractor**.The name of work, estimated cost, earnest money, security deposit, time limit for completion etc. are as under.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Nameofwork** | **Estimated Cost (Rupees)** | **Earnest Money (Rupees)**  **(Online)** | **Security Deposit (Rupees)** | **Class of Contractor** | **Timelimit in Tender (Calendar**  **Months)** |
| 1 | **NAFED INVITES PROPOSAL FOR PROPOSED RENOVATION, RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE-1)** | Rs. 12.21Cr | Rs. 12.21Lacs | 5% of the Awarded Price Valid till DLP of 2 years | N/A | As mentioned in the document / NIT |

Tender Forms can be purchased from the Tendering Portal of NAFED website https://www.nafed-india.com or by depositing EMD & Cost of tender after paying Tender Fees via online mode as per the Tender Schedule. Once the EMD and Cost of Tender is paid as per this document, you have to email the proof of payment to shankarsrivastava@nafed-india.com to receive tender document.

The Bids will be opened as per the Tender Schedule, in the presence of such intending Tenderers or his/ their authorized representatives who may be present at that time.

###### TENDERINGPROCEDURE:

* 1. A.Blank Tender Forms

Tender Forms can be purchased from the Tendering Portal of NAFED website https://www.nafed-india.com or by depositing EMD & Cost of tender after paying Tender Fees via online mode as per the Tender Schedule. Once the EMD and Cost of Tender is paid as per this document, you have to email the proof of payment to [shankarsrivastava@nafed-india.com](mailto:shankarsrivastava@nafed-india.com) to receive tender document.

###### BPRE-TENDERCONFERENCE:

* + 1. The Pre – tender conference will be open to all prospective tenderers, who will submit the Tender Fee, prior to the time of pre–tender conference, and obtain receipt from **NAFED.**
    2. Date and Time of Conference shall be as per the NIT of this document.
  1. ENVELOPENo.1:(Documents Required)

**The bidder must purchase the bidding documents via online mode by filling the cost of Tender.**

Thefirstenvelope“EnvelopeNo.1”shallcontainthefollowingdocuments.

* + 1. TheEMDwillbepaidviaonlinemode.
    2. Copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
    3. The Cost of Bidding Documents and Bid Security (EMD) will be paid via online mode. This payment of this shall be made only from the authorized account of the bidder and bidder shall upload the scanned copy of Screen shot of such payment made online.
    4. Registration copy if Registration with company of Registrars
    5. Scanned from original copy of valid GST registration certificate from Tax Dept
    6. ScannedfromoriginalcopyofProfessionalTaxRegistrationCertificateinthe formofPTRandPTECboth.ANDProfessionalTaxClearanceCertificate of PTEC and PTR Both OR challan paid upto 31.3.2024 PTEC and PTR both.
    7. Scanned from original copy of list of works in hand and works tendered for along with supporting certificates.
    8. ScannedfromoriginalcopyoflistplantsandMachinery
    9. All Envelope No 1 (Technical bid) should be submitted in hard copy as well as by email to NAFED authorized email.
    10. Envelope No 2 (Financial bid) should be submitted by password protected excel file by email only. No hard copy submission for envelope no 2 is required. Passwords shall be given to NAFED authorities on [shankarsrivastava@nafed-india.com](mailto:shankarsrivastava@nafed-india.com). Once technically qualify the tenderer will be called for opening and tenderers have to share the password with authority on the date of opening the tender in presence of authorized person of contractor. DO NOT SHARE PASSWORD without presence of authorized signatory of the tenderer. NAFED will not own any responsibility of leakage of password or bid in any manner. Envelope no 2 will be opened for only those who qualify in the technical bid (envelope no 1). Envelope no 1 SHOULD NOT BE password protected and should be open for verification.
    11. **UseofSpecialisedMachinery**

###### QUESTIONAIREONMACHINERY: -

Proforma for information regarding availability / procurement of machineryrequiredforthiswork.ProofofOwnership/hireoffollowingmachinery should be submitted as per the table only.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.**  **No.** | **Machinery** | **No. of Machinery** |  |
|  | RMC Plant of at least 60 Cum/hr in Nashik District | 01 | Owned  (The Plant must be within Nashik District) |
|  | Excavator | 02 | Owned |
|  | Tipper / Hywa | 06 | 03 hired are allowed |
|  | Transit Mixer | 08 | 03 hired are allowed |
|  | Crane / Hydra | 01 | Owned |
|  | DG Set | 02 | Owned / Hired |
|  | Water Tanker (min 12 KL) | 02 | Owned / Hired |
|  | Concrete Pump | 02 | Owned |

* 1. Scannedcopy ofproofofownership/hiredattachedherewithshallbe produced.
  2. No intention of purchasing machinery shall be entertained. Original GST invoice is required
     1. Scanned from original copy of Details of work done during last 5 years with supporting certificates.
     2. ScannedfromoriginalcopyofListofTechnicalPersons/employee.
     3. Scanned from original copy of affidavit regarding completeness, correctness and truthfulness of documents submitted on Rs. 500/- Stamp paper as per prescribed proforma given in Annexure I sworn before Executive Magistrate/ Notary,
     4. ScannedfromoriginalcopyofRegistrationoffirm,PartnershipDeedandPower of Attorney, in case of a firm tendering for work.
     5. Reports on the financial standing of the Bidder, such as profit and loss statements and Annual Turnover regarding of contract receipt for the past Five years duly certified by Chartered Accountant.
     6. Statement No. 7 regarding details of bidders bank account from which tender fee and EMD is paid online shall be scanned and uploaded. If bidder fails to upload this documents the bid will be rejected.
     7. **All the documents from Sr. No. 1.4.1 to 1.4.15 shall be given by contractor in EnvelopeNo.1correctlyandcompletelyotherwisehisEnvelopeNo.2will not be opened**.

Even though the Bidders meet the above qualifying criteria, they are subject to be disqualified if they have made. Misleading or false representations in theStatements, attachments submitted in proof of the qualification requirements.

AND/OR

Record of poor performance such as abandoning the works, not properly completing thecontract,inordinatedelaysincompletion,litigationhistoryorfinancialfailuresetc.

###### QUALIFICATIONCRITERIA: -

To qualify for award of the contract each tenderer in his name should have in last Five years:

1. Achieved a maximum annual financial turnover **(in all classes of civil engineering constructionworksonly**)inlastFiveyears**Rs50Crs.** In support of this, attested copy of Annual Audit Report certified by the Chartered Accountant in which indicates contract receipts should be submitted and also be submitted the work done certificates issued by competent authority (not below the rank of executive engineer)
2. Satisfactorily completed as a prime contractor of **at least one similar\*type of work (Building Work)** during last Fiveyears of value not less than**Rs 40 Crs**at price level of 2024-2025 (Information to be given in Form No. III) and in support of this work done certificates issued by officer not below the rank of Executive Engineer should be produced. More than 90% of completed works in physical and financial forms will also be considered.
3. Satisfactorily executed in any one year of last Five years for the following maximumquantitiesofthework(information to be uploaded in statement No. VI) in support of this quantity certificates issued by officer not below the rank of Executive Engineer should be produced.
4. Owned Office in Maharashtra is must in the last 5 years. Proof to be presented in the Envelope 1 at the statement no 8.

For(a)to(e)informationsubmittedinanyotherformwillnotbeconsidered.

|  |  |  |
| --- | --- | --- |
| 1. | RCC Works | 15000Cubic Meter |
| 2. | TMT Steel Works | 2000 MT |
| 3. | PEB Works | 2500 MT |
| 4. | HVAC Works | Rs. 7.5 Crs |

**Note No.1**Financial turnover and cost of completed works of previous year shall be given linear weightage of 10 % per year on rupee value to bring them at 2024-2025price level. Completed works should be at least 90% finished and certificate of the same shall be produced. Weightage will be calculated from the date of commencement of the works.

**Note No.2**All these uploaded statement/ forms shall be filled in and signed properly and correctly. If these forms are found incomplete or filled or wrongly filled, Contractor’s envelope No. 2 (financial Bid) will not be opened.

**NoteNo.3**AlltheuploadedScannedCopiesofthenecessaryCertificatesshallbelegible.

Nonreadableuploadedscannedcopiesshallnotbeconsidered.

**Note No.4**Uploading of documents in the briefcase does not mean that the documents are available to NAFED at the time of Tender Opening stageunlessthedocuments are specifically attached to the bid during the online Bid Preparation and Hash Submission stage as well as during decryption and Re-encryption stage**.**

**Note No. 5** Certificates / Work done from Non-Government Bodies will be accepted subject to Certificate from Architect registered with Council of Architect.

**Note No. 6** This tender is the only for the first phase of works. The works may expand to several phases in forthcoming future without any liability to the NAFED. So the rates put up in the tender shall be valid upto 1 year.

EachContractorshouldfurtherdemonstratetheavailabilityofthefollowing keyandcriticalequipmentshouldbeOwnedbythecontractorandbeactually inhispossessionandavailableexclusivelyforthisworkatthetimeof submission of tender (Information is to be uploaded Statement No2A)

1. AvailabilityofaProjectManager forthis workwithexperience inconstruction of similar type ofwork and other key personnel with adequate experience as required (Information to be uploaded in Statement No. IV)

|  |  |  |
| --- | --- | --- |
| **TechnicalPersonnel** | **Number** | **ExperienceinRoad&BridgeWorks** |
| ProjectManager | 1 | B.E.Civil+12YearsorDiploma+15Years’ Experience |
| SiteEngineer | 2 | B.E.Civil+10YearsorDCE+13Years’ Experience |
| Planning Engineer | 2 | B.E.Civil+10YearsorDCE+13Years’ Experience |
| QuantitySurveyor cum Billing Engineer | 2 | B.E.Civil+3YearsorDCE+5Years’ Experience |
| QualityControlEngineer | 2 | B.E.Civil+5YearsorD.C.E.+5Years’ Experience |
| Surveyor with total station | 1 | ITI / Diploma + 10 years |
| Office admin staff | 2 | Any 12th Pass and above |

TheNecessarycertificatesasmentionedinqualificationcriteriaforsr.no.(a)to(c) are required to be attached from AICTE approved institutes.

###### ENVELOPENO.2TENDER(FINANCIALBID)

1. Thesecondenvelopeclearlymarkedas“EnvelopeNo.2”shallcontainonly themaintenderincludingtheCommonSetofConditions/Deviationissued by the NAFED Authorities after the pre-tender Conference. A tender submitted without this would be considered as invalid. It should be sent by email with password protection. Files without password protection will be rejected.
2. The Tenderer should quote his offer only through onlinebidding process **in form of Bill of Quantity** in terms of percentage of estimated rates. He should not quote his offer anywhere directly or indirectly in Envelope No.1. The contractor shall quote for the work as per details given in the main tender and alsobasedonthedetailedsetof conditions issued/Additionalstipulations made by the NAFED. His tender shall be unconditional.
3. Financial offertobesubmittedOnline by email only.
4. If the Bid of the successful Bidder is seriously unbalanced in relation to the Architect’s / Engineer’s estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed rate analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the Construction methods and schedule proposed. After evaluation of the rate analysis to be submit binding and conclusive on the bidder.
5. Envelope No 2 (Financial bid) should be submitted by password protected excel file by email only. No hard copy submission for envelope no 2 is required. Passwords shall be given to NAFED authorities on [shankarsrivastava@nafed-india.com](mailto:shankarsrivastava@nafed-india.com). Once technically qualify the tenderer will be called for opening and tenderers have to share the password with authority on the date of opening the tender in presence of authorized person of contractor. DO NOT SHARE PASSWORD without presence of authorized signatory of the tenderer. NAFED will not own any responsibility of leakage of password or bid in any manner. Envelope no 2 will be opened for only those who qualify in the technical bid (envelope no 1). Envelope no 1 SHOULD NOT BE password protected and should be open for verification.

###### SUBMISSIONOFTENDER:

Refer to Section ‘**Guidelines to Bidders on the operations of Electronic Tendering System of NAFED**’ for details.

PhysicalSubmission:

The bidder shall submit the Hard Copy in "**Sealed Envelope**" of Technical Bidsasspecifiedin tender document.

###### OPENINGOFTENDERS:

On the date, specified in the Tender Notice, following procedure will be adopted for opening of the Tender.

1. ENVELOPENO.1:(Documents)

First of all, Envelope No.1 of the tender will be opened online to verify its contents as per requirements. If the various documents contained in thisenvelope do not meet the requirements of the NAFED Authorities, a note will be recorded accordingly by the tender opening authority and the said tenderer’s Envelope No.2 will not be considered for further action and the same will be recorded.

The decision of the tender opening authority in this regard will be final and binding on the contractors.

1. ENVELOPENO.2:(FinancialBid)

Envelope No 2 (Financial bid) should be submitted by password protected excel file by email only. No hard copy submission for envelope no 2 is required. Passwords shall be given to NAFED authorities on [shankarsrivastava@nafed-india.com](mailto:shankarsrivastava@nafed-india.com). Once technically qualify the tenderer will be called for opening and tenderers have to share the password with authority on the date of opening the tender in presence of authorized person of contractor. DO NOT SHARE PASSWORD without presence of authorized signatory of the tenderer. NAFED will not own any responsibility of leakage of password or bid in any manner. Envelope no 2 will be opened for only those who qualify in the technical bid (envelope no 1). Envelope no 1 SHOULD NOT be password protected and should be open for verification.

###### EARNESTMONEY:

1. Earnest money of minimum as mentioned in tender document shall be paid via online NEFT/RTGS.

After Tender opening, the EMD of the unsuccessful bidder will be returned to account provided by the bidder during the bid preparation as given in challan under Beneficiary Account Number.

1. EarnestMoneyintheformofchequesoranyotherformexceptabove will not be accepted.
2. The amountwillbe refundedto the unsuccessful tendererson deciding about the acceptance or otherwise of the tender. In case of successful tenderer, it will be refunded on his paying Security Deposit and completing the tender documents in form B-1.

###### SECURITY DEPOSIT / PERFORMANCE GUARANTEE:

The successful bidder shall deposit irrevocable and unconditional bank guarantee of 2.5% on the awarded contract price in 5 days of letter of award from NAFED.The bank guarantee shall be in favour of **National Agricultural Cooperative Marketing Federation of India Limited** and should be valid till DLP of 2 years. Agreement shall be signed immediately on submission of Bank Guarantee and start will be next day of signing of agreement. The security deposit shall be released after the completion of 2 years of DLP.

###### RETENTION MONEY

Retention money of 2.5% will be deducted from each RA Bill and will be released upon the satisfactory completion of the works after DLP. Other retention money provisions, as outlined in the tender, shall apply to the guarantees provided by the contractor and will not be released upon completion of the works. For clarification, retention money deducted from RA Bills will be released only after the completion of the works. However, retention money held against the guarantees provided by the contractor will be released in accordance with the terms specified in the contract or tender agreement.

* 1. **A. CONDITION FOR PAYMENT OFADDITIONAL PERFORMANCE SECURITY DEPOSIT IF THE OFFER IS RECEIVED LOWER BELOW:**

Incaselowestsuccessfulbidder’sofferfoundbelowthantheestimatedcostputtotender, inthatcase,thetenderershallhavetopayAdditionalPerformanceSecuritydepositdrawn in favour of the concerned NAFED(*in form ofB.G. only*)within5(five)days fromthedateof openingof financial bid i.e 2nd envelope as specified below;

|  |  | **Additional Security Deposit** |
| --- | --- | --- |
| 1. | For offer upto 10% below the estimated cost put to tender | 5 % |
| 2. | For offer upto 15% below the estimated cost put to tender | 10 % |
| 3. | More than 15% below the estimated cost put to tender | 15 % |

1. AmountofAdditionalPerformanceSecurityShouldbe roundeduptotwodecimal only.
2. All above B.G. shall be either of Government Bank or Scheduled Bank drawn in favour of Concerned NAFEDonly. In respectofF.D.R./B.G.it’sdulymentioningtheMICRandIFSC code of said bank shall be mentioned specifically on the said B.G.
3. Successful Tenderer’s Additional Performance Security will be refunded immediatelyupontheCertificateofsatisfactorilycompletionofworksissuedby NAFED. In all other cases additional Performance Security shall be forfeited to Government.
4. In caseof lowest successful bidder whose offer found morethan1% belowfails or neglectstodeposit the Additional Performance Security within5 (five) specified days, then his EMD shall be forfeited to Government and 2nd lowest tendererwillbecomelowestandwillbenegotiatedforawardofwork so on and so forth.
5. The said amount of Additional Performance Security shall not carryanyinterest whatsoever.

###### 1.9.B INTEGRITYPACT:

Successful Bidder shall have to submit Integrity Pact in prescribed Format (Annexure – A) on Rs. 500/- Stamp Paper alongwith EMD details.

###### ISSUE OF FORMS:

###### Tender Forms can be purchased from the Tendering Portal of NAFED website https://www.nafed-india.com or by depositing EMD & Cost of tender after paying Tender Fees via online mode as per the Tender Schedule. Once the EMD and Cost of Tender is paid as per this document, you have to email the proof of payment to shankarsrivastava@nafed-india.com to receive tender document.

###### TIME LIMIT:

The work is to be completed within time limit as specified in the N.I.T. which shall be reckoned from the date of written order for commencing the work and shall be inclusive of monsoon period**.**

###### TENDER RATE:

No alteration in the form of tender and the schedule of tender and no additions in the scope of special stipulations will be permitted. Rates quoted for the tender shall be taken as applicable for all leads and lifts.

Royalty on the Subgrade as per SSR (To be reimbursed on the production of Actual Royalty Receipts from Revenue Department with RA Bill. It is to be noted that rates given in the tenders are inclusive of royalty. If the Royalty Receipt is not produced, then this item shall not be paid. Also, this item should not be used if the murrum used is obtained from the excavation in the plot area of project).

###### TENDER UNITS:

The tenderers should particularly note the units mentioned in the Schedule “B” on which the rates are based. No change in the units shall be allowed. In the case of difference between the rates written in figures and in words, the correct rate will be the one, which is lower of the two.

###### CORRECTION:

No corrections shall be made in the tender documents.

###### TENDER’S ACCEPTANCE:

Acceptance of tender will rest with **NAFED**who reserves the right to reject any or all tenders without assigning any reason therefore. The tenderer whose tender is accepted will have to enter in to a regular B-1 agreement within 5 days of being notified to do so. In case of failure on the part of Tenderer to sign the agreement within the stipulated time, the earnest money paid byhim shall stand forfeited to the NAFED and the offer of the tenderer shall be considered as withdrawn by him.

###### CONDITIONALTENDER:

The tenders which do not fulfill the condition of the notification and the general rules anddirectionsfortheguidanceofcontractorintheagreementformorareincomplete in any respect are likely to be rejected without assigning any reason therefore.

* 1. **(a)**The Tenderers shall be presumed to have carefully examined the drawings, conditionsandspecificationsoftheworkandhavefully acquaintedthemselveswith all details of the site, the conditions of rock and its joints, pattern, river, weather characteristics, labour conditions and in general with all the necessary information and data pertaining to the work, prior to tendering for the work. They must visit the site and analyze all the parameters.
  2. **(b)**The data whatsoever supplied by the NAFED Authorities alongwith the tender documents are meant to serve only as guide for the tenderers while tendering and the NAFED Authorities accepts no responsibility whatsoever either for the accuracy of data or for their comprehensiveness. The Contractor acknowledges that prior to the execution of this Agreement / Bidding this tender, the Contractor has, after a complete and careful examination, made an independent evaluation of the Request for Proposal, Scope of the Project, Specifications and Standards of design, construction and maintenance, Site, local conditions, physical qualities of ground, subsoil and geology, traffic volumes, suitability and availability of access routes to the Site and all information provided by the NAFED or obtained, procured or gathered otherwise, and has determined to its satisfaction the accuracy or otherwise thereof and the nature and extent of difficulties, risks and hazards as are likely to arise or may be faced by it in the course of performance of its obligations hereunder. The NAFED& its consultantsmake no representation whatsoever, express, implicit or otherwise, regarding the accuracy, adequacy, correctness, reliability and/or completeness of any assessment, assumptions, statement or information provided by it and the Contractor confirms that it shall have no claim whatsoever against the Authority in this regard.
  3. **(c)** The Contractor should however examine these quarries and see whether full quantity of materials required for execution of the work strictly as per specification are available in these sources before quoting the rates. In case the materials are not available due to reasons whatsoever, the contractor will have to bring the materials from any other source with no extra cost to NAFED. The rates quoted, should therefore be for all leads and lifts from wherever the materials are brought at site of work and inclusive of royalty to be paid to the Revenue /NAFED Authorities by the Contractor.
  4. The contractor is required to upload Geotagged photos of the site visit in the technical document (Envelope No. 1) as evidence of the site visit. These photos should include the date, time, and GPS coordinates. The uploaded photos will serve as proof of the site visit before bidding the project.This will avoid the claims in the future to NAFED stating that contractor has seen site and studied all factors.

###### POWEROFATTORNEY:

If the tenderers are a firmor company, they shouldin their forwarding letter mentionthenamesofallthepartnerstogetherwiththenameofthepersonwhoholdsthe power of Attorney, authorizing him to conduct all transactions on behalf of the body, alongwith the tender.

The tenderer may, in the forwarding letter, mention any points be may wish to make clear but the right is reserved to reject the same or the whole of the tender if the same becomes conditional tender thereby.

The contractor or the firms tendering for the work shall inform the NAFED Authorities if they appointtheirauthorized person onthe work. Noforeign exchange will be released by theNAFED Authoritiesforthe purchase of plantsandmachinery for the workby the Contractor.

Any duesarising out of contract will be recovered from the contractor as arrears ofLandRevenue,ifnotpaidamicably.Moreover,recoveryofGovernmentduesfrom theContractorswillbeeffectedfromthepaymentduetotheContractorfromany other Government works under execution with them.

All pages of tender documents, conditions, specifications, correction slips etc. shall be initialed by the tenderer. The tender should bear full signature of the tenderer, or his authorized power of Attorney holder in case of a firm.

TheIncomeTaxatPrevailingrateincludingsurchargeorpercentageinforcefrom time to time or at the rate as intimated by the competent Income Tax authority shall be deductedfrombillamount whether measuredbill,advance payment or secured advance.

The successful tenderer will be required to produce, to the satisfaction of the specified concernedauthorityavalidconcurrentlicenseissuedinhisfavourunderthe provisionsoftheContractLabour(RegulationandAbolition)Act1970& its amendmentforstarting the work. On failure to do so, the acceptance of the tender shall be liable to bewithdrawn and also liable for forfeiture of the earnest money.

The tenderer shall submit the list of apprentices engaged by the Contractor under Apprentice Act.

###### VALIDITYPERIOD:

The offer shall remain open for acceptance for minimum period of **90**days from theDate of opening of Envelope No.2(Financial Bid) and thereafter until it is withdrawnbythecontractorbynoticeinwritingduly addressedtotheauthorityopeningthe tenderandsentby Registered Post Acknowledgment due. (ref. to memorandum on Page of B-1 Form Chapter)

###### TREEPLANTATION:

* + 1. Contractor shall plant 200 Nos. of trees, both sides of the roadway within road land width,asdirectedbytheEngineer-in-charge.Treesaplingsshallbeofminimum height 1.50 m. or age 3 years, whichever achieved earlier. Contractor shall alsomaintain (watering, applying manure, erecting tree guards, maintain the trees live) the treesplantedforpostcontractmaintenanceperiodfromthedateofcompletionof work or package as appropriate.
    2. Trees shall be planted within 45 days from the date of work order. Engineering inchargeshalldeductatRs.1000/-pertreefromthepaymentdue tothecontractorin case contractor fails to plant the trees within 45 days. Such Recovery shall be effected from the first R.A. Bill.
    3. Employer shall recover Rs. 2000/- per tree not planted/ not maintained during post contract maintenance period, from the Security Deposit / Performance warranty of the contractor.
  1. After opening of Envelope No. 1 and after acceptance of tender, documents submittedalongwithRunning/Finalbills,itisfoundfake/falsecontractor willbe fully responsible about its correctness. Officers ofNAFED willnot be responsible about it.
  2. After issuing work order it it is found that documents submitted alongwith billsarefalse/fake,contractorwillbe liableforactionunderIndianPenal Code and his agreement will be terminated and also he will be black listed.

### AFFIDAVIT

(On Rs. 500/- Stamp Paper) (Separate for Each Work)

**NameofWork:**

I……………………………………………………….age………….Address……………..

……………………………….(Authorizedsignatorytosignthecontract),herebysubmit, videthisaffidavitintruth,thatIamtheownerofthecontractingfirm…………

…………………….. / authorized signatory and I am submitting the documents in envelope No.1 for the purpose of scrutiny of the contract. I hereby agree to the conditions mentioned below :

1. That I have submitted online Tender for the work (Name of Work)

onportal[https://www.nafed-india.com](https://www.nafed-india.com/tenders) of NAFED.

1. That I have carefully gone through, read, thoroughly studied and understood all terms and conditions, specification included in the tender document (Tender Form, Detail TenderNotice,ConditionsandSpecificationscommonsetofDeviationsdrawings etc.) I hereby accept all these conditions. I agree to abide by the terms and condition in the tender document and agree to execute the work as per terms and conditions, specifications laid down in the tender document.
2. That I have furnished EMD (Earnest Money Deposit) from the Bank Account in the name of my firm only.
3. I do hereby state on oath that the documents uploaded by in Envelope No. 1 of this tenderaretrue,correctandBonafide.Therearenoerrorsandomissionsinthe uploaded documents.
4. I do hereby the state on oath that the value of work in hand (Value of B) is accurate on the date of submission of this tender. If in the future it is found wrong or misleading. I am liable for action under Indian Penal Code, if any papers are found false/ fraudulent during contract period and even after the completion of contract.
5. I am liable for action under Indian Penal Code for submission of any false/ fraudulent paper / information submitted in Envelope No. 1.
6. The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the NAFED Authorities to verify this statement or regarding my (our) competence and general reputation.
7. The undersigned understand and agrees that further qualifying information may be requestedandagreestofurnishany suchinformationattherequestoftheNAFED AuthoritiesProjectimplementingagency.
8. I am neither associated, nor has been associated, directly or indirectly, with the Consultant or any other entity that has prepared the design, specification and other documents for the project or being proposed as Project Manager for the Contract.
9. I am liable for action under Indian Penal Code if during contract period and defect liability period, any false information, false bill of purchases supporting proof of purchase, proof of testing submitting by my staff, subletting company or by myself. I will be liable for action under Indian Penal Code.
10. I am liable for action under Indian Penal Code if any paper are found false/ fraudulent during contract period and even after the completion of contract (Finalisation of Final Bill)
11. I / We ………………………… hereby solemnly agree that, I/ We have willinglyenteredintothecontractorwithNAFED,fortheworkof……………………….(NameofWork)forthesaid work, I will be responsible for any actions which the NAFED Authorities may deem fit to impose on me / us or legal proceedings as per prevailinglaw.

Hence this Affidavit. Place :

Date: SignatureofContractor

(SignedbyanAuthorizedOfficeroftheFirm)

***[TheBondoftheaboveAffidavitshouldbesubmittedonaRs.500/-NonJudicialStampPaper and it shall be notarized.)***

Annexure–A

###### INTEGRITYPACT (ON 500 BOND PAPER, NOTARISED)

Between

**National Agricultural Cooperative Marketing Federation of India Ltd. (NAFED)**

NAFED House, Siddhartha Enclave

Ring Road, Ashram Chowk,

New Delhi-110014

Telephone EPABX: 011-26340019 Fax: 091-11-26340261

Email: shankarsrivastava@nafed-india.com

Hereinafter referred to as "NAFED",

And

*[InsertthenameoftheSoleBidder]*

havingitsRegisteredOfficeat

*(InsertfullAddress)*

And

*[InsertthenameofthePartner(s)ofJointVenture,asapplicable]*

havingitsRegisteredOfficeat

*(InsertfullAddress)*

hereinafterreferredtoas

"TheBidder/Contractor"

**Preamble**

NAFED intends to award,under laid-down organizational procedures, contract(s) for

*NameofWork*

NAFED values full compliance with all relevant laws and regulations,andtheprinciplesofeconomicaluseofresources,andoffairnessand transparency in its relations with its Bidders/ Contractors.

In order to achieve these goals, NAFED and the above namedBidder/Contractorenterintothisagreementcalled'Integrity Pact'whichwillforma part of the bid.

Itishereby agreedbyandbetweenthepartiesasunder:

Section I - Commitments of NAFED

1. NAFED commits itself to take all measures necessary to prevent corruption and to observe the following principles:
   1. No employee of NAFED, personally or through family members, will in connection with the tender, or the execution of the contract, demand, take a promise for or accept, for him/herself or third person, any material or other benefit which he/she is not legally entitled to.
   2. NAFED will during the tender process treat all Bidder(s) with equity and fairness. NAFED will in particular, before and during the tender process, provide to all Bidder(s) thesame information and will not provide to any Bidder(s) confidential/ additional informationthrough which the Bidder(s) could obtain an advantage in relationto the tender process or the contract execution.
   3. NAFED will exclude from evaluation of Bids itssuch employee(s) who has any personnel interest in the Companies/ Agencies participating in the Bidding/Tendering process

Section II- Commitments of the Bidder/Contractor

1. The Bidder/Contractor commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution:
   1. The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to NAFED, or to any of NAFED'semployeesinvolvedinthetender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange an advantage during the tender process or the execution of thecontract.
   2. The Bidder/Contractor will not enter into any illegal agreement orunderstanding, whether formal or informal with other bidder/ contractors, this appliesinparticulartoprices,specifications,certifications,subsidiary contracts, submission or non-submission of bids or actions to restrict competitiveness or to introduce cartelization in the bidding process.
   3. TheBidder/Contractorwillnotcommitanycriminaloffenceunderthe relevant Anti-Corruption Laws of India; further, the Bidder/ Contractor will not use for illegitimate purposes or for purposes of restrictive competition or personal gain, or pass on to others, any information provided by NAFED as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
   4. TheBidder/Contractorofforeignoriginshalldisclosethenameandaddress of the Agents/ representatives in India, if any, involved directly or indirectly in theBidding.Similarly, the Bidder/Contractor of IndianNationality shall furnish the name and address of the foreign principals, if any, involved directly or indirectly in the Bidding.
   5. The Bidder/ Contractor will, when presenting his bid, disclose any and all paymentshehasmade,orcommittedtoorintendstomaketoagents,brokers or any other intermediaries in connection with the award of the contract and/or with the execution of the contract.
   6. The Bidder/ Contractor will not misrepresent facts or furnish false/forged documents/ information in order to influence the bidding process or the execution of the contract to the detriment of NAFED
2. The Bidder/ Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section III- Disqualification from tender process and exclusion from future contracts

1. If the Bidder, before contract award, has committed a serious transgression through a violationofSectionIIorinanyotherformsuchastoputhisreliabilityorcredibility asBidderintoquestion,NAFEDmaydisqualifythe Bidder from the tender process or terminate the contract, if already signed, for such reason.
2. If the Bidder/Contractor has committed a serious transgression through a violation of Section II such as to put his reliability or credibility into question, NAFED may after following due procedures also exclude theBidder/Contractorfromfuturecontractawardprocesses.Theimpositionandduration of the exclusion will be determined by the severity of the transgression. The severitywill be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder/Contractor and the amount of the damage. The exclusion will be imposed for a minimum of 12 months and maximum of 3 years.
3. IftheBidder/Contractorcanprovethathehasrestored/recoupedthedamagecaused by him and has installed a suitable corruption prevention system, NAFED may revoke the exclusion prematurely.

Section IV - Liability for violation of Integrity Pact

1. If NAFED has disqualified the Bidder from the tender process prior to the award under Section III, NAFED may forfeit the EMD under the Bid.
2. If NAFED has terminated the contract under Section III, NAFEDmayforfeittheEMD / Security Deposit of this contract besides resorting to other remedies under the contract.

Section V- Previous Transgression

1. TheBiddershalldeclareinhisBidthatnoprevioustransgressionsoccurred in thelast 3yearswithNAFED Authoritiesthat could justify his exclusion from the tender process.
2. IftheBiddermakesincorrectstatementonthissubject,hecanbedisqualifiedfrom thetenderprocessor thecontract,ifalready awarded,canbeterminated for such reason.

Section VI - Equal treatment to all Bidders/ Contractors

1. NAFEDwillenterintoagreementswithidentical conditions as this one with all Bidders.
2. NAFED will disqualify from the tender process any bidder who does not sign this Pact or violate its provisions.

Section VII - Punitive Action against violating Bidders/ Contractors

If NAFED obtains knowledge of conduct of a Bidder or a Contractororhissubcontractororofanemployeeorarepresentativeoranassociate of a Bidder or Contractor or his Subcontractor which constitutes corruption, or if NAFED has substantive suspicion in this regard, NAFED will inform the Chief Vigilance Officer (CVO).

Section VIII - Independent External Monitor/Monitors

1. NAFED has / mayappointed / appoint a Project Management Consultancy for the checking of works and approval of bills. Section IX - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor after the closure of the contract and for all other Bidder's six month after the contracthas been awarded.

SectionX - Other Provisions

1. This agreement is subject to Indian Law Place of performance and jurisdiction is the establishment of NAFED. The Arbitration clause providedin the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
2. Changesandsupplementsaswellasterminationnoticesneedtobemadeinwriting.
3. If the Contractor is a partnership firm or a consortium or Joint Venture, this agreement must be signed by all partners, consortium members and Joint Venture partners.
4. Nothing in this agreement shall affect the rights of the parties available under the General Conditions of Contract (GCC) and Special Conditions of Contract (SCC)
5. Views expressed or suggestions/submissions made by the parties and the recommendations of the NAFED Authorities in respect of the violation of this agreement, shall notbereliedonorintroducedasevidenceinthearbitralorjudicialproceedings (arising out of the arbitral proceedings) by the parties in connection with the disputes/differences arising out of the subject contract.
6. Shouldoneorseveralprovisionsofthisagreementturnouttobeinvalid,the remainderofthisagreementremainsvalid.Inthiscase,thepartieswillstrive to come to an agreement to their original intentions.

(Signature) (Signature)

(For & on behalf of (For & on behalf of Bidder/Partner(s) NAFED) of Joint Venture / Contractor)

(OfficeSeal) (OfficeSeal)

Designation Designation

WitnessI WitnessI

(Name&Address) (Name&Address)

WitnessI WitnessI

(Name&Address) (Name&Address)

**STATEMENTNo.1**

**Statementoflistofworksinhandandworkstenderedforasonthelastdateof submission of this Tender.**

**NAMEOFCONTRACTOR: -**

* 1. **WORKSINHAND**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Nameof**  **Work.** | **AgreementNo.** | **TenderedAmount.** | **DateofCommencement.** | **StipulatedDateof**  **Completion.** | **ValueofworkAlready**  **Done.** | **ValueofBalance**  **Work** | **ValueofBalanceWorktobe**  **executed** | **ProbableDateof**  **Completion.** | **Remark.** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
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* 1. **WORKSTENDEREDFOR**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SR.NO.** | **NAMEOFWORK** | **NAMEANDADDRESSOFCLIENT** | **TENDEREDAMOUNT** | **TIMELIMIT** | **PROBABLEDATE**  **WHENDECISIONISEXPECTED** | **OTHERREVELENTDETAILSIF**  **ANY** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** |
| **---------------------------------------Sample form-------------------------------------------------------**  **---** | | | | | | |
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**SignatureofContractor NAFED**

**STATEMENT– 2**

**DETAILS OF PLANT & MACHINERY IMMEDIATELY AVAILABLE WITH THE TENDERER FOR THIS WORK**

**NAMEOFTENDERER:…….**

**NAMEOF**

**NO.OF**

**KIND&**

**AGE&**

**PRESEDNT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SR.NO.** | **EQUIPMENT** | **UNITS** | **MAKE** | CAPACITY | **CONDITION** | **LOCATION** | **REMARKS** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |

**---------------------------------------Sampleform-------------------------------------------**

**SignatureofContractor**

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###### STATEMENTNO2(A)

**(TOBEUPLOADEDINENVELOPENO.1)**

**QuestionnairesonMachinery:-**

Proformaforinformationregardingavailability/Procurementofmachineryrequiredforthis work

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.**  **No.** | **Machinery** | **No. of Machinery** |  |
|  | RMC Plant of at least 60 Cum/hr in Nashik District | 01 | Owned  (The Plant must be within Nashik District) |
|  | Excavator | 02 | Owned |
|  | Tipper / Hywa | 06 | 03 hired are allowed |
|  | Transit Mixer | 08 | 03 hired are allowed |
|  | Crane / Hydra | 01 | Owned |
|  | DG Set | 02 | Owned / Hired |
|  | Water Tanker (min 12 KL) | 02 | Owned / Hired |
|  | Concrete Pump | 02 | Owned |

**Question–1**

**Istheabovemachineryownedbyyouandavailablewithyouforimmediate deployment of this work ?**

if**“yes”Pleaseattachedthedocumentaryproofofownershipofabovemachinery&upload**

informationinthissampleform

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Typeof Machine | No.of Units | NamesofWorkson WhichDeployedat  Present | Location | Out-put | WorksinHand |
| 1 | 2 | 3 | 4 | 5 | 6 |
|  |  |  |  |  |  |
| ***------------------SampleForm------------------*** | | | | | |

**STATEMENTNO.3**

#### Details of works of similar type and magnitude carried out by the contractor in last Five years

**NAMEOFTENDERER:-**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SR.NO** | **NAMEOFWORK** | **Name & Address ofTheOrganisationForWhomTheWorkWasDone** | | **PlaceAndCountry.** | | **AgreementNo&Date** | **DateOfCommencement** | **Tendered**  **Cost** | **TotalCostOfWorkDone.** | **DateOfCompletion** | **Remarks(PrincipleFeaturesInBrief.)** |
| 1 | 2 | | 3 | 4 | 5 | | 6 | 7 | 8 | 9 | 10 |
|  | **--------------------------------------------Sampleform---------------------------------------** | | | | | | | | | | |
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**STATEMENT–4**

**StatementShowingTechnicalPersonnelAvailablewithContractorWhichCanBeSpared Exclusively for This Work**

**NAMEOFTENDERER:**

**Sr.No. Name ofPerson Qualification**

**Whetherworkinginfield or in office**

**ExperienceofExecutionofSimilarWorks**

**PeriodforwhichthePerson is WorkingWith The Tenderer**

**Remarks**

1 2 3 4 5 6 7

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SAMPLEFORM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**SignatureofContractor**

***NOTE:-Detailsaretobeuploadedinthisformatinenvelope-1.dulysigned***

**STATEMENTNO.5**

**StatementshowingworkdoneinallclassesofCivilEngineeringConstructionworks during last Five year as per requirement of tender**

**Nameof Contractor:-**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr.No.** | **NameofDivision** | **AmountPutto tender /tenderedcost** | **AgreementNo.** | **Dateofcommencementofwork** | **Amountofworkdone duringeachoflastfiveyears.** | | | | | **TotalAmountofworkstillremainingto**  **be executed** | **Remarks** |
|  |  |  |  |  |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
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|  | **GrandTotal:-** | |  |  |  |  |  |  |  |  |  |

OutwardNo.anddateofcertificateissuingauthority

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**STATEMENT NO. 6**

**STATEMENT SHOWING QUANTITIES OF WORK EXECUTED IN DURING LASTFIVE YEARS (as required in the tender, take items from tender and fill up the form)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***SrNo.*** | ***NameofWork*** | ***Year*** | ***AgreementNo.*** | ***QualityofWorkPreformed*** | | | | | | *Remarks*  ***(Indicate contract Reference****)* |
|  |  |  |  |  |  |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
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|  |  |  |  |  | **SampleForm** | | | **----**  **----** |  | **-----** |
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***NOTE:-Detailsaretobeuploadedinthisformatinenvelope-1.dulysigned***

**SignatureofContractor**

**STATEMENT NO. 7**

(SeparateforEachWork)

1. NameofTendererandMobileNo.
2. Nameofthework,TenderIDforwhichBidisSubmitted-
3. TenderformfeepaidonlineAmount-
4. EMDpaidonlineAmount-
5. NameoftheBankandBranchfromwhichEMDandtenderfeepaidonline
6. BankAccountNumberfromwhichEMDandtenderfeepaidonline
7. BankAccountHolderNamewhichEMDandtenderfeepaidonline

It is to certify that EMD and Tender Fee is paid online from the above bank account which is owned by me.

ContractorSignature

**STATEMENT NO. 8**

(SeparateforEachWork)

1. Attach the proof of office existence in the Nashik District.

(On Stamp paper worth Rs. 500/-) (Separate for Each Work)

###### MODELFORMOFBANKGUARANTEEBONDFORSECURITY DEPOSIT

In consideration of the NAFED (herein after referred to as “The Authority”) having agreed to exempt (herein after referred to

as :The Contractor”) from depositing with the**NAFED)** in BG form for the sum of Rs. ------------- (Rupees ----------------------- ----------------------------------------- only.) being the amount of security deposit payable by the Contractor to the NAFED under the terms and conditions of the agreement dated the day of and made between the NAFED of the one part and the Contractor of the other part (herein after referred to as “the said Agreement”) for as security for due observance and performance by the Contractor of the terms and conditions of the said Agreement, on the contractor furnishing to the NAFED a guarantee in the prescribed form of a scheduled bank in India in face those presents in the like sum of Rs. (Rupees

only).

BANK/LIMITED registered in India under Act and having one of our local Head office at do here by:-

##### GUARANTEE TO THENAFED: -

* 1. Due performance and observance by the Contractor of the terms and conditions on the part of the contractor contained in the said Agreement and
  2. Due and punctual payment by the Contractor to the NAFED of all sums of money, losses, damages, cost charges, penalties and expenses payable to the NAFED by the Contractor under or in respect to the said Agreement.

1. Undertake to pay to the NAFED on demand and without demur and not withstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding filed in any Court of tribunal relating thereto the said sum of Rs.-\_\_\_\_\_\_\_\_\_\_ (Rupees only) or such less sum may be demanded by the NAFED from us, our liability hereunder being absolute and unequivocal and agree that.
   1. The guarantee herein contained shall remain in full force and effect during the subsistence of the said Agreement and that the same will continue to enforceable till all the dues of the NAFED under or by virtue of the said Agreement have been duly paid and it’s claims satisfied or discharged and till the NAFED certifies that the terms and conditions of the said Agreement have been fully, properly carried out by the Contractor.
      1. We shall not be discharged or released from the liability under this guarantee by reasons of
         1. Any change in the constitution of the bank of the Contractor, or
         2. Any arrangement entered into between the NAFED and the Contractor with or without our consent;
         3. Any forbearance or indulgence shown to the Contractor.
         4. Any variation in the terms and conditions contained in the said Agreement.
         5. Any time given to the Contractor, or;
         6. Any other conditions or circumstances under which, in law, a surety would be discharged.
      2. Our liability herein under shall be joint and several with that of the Contractor as if we were principal debtors in respect of the said sum of Rs.\_\_\_\_(Rupees \_only).
      3. We shall not revoke this guarantee during its currency except with the previous consent in writing of the NAFED.

**IN WITNESS WHERE OF THE common** seal of

has been hereinaffixed this \_\_\_\_ day of \_\_\_\_\_ 20. The common seal of was pursuant to the resolution of the Board of Directors of the Company dated the day of herein affixed in the presence of who, in token thereof, have here to set their respective hands in the presence of.

(1) (2)

(SeparateforEachWork)

**NOTE:TheHireAgreementexecutedshouldbevalidforthetotalperiodofthework.**

## ARTICLESOFAGREEMENT

(This Document should be on Original Stamp Paper of Rs. 500/- not on Xerox Copy) (On Stamp Paper of Worth Rs. 500/-)

This Agreement of Hire of Machinery made and executed at onthis, the day of the month of 20

###### BETWEEN

1. Shri / M/s. ASole/ Pvt.Ltd.Co./PublicLtd.Co./PartnershipFirmregisteredundertheprovisionsofrespectiveActsinforceandhavinghis/theirOfficesituated.

Whoisa,

* 1. SoleProprietoroftheabovementionedconcern.
  2. Partneroftheabovementionedpartnershipfirm.
  3. Holder of power attorney of the above mentioned firm, Executive Director or ManageroftheabovementionedCompany asapprovedby thepresentBoard of Director of the above mentioned Company.

Hereinafterforthesakeofbrevityreferredtoas“TheOwner”(Whichexpression shall, unless itbe repugnanttothe meaning ofcontext thereof, mean and included the firm for all partners of the Firm, the company at material time and their successors).

**PartyoftheFirstPart**

###### AND

1. Shri / M/s ASoleTradingConcernPvt.Ltd.Co./PublicLtd.Co.PartnershipFirmregistered

undertheprovisionsofrespectiveActsinforceandregisteredGovernmentcontractors registeredinappropriateClasswithNAFEDhavinghis/theirsituatedat

and managed by Shri

Who is a,

* 1. SoleProprietoroftheabovementionedconcern.
  2. Partneroftheabovementionedpartnershipfirm.
  3. Holderofpowerattorneyoftheabovementionedfirm,ExecutiveDirectoror

ManageroftheabovementionedCompany

Hereinafter for the sake of brevity referred to as “The Hirer” (Which expression shall, unless it be repugnant to the meaning of context thereof, mean and included the firm of all partners of the Firm, the company at material time and their successors).

PartyoftheSecondPart

Whereinthepartyofthefirstparthereinisanabsoluteownerofthe

( Name of the Machine/s) Andsubstantiateorestablishitthedocumentaryevidenceintokenofvoucherenclosed. Where as party of the second part herein is a registered Government Contractors as stated in appropriate Class with NAFED.

ANDwhereasthepartyofthesecondpartisorislikelytosubmitthetenderfor

NAFED,

ANDwhereasthepartofthesecondpartintendstousethemachineryofthesaid work as is being stipulated by the NAFED Authorities and desirous of taking the one/s on the monthly hire charges basis.

AND whereas the part of the first part, is desirous of giving machinery on hire charges basis to the party of second part.

ANDwhereastothesepresentaredesirousofrecordingthetermsandofthe agreement, reduce the same to writing.

Now therefore, this articles of agreement witnesseth as under : One/s to be hired.

Itisherebyagreedbetweenthepartiestothesepresentthat

(Name of Machine/s) of thesecond part has agreed to pay an amount of Rs. to the party of the first partonaccountofmonthlywagesofthemachine/sasdetailedbelowattheendofeach month.

The party ofSecondPart shall also pay an amount of Rs. as interestdeposittothepartyofthefirstpartatthetimeofintimationinwriting.Thisdeposit

shall either be refunded by the First part to the party of the Second Part or shall be adjusted in the final of the hire charges of the machine/s.

NameofMachines Monthlyrateofhirecharges

1. **DateofHire:**

It is hereby expressly declared by the parties to the present that the machine/s shall be hiredonandfromthedateofcommencementoftheworkbeingawardedorthat would be awarded by the NAFED, to the party of the second part herein.

1. It is hereby agreed by and between the parties to these present that instant agreement shall remain in force from the date of hire as specified in Clause 2 above to the date of eithercompletionoftheworkinquestionorsixmonthsfromthedateofhire whichever period expires later.
2. Possession:

The party of the first part has agreed to deliver the possession of the machine/s that wouldbehiredasdescribedinClauseoneaboveingoodworkingconditionalong withitsoperationalcrewandallthenecessaryaccessoriesofthemachine/sbeing hired to the party of the second part within eight days from the date of intimation in writing given by the party of the second part to the party of the first part.

1. ModeofPayment:

Monthly hirecharges ofthemachine/sasspecifiedinClause one aboveshallbepaid by the party of the second part as on the last day of each month by issuing a crossed Account Payee Cheque or Crossed Account Payee Demand Draft.

1. RepairsandMaintenance:

It is hereby agreed by the partyof the first part that it shall bear all dayto day expenses of the machine/s on account of fuel, oil and lubricants, operations, maintenance and repair charges during the currency of the period for which machine/s let out on hire chargestothepartyofthesecondpart.Itisfurtheragreedthatifthepartyofthesecond part spends on the operations, repairs and maintenance for the machine/s hiredby it the party of the second part has every right to deduct the said amount from the monthly hire charges payable to the party of the first part.

1. The party of the first part shall always keep the machine/s in good working conditions that are given on hire charges basis to the party of the second part. It is further agreed that the day spend on repairs and maintenance shall be excluded for the purpose of calculating the monthly hire charges.
2. The party of the second part shall have right to deduct the Income Tax at source at the prescribed rate of the provisions of Income Tax Act as ordered by the Government of India, are applicable.

InTestimonywhereofthepartiestothesepresenthavesetandsubscribedtheir respective signatures on the day, month and year herein above written.

PartyoftheFirstPart PartyoftheSecondPart

SignedExecuted SignedExecuted

Anddeliveredforandon anddeliveredforandon

Behalfof behalfof

Shri/M/s. Shri/M/s.

Inpresenceof: AFFIRMEDANDEXECUTED

1. BEFOREME

NOTARY

## DECLARATIONOFTHECONTRACTOR

##### NAMEOFWORK: NAFED INVITES PROPOSAL FOR PROPOSED RENOVATION,RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE-1)

I/WeherebydeclarethatI/Wehavemademyself/ourselvesthoroughlyconversant withthesub-soilconditions,thelocalconditionsregardingallmaterials(suchas stone, murum, sand, etc.) and labour on which I/We have based my/our rates for this work. The specifications, conditions, bore results and lead of materials on this workhave been carefully studied and understood by me/us before submitting this tender.I/We undertake to use only the best materials approved by the **NAFED** or his duly authorised assistant, before starting the work and to abide by his decision.

I/Weherebyfurtherdeclarethatmy/ourtenderisunconditionalinevery manner of whatsoever in nature.

I/We hereby undertake to pay the laborers engaged on the work as per minimum wages Act, 1948 applicable to the zone concerned.

###### TOBEFILLEDBYTHECONTRACTOR

I/We have quoted my/our offer in percentages rate in words as well as in figures. I/We further undertake to enter in to contract in regular “B-2” form in NAFED.

Nameandsignatureofcontractor(s)powerofattorneyholderwith

**completeaddress.**

**FORM:B-1**

#### GeneralRulesandDirectionsfortheGuidanceofContractors

1. All works proposedtobe executed by contractshallbe notified in a form of invitationto tender pasted on a board hung up in the office of the NAFEDand signed by the **NAFED.** Thisform will state the work to be carried out as well asthe date for submitting and opening tenders, and the time allowed for carrying out the workalsotheamountofearnestmoneytobedepositedwiththetender,andthe amount of the security deposit to be deposited by the successful tenderer and the percentage**,** If any**,** to be deducted from bills. Copies of the specification, designs, drawings and estimated rates, scheduled rates and any other documents required in connection with the work shall be signed by the NAFEDfor the purpose of identification and shall also be open for inspection by contractors at the office of NAFEDduring office hours.

Where the works are proposed to be executed according to the specifications recommended to a contractor and approved by a competent authority,suchspecificationswithdesignsanddrawingsshallform part of the accepted tender.

The contractor shall engage their own consultants for the preparation of designs and drawings for the project. Consultants appointed by the contractor should be competent enough to prepare all design and drawings of the project. It is the contractor's responsibility to ensure that all designs and drawings are approved by the Architect. No additional payment will be made to the contractor for this task. The Architect’s drawings attached to this tender will serve as the basis for preparing the detailed design and drawings. The contractor must ensure that the designs are accommodated within the limits specified in the BOQ. The Architect’s decision regarding the approval of the designs and drawings will be final and binding on the contractor.

1. In the event of the tender being submitted by a firm, it must be signed separately byeach partner thereof, or in the event of the absence of any partner, it shall be signed on his behalf by a person holding a power of attorney authorising him to do so.

2.A) I) The contractor shall pay alongwiththe tender the sumof **as per tender**as and by wayof earnest money. Earnest money shall be paid via online using NEFT/RTGS mode. The said amount of earnest money shall not carry any interest whatsoever.

1. In the event of his tender being accepted, subject to the provisions of sub-clause (iii) below, the said amount of earnest money shall be appropriated towards the amount of security deposit payable by him under conditions of General Conditions of contract.
2. If, after submitting the tender, the contractor withdraws his offer or modifies the same,or if, after the acceptance of his tender the contractor fails or neglects to furnish the security deposit, within 5 days from receipt of acceptance letter without prejudicetoanyotherrightsandpowersoftheNAFED,hereunder,orinlaw,Government shall be entitled to forfeit the full amount of the earnest money depositedby him.
3. In the eventof this tender notbeing accepted, the amount of earnestmoney depositedbythecontractorshall,unlessitispriortheretoforfeitedunderprovisionsof sub clause(iii)above,berefundedtohimonpassingreceipttherefor.(B.&C.Deptt. Resolution No.CAT-1272/44277-Q DT-3-3-73.)
4. Receipts for payments made on account of any work, when executed by a firm, should also be signed by all the partners except where the contractors are described in their tender as a firm, in which case the receipt shall be signed in the name of the firms byone of the partners, or by some other person having authority to give effectual receipts for the firm.
5. Any person who submits a tender shall fill up the usual printed form stating at what percentage above or below the rates specified in Schedule **B** (Memorandum showing tems of work to be carried out) he is willing to undertake the work. Only one rate orsuch percentage on all the Estimated rates/Schedule rates shall be named. Tenders, which propose 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 conditions will be liable for rejection. No printed form of tender shall include a tender for more than one work but if contractor wishes to tender for two or more works, shall submitaseparatetenderforeach.Tendershallhavethenameandnumbersofthe work to which they refer written outside the envelope.

TheNAFEDorhisdulyauthorisedAssistant shall open tenders in the presence of contractors who have submitted tenders or their representatives who may be present at the time, and he will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender beingaccepted,thecontractorshallforthepurposeofidentifications,signcopiesof the specifications and other documents mentioned in Rule 1. In the event of a tender being rejected, the Divisional Officer shall refund the amount of earnest money deposited by the contractor online.

1. The officer competent to dispose of the tenders shall have the right of rejecting all orany of the tenders.
2. Noreceiptforanypayment,allegedtohavebeenmadebyacontractorinregardto any matter relating to this tender or the contract, shall be valid and binding on Government unless it is signed by the NAFED.
3. The memorandum of work to be tendered for and the schedule of materials to be suppliedbytheNAFEDandtheirratesshallbefilledinand complete by the office of the NAFEDbefore the tender form is issued. If a form issued to an intending tenderer has not been so filled in and completed, he shall request the said office to have this done before he completes and delivers his tender.
4. All work shall be measured net by standard measure and according to the Rules and customs of the NAFED and their ratesshall bewithout referenceto any local custom.
5. Undernocircumstancesshallanycontractorbeentitledtoclaimenhancedratesfor any item in contract.
6. Allcorrectionsandadditionsorpastedslipsshouldbeinitialed.
7. The measurements of work will be taken according to the usual methods in use in the NAFED and no proposals to adopt alternative methods will be accepted. The NAFED’s decision as to what is “the usual method in use in the NAFED” will be final.
8. The tendering Contractor shall furnish a declaration alongwith the tender showing all works for which he has already entered into contract and the value of the work that remain to be executed in each case on the date of submitting the tender.
9. Inviewofthedifficultpositionregardingtheavailabilityofforeignexchange,no foreignexchangewouldbereleasedby theNAFED Authoritiesforthepurchaseofplantand machinery required for the execution of the work contracted for. (GCD/PWD/CFM/1058/62517 OF 26.5.1959)
10. Thecontractorwillhavetoconstructshedforstoringcontrolledandvaluable materials brought by Contractor at work site having double locking arrangement at Contractors cost. The materials will then be taken for use in the presence of the NAFED Authorities person. No materials will be allowed to be removed from the site ofworks. Contractor has to arrange the site office with all facilities for the NAFED engineer / appointed PMC for the project. The office should have all facilities including complete office set up like PC, stationary, printing and washroom.
11. The contractors shall also give a list of machinery in their possession and which they propose to use on the work.
12. Successfultenderershallhavetoproducetothesatisfactionoftheacceptingauthority avalidandcurrentlicenseissuedinhisfavourundertheprovisionsofContract Labour (Regulation and Abolition) Act, 1973
13. The Contractor shall comply which the provisions of Apprentices Act, 1961 and therulesandordersissuedthereunder from item totime.If he fails to do so,his failure shall be breach of the contract and the NAFED, mayin his discretion cancel the contract. The contractor shall also be liable for anypecuniary liability arising on account of any violation by him of the provisions of the said Act.

## TENDERFOR WORKS

|  |  |
| --- | --- |
| I/We hereby tender for the execution, for the Governor of Maharashtra (here-in-beforeandhere-inafterreferredtoas“Government”)ofthe workspecifiedintheunderwrittenmemorandumwithinthetime specifiedinsuchmemorandumat\* | The tenderer shall quote his offer through online bidding  processonly. |
| \_\_\_\_\_ percent **below/above** the estimated rates entered in **Schedule B** (Memorandum showing items of work to be carried out) and in accordance in all respects with the specifications, designs, drawing and instructions in writingreferred to in Rule I thereof and in Clause 12 of the annexed conditions of contract and agree that when materials for the work are provided by the Government,suchmaterialsandtheratestobepaidforthemshallbeasprovidedinScheduleAhereto. |  |

## CONDITIONS OF CONTRACT

|  |  |
| --- | --- |
|  | Clause 1: The person / persons / firm whose tender may be accepted (hereafter called the contractor, which expression shall unless excluded by or repugnant to the context include his, heirs, executors, administrators, and assigns) shall within 10 days of the receipt by him of the notification of the acceptance of his security deposit with the NAFED the form of an irrevocable and unconditional Bank Guarantee (including e-Bank Guarantee) from Scheduled bank @2.5% of the awarded cost of the project valid till DLP of the project. Rest 2.5% shall be debited from each RA bill against the cost of work done. Failure to submission of BG of 2.5% will lead to forfeiting of EMD amount and black listing the contractor from Govt Bidding. The security deposit and retention money shall be released after the successful completion of DLP of 2 years. Successful bidder can submit 5% bank guarantee at a time valid upto expiry of DLP of 2 years.EMD shall be released after successful verification of Bank Guarantee by the NAFED from the concerned scheduled bank. |
| *Compensation for delay.* | Clause-2: The time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be reckoned from the date on which the order to commence work is given to the contractor.The work shall throughout stipulated period of the contract be proceeded with, with all due diligence (time being deemed to be of the essence of thecontract on the part of the contractor) and the contractor shall pay as compensation an amount equal to one per cent or such smaller amount as the NAFED / NAFED’s PMC / Architect (whose decision in writing shall be final) may decide, of the amount of the estimated cost of the whole work as shown by the tenderer for every day that the work remains un-commenced, or unfinished after the proper dates. And further to ensure good progress during execution of the work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month to complete.The contractor should complete the work as per phase period given below25% of the work in 1/4 of the time50% of the work in 1/2 of the time75% of the work in 3/4 of the timeFull of the work in full of the timeFull work will be completed as per the time given in the tender (including monsoon.)Note: A detailed programme bar chart linked with cash flow and machinery should be submitted in 10 days from letter of acceptance of tender.In the event of the contractor failing to comply with this condition he shall be liable to pay as compensation an amount equal to one percent or such smaller amount as the NAFED (whose decision in writing shall be final) may decide of the said estimated cost of the whole work for every day that the due quantity of work remains incomplete. Provided always that the total amount of compensation to be paid under the provisions of this clause shall not exceed 10 percent of the estimated cost of the work as shown in tender.  |  |  |  |  | | --- | --- | --- | --- | | Milestones (Part duration with respect to period of completion) | | Cumulative physical target to be achieved | If not achieved the compensation of payable per day (Rs.) | | Mile Stone No. | No. of Days from the date of work order | | 1) | 25% of time | 25% | As per above terms | | 2) | 50% of time | 50% | | 3) | 75% of time | 75% | | 4) | 100% of time | 100% | |
| *Action when whole of security deposit is forfeited* | Clause-3: In any case in which under any clause or clauses of this contract the contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit or in the case of abandonment of the work owing to serious illness or death of the contractor or any other cause, the NAFED, shall have power to adopt of the following courses, as he may deem best suited to the interest.(a) To rescind the contract (for which rescission notice in writing to the contractor under the hand of NAFED shall be conclusive evidence) and in that case the Security deposit of the contractor shall stand forfeited and be absolutely at the disposal of NAFED(b) To carry out the work or any part of the work NAFED Authorities ally debiting the contractor with the cost of the work, expenditure incurred on tools and plant, and charges on additional supervisory staff including the cost of work charged establishment employed for getting unexecuted part of the work completed and crediting him with the value of the work done NAFED Authorities ally in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the NAFED as to the costs and other allied expenses so incurred and as to the value of the work so done NAFED Authorities shall be final and conclusive against the contractor.(c) To order that the work of the contractor be measured up and to take such part thereof as shall be unexecuted out of his hands, and to give it to another contractor to complete, in which case all expenses incurred on advertisement for fixing a new contracting agency, additional supervisory staff including the cost of work charged establishment and the cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the NAFED as to all the cost of the work and other expenses incurred as aforesaid for or in getting the unexecuted work done by the new contractor and as to the value ofthe work so done shall be final andconclusive against the contractor.In case the contract shall be rescinded under clause (a) above the contractor shall not be entitled to recover or be paid, any sum for any work therefor actually performed by him under this contract unless and until the NAFED shall have certified in writing the performance of the such work and the amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified.In the event of either of the courses referred to in clause (b) or (c) being adopted and the cost of the work executed NAFED Authorities ally or through a new contractor and other allied expenses exceeding the value of such work credited to the contractor the amount of excess shall be deducted from any money due to the contractor, by Government under the contract or otherwise, howsoever or from his security deposit or the sale proceeds thereof provided, however that the contractor shall have no claim against Government even if the certified value of the work done NAFED Authorities ally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clause (a),(b) or (c) is adopted by the NAFED, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into engagements, or made any advances on account of or with a view of the execution of the work or the performance of the contract. |
| *Action when the progress of any particular portion of the work is unsatisfactory* | Clause-4: If the progress of any particular portion of the work is unsatisfactory the NAFED shall notwithstanding that the general progress of the work is in accordance with the conditions mentioned in clause 2, be entitled to take action under clause 3 (b) after giving the contractor 10 days’ notice in writing. The contractor will have no claim for compensation, for any loss sustained by him owing to such action. |
| *Contractor remains liable to pay compensation if action not taken under clauses 3 and4**Power to take possession of or require removal of or sell contractor's plant* | Clause-5: In any case in which any of the powers conferred upon the NAFED by clauses 3 and 4 hereof shall have become exercisable and the same shall not have been exercised the non-exercise thereof shall not constitute a waiver of anyofthe conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor for which under any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the NAFED taking action under sub-clause (a) or (c) of clause-3, he may, if he so desires, take possession of all or any tool and plant, materials and stores in or upon the works or the site thereof or belonging to the contractor, or procured by him and intended to be used for the execution of the work or any part thereof, paying or allowing for the same in account at the contract rates, or in the case of contract rates not being applicable at current market rates to be certified by NAFED whose certificate thereof shall be final. In the alternative, the NAFED may, after giving notice in writing to the contractor or his clerk of the work, foreman or other authorised agent require him to remove such tools and plant, 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 NAFED may remove them at the contractor's expense or sale them by auction or private sale on account of the contractor and at his risk in all respects, and the certificate of the NAFED as to the expense of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor. |
| *Extension of time* | Clause - 6 : If the contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidably hindered in its execution or on any other ground he shall apply in writing to the NAFED before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he was hindered as aforesaid or on which the cause for asking for extension occurred, whichever is earlier ever and the NAFED, may, with prior approval of the authority component to accept the tender if in his opinion, there are reasonable ground for granting an extension, grant such extension as he thinks necessary or proper the decision of the NAFED in this matter shall be final. |
| *Final certificate* | Clause - 7: On the completion of the work the contractor shall be furnished with a certificate by the NAFED (hereinafter called The Engineer-in-charge or Authority or NAFED’s representative thereof) of such completion; but no such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus materials and rubbish, and shall have cleaned off, the dirt from all wood work, doors windows, wall, floors or other parts of any building in or upon which the work has been executed, or of which he may have had possession for the purpose of executing the work, nor until the work shall have been measured by the Engineer-in-charge or where the measurements have been taken by his subordinates until they have received the approval of the Engineer-in-charge, the said measurements being binding and conclusive against contractor. If the contractor shall fail to comply with the requirements of this clause as to the removal of scaffolding, surplus materials and rubbish and cleaning off dirt on or before the date fixed for the completion of the work the Engineer- in-charge may at the expense of the contractor, remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit and clean off such dirts as aforesaid and the contractor shall forthwith pay the amount of all expenses so incurred, but shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realised by the sale thereof. |
| *Payment on intermediate certificate to be regarded as advances.* | Clause- 8: No payment shall be made for any work, estimated to cost less than rupees one thousand, till after the whole of 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 therefor be entitled to receive payment proportionate to the part of the work then approved and passed by the Engineer-in-charge, whose certificate of such approval and passing of the sum 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 Engineer-in-charge from requiring any bad, unsound imperfect or unskillful work to be removed or taken away and reconstruction or re-erected nor shall any such payment be considered as an admission of the due performance of the contract or any part thereof in the Engineer-in-charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties. |
| *Payments at reduced rates on account of item of work notaccepted as completed to be at the discretion of the Engineer-in-charge.* | Clause 9: The rates for several items of works estimated to cost more than Rs. 1000/- agreed to within shall be valid only when the item concerned is accepted as having been completed fully in accordance with the sanctioned specifications. In cases where the items of work are not accepted as so completed by the Engineer-in-charge may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on account bills. |
| *Bill to be submitted monthly* | Clause - 10: A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer-in-charge for all work executed in the previous month, and the Engineer-in-charge shall take or cause to be taken the requisite measurement 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 Engineer-in- charge may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorised agent whose counter- signature to the measurement list shall be sufficient warrant, and the Engineer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects. |
| *Bill to be on printed forms* | Clause-11: The contractor shall submit all bills on the printed forms to be had on application at the office of the Engineer-in- charge. The charges to be made in the bills shall always be entered at the rates specified in the tender 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 rates hereinafter provided for such work. |
| *Stores supplied by NAFED* | Clause-12: If the specification or estimate of the work provides for the use of any special description of materials to be supplied from the store of the NAFED or if it is required that the contractor shall use certain stores to be provided by the Engineer-in- charge (such material and stores and the prices to be charged therefor as hereinafter 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 hereto annexed) the contractor shall be supplied with such materials and stores as may be required from time to time to be used by him for the purpose of the contract only and value of the full quantity of the materials and stores so supplied shall be set off or deducted from any sums then due or thereafter to become due to the contractor under the contract, or otherwise or from the security deposit or the proceeds of sale thereof, if the security deposit is held in Government securities, the same or a sufficient portion there of shall in that case be sold for all 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 times be open for inspection by the Engineer-in-charge. Any such materials unused and in perfectly good condition at the time of completion or determination of the contract shall be returned to the NAFED store if the Engineer-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 consent of the Engineer 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 to any such materials. |
| *Work to be executed in accordance with specifications, Drawings, orders, etc.* | Clause- 13: The contractor shall execute the whole and every part of the work in the most substantial and workman like manner, and both as regards materials and every other respect in strict accordance with specifications. The contractor shall also conform exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer- in-charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or on site of the work during office hours. |
| *Alterations in specifications and designsnot to invalidate contracts**Rates for works not entered in estimate or schedule of rate of the districts**Extension of time in consequence of additions or alterations* | Clause-14: The Engineer-in-charge shall have power to make any alterations in or additions 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 Engineer-in-charge and such alteration shall not invalidate the contract, and any 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 rates as are specified in the tender for the main work. And if the additional and 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 at the rates entered in the schedule of Rates of the Division or at the rates mutually agreed upon between the Engineer-in-charge and the contractor, whichever, are lower. 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 rates are agreed upon then contractor shall within seven days of the date of receipt by him of the order to carry out the work, inform the Engineer-in-charge of the rate which it is his intention to charge for such class of work, and if the Engineer-in-charge does not agree to this rate 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 advisable provided always that if the contractor shall commence work or incur any expenditure in regard there to before the rates shall have been determined as lastly herein-before mentioned, then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to date of the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-charge. In the event of a dispute, the decision of the NAFED, of the Circle will be final.Where, however, the work is to be executed according to the designs, drawings & specifications recommended by contractor and accepted by the competent authority the alterations above referred to shall be within the scope of such designs, drawings and specifications appended to the tender.The time limit for the completion of the work shall be extended in the proportion that the increase in its cost occasioned by alterations or additions bears to the cost of the original contract work, and the certificate of the Engineer-in- charge as to such proportion shall be conclusive. |
| *No claim to any payment or compensation for alteration in or restriction of work* | Clause-15: (1)If at any time after the execution of the contract documents, the Engineer shall for any reason what-so-ever (other than default on the part of the contractor for which the Government is entitled to rescind the contract) desires that the whole or any part of the work specified in the tender should be suspended for any period or that the whole or part of the work should not be carried out at all he shall give to the contractor a notice in writing of such desire and upon the receipt of such notice the contractor shall forthwith suspend or stop the work wholly or in part as required, after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injury to the work already done or endanger the safety thereof provided that the decision of the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor. The contractor shall have no claim to any payment or compensation whatsoever by reason of or in pursuance of any notice as aforesaid on account of any suspension, stoppage or curtailment except to the extent specified hereinafter.(2) Where the total suspension of work ordered as aforesaid continued for a continuous period exceeding 90 days the contractor shall be at liberty to withdraw from the contractual obligations under the contract so far as it pertains to the unexecuted part of the work by giving a 10 day’s prior notice in writing to the Engineer, within 30 days of the expiry of the said period of 90 days, of such intention and requiring the Engineer, to record the final measurements of the work already done and to pay the final bill. Upon given such notice, the contractor shall be deemed to have been discharged from his obligation to complete the remaining unexecuted work under his contract. On receipt of such notice the Engineer shall proceed to complete the measurement and make such payment as may be finally due to the contractor within a period of 90 days from the receipt of such notice in respect of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.(3) Where the Engineer requires the contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate, the contractor shall be entitled to apply to the Engineer within 30 days of the resumption of work after such suspension for payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery remained idle on the site or on the account of his having had to pay the salary or wages of labour engaged by him during the said period of suspension provided always that the contractor shall not be entitled to any claim in respect of any such working machinery, salary or wages for the first 30 days whether consecutive or in the aggregate of such suspension or in respect of any suspension whatsoever occasioned by unsatisfactory work or any other default on his part. The decision of the Engineer in this regard shall be final and conclusive against the contractor.(4) In the event of -Any total stoppage of work on notice from the Engineer under sub clause (1), in that behalf,Withdrawal by the contractor from the contractual obligation to complete the remaining unexecuted work under sub clause (2) on account of continued suspension of work for a period exceeding 90 days.ORCurtailment in the quantity of item or items originally tendered on account of any alteration, omission or substitutions in the specifications, drawings, designs, or instructions under clause 14 where such curtailment exceeds 25% in quantity and the value of the quantity curtailed beyond 25% at the rates for the item specified in the tender is more than Rs. 5000/-It shall be open to the contractor within 90 days from the service ofThe notice of stoppage of work orThe notice of withdrawal from the contractual obligations under the contract on account of the continued suspension of work orNotice under clause 14 resulting in such curtailment to produce to the Engineer satisfactory documentary evidence that he had purchased or agreed to purchase material for use in the contracted work, before receipt by him of the notice of stoppage, suspension or curtailment and require the Government to take over on payment such material at the rates determined by the Engineer, provided however, such rates shall in no case exceed the rates at which the same were acquired by the contractor. The Government shall thereafter take over the material so offered, provided the quantities offered, are not in excess of the requirements of the unexecuted work as specified in the accepted tender and are of quality and specifications approved by the Engineer. |
| *No claim to compensation on account of loss due to delay in supply of materials by Government* | Clause-15(A): The contractor shall not be entitled to claim any compensation from Government / NAFED for the loss suffered by him on account of delay by Government in the supply of materials entered in Schedule -A where such delay is caused byi) Difficulties relating to Fund Shortage.(ii) Force majeure,(iii) Act of God,(iv) Act of enemies of the state or any other reasonable cause beyond the control of Government.In the case of such delay in the supply of materials (if any as per the tender), NAFED shall grant such extension of time for the completion of the works as shall appear to the NAFED to be reasonable in accordance with the circumstances of the case. The decision of the NAFED as to the extension of time shall be accepted as final by the contractor. |
| *Time limit for unforeseen claims.* | Clause -16: Under no circumstances whatsoever shall the contractor be entitled to any compensation from NAFED on any account unless the contractor shall have submitted a claim in writing to the Engineer-in- charge within one month of the cause of such claim occurring. |
| *Action and compensation payable in case of bad work* | Clause -17: If any time before the security deposit or any part thereof is refunded to the contractor it shall appear to the Engineer-in-charge or his subordinate in charge of the work, that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of inferior quality, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for, or are otherwise not in accordance with contract, it shall be lawful for the Engineer-in-charge to intimate this fact in writing to the contractor and then notwithstanding the fact that the work, materials or articles complained of may have been inadvertently 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 and provide other proper and suitable materials or articles at his own charge andcost, and in the event of his failing to do so within a period to be specified by the Engineer-in- charge in the written intimation aforesaid, the contractor shall be liable to pay compensation at the rate of 1% on the amount of the estimate for every day not exceeding 10 days during which the failure so continues and in the case of any such failure the Engineer-in-charge may rectify or remove, and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor. Should the Engineer-in-charge consider that any such inferior work or materials as described above may be accepted or made use of it shall be within his discretion to accept the same at such reduced rates as he may fix therefore. |
| *Works to be open to inspection**Contractor or responsible agent to be present* | Clause-18: 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 Engineer-in- charge and his subordinates and the contractor shall at all time during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the work shall have been given to the contractor, either himself be present to receive orders and instructions or have responsible agent duly authorised in writing, present for that purpose. Orders given to the contractor’s duly authorised agent shall be considered to have the same force and effect as if they had been given to the contractor himself. |
| *Notice to be given before work is covered up* | Clause 19: The contractor shall give not less than five days’ notice in writing to the Engineer-in-charge or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurements any work in order that the same may be measured and correct dimensions thereof taken before the same is so covered up or placed beyond the reach of measurement, and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the Engineer-in-charge or his subordinate in charge of the work, 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 expense and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed. |
| *Contractor liable for damage done and for imperfections* | Clause 20: If during the period as specified in column A in table attachedfrom the date of completion as certified by the Engineer-in-charge pursuant to clause 7 of the contract or period as specified in Colum B in table attached after commissioning the work. whichever is earlier in the opinion of the NAFED, the said work is defective in any manner whatsoever, the contractor shall forthwith on receipt of notice in that behalf from the NAFED, duly commence execution and completely carry out at his cost in every respect all the work that may be necessary for rectifying and setting right the defects specified therein including dismantling and reconstruction of unsafe portion strictly in accordance with and in the manner prescribed and under the supervision of the NAFED. In the event of the contractor failing or neglecting to commence execution of the said rectification work within the period prescribed there for in the said notice, and/or to complete the same as aforesaid as required by the said notice, the NAFED get the same executed and carried out NAFED Authorities ally or by any other agency at the risk on account and at the cost of the contractor.The contractor shall forth with on demand pay to the NAFED the amount of such costs, charges and expenses sustained or incurred by the Government of which the certificate of the NAFED shall be final and binding on the contractor. Such cost, charges and expenses shall be deemed to be arrears of land revenue and in the event of the contractor failing or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and remedies of the Government, the same may be recovered from the contractor as arrears of land revenue. The Government shall also be entitled to deduct the same from any amount which may then be payable or which may thereafter become payable by the Government to the contractor either in respect of the said work or any other work whatsoever, or from the amount of the security deposit retained by NAFED.  | **Sr. No.** | **Particular** | **DLPfor** | **DLPfromdate ofcompletion** | | | --- | --- | --- | --- | --- | | **A)** | **ForBuilding original work** | **1)RCCframework** | **120Months** | | | 2) Load bearing work | 120Months | | | 3) Water proofing work | 120Months | | | B) | ForBuilding Repairs | 1)SDR/CTRrepairs | 60Months | | | 2) Special repairs / Renovation / Restoration | 24Months | | | 3)Other repairs | | **C)** | For Road Bituminous works  / Flexible pavement | 1. Constructionof road as per design | 60Months | | 1. Strengthening/Two layer MPM/BM | 36Months | | 1. DBMlayer&B.C./ O.G.C.layer orFirststage construction as per design | 36Months | | 1. BTRenewalsingle layer | 24Months | | 1. PatchesofMPM/ BM/DBM in single layer & B.C./ O.G.C. layer | 24Months | | **D)** | For RoadWork Concrete/ Rigid Pavement- | 1. CrustThickness30cm & aboveas per design | 120Months | | 1. Internal Road,& other categoriesroad | 36Months | | 1. Concretepaverblock works | 60Months | | **E)** | For Road Metallingworks Current repairs for road | RoadMetallingworks | 12Months | | Currentrepairsforroad | 12Months | | 1. Potholefillingwithbitumen&geru lime painting | 12Months | | 1. Boardfixedasper IRCnorms | 60Months | | 1. Informatary /DirectionThermoplastic paint | 36Mnths | | **F)** | ForBridgeand  C.D.Works | 1. Bridgeoriginal work | 240Months | | 1. Slabdrainandpipe culvert | 120Months | | 1. ConcreteBuiltup gutter | 120Months | | **G)** | ForBridgerepair work | 1. Special repair i.e. changing of bearing, expansion joint parapet wall reconstruction, fitting of pipe railingJacketingor abutment/pier | 60Months | | 1. Bridgewearing course | 60Months | | 1. EpoxyPaintingwith 2. painting&other repairs | 36Months | | **H)** | **Electrical Works** | **Electrical Works** | **60 Months** | | **I)** | **Other Works** | **All Other Works** | **48 Months** | |
| *Contractor to supply plant, ladders, scaffolding etc**And is liable for damage arising from non-provision of light, fencing etc.* | Clause -21: The contractor shall supply at his own cost all material (except such special materials, if any, as may in accordance with the contract, be supplied from the NAFED’s. stores), plant, tools, appliances, implements, ladders, cordage, tackle, scaffolding and temporary works which may require for the proper execution of the work, whether in the original, altered or substituted form, and whether included in the specification 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 the requirements of the Engineer-in- charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with the carriage therefor 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 which the same may be provided by the Engineer-in-charge at the expense 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 the 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 the expenses of defense of every suit, action or other legal proceedings 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 consent of the contractor be paid for compromising any claim by any such person.The contractor shall install HD CCTV with internet connection to monitor the progress of the works. Contractor shall provide the IP address of the same so that NAFED can monitor the works online too.The contractor shall also provide video shoot of the works every month to NAFED in 2 sets of CD’s/Pendrive. |
|  | Clause-21(A): The contractor shall provide suitable scaffolds and working platforms, gangways and stairways and shall comply with the following regulations in connection there with:Suitable scaffolds shall be provided for workmen for all works that cannot be safely done from a ladder or by other means.A scaffold shall not be constructed, taken down, or substantially altered except: -Under the supervision of a competent and responsible person; andas far as possible by competent workers possessing adequate experience in this kind of work.All scaffold and appliances shall be as per standardsScaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.Scaffolds shall not be over- loaded and so far as practicable the load shall be evenly distributed.Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.Scaffolds shall be periodically inspected by a competent person.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 here-in-specified.Working platforms, gangways and stairways shall: -be so constructed that no part thereof can sag unduly or unequally.be so constructed and maintained, having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping, andbe kept free from any unnecessary obstruction.in the case of working platform, gangways, working places and stairways at a height exceeding 3.00 Metres (to be specified).every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety.Every working platform and gangway, shall have adequate width andevery working platform, gangway, working place and stairway shall be suitably fenced.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 excess of persons or the transport or shifting of material be provided with suitable means to prevent the fall of persons or material.When persons are employed on roof where there is a danger of falling from a height exceeding 3.00 Mts. suitable precautions shall be taken to prevent the fall of persons or material.Suitable precautions shall be taken to prevent persons being struck by articles which might fall from scaffolds or other working places.Safe means of access shall be provided to all working platforms and other working places. |
|  | Clause-21(B): The contractor shall comply with the following regulations as regards the Hoisting Appliances to be used by him.:Hoisting machines and tackle, including their attachments, anchorages and supports shall-be of good mechanical construction, sound material and adequate strength and free from patent defect andbe kept in good repair and in good working order.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.Hoisting machines and tackle 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 the Government.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.Every crane driver or hoisting appliance operator shall be properly qualified.No person who is below the age of 21 years shall be in control of any hoisting machine, including any scaffolding which, or give signals to the operator.In the case of every hoisting machine and of every chain, ring, hook, shackle, swivel pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means.Every hoisting machine and all gear referred to in the preceding regulation shall be plainly marked with the safe working loadIn the case of a hoisting machine having a variable safe working load each safe working load and the conditions under which it is applicable shall be clearly indicated.No part of any hoisting machine or of any gear referred to in regulation (h) above shall be loaded beyond the safe working load except for the purpose of testing.Motors, gearing transmissions, electric wiring and other dangerous part or hoisting appliances shall be provided with efficient safeguards.Hoisting appliances shall be provided with such means as will reduce to a minimum the risk of the accidental descent of the load.Adequate precautions shall be taken to reduce to a minimum the risk of any part of a suspended load becoming accidentally displaced. |
| *Measure for prevention of fire* | Clause-22: The contractor shall not set fire to any standing jungle, trees brushwood or grass without a written permit from the NAFED. When such permit is given, and also in all cases when destroying cut or dug up trees brushwood, grass etc. by fire; the contractor shall take necessary measure to prevent such fire spreading to or otherwise damaging surrounding property.The contractor shall make his own arrangements for drinking water for the labour employed by him. |
| *Liability of contractor for any damage done in or outside work area* | Clause-23:Compensation for all damages done intentionally or unintentionally by contractor's labour whether in or beyond the limits of Government property including any damage caused by the spreading of fire mentioned in clause 22 shall be estimated by the Engineer-in-charge or such other officer as he may appoint and the estimates of the Engineer-in-charge subject to the decision of the NAFED on appeal shall be final and the contractor shall be bound to pay the amount of the assessed compensation on demand, failing which, the same will be recovered from the contractor as damages in the manner prescribed in clause 1 or deducted by the Engineer-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 proceedings that may be brought by any persons for injury sustained by him owing to neglect of precautions to prevent the spread of fire and he shall pay any damages and cost that may be awarded by the court in consequence. |
| *Employment of female labour* | Clause24:The employmentof female labours onworksin neighborhood of soldiers barracks should be avoided as far as possible. |
| *Work on Sunday* | Clause 25: No work shall be done on a Sunday without the sanction in writing of the Engineer-in-charge. |
| *Work not to be sublet**Contract may be rescinded and security deposit forfeited for sublettingit without approval or for bribing a public officer or if contractor becomes insolvent.* | Clause 26:The contract shall not be assigned or sublet without the written approval of the Engineer-in-charge. And if the contractor shall assign or sublet his contract, or attempt so to do, or become insolvent or commence any proceeding to get himself adjudicated and insolvent or make any composition with his creditors or attempt so to do or if bribe, 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 the contract the Engineer-in-charge may there upon by notice in writing rescind the contract. and the security deposit of contractor shall thereupon stand forfeited and be absolutely at the disposal of Government and the same consequences 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 therefor actually performed under the contract. |
| *Sum payable by way of compensation to be considered as reasonable compensation without reference to actual loss.* | Clause - 27: All sums payable by a contractor by way of compensation under any of this 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 has not been sustained. |
| *Change in the constitution of firm to be notified* | Clause-28:In the case of tender by partners, any change in the constitution of a firm shall be forthwith notified by the contractor to the Engineer-in-charge for his information. |
| *Direction and control of the Superintending Engineer* | Clause-29: All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the NAFED 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. |
| *Direction and control of the NAFED* | Clause-30 (1): Except where otherwise specified in the contract and subject to the powers delegated to him NAFED. under the code, rules then in force. The decision of the NAFED of the circle for the time being shall be final, conclusive, and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs, drawings, and instructions here in before mentioned and as to the quality of workmanship or materials used on the work, or as to any other question, claim, right, matter, or things whatsoever, if any way arising out of, or relating to the contract, designs, drawings, specifications, estimates, instructions, orders, or other conditions or otherwise concerning the works, or the execution or failure to execute the same, whether arising during the progress of the work or after the completion or abandonment thereof. |
|  | Clause-30 (2): *Deleted…* |
|  | Clause 30 (3): If the contractor is not satisfied with the order passed by the NAFED as aforesaid the contractor may, within thirty days of receipt by him of any such order, appeal against it to the concerned authority of NAFED who if convinced that prima-facia the contractors claim rejected by NAFED is not frivolous and that there is some substance in the claim of the contractor as would merit a detailed examination and decision by the Standing Committee, shall put up to the Standing Committee at Government level for suitable decisions |
|  | Clause-31: *Deleted…* |
| *Lump-sums in estimates.* | Clause-32: When the estimate on which a tender is made includes lump sums in respect of parts 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 each items, or if the part of the work in question is not in the opinion of the Engineer-in- charge capable of measurement, the Engineer-in-charge may at his discretion pay the lump sum amount entered in the estimate and the certificate in writing of the Engineer-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. |
| *Action where no specifications* | Clause-33:In the case of any class of work for which there is no such specifications as is mentioned in rule 1 such work shall be carried out in accordance with the Divisional specifications of NAFED, 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 Engineer-in- charge. |
| *Definition of work* | Clause-34: The expression "works" or "work" where used in these conditions, shall unless there be something in the subject or context repugnant to such construction be construed to mean the work or works contracted to be executed under or in virtue of the contract, whether temporary or permanent and whether original, altered, substituted or additional. |
| *Contractor’s percentage whether applied to net or gross amount of bill* | Clause-35: The percentage referred to in the tender shall be deductedfrom/added to the gross amount of the bill before deducting the value of any stock issued |
| *Quarry fees and Royalties* | Clause-36: All quarry fees, royalties, octori dues and ground rent, for stacking materials, if any, should be paid by the contractor. Royalty charges including surcharge on all Minor minerals shall be inclusive of rates mentioned. Non-payment of the same, shall be recovered from the contractor. |
| *Compensation under the workmen's compensation act* | Clause-37: The contractor shall be responsible for and shall pay compensation to his workmen payable under the Workman’s Compensation Act 1923 (VIII th of 1923) (hereinafter called the said act) for injuries caused to the workmen. If such compensation is payable/paid by the Government as principal under subsection (1) of section 12 of the said Act on behalf of the contractor it shall be recoverable by Government from the contractor under subsection (2) of the said section. Such compensation shall be recovered in the manner laid down in clause 1 above. |
|  | Clause - 37 (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 NAFED the same shall be recoverable from the contractor forthwith and be deducted without prejudice to any other remedy of Government from any amount due or that may become due to the contractor. |
|  | Clause - 37 (B): The contractor shall provide all necessary personnel safety equipment and first aid apparatus available for the use of the persons employed on the site, and shall maintain the same in condition suitable 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 provided by the contractor and the contractor shall take adequate steps to ensure proper use of the equipment by those concerned.When work is carried on in proximity to any place where there is a risk of drowning all necessary equipment shall be provided and kept ready 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 likely to be sustained during the course of the work. |
|  | Clause - 37 (C) : The contractor shall duly comply with the provisions of "The Apprentices Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said rules and on his failure or neglect to do so, he shall be subject to all the liabilities and penalties provided by the said act and said rules. |
| *Claim for quantities entered in the tender or estimate* | Clause-38: (1) Quantities in respect of the several items shown in the tender are approximate and no revision in the tendered rate shall be permitted in respect of any of the items so long as, subject to any special provision contained in the specifications prescribing a different percentage of permissible variation, the quantities of the items does not exceed the tender quantity without approval of Architect / PMC / Engineer in charge. |
|  | Clause- 39: The contractor shall employ any famine convict or other labour of a particular kind or class, if ordered in writing to do so by the Engineer- in-charge. |
| *Employment of famine labouretc.* | Clause 40: No compensation shall be allowed for any delay caused in thestarting of the work on account of acquisition of land or in the case of clearance works on account of any delay in according to sanction of estimates |
| *Claim for compensation for delay in starting work.**Claim for compensation for delay in execution of work.* | Clause- 41: No compensation shall be allowed for any delay in the execution of the work on account of water standing in borrow pits or compartments. The rates are inclusive of hard or cracked soil excavation in mud, subsoil water or water standing in borrow pits and no claim for an extrarate shall be entertained, unless otherwise expressly specified. |
| *Entering upon or commencing any portion of work* | Clause - 42: The contractor shall not enter upon or commence any portion of work except with the written authority and instruction of the Engineer-in-charge or of his subordinate in charge of the work. Failing such authority the contractor shall have no claim to ask for measurements of or payments for work. |
| *Minimum age ofpersons employed, the employment of donkeys and/or other animals andthe payment of fair wages.* | Clause - 43:No contractor shall employ any person who is and the payment person who is under the age of 18 years.No contractor shall employ donkeys or other animals with breaching of string or thin rope. The breaching must be at least 7.50 cms. wide and should be of tape (Newar)No animal suffering from sores; lameness or emaciation or which is immature shall be employed on the work.The Engineer-in-charge or his agent is authorised 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 of the work by such removal.The contractor shall pay fair and reasonable wages to the workmen 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 NAFED who shall decide the same. The decision of the NAFED, 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 sanctioned tender rates.Contractor shall provide drinking water facilities to the workers. Similar amenities shall be provided to the workers engaged on large work in urban areas.Contractor to take precaution against accidents which take place on account of labour using loose garments while working near machinery. |
| *Method of payment* | Clause 44: Payment to Contractor shall be made by cheque drawn on any treasury within the division convenient to them, provided the amount exceeds Rs.10. No cash shall be paid in lieu of payment |
| *Acceptance of conditions compulsory before tendering for work* | Clause - 45 : Any contractor who does not accept these conditions shall not be allowed to tender for works |
| *Employment of scarcity labour* | Clause - 46: If Government declares a state of scarcity or famine to exist in any village situated within 16 kms. of the work, the Contractor shall employ upon such parts of the work, as are suitable for unskilled labour, any person certified to him by the NAFED, or by any person to whom the NAFEDmay 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 in connection with the implementation of this clause shall be decided by the NAFED whose decision shall be final and binding on the contractor. |
|  | Clause - 47:The price quoted by the contractor shall not in any case exceed the control price, if any, fixed by Government or reasonable price which it is permissible for him to charge a private purchaser for the same class and description the controlled price or the price permissible under Hoarding and Profiteering Ordinance, 1943 as amended from time to time. If the price quoted exceeds the controlled price or the price permissible under Hoarding and Profiteering Prevention Ordinance, the contractor will specifically mention this fact in his tender alongwith the reasons for quoting such higher prices.The purchaser at his discretion will in such case exercise the right of revising the price at any stage so as to conform with the controlled price on the permissible under the Hoarding and Profiteering Prevention Ordinance. This discretion will be exercised without prejudice to any other action that may be taken against the contractor. |
|  | Clause - 47 (A): - "The Rates of Items in schedule "B"/ (BOQ) of NIT are exclusive of Taxes i.e. GST shall be paid extra at the prevailing rates. |
|  | Clause - 48:GST shall be payable on the accepted contract value at prevailing rates seperately. Contractor shall quote his rates excluding GST.Amount of GST @2% i.e.1% C.G.S.T. + 1% S.G.S.T. will be deducted at source (TDS). |
|  | Clause - 49: In case of materials that may remain surplus with the contractor from those issued for the work contracted for the date of ascertainment of the materials being surplus will be taken as the date of sale for the purpose of sales tax and the sale tax will be recovered on such sale. |
|  | Clause - 49 (A): Contractor should note that recovery at penal rate of twice the issue rates will be affected if the contractor does not return surplus material. Sale tax and General tax will be recovered from them. |
|  | Clause-50: The contractor shall employ unskilled labour to be employed by him on the said work only from locally available labours and shall give preference to those persons enrolled under Maharashtra Government and Self Employment NAFED Authority’s Scheme.Provided, however, that if the required unskilled labourare not available locally, the contractor shall in the first instance employ such number of persons as is available and thereafter may with previous permission in writing of the NAFED-in-charge of the said work, obtain the rest of his requirement of unskilled labour from outside the above scheme. |
|  | Clause - 51: Wages to be paid to the skilled and unskilled labours engaged by the contractor. The contractor shall pay the labours skilled and unskilled according to the wages prescribed by the Minimum Wages Act 1948 applicable to the area in which the work of the contractor is located. |
|  | Clause - 52: All amounts whatsoever which the contractor is liable to pay to the Government in connection with the execution of the work including the amount payable in respect of (i) materials and / or stores supplied / issued hereunder by the Government to the Contractor (ii) hire charges in respect of heavy plant, machinery and equipment given on hire by the Government to the contractor for execution by him of the work and/or on which the advances have been given by the Government to the contractor shall be deemed to be Arrears of Land Revenue and the Government may without prejudice to any other rights and remedies of the Government recover the same from the contractor as arrears of land revenue. |
|  | Clause - 53:The contractor shall duly comply with all the provisions of the Contract Labour (Regulation and Abolition) Act 1970, (37 of 1970) and the Maharashtra Contract Labour (Regulation and Abolition) Rules, 1971 as amended from time to time and all other relevant statutes and statutoryprovision concerning payment of wages particularly to workmen employed by the contractor and working on the site of the work. In particular, the contractor shall pay wages to each worker employed by him on the site of the work at the rates prescribed under the Maharashtra Contract Labour (Regulation and Abolition) Rules 1971. If the contractor fails or neglects to pay wages at the said rates or makes short payment and the Government makes such payment of wages in full or part thereof less paid by the contractor, as the case may be, the amount so paid by the Government to such works shall be deemed to be an arrears of land revenue and Government shall be entitled or deduct the same from the amount payable by the Govt. to the contractor here under or from any other amounts payable to him by the Government. |
|  | Clause - 54: The Contractor shall engage apprentices such as bricks layers, carpenters, wiremen, plumber as well as black-smith as recommended by the State Apprenticeship Advisor, Director of Technical Education, Dhobi Talao, Mumbai-1 on the construction work. |
|  | Clause - 55:The antimalaria and other health measures shall be asdirected by the Joint Director (Malaria and Filaria) of Health Services, Pune.Contractor shall see that mosquito genic conditions are not created so as to keep vector populations to the minimum level.Contractor shall carry out anti- malaria measures in the area as per guidelines prescribed under National Malaria Eradication Programme and as directed by the Joint Director (M & F) of Health Services, Pune.In case of default in carrying out prescribed anti-malaria measure resulting increasing in malaria incidence contractor shall be liable to pay to Government the amount spent by Government on anti-malaria measures to control the situation in addition to fine.RELATION WITH PUBLIC AUTHORITIES:The contractor shall make sufficient arrangement for draining away the sullage water as well as water coming from the bathing and washing places and shall dispose off this water in such a way as not to cause any nuisance. He shall also keep the premises clean by employing sufficient number of sweepers. The contractor shall comply with all rules regulation, byelaws and direction given time to time by any local or public authority in connection with this work and shall pay fees or charges which are leviable on him without any extra cost to Government. |
|  | Clause-56: INSURANCE OF CONTRACT WORKContractor shall take out necessary Insurance Policy / Policies (viz. Contractor’s All Risks Insurance Policy. Erection All Risks Insurance Policy etc. as decided by the Directorate of Insurance) so as to provide adequate insurance cover for execution of the awarded contract work for total contract value and complete contract period compulsorily from the: Directorate of Insurance, Maharashtra State, Mumbai “Its postal address for correspondence is “ 264, MHADA, First Floor, Opp. Kalanagar, Bandra (E), Mumbai-400 051”. (Telephone Nos. 2659 0403/ 2659 0690 and Fax Nos. 2659 2461/ 2659 0403). Similarly, all workmen’s appointed to complete the contract work are required to be insured under workmen’s compensation Insurance Policy, Insurance Policy / Policies taken out from any other Company will not be accepted. If any Contractor has effected Insurance with any Insurance Company, the same will not be accepted and the amount of premium calculated by the Government Insurance fund will be recovered directly from the amount payable to the Contractor for the executed contract work and paid to the Directorate of Insurance Fund, Maharashtra State, Mumbai. The Director of Insurance reserves the right to distribute the risks of insurance among the other insurers.The Contractor shall produce the work insurance policy, the same will be reimbursed to the contractor. If contractor fails to produce the work insurance policy, Concerned NAFED shall draw the policy, the amount two times amount of expenditure incurred for drawing the policy shall be recovered from the Ist R.A. Bill of the contractor as penalty to the contractor.If completion period of work is Extended, then period of work Insurance must be renewed / Extended as per requirement. |
|  | Clause-57:-As per building and other construction workers (Resolution of employment and condition of service) Act 1996 and the Building and other construction workers welfare cess Act 1996 and PWD GR. No. BCA 2009/C.No.108/LabourA dt. 17.6.2010 cess of 1% on cost of work shall be recovered from bills payable to the contractor. |

*.****PRICE VARIATION CLAUSE-*** *Not Applicable in this project*

### SUBMISSIONOFMONTHLYBILLINELECTRONICFORM

* + 1. As per clause 10 of this B-2 contract, it is responsibility of the contractor to submit the bill monthly to the NAFED Authorities. NAFED may change this method at its sole discretion.
    2. Todischargethisresponsibility,thecontractorshallsubmitthebillinelectronicform.
    3. Indoingsoheshallusee-copyofTenderPaper.
    4. Insupportofthebills,requiredmeasurements,drawings,qualitycontrolreports(fieldlaband VQCClabasperclause24ofAdditionalGeneralCondition),sitesupervisiondata(SCADA) shall be submitted in electronic form, the data so submitted shall have a facility to Tightly integrateitwiththecontractconditions,provisionsintheMaharashtraPublicWorksmanual, Maharashtra Public Works Account Code (updated to date of submission of this tender) and current general engineering practices (issued through various Govt. resolutions, govt. circulars, NAFED’s Circulars etc. issued upto date of submission of this tender) followed in NAFED.
    5. Thesubmissionofe-billshallbeinthewebbasedformat.
    6. The offer of Contractor shall be inclusive of all. He shall not be paid separately, his offer shall be inclusive of all cost required for submitting bill in e-format mentioned in this para and also.
       1. The cost of procuring, establishing, running, operatingandmaintainingweb-basedsystemfor submission and approval of bill, with all instrumentation/ automation/ services required to submit/ approve / store in NAFED data base.
       2. Webconnectivitytoalllocationswherebillanditsrelevantdocumentsrequiredforthebillis being acquired/ prepared, transmitted, processed, stored and retrieved with minimum speed of 2 MBPSand 100% availability(includingSCADA). The contractorshallprovidetheweb application in such a manner that it shall first update the above data in real time on NAFED’s works monitoring e-governance web application automatically. The contractor shall put his request to NAFED Authorities to get access to the NAFED e-governance web application.
       3. Webbasedapplicationincludingcomputersoftware,hardwareetc.totransmit,process,store and retrieve the data in the forms and formats as prescribed by the NAFED Authorities.
       4. Arrangement for security of all bill and its relevant documents, disaster recovery arrangements shall be as per prevailingI.T. Industry practice, during the construction period and upto defect liability period (DLP) Handing over the data on the web server after DLP in Electronic form as instructed by NAFED Authorities.
       5. Calibrationofallaccessories/attachmentrelatedtobillshallbeasperthespecification.
       6. Web based application to monitor the schedule of Calibration of all related attachment / accessories related bill and its relevant documents. The invalidity of calibration shall lead to non-acceptance of work or measurement and the contractor shall not be paid for such non accepted work or measurement.
       7. Submission of printed and authenticated reports to the NAFED Authorities as and when required.
       8. Point (a) to (g) above shall be arranged and maintained during contract period and defect liability period. Cost includes rectification, fine tuning, corrections, additions and alterations to the system to the satisfaction of NAFED Authorities.

j) AlldatageneratedasperthisspecialconditionofcontractshallbethepropertyofNAFED.

### ADDITIONALCONDITIONS

Contractor shall submit a Certificate to the effect that “All the Payments to the Labour/StaffaremadeinbankaccountstostafflinkedtoUniqueIdentification Number(AADHARCARD)”.TheCertificateshallbesubmittedbythecontractor within 60 days from the commencement of contract. If the time period of contract is less than 60 days then such certificates shall be submitted within 15 days from the date of commencement of contract.

### SCHEDULEA

**Name of work: -NAFED INVITES PROPOSAL FOR PROPOSED RENOVATION, RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE-1)**

Scheduleshowing(approximately)thematerialstobesuppliedfromNAFED Authorities Store for Work contracted to be executed and Preliminary and ancillary Works and the rates at which they are to charge for.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Particulars** | **Quantity** | **Ratein** | | **Placeof Delivery** |
| **Figures** | **Words** |
| **NIL** | | | | | |

NOTE: -The person or firm submitting the tender should see that the rates in the aboveschedulearefilledbytheNAFED-in-chargeontheissueofthe form prior to the submission of the tender.

***ADDITIONALCONDITIONSFORMATERIALS***

***(CEMENT,HYSD/T.M.T./MILDSTEELBARS,HIGHTENSILESTEELBARS,BULKASPHALT ETC.)***

***BROUGHTBYCONTRACTOR.***

1. Allthematerialssuchas cement,T.M.T. / H.Y.S.D. steel bars, Granite, Marble, Tiles and Electrical item etc. required for execution of work shall be brought by the contractor at his own cost.
2. The contractor shall maintain the record of these materials (cement, steel, granite, marble, tiles etc.) in the prescribedproformaandregistersasdirectedbyEngineer-in-charge. Thesampleof prescribed proforma is attached at the end **(Page No.\_\_to\_\_).** These registersshall be signed by both, the contractors and representative of the Engineer-in-charge. These registers shall be made available for inspection, verification for the NAFED Authorities as and when required. These registers shall be in the custodyof NAFED Authorities, and shall be maintained bythe NAFED Authorities.

TheContractorshallsubmitperiodicallyaswellasoncompletionofwork,anaccount of all materials used by him on the work. In addition, a separate register shall be maintainedonsiteforrecordingdailyitemwiseasphalt,cementconsumptionand also item wise consumption of other materials. Thisshallbesigneddailyby Contractor or his representative and representative of Engineer-in-charge.

1. The material required onlyfor this work shall be kept in the go-downatsite. No materialshall be shifted outside of the godown site except for the work for which this agreement is entered, without prior approval of the Engineer-in-charge.
2. The materials i.e. cement, steel, Granite, Marble, Tiles and Electrical Item etc. brought on the worksiteshallbeaccompaniedwithnecessaryCompany/Manufacturingfirm’stestcertificates. In addition, these materials shall be tested as per frequency prescribed by the NAFED Authorities and the cost of such testing shall be borne bythe contractor. If the test results are satisfactory, then andthen onlythe material shallbeallowedtobeusedonthework.Ifthetestresultsare notasperstandardsprescribed, these materials shall beimmediatelyremovedfromthework site at contractor’s cost. In case of cement, if so requested by the contractor in writing, material shall be allowed to be used before receipt of test results but this will be entirely at the risk and cost of the contractor.
3. The contractor shall produce sufficient documentary evidence i.e. bill for the purchase, Octroi receiptsetc.,billforthepurchaseofmaterialsbroughtontheworksiteatonceifsorequestedby the NAFED Authorities.
4. Allthesematerialsi.e.cement,steel,etc.shallbeprotectedfromanydamages,rainsetc.bythe contractor at his own cost.
5. TheContractorwillhavetoerecttemporaryshedofapprovedspecificationsforstoringofabove materialsatworksiteatcontractor’scosthavingdoublelockingarrangements(Bydoublelockit is meant that godown shall always be locked by two locks, one lock being owned and operated by Contractor and other by Engineer-in-charge or his authorisedrepresentative) and the door shall be openable only after both locks are opened.
6. If required,the weighment of cement bags, steel etc. brought bythe contractor shallbecarried out by the contractor at his own cost.
7. The contractor shall not use cement and other material for the item to be executed outside the scope of this contract except for such ancillary small items as are connected and absolutely necessary for this work as may be decided by the Engineer-in-charge.
8. TheGovernmentshallnotberesponsibleforthelossincement,steel,granite,marble,tilesand electrical item during transit to work site.

The cement brought by the contractor at the work site store shall mean 50 Kg., equivalent to 0.0347 cubic metre per bag byweight. The rate quoted should correspond to this method of reckoning. In case of ordinary/controlled concrete, if cement is found short, the shortage / shortages will be made good bythe contractor at his cost.

1. **INDEMNITY**

The condition regarding indemnity as defined in tender / specified by NAFED,will apply mutatis mutandis in case of materials brought by contractor at the site for the execution of the work being executed under this contract.

1. In case the materials brought by the contractor become surplus owing to the change in the design of the work, the materials should be taken back by the contractor at his own cost after prior permission of Engineer-in-charge.
2. Allemptybagsoremptyasphaltdrumsshallbethepropertyofcontractorandthesameshallbe removed immediately after completion of work.
3. **InstructionsforpurchaseofBitumen and Star Rates- N/A**
4. **Instruction regarding procurement of Cement.**
   1. The contractor can purchase the cement from any manufacturer or manufacturer's authorized distributors.
   2. Instructionsregardingthepaymentofpriceescalationduetoincreaseinrate and recovery due to decrease in rate of cement.

Escalation / Recovery amount shall be calculated by considering the difference of Star Rate mentioned in the tender and the actual rate of purchase of cement on the date of purchase.

1. InstructionforpurchaseofSteel.
   1. ThecontractorcanpurchasetheSteelfromany mainmanufacturer(SAIL,TATA Steel, ISPAT and other main manufacturer as directed by the NAFED) or manufacturer's authorized distributors.
   2. Instructionsregardingthepaymentofpriceescalationduetoincreaseinrate and recovery due to decrease in rate of Steel

Escalation / Recovery amount shall be calculated by considering the difference of Star Rate mentioned in the tender and the actual rate of purchase of Steel on the date of purchase,and actual quantity used by the contractor on the concerned work.

1. Responsibility regarding the quality and quantity test check of construction material. (Bitumen, steel, cement)

Following procedure shall be adopted for the verifications of the bills of privatesuppliers of the Steel, Cement, Bitumen and bitumen procured form the private sector refineries and authorized suppliers of Bitumen.

1. ItisbindingonthecontractortosubmitInvoices/Billsofconstructionmaterial/Bitumen (With GST number) procured from Private Sector Refineries / Public Sector Refineries or authorized Private Importers dealers. - Bitumen item is not applicable to this tender.
2. Contractor shall be fully responsible for the authenticity of the invoices /Billssubmitted by themselves regarding the purchase of steel, cement and bitumen as mentioned above para no. 1.3.1,3 (C) and 3 (D).
3. The NAFED / PMC / Architect will be responsible only for **quality and quantity check**of various building material used for the work. (Steel CementBitumenetc.)NAFEDs,Engineers / General Manager of the NAFED Authorities will not be held responsible for the authenticity / genuineness of Invoice/Billsregardingthepurchaseofmaterialsubmittedbythecontractoralong withbill.Infutureiftheinvoices/Billsregardingtheprocurementofmaterial submitted by the contractor is found forged / fake or bogus, thenit is binding on the concerned NAFEDto register criminal offence / FIR against the concerned contractor. If the invoices are found forged / fake or bogus after finalization of agreement, then in such case NAFEDis responsible for filing the Criminal offence / FIR against the contractor as per Indian Penal Code.
4. NAFEDisempoweredtoverifytheInvoices/Bill/Voucherssubmitted by the contractors regarding the purchase of material and in case of any doubt the NAFEDs shall execute field level enquiry of such documents. After due verification of Invoices regarding purchase of constructionmaterial if NAFEDfound forged / fake or bogus, documents then it will bethe responsibility of NAFEDto file Criminal offence against such contractor.
5. **Test of steel Cement and other building material.**

Field officers will be responsible for carrying out various quality control test of steel/cement / other construction material as per the norms ofIndian Standard Bureau for the material procured by contractor.

On the basis of Consumption of Steel/ Cement,required quality control test as per frequency of Tests chartrequired tests shall be carried out.

30% quality control tests shall be carried outin the laboratories of NAFED andremaining70%testsshallbecarriedout infieldlaboratory installed by the contractor at work site.

If field laboratory is not available, then such tests shall be carried out from thelaboratory of Engineering Colleges or any other Government laboratory.

1. If the contractor is found guilty in case of forged /Fake Bills /Invoices regarding the purchase of material, then criminal action shall be taken against such contractor and as per the Law Of Contract such contractor shall be black listed forever for works in the NAFED and will be debarred from tendering process of the NAFED Authorities.
2. IfGradetestingfacility ofbitumenisnotavailablewiththefieldofficer,thenitshall be made available immediately. Facility ofGrade testofbitumenmustbe available with all Sub-Divisions under NAFED Authorities. The necessary equipments shall be procured within the period of 3 months.For this procurement 1% quality control charges shall be utilized.
3. Contractors shall have facility of various test / quality control test and having modern machineries and equipment are only eligible for competitive bidding process. This type of condition shall be included in future tender.
4. Deleted…
5. Contractor shall submit Bills/ Invoices of the utilized items and other construction material in quadruplicate (4 Copies) on the 30thDay of each month to theconcerned PMC / NAFED office as directed. One copy out of four will be duly signed by NAFEDand returned to the contractor for their Tax and Audit purpose. If contractor failstosubmitsuchinvoices,thenhewillbesolely responsibleforthedelay in payment.
6. Bills of works executed by the contractor are based on the measurement of the completed works and accordingly payment is to be done. Contractor shall submit material wise abstract in prescribed format for material consumed and tax invoice and other documents of purchase. Theseconsumption statements will be checked by PMC/NAFEDwith respect to quantities of material mentioned in supporting vouchers. Further contractor shall also submit certificate stating that tax invoices and other documents submitted with bills are notfalse / forge. These certificates shall be attested by contractor. In future if these tax invoices and any other documents is found false / forge, criminal case is to be filed against the contractor.
7. *Deleted…*

# Additional GeneralCondition of Contract

###### ADDITIONALGENERALCONDITIONSANDSPECIFICATIONS

1. Thesearetoapplyasadditionalspecificationsandconditionsunlessotherwisealready provided for contradictorily elsewhere in this contract.
2. **CONTRACTOR TO STUDY SITE CONDITIONS: -**

The contractor shall be deemed to have carefully examined the work and site conditions includinglabour,thegeneralandthespecialconditions,specifications,schedulesand drawings and shall be deemed to have visited the site of the work and to have fully informed himself regarding the local conditions and carried out his own investigation to arrive at rates quoted in the tender. In this regard, he will be given necessary information to the best of the knowledge of NAFED Authorities but without any guarantee about it.

If he shall have any doubt as to the meaning of any portionof these general conditions or the special conditions, or the scope of work or the specifications and drawings or any other matter concerning the contract, he shall in good time, before submitting his tender, set forth the particulars thereof andsubmit themtoNAFED, in writing in order that such doubts may be clarified authoritatively before tendering. Once a tenderissubmitted,thematterwillbedecidedaccordingtotenderconditionsintheabsence of such authentic pre-clarification.

1. **DECELERATION OF THE CONTRACTOR**

The contractor should sign the declaration form on Page No. ....

1. **INDEMNITY: -**

The contractor shall indemnify the Government against all actions, suits, claims and demands brought or made against in respect of anything done or committed to be done by the Contractor in execution of or in connection with the work of this contract and against any loss or damage to the Government in consequence of any action or suit being brought against the contractor for anything done or committed to be done in the execution of the works of this contract.

1. **DEFINITIONS: -**

**Unless excluded by or repugnant to the context.**

* 1. Theexpression “Government “as used in the tender papers shall be mean the National Agricultural Cooperative Marketing Federation Of India Ltd. (NAFED) / Architect / PMC
  2. Theexpression“NAFED“asusedanywhereinthetenderpapersshallmean NAFED of the NAFED who is designated as such.
  3. The expression “NAFED” as used in the tender papers shall mean an officer of NAFED’s General Manager (by whatever designation he may be known) under whose control the work lies for the time being.
  4. The expression “Engineer” or “Engineer - in - charge” as used in the tender papers shall mean NAFED / General Manager NAFED / Agency of appointed by NAFED, in charge of the work for the time being.
  5. Theexpression“Employee”used in thetender papersshallmean theparty whowill employ the contractor to carry out the works.
  6. The expression “Architect” as used in tender paper shall mean the Architect and PMC appointed by the NAFED.
  7. The Expression “Contractor“used in the tender papers shall mean the successful tenderer whose tender has been accepted, and who has been authorised to proceed with the work.
  8. The expression“Contract”asusedin tender papersshall mean the deed of contract together with its original accompaniment and those later incorporated in it by mutual consent.
  9. The expression “Plant” as used in the tender papers shall mean every machinery, necessaryor considered necessary by the Engineer to execute, construct, complete and maintain the works and used in altered, modified, substituted and additional work ordered in the timeand the manner herein provided and all temporary materials and special and other articlesof appliances of every sort, kind and description whatsoever intended or usedhereof.
  10. “Drawings”shallmeanthedrawingsreferredtointhespecificationsandany modifications of such drawings approved in writing by Engineer and such other drawingsas may from time to time be furnished or approved in writing by the Engineer.
  11. “Engineer’s representative” shall mean an assistant of the Engineer / NAFED’s appointed PMC / Architect notified inwriting tothe contractor by the Engineer.
  12. “Provisional items” shall mean items for which approximate quantities have been includedin the tender documents.
  13. The “Site” shall mean the lands and / or other places, on, under, in or through which the workistobe executedunderthe contractincluding any otherlands or places which may be allotted by Government or used for the purpose of contract.
  14. The “Work” shall mean the works to be executed in accordance with the Contract or part(s) thereof as the case may be and shall include all extra, additional, altered or substituted works as required for performance of the contract.
  15. The“Contractsum”shallmeanthesumforwhichthetenderis accepted
  16. The“AcceptingAuthority”shallmeantheofficercompetenttoacceptthe tender.
  17. The “Day” shall mean a day of 24 hours from midnight to midnight irrespective of the number or hours worked in any day.
  18. “Temporary works” shall mean all temporary works of every kind required in or about the execution, completion or maintenance of the works.
  19. “Urgentworks”shallmeanany measurewhich,intheopinionoftheEngineer-in- charge,becomenecessaryduringtheprogressoftheworkstoobviateanyriskor accident or failure or which become necessary for security of the work or the persons working, thereon.

Where the context so requires, words importing the singular only also include the plural and vice-versa.

Heading and marginal notes, if any, to the general conditions shall not be deemed to form part there of or be taken into consideration in the interpretation or construction thereof the contact.

Wherever there is mention of “Schedule of rates” of the Division or simply D.S.R. in thistender, it will be taken to mean as “the Schedule of the rate of the Division in whosejurisdiction the work lies.”

1. **ERRORS, OMISSION AND DISCREPANCIES:**
   1. In case of errors, omissions and / or disagreement betweenwritten and scaled dimensionson the drawing or between drawings and specifications etc. the following order of preference shall apply.
      1. Between actual scaled and written dimensions or descriptions on a drawing the latter shall be adopted.
      2. Between the written or shown description of dimensions in the drawing and corresponding one in the specifications,the latter shall apply.
      3. Between the quantities shown in schedule of quantities and those arrived at from the drawings, the latter shall be preferred.
      4. Between the written description of the item in the scheduled of quantities and the detaileddescriptioninthespecificationsofthesameitems,thelattershallbe adopted.
   2. In case of discrepancy between rate quoted in figures and words, the lowest of the two will be considered for acceptance of the tender.
   3. Inallcasesofomissionsand/ordoubtsor discrepanciesinthedimensionsor description of any item or specification, reference shall be made to the NAFED, whoseelucidation,ordecisionshallbeconsideredas authentic. The contractor shall be held responsible for any errors that may occur in the work through lack of such reference and precaution.
   4. The special provision in detailed specifications and wording of any item shall gain precedence over corresponding contradictory provisions (if any) in the standard specifications of NAFED Hand Book where reference to such specifications is given without reproducing the details in contract.
2. **METHODOLOGY OF CONSTRUCTION & CONSTRUCTION EQUIPMENT’S:**
3. **Methodology of Construction:**

Contractorshallfurnishatleast5daysinadvance,hisprogrammeofcommencementof items of work, the details of actual methods that would be adopted by the contractor for the executionofvariousitemsofworklikefoundation,concerting,flooring,plastering,roofing etc in building work.such as well sinking, cast-in-situ superstructure for bridge work, earthwork, W.B.M. black topping items etc. for road works supported by necessary drawings and sketach including those of the plant and machinery that would be used, their locations, arrangementforconveyingandhandlingmaterialsetc.andobtainpriorapprovaloftheEngineer - in - charge well in advance of starting of such items of work. The Engineer - in - charge reserves the right to suggest modifications or make complete change in the method proposedbythecontractor,whetheracceptedpreviouslyornot,atanystageofwork,to obtain the desired accuracy, quality and progress of the work which shall be binding on the contractor,andnoclaimonaccountofsuchchangeinmethodofexecutionwillbe entertained by Government so long as specifications of the items remain unaltered. The sole responsibility for the safety and adequacy of the methods adopted by the contractor willhowever rest on the contractor irrespective of any approval given by the Engineer.

Incase of slippage from the approvedwork programme at any stage, the contractor shall furnish revised programme to make up the slippage within the stipulated time schedule and obtain the approval of the Engineer to the revised programme.

1. **CONSTRUCTION EQUIPMENT:**

The contractor shall be required to give a trial run of the equipment for the establishing their capability to achieve the laid down specifications and tolerance to the satisfaction of the Engineer before commencement of the work. All equipment provided shall be of proven efficiency and shall be operated and maintained at all times, in a manner acceptable to the Engineer and no equipment or personnel will be removed from site without permission of the Engineer.

1. **PROGRESS SCHEDULE:**
2. ThecontractorshallfurnishwithintheperiodofOnemonthoftheorder tostartthework, theprogrammeofworkinCPM/PERTchartsinquadruplicateindicatingthedateof actual start, the monthly progress expected to be achieved and the anticipated completion date of eachmajor itemof work to be done by him, also indicating dates of procurementand setting upof materials, plant and machinery. The schedule is to be such as ispracticableofachievementtowardsthecompletionofthewholeworkinthetimelimit, the particular items, if any, on the due dates specified in the contract and shall have the approvaloftheEngineer-in-charge.Norevisedscheduleshallbeoperativewithout such acceptance in writing. The Engineer is further empowered to ask for more detailed scheduleorschedulessay:weekbyweekforanyitemoritems,incaseofurgencyof workaswillbedirectedby himandthecontractorshallsupply thesameasandwhen asked for.
3. The Contractor shall furnish sufficient plant, equipment and labour as may be necessary to maintain the progress of schedule. The working and shift hours restricted to one shift a day for operations to be done under the Government supervision shall be such as may beapproved by the Engineer - in - charge. They shall not be varied without the prior approval of the Engineer. Night work which requires supervision shall not be permitted except when specifically allowed by Engineer each time, if requested by the Contractor. The Contractor shall provide necessary lighting arrangements etc. for night work as directed by Engineer without extra cost.
4. Further, the contractor shall submit the progress report of work in prescribed forms and charts etc. at periodical intervals as may be specified by the Engineer - in - charge. Schedule shall be in form of progress charts, forms, progress statement and / or reports as may be approved by the Engineer.
5. The contractor shall maintain proforma, charts, details regarding machinery, equipment, labour,materials,personneletc.asmay bespecifiedby theEngineerandsubmit periodical returns thereof as may be specified by the Engineer - in - charge.
6. **AGENT AND WORK ORDER BOOK:**

Thecontractor shallhimselfmanagethework.andengageanauthorisedall-time agent on the work capable of managing and guiding the work and understanding the specificationsandcontractconditions.Aqualifiedandexperienced,Engineershallbe provided by the Contractor as his agent for technical matters in case the Engineer - in - charge considersthisasessentialfortheworkandsodirectsthecontractor.Hewilltakeordersas will be given by the NAFEDor his representative and shall be responsible for carrying them out. This agent shall not be changed without prior intimation to the NAFEDand his representative onthe work site. The contractor shallsupply to the Engineerthe details of all supervisory and other staff employed by the contractor and notify changeswhen made,and satisfy the Engineer regarding the quality and sufficiency of the staff thus employed. The Engineer will have unquestionable right to ask for change in the quality and number of contractor’s supervisor staff and to other removal from work of any of such staff.The contractor shall comply with such orders and effect replacements to the satisfaction of the Engineer.

A work order book shall be maintained on site and it shall be the property of NAFEDandthecontractorshallpromptlysignordersgiventhereinbyNAFEDor his representative and his superior officers, and comply with them.

ThecomplianceshallbereportedbythecontractortotheEngineeringoodtimeso that it can be checked. The blank work order book with machine numbered pages will be provided by the NAFED Authorities free of charge for this purpose. The contractor will be allowed to copy out instructions therein from time to time.

1. **SETTING OUT:**
2. **SETTING OUT FOR (BUILDING WORKS):**

The Engineer-in-charge shall furnish the contractor with only the four corners of the works siteandalevelbenchmarkandthecontractorshallsetouttheworksshallprovidean efficient staff for the purpose andshall be solely responsible for the accuracy of such settingout.

The contractor shall provide, fix and be responsible for the maintenance of all stacks.Templates, level marks, profiles and other similar things and shall take all necessaryprecautions to prevent their removal or disturbance and shall be responsible for theconsequence of such removal or disturbance should be the same take place and for theirefficientandtimelyreinstatement.Thecontractorshallalsoberesponsibleforthe maintenance of all existing survey marks, boundary marks, distance marks and center line marks, either existing or supplied and fixed by the contractor. The work shall be set out to the satisfactionof theNAFED Authorities. The approvalthereof or joining with the contractor bythe NAFED Authorities in setting out the work, shall not relieve the contractor of any of his responsibilities.

Beforebeginningthework,thecontractorshallathisowncostprovideallnecessary reference and level posts, pegs, bamboo’s, flags, ranging rods, strings and other materials for proper layout of the work in accordance with the scheme for bearing marks acceptable to the NAFED Authorities. The centre, longitudinal or face lines and cross lines shall be marked by means of small masonry pillars. Each pillar shall have distinct mark at the centre to enable the odoliteto besetover it.No workshallbestarteduntil all these points are checked and approvedbytheNAFED Authoritiesinwritingbutsuchapprovalshallnotrelievethe contractor of any of his responsibilities. The contractor shall also provide all labour, materialandotherfacilities,asnecessary,forthepropercheckingoflayoutandinspectionofthe points during construction.

Pillars bearing geodetic marks located at the sites of units of works under construction shouldbe protected and fenced by the contractor.

On completion of works, the contractor must submit the geodetic documents according towhich the work was carried out.

1. **RESPONSIBILITIES FOR LEVEL AND ALIGNMENT: -**

The contractor shall be entirely and exclusively responsible for the horizontal and vertical alignment,thelevelsandcorrectnessofeverypartoftheworkandshallrectifyeffectively anyerrorsorimperfectionstherein.Suchrectificationsshallbecarriedoutbythecontractor, at his own cost, when instructions are issued to that effect by the Engineer - in - charge.

1. **LEVELLING INSTRUMENTS: -**

If measurements of items of the work are based on volumetric measurements calculated from levels taken before and after construction of the item, a large number of leveling staves, tapes etc.willhavetobekeptavailablebythecontractoratthesiteofworkforthispurpose,Lack of such leveling staves, tapes etc. in required numbers may cause delay in measurements andthe work. The contractor will have therefore to keep sufficient number of these instruments readily available at site and in good working condition.

1. **AUTHORITIES OF THE ENGINEER-IN-CHARGE’S REPRESENTATIVE: -**

The duties of the representative of the Engineer - in - charge are to watch and supervise thework and test and examine any material to be used or workmanship employed in connection with the works.

The Engineer - in - charge may from time to time, in writing delegate to his representative any powers and authorities vested in the Engineer - in - charge and shall furnish to the contractor a copy of all such delegations of powers and authorities. Any written instructions or approval given by the representative of the Engineer - in - charge to the contractor within the terms of such delegations (but not otherwise) shall bind the contractor and the NAFED Authorities as though it had been given by the Engineer - in - charge, provided always as follows.

FailureoftherepresentativeoftheEngineer-in-charge,todisapproveanyworkor materials shall not prejudice the power of Engineer - in - charge thereafter to disapprove such work or materials and so order the putting down removal or breaking up thereof.

1. **CO-ORDINATION: -**

When several agencies for different sub - works of the Project are to work simultaneously ontheprojectsite,theremustbefullco-ordinationandco-operationbetweendifferent contractortoensuretimelycompletionofthewholeProjectsmoothly.Thescheduleddates forcompletionspecifiedineachcontractshallthereforebestrictlyadheredto.Each contractormaymakehisindependentarrangementsforwater,power,housingetc.ifthey sodesire. On the other hand, the contractors are at liberty to come to mutual agreement in this behalf and make joint arrangements with the approval of the Engineer. No single contractorshall take or cause to be taken any steps or action that may cause disruption, discontent or disturbance to work, labour or arrangements etc. of other contractors in the Project localities. Any actionby any contractor which the Engineer in his unquestioned discretion may consideras infringement of the above code would be considered as a breach of the contract conditions and shall be dealt with as such.

In case of any dispute or disagreement between the contractors, the Engineer’s decision regarding the co-ordination, CO-operation and facilities to be provided by any of thecontractors shall be final and binding on the contractor concerned and such a decision or decisions shall not vitiate any contract nor absolve the contractor (s) of his/their obligations under the contract nor form the grounds for any claim or compensation.

1. **ASSISTANCE IN PROCURING PRIORITIES, PERMITS ETC: -**

The Engineer on a written request by the contractor will if in his opinion, the request is reasonable and in the interest of work and its progress, assist the contractor in securing the priorities for deliveries. transport permits for controlled materials etc. where such are needed.

The Government will not however be responsible for the non-availability of such facilities or delay in this behalf and no claims on account of such failure or delays shall be allowed by the Government.

The contractor shall have to make his own arrangement for machinery required for the work. However, if suchmachinery is conveniently available with the NAFED Authorities may be spared aspertherulesinforceonrecoveryofnecessarySecurityDepositandrentwithagreementin theprescribedform.SuchanAgreementshallbeindependentofthiscontractandthesupply ornon-supplyofmachineryshallnotformagroundforany claimorextensionoftimelimit for this work.

1. **QUARRIES: -**
2. The contractor (s) shall have to arrange himself / themselves to procure the quarries. However necessary assistance will be rendered by the NAFED Authorities for procuring the quarries if required by the contractor.
3. The quarrying operations shall be carried out by the Contractor with proper equipment such as compressors, jack-hammers, drill bits, explosives etc. and sufficient number of workmen shall be employed so as to get the required out-turn.
4. The contractor shall carry out the works in the quarries in conformity with all rules and regulations already laid down or may Laid down from time to time by Govt. Any cost incurred by Government due to noncompliance of any rules or regulations or due to damages by the contractor shall be the responsibility of the Contractor.
5. The Engineer - in - charge or his representative shall be given full facilities by the Contractor for inspection at all times of the working of the quarry, records maintained, the stocks of the explosives and detonators etc. so as to enable him to check that the workingrecordsandstorageareallinaccordancewiththerelevantrules.The Engineer - in - charge or his representative shall at any time be allowed to inspect the work, building, and equipment at the quarries.
6. The contractor shall maintain at his own cost the books, registers etc. required to be maintainedundertherelevantrulesandregulationsandasdirectedby theEngineer- in - charge. These books shall be open for inspection at all times by the Engineer - in - charge or his representative and the Contractor shall furnish the copies or extracts of books or registers as and when required.
7. All quarrying operations shall be carried out by the contractor in organised and expeditious manner, systematically and with proper planning. The contractor shall engage licensed blaster and adopt electric blasting and / or any other approved method which would ensure complete safety to all the men engaged in the quarry and its surroundings. The contractor shall himself provide suitable magazines and arrange to procureand storeexplosivesetc. asrequired undertherules athisowncost.Thedesigns and the location of the magazine shall be got approved in advance from the Chief Inspector of Explosives and the rules and regulations in this connection as laid down by the Chief Inspector of Explosives from time to time shall be strictly adhered to by the Contractor. It is generally experienced that it takes time to obtain the necessarylicences for blasting and licences for storage of material from the concerned authorities. The contractor must therefore take timely advanced action for procuring all such licenses so that the work progress maynot be hampered.
8. The approaches to the quarrying place from the existing public roads shall have to be arrangedbythecontractorathisowncost,andtheapproachesshallbemaintainedbythe contractor at his own cost till the work is over.
9. The quarrying operations shall be carried out by the Contractor to the entire satisfaction of the Engineer - in - charge and the development of the quarry shall be made efficiently so asto avoid wastage of stones. Only such stones as are of the required quality shall be used on the work. Any stone which is in the opinion of the Engineer - in - charge, not in accordance with the specifications or of required quality will be rejected at any time, at the quarry or at the site of work. The rejected stones shall not be used on the work and such rejected materials shall be removed to the place shown at the Contractor’s cost.
10. Since all stones quarried from Government quarry (if made available) by the Contractor including the excavated over burden are the property of the Govt. no stones or the earth shallbesuppliedbytheContractortoanyotheragenciesorworks,andarenotallowedto be taken away for any other works. All such surplus quarried materials not required for work under this contract shall be the property of the Govt. shall be handed over by the ContractortoGovernmentfreeofcostatquarrysitedulyheapedatthespotsindicatedby the Engineer - in - charge.If however, the Government does not require such surplus material, the Contractor may be allowed to dispose of or use such material elsewhere with prior written permission of Engineer - in - charge. Leaving off a quarry face or opening of a new quarry face shall be done only on the approval of the Engineer - in - charge.
11. Quarrying permission will have to be directly obtained by the Contractor, from the Collector of the District concerned for which purpose the NAFED Authorities will render necessary assistance. All quarry fees, royalty charges, octroi duties, ground rent for stacking material etc. if any to be paid, shall be paid directly by the Contractor as per rules in force.
12. The contractor will be permitted to erect at his own risk and cost at the quarry site if suitable vacant space in Government area is available for the purpose, his ownstructures for stores, offices, etc. at places approved by the Engineer - in - charge. On completionoftheworkthecontractorshallremoveallthe structureserectedby him and restore the site to its original condition.
13. Thecontractorshallnotuseany landinthequarry eitherforcultivationorforany other purpose except that required for breaking or stacking or transporting stones.
14. **COLLECTION OF MATERIALS: -**
15. (I) Where suitable and approved NAFED’s quarries exist, the contractor or piece worker will be allowed if otherwise there is no objection to obtain the materials to the extent required for the work from the quarry. He will be however, liable to paycompensation, if any damage is caused to the quarry either deliberately or through negligence or for wastage of materials by himself or his staff or labour. The contractor shall pay necessary royalty in advance.
16. Where no suitable NAFED’s quarries exist or when the quantity of the material required cannot be obtained from NAFED quarry the contractor or piece- worker shall make his own arrangement to obtain the material from existing or a new quarry in Government waste land, private land or land belonging to other states or talukas, etc. After opening the quarry but before starting collection, the quarry shall be gotapprovedbytheEngineer-in-chargeorhisrepresentatives.Thecontractoror piece workers shall pay all royalty charges compensation etc. No claims orresponsibility on account of any obstructions caused to execution of the work by difficulties arising out of private owners of land, will be entertained.
17. The rates in the tender includes all incidentalcharges such as opening of a new quarry, opening out a new portion in an existing quarry, removingtop soil and the unsuitable material, dewatering a quarry, cost of blasting powder and fuse, lift, lead, repairs to existing cart tracks, making new cart tracks, control charges, Central / StateGovernment or Municipal Taxes.
18. (iv) The rates in the tender are for the delivery of approved material on road side, properly stackedattheplaces specifiedby Engineer- in- charge andare inclusive of conveyancechargesinrespectoftheleadsandlifts.Noclaimson accountof changes in lead will be entertained. The rates are also inclusive of demolition. However, steel / scrap found in the demolition shall be property of NAFED. Contractor shall not use / sell this in any manner and deposit with NAFED Engineer in charge.
19. (v) No material shall be removed from the land within the road boundary or from the land touchingitwithoutthewrittenpermissionofthe Engineer-in-charge orhis authorised agent. If any material is unauthorisedly obtained from such places, the contractor or piece worker shall have to make good the damages and pay such compensation,inaddition as may be decided by the NAFEDand will haveto stop further collection.
20. Any material that falls on any Road from the cart etc. during conveyance shall be immediately picked up and removed by the contractor or piece worker, failing which it will be got removed NAFED Authoritiesally at contractor’s cost. No heap shall be left prior to stacking even temporarily on the road surface or in any way so as to cause any obstruction or danger to the traffic. The contractor or the piece worker shall be liable to pay for any claims of compensation etc. arising out of any accident, etc. Any suchmaterial causing obstruction or danger etc. will be got removed NAFED Authorities at his cost and no claims for any loss or damage to the material, thus removed, will be entertained. The contractor shall also be responsible for the damage or accident etc. arising out of any material that falls on the road or track, not in charge of the NAFED Authorities and shall attend to any complaints which may be received.
21. The materials shall not be stacked in place where it is liable to be damaged or lost due to traffic passing over it, to be washed away by rain or flood, to be buried under the land slide etc. or to slip down on embankment or hill side etc. No claims for any loss due to these and similar causes will be entertained
22. Before stacking, the materials shall be free from all earth rubbish, vegetable matter and other extraneous substance and in the case of metal, screened to gauge, if so directed. When ready, it shall be stacked entirely clear of the road way, on ground which hasbeencleanedof vegetationandleveled. On high banks, Ghat roads etc. where it may not be practicable to stack it entirely clear of the roadway, it may be stacked with the permission of the Engineer - in - charge on berms in such a way as to cause minimum danger and obstruction to the traffic or as may be directed by him.
23. Nodeductionwillbemadefor voids.
24. **TEMPORARY QUARTERS AND SITE OFFICE:**
25. The contractor shall at his own expenses maintain sufficient experienced supervisory staff etc. required for the work and shall make his own arrangements, provide housing for them with all necessary arrangements including fire preventive measures etc. as directed by the Engineer - in - charge.
26. The contractor shall provide, furnish, maintain and remove on completion of the work, a suitable office on the work site for the use of NAFED’s representative. The coveredareaexclusiveofverandahshouldnotbelessthan37.17sqm.Itmayhave bamboo matting walls and asbestos or corrugated iron roof, paved floor should be 45 cm. abovegroundlevel.Heshouldprovidelatrines,urinalsandkeepthemcleandaily.This will be supposed to be included in his rate.
27. **TREASURE - TROVE:**

Intheeventofdiscoveryby thecontractororhisemployees,duringtheprogressofthework of any treasure, fossils, minerals or any other articles of value or interest, the contractor shall give immediate intimation thereof to the Engineer and forthwith hand over to the Engineer.Such treasure or things which shall be the propertyof the Government.

1. **PATENTED DEVICES MATERIALS AND PROCESSES:**

Whenever the contractor desires to use any designed devices, materials or process covered by the letter of patent or copy right, the right for such use shall be secured by suitable legal arrangementandagreementwithpatentownerandacopy oftheiragreementshallbefiled with the Engineer - in - charge if so desired by the latter.

1. **EXPLOSIVES:**

The contractor shall at his own expense construct and maintain proper magazines, if such are requiredforthestorageofexplosivesforuseinconnectionwiththeworks,andsuch magazine, being situated, constructedandmaintainedin accordance with the Government Rulesapplicableinthatbehalf.Thecontractorshallathisownexpensesobtainsuchlicense or Licenses as may be necessary for storing and using explosives notwithstanding that the locations etc. of storage of explosives are approved by the Engineer, the Government shall not beincuranyresponsibilitywhatsoeverinconnectionwithstorageanduseofexplosiveson thesiteoranyaccidentoroccurrencewhatsoeverinconnectiontherewith,alloperationsof the contractor in or for which explosives are employed being at the risk of the contractor and upon his sole responsibility and the Contractor hereby gives to the Government and absolute indemnity in respect thereof.

1. **DAMAGE BY FLOODS OR ACCIDENTS:**

Thecontractorshalltakeallprecautionsagainstdamageby floodsortidesorfromaccident etc. No compensation will be allowed to the contractor on this account or for correcting and repairing any such damage to the work during construction. The contractor shall be liable to makegoodathiscostany plantormaterialsbelongingtotheGovernment,lostordamaged by floods or from any other cause while is in his charge.

1. **POLICE PROTECTION:**

For the special Protection of camp and the contractor’s works, the NAFED Authorities will help the contractor as far as possible to arrange for such protection with the concerned authorities if so required by the contractor in writing. The full cost of such protection shall be borne by the contractor.

1. **SUPERVISION AND INSPECTION OF WORKS AND QUALITY CONTROL:**
2. **SUPERVISION:**

The contractor shall either himself supervise the execution of the works or shall appoint the competentagentapprovedbytheEngineer-in-chargethecontractorhashimselfno sufficientknowledgeand experience of receiving instructions or cannotgive his fullattentionto the works, the contractor shall at his own expenses, employ as his accredited agent aqualified Engineer approve by the Engineer - in - charge.

Ordersgiventothecontractor’sagentshallbeconsideredtohavetheforceasifthesehad been given to the contractor himself. If the contractor fails to appoint a suitable agent as directedbytheEngineer-in-charge,theEngineerchargeshallhavefullpowertosuspend the execution of the work until such date a suitable agent is appointed and the contractor shallbe responsible for the delay so caused to the works and contractor shall not be entitled for any compensation on this behalf.

1. **INSPECTION:**

Thecontractorshall inform theEngineer -in -chargein writingwhenanyportionoftheworkis ready for inspection giving him sufficient notice to enable him to inspectthe same without affecting the further progress of the work. The work shall not be considered to have been completed in accordance with the terms of the contract until the Engineer - in - charge shallhave certified in writing to that effect. Approval of the materials or workmanship or approvalof part of the work during the progress of execution shall not bind the Engineer - in - charge or in anywayaffect him even to reject the work which is alleged to be completed and to suspend the issue of his certificate of completion until such alteration and modifications or reconstruction have been effected at the cost of the contractor as shall enable him to certify that the work has been completed to his satisfaction.

The contractor shall provide at his cost necessary ladders and such arrangements as to provide necessary facilities and assistance for proper inspection of all parts of all parts of work at his own cost.

1. **INITIAL MEASUREMENTS FOR RECORD:**

Where, a proper measurement ofwork, it is necessary to have an initial set of levels or other measurementstaken,thesameasrecordedintheauthorisedfieldbookormeasurementbook ofGovernmentby theEngineerorhisauthorisedrepresentativewillbesignedby the contractorwhowillbeentitledtohaveatruecopyofthesamemadeathiscost.Any failureonthepartof the contractor togetsuchlevels etc. recordedbefore starting the work,will renderhimliabletoacceptthedecisionoftheEngineerastothebasisoftaking measurements. Like-wise the contractor will not cover any work which will render its subsequent measurements difficult or impossible without first getting the same jointlymeasuredby himselfandtheauthorizedrepresentativeoftheNAFED.The record ofsuchmeasurementsontheGovernmentsidewillbesignedbytheContractorandhewill be entitled to have a true copy of the same made at his cost.

1. **SAMPLES AND TESTING OF MATERIALS:**
   * + 1. All materials to be used on work shall be got approved in advance from the Engineer - in - charge and shall pass the test and / or analysis required by him, which will be: -
2. asspecifiedinthespecificationsfortheitemsconcernedand/ or,
3. Red book.
4. asspecified by the Indian Road CongressStandard Specificationandcode of practice for Road and Bridges or,
5. AsperI.S.I.Specifications(Whicheverandwhereverapplicable) or
6. Asper ministry of surface transport specificationfor road and bridges /III rd edition Sec.900 quality control for road works.
7. SuchreconginsedspecificationsacceptabletotheEngineer-in-chargeasequivalent thereto or in the absence of such authorised specifications.
8. such requirements test and /or analysis as may be specified by the Engineer - in - charge in the order of procedure given above.
   * + 1. Thecontractorshallathisriskandcostmakeallarrangementand/orshallprovideforall suchfacilitiesastheEngineer - in- charge may requirefor collecting, preparing and forwarding required number of samples for tests or for analysis at such time and to such placeor places may be directed by the Engineer and bear all charges andcost of testing. Such samples shall also be deposited with the Engineer-in-charge.
       2. The contractor shall as and when required submit at his cost the samples of materials to be tested or analysed and if , so directed, shall not make use of or incorporate in the work anymaterials to be represented by the samples until the required tests or analysis have been made and the materials, finally accepted by the Engineer-in-charge.
       3. Thecontractorshallnotbeeligibleforanyclaimorcompensationeitherarisingoutofanydelayin the work or due to anycorrective measures required to be taken on account of and as a result of testing of the materials.
       4. The contractor or his authorized representative will be allowed to remain present in the NAFED Authoritiesallaboratorywhiletestingsamplesfurnishedbyhim.However,theresultsofall the tests carried out in the NAFED Authoritiesal laboratory in the presence or absence of the contractoror his authorized representative will be binding on the contractor.
       5. Cost of routine day-to-day quality control testing charges for tests required as per specificationswillbebornebycontractorbysendingthesampletotheconcernedvigilance and quality control Laboratory.
       6. **(a)** The contractor shall have at his own cost set up laboratory to carry out the routine tests of materials which are to be used on the work. The tests will have to be carried out either in his field laboratory or in an approved laboratory. In case tests are carried out in field laboratory at least 50 % testing should be carried out at the nearest quality control laboratory of the NAFED Authorities.
9. (vii) (b) when such field / site laboratory has been setup by the contractor, the same shall be checked & get approved from the executive NAFED Authorities of the work.
10. Ontheworkwhenthesuchfield/sitelaboratoryissetup100%listingofmaterialwhich are to be used on the work will have to be got tested form the vigilance and Quality Control Laboratoryofthe NAFED Authorities.

SpecialCondition

The Contractor shall have to adhere to the frequency of testing of material which are to be used on the work as per the frequency chart appended as Annexure – “B”, **(Page No. 116 to 121)** the Quality Control test required on the materials are appended as Annexure A. **(Page No. 114 & 115)** The number of test to be conducted on materials which are to be used on the work indicated in the frequency chart are minimum required test. The Engineer in-charge may ask for more number of tests as and when required.

* + - 1. In caseofmaterialprocuredbythecontractor,testingasrequiredbythecodesandspecifications shall be arranged by him at his own cost. Testing shall be done in the presence of authorized representativeoftheEngineer-in-chargeathenearestapprovedLaboratory.Ifadditionaltesting other than as required by specifications is ordered, the testing charges shall be borne by the NAFED Authorities, if the test results are satisfactory and by the contractor if the same are not satisfactory.
      2. In case of materials supplied by the Government, if the contractor demands certain testing, the charges thereof shall be paid by the contractor if the test results are satisfactory and by the NAFED Authorities if the same are not satisfactory.
      3. Testing shall be carried out at approved P. W. D. Government Laboratories or institutions as directed by the Engineer - in - charge and all testing charges shall be borne by the contractor.
      4. 15%oftherateshallbewithheldandshallbereleasedonlyafterthereceiptofthe satisfactory test results whenever specified excluding concrete items. “Routine test shall mean testing of aggregate for gradation, flakiness index., impact value and binder contents. “
      5. Mixdesignofconcreteitems where specified shall be broughtby the contractor at his own cost, from Govt. laboratory. Also testing of high tensile steel is to be done by the contractor at his own cost.

1. **CHANGE OF CEMENT CONTENTS ETC.:**

The tendered rates for any item, involving the use of cement shall apply to the quantity of cementspecifiedforthemixforthatiteminthespecifications.Ifforanyreasons,expect those required for compensating the deficiencies in the components, the cement content and properties are altered by the Engineer (Engineer - in - charge) at any time or from time to time the tendered rates for that particular item and quantity or quantities, shall be duly enhanced or reduced only to accountfor the addition or reduction in cost of the cement content from thatlaid down in the specification at the rates. Specified in D. S. R. of the district on which the estimate is based plus 10 % to cover all other incidental change whatever. Likewise, if any additives compounds, water proofing materials etc. are ordered by the Engineer to be added to themortarorconcrete,noextrarateshallbepayableforthischangewhichshallbecarried out as per directions of the Engineer - in - charge, provided cost of such additives etc. is borne by Government or these are supplied free of costs to contractor at site by the Government.

1. **CEMENT CONCRETE:**
   1. Thecontractorshallcarryoutallpreliminaryteststoworkoutgradingandproportioning of aggregates in order to obtain and maintain uniform quality of work. The contractor shall supply allmaterials,labourandtestingcostforpreparing andtestingsamplesasrequiredby theEngineer.Unlessotherwisespecifiedinthedetaileditem-wisespecifications,3cubes150mm. x 150 mm. x 150mm.will be tested for every 15 cubic meter of concrete or per day whichever is higher.

The contractor shall make field arrangements for slump test, density and bulkage testing andalsoprepareconcretecubes150mm.x150mm.x150mm.fortesting compressivestrength, athiscost.Thecubesshallbegottestedatapprovedlaboratory andthetestresultsshallnot fall below those prescribed in P.W.D. Hand Book (Table CV P.412) or as laid down in the specifications. The cost of such cubesand tests shall be entirely borne by the contractor.

* 1. All concrete shall be machine mixed, unless otherwise directed by the Engineer - in –charge, for controlled or high grade concrete, the grading of aggregate shall be got approved from the Engineer. The correct proportions and the total amount of water for the mix will be determined by means of preliminary tests and shall be got approved by the Engineer - in – charge,however,suchapprovaldoesnotrelieve the contractor from his responsibility regarding the minimum works strength requirements. Work test shall be taken in accordance with relevant codes and specifications.

Theproportioningofaggregateshallbedonebyweight,ifsoorderedby the Engineer.

* 1. Allmixingshallbedonebymechanicalmeansinapprovedmixers.TheEngineermayat his discretion, allow in writing hand mixing of concrete for minor items where in small quantities are involved but in that case the Contractor shall increase the cement content of the mixture by 10 % without any extra cost.
  2. The form work used shall be made invariably of steel / with lining of steel or with plywood lining,wooden shutters may be allowed at the discretion of the Engineer e.g. lintels , smallslabs and beams, copping etc.
  3. Theconcreteshallbemechanicallyvibratedforpropercompactionbythemethod approved by the Engineer.
  4. Theconcreteshallbecuredonly by asweet potablewater forfull21daysafter the time of its placement or as may be directed by Engineer-in-charge.
  5. **REINFORCED CONCRETE WORK:**

1. The work included in this contract shall be carried out in addition to this specification detailedherein,inaccordancewithspecificationsandregulationsaslaiddowninthe following standard specifications. Standard specifications published by NAFED 1985 Edition:

I.S.8112: -1989-Specificationfor43gradeordinary Portlandcement.

I.S.383:-1976-Specificationforcoarseandfineaggregatefromnaturalcoursesfor concrete.

I.S.1786:-1985-Specificationsforcoldtwistedbars.

I.S.432:-1982-Specificationsformildsteelandmediumsteelbars.

I.S.456:-2000-Codeofpracticeforplainandreinforcedconcrete,

**Note–1.-**43gradeordinaryPortlandcement(ConfirmingI.S.8112)shallbeusedforall RCC and other items where cement is used.

2 Steelforreinforcementshallbeprocuredonlyfromreputedcompanies.

IftheStandardspecificationsquotedabovefallshortfortheitemsquotedintheseschedules of this contract, reference shall be made to the latest British Standard Specifications. If any of the itemsof contractdo notfall in reference quoted above, the decision and specifications ofthe Engineer shall be final.

1. **ADDITIONAL GENERAL SPECIFICATION FOR ORDINARY AND HIGH GRADE CONCRETE.**
2. Iftheconcretestrengthfallsbelowthatspecifiedforthe itemsandiftheusecanbe permitted under clauses 303.3.7 of the I.R.C. Bridge Code Section - III given below, the unit may be accepted at the discretion of the NAFED concerned as a substandard work at a suitable reduced rate. Reduced rate will be determined by the NAFEDconcernedaccordingtocircumstancesofthecaseandtheconcernedNAFED’s approval to the reduced rate as mentioned above, is necessary.

“StandardSpecificationandcodeofPracticeforRoadBridges“SectionIIICementconcrete

303.3.7standardofacceptance.”

1. Full payment should be made when 75% of thetest cube results are equal and above specified strength. Cases failing outside the above limits shouldbe examined and decided by the Engineer - in - charge on merits on each case.

The test specimen should be taken by representative of the contractor in presence of a responsible officer of the rank of not lower than an Assistant Engineer / Deputy Engineer.

Thetestspecimenshouldbeformedcarefullyandnoclaimshallbeentertainedlateron, on the ground that the casting of the test specimen were faulty and that the results of the test specimen did not give correct indication of the actual quality of concrete.

The minimum quantity of cement per one Cubic metre of M -15 grade and above concrete shouldbe as per StandardSpecificationBook Specification B 7- 4 onpage 39 (1979 Edition).

Payment : (a)The payment of such concrete work will not be made till the strengths are ascertained.

(b) The payment of reinforcement of such affected items will not be made till the strengths of the concrete are ascertained.

vi) The centering to be used for execution of any concrete items shall be strictly in accordance with specifications for from work and steel Centering. No concretingshall be executedwithout prior approval to the centering from the Engineer-in-Charge.

1. **MISCELLANEOUS:**

Rate shall be inclusive of M-vat Tax, Turnover Tax, Octroi Duty, General Tax and other taxes etc. The rates are also inclusive of demolition. However, steel / scrap found in the demolition shall be property of NAFED. Contractor shall not use / sell this in any manner and deposit with NAFED Engineer in charge

**Income Tax: -**

1. The income tax @ 2.00 % and surcharge thereon or at the rates amended from time to time as intimated by competent Income Tax Authority shall be deducted from bill amount, whether measured bill, advance payment or secured advance.
2. For providing electric wiring or water lines etc. recesses shall be provided if necessary through walls,slabs, beams etc. and later on refilled up with bricks or stone chipping, cement mortar without any extra cost.
3. In case it becomes necessary for the due fulfillment of contract for the Contractor to occupy land outside the NAFED Authoritieslimits, the Contractor will have to make his own arrangementswith the land owners and to pay such rents if any are payable as mutually agreed between them.
4. The NAFED Authorities will afford the contractor all the reasonable assistance to enable him to obtain Government land for such purpose on usual terms and conditions as per rules of Government.
5. The special provision in detailed specifications or wording of any item shall gain precedence over corresponding contradictory provision (if any) in the standard specifications or P.W.D. Hand Book where reference to such specifications is given without reproducing details in contract. Decision of the NAFED Authorities shall be final in case of interpretation of specifications.
6. Suitable separating Barricades and enclosures as directed shall be provided to separate material brought by contractor. and material issued by Government to contractor under schedule ‘A’ same applies for the material obtained from difference sources of supply.
7. It is presumed that the contractor has gone carefully through the standard specifications ofP.W.D. Hand Books and M. O. S. T. specifications and the schedule of Rate of the Division and studied the site conditions before arriving at rates quoted by him.
8. The stacking and storage of construction material at site shall be in such a manner as to prevent deterioration or intrusion of foreign matter and to ensure the preservation of their quality, properties and fitness for the work. Suitable precautions shall be taken by the Contractor to protect the material against atmospheric actions, fire and other hazards. The materials likely to be carried away by wind shall be stored in suitable stores or with suitable barricades and where there is likely hood of subsidence of soil, such heavy materials shall be stored on paved platforms.
9. The contractor shall at his own expenses engage watchmen for guarding the materials and plant & machinery and the work during day and night against any pilferage or damage and also for prohibiting trespassers.
10. The Contractor shall be responsible for making good the damages done to the existing property during construction by his men.
11. If it is found necessary from safety point of view to test any part of the structure, the test shall be carried out by the Contractor with the help of the NAFED Authorities at his own cost.
12. The contractor shall provide,maintain, furnish and remove on completion, temporary shed for office on work site for the use of NAFED’s representative.
13. Defective work is liable to be rejected at any stage. The contractor on no account can refuse to rectify the defects merely on reasons that further work has been carried out. No extra payment shall be made for rectification.
14. In case in the Schedule ‘B’ the work has been divided into sections but notwithstanding this, every part of it shall be deemed supplementary to and complementary of every other part.
15. General directions or detailed description of work, materials and items coverage of rates given in the specification are not necessarily repeated in the Bill of Quantities / Item-wise specifications. Reference is, however, drawn to the appropriate section clause (s) of the General specifications in accordance with which the work is to be carried out.
16. In the absence of specific directions to the contrary, the rates and prices inserted in the items are to be considered as the full inclusive rate and prices for the finished work described thereunder and are to cover all labour, materials, wastage,demolition, temporary work, plant, overhead charges and profits, as well as the general liabilities, obligations and risks arising out of the General Conditions of contract. The rates are also inclusive of demolition. However, steel / scrap found in the demolition shall be property of NAFED. Contractor shall not use / sell this in any manner and deposit with NAFED Engineer in charge
17. The quantities set down against the item in the Schedule ‘B’ are only estimated quantities of each kind of work included in the Contract and are not to be taken as a guarantee that the quantities scheduled will be carried out or required or that they will not be exceeded.
18. All measurements will be made in accordance with the methods indicated in the specification and read in the conjunction with the General Conditions of Contract.
19. The details shown on drawings and all other information pertaining to the work shall be treated as indicative and provisional only and are liable to variation as found necessary while preparing working drawing which will be supplied by the Government during execution. The Contractor shall not, on account of such variation be entitled to any increase over the ones quoted in the tender which are on quantity basis.
20. The recoveries if any from contractor will be effected as arrears of land revenue through the Collector of the District.
21. PROTECTION OF UNDERGROUND TELEPHONE CABLE AND AERIAL TELEPHONE WIRES AND POLES, TRANSMISSION TOWERS, ELECTRICAL CABLES, AND WATER SUPPLYING LINES.

Duringtheexecutionofwork,itislikely thatthecontractormay meetwithtelephonecable, electricalcables,watersupplylinesetc.Itwillthereforebetheresponsibilityofthecontractorto protect them carefully All such cases should be brought to the notice of the Engineer - in - chargebythecontractorandalsotheconcernedNAFED Authorities.Anydamageswhatsoeverdone to these cables and pipelines by the contractor shall be made good by him at his cost.

1. **MEDICAL AND SANITARY ARRANGEMENTS TO BE PROVIDED FOR LABOUR EMPLOYED IN THE CONSTRUCTION BY THE CONTRACTOR:**
2. Thecontractorshallprovideanadequatesupplyofpotablewaterforuseof labourers on work and in Camps.
3. The contractor shallconstructtrench or semi-permanent latrines for the use of theLaborers. Separate latrines shall be provided for men and women.
4. Thecontractorshallbuildsufficientnumberofhutsonasuitableplotoflandfor use of the Labors according to the following specifications.
   1. HutsofBamboo’sandGrassmaybeconstructed.
   2. A good site not liable to submergence shall be selected on high ground remote from jungle but well provided with trees, shall bechosen wherever it is available. The neighborhood of tank, jungle, grass or weeds should be particularly avoided, camps should not be established close to large cutting of earth work.
   3. The lines of huts shall have been open spaces of at least ten meters between rows. When a good natural site cannot be procured, particular attention should be given to the drainage.
   4. There should be no overcrowding. Floor space at the rate of 2.78 sq. m. perhead shall be provided. Care should be taken to see that the huts are kept clean and in good order.
   5. The Contractor must find his own land and if he wants Government land, he should apply for it and pay assessment for it, if made available by Government
   6. The contractor shall construct a sufficient number of bathing places, washing places should also be provided for the purpose of washing clothes.
   7. Thecontractor shall make sufficient arrangements for drainingaway thesurface and sullage water as well as water from the bathing and washing places and shall dispose off this waste water in such a way as not to cause any nuisance.
5. The contractor shall engage a Medical Officer with a travelling dispensary for a Camp contains500ormorepersonsifthereisnoGovernmentorotherprivatedispensary situated within 8 Kilometers from the Camp. In case of emergency the contractor shall arrange at his cost for transport for quick medical help to his sick worker.
6. The contractor shall provide the necessary staff for effacing a satisfactory drainage system and cleanliness of the camp to the satisfaction of Engineer. At least one sweeper per 200 persons should be engaged.
7. The Assistant Director of Public Health shall be consultedbefore opening a labour campand his instruction on matters such as water supply, sanitary conveniences, the camp site accommodation and food supply shall be followed by the Contractor.
8. The contractor shallmake arrangements for all anti-malaria measures to be provided forthelabouremployedonthework.Theanti-malariameasureshallbeprovidedasdirected by the Assistant Director of Public Health.
9. Whereworkersarerequired to work near machine and are liable to meet with accidents they should not be allowed to wear loose cloth like Dhoti,Jhabba etc.
10. **SAFETY MEASURES AND AMENITIES:**

Thecontractorshalltakeall-necessaryprecautionsforthesafetyoftheworkersand preservingtheirhealthwhileworkinginsuchjobasrequirespecialprotectionand precautions. The following are some of the requirements listed, though not exhaustive. The contractorshallalsocomplywiththedirectionsissuedbytheEngineerinthisbehalffrom time to time and at all times.

1. Providingprotectivefoot-weartoworkers,insituationslikemixingandplacingof mortar or concrete in quarries and places where the work is done under too much of wet conditions as also for movements over surfaces infected with oyster growth etc.
2. Providingprotectiveheadgeartoworkers,workinginquarriesetc.toprotectthem against accidental fall of materials from above.
3. Taking such normal precautions like providing hand rails at the edges of the floating platformofbarges,notallowingnailsormetalparts oruselesstimbertospreadaround etc.
4. Supporting workmen with proper belts, ropes etc. when working on any masts, cranes,crips, hoist, dredgers etc.
5. Taking necessary steps towards training the workers concerned on the use of machinery before, they are allowed to handle it independently and taking all necessary precautions in and around the areas where machines, hoists, and similar units are working.
6. Providingadequatenumberofboats(ifatallrequiredforplyinginwater)toprevent overloading and over – crowding.
7. Providinglifebeltstoallmenworkingatsuchsituations,fromwheretheymay accidentally fall into the water, equipping the boats with adequate number of life beltsetc.
8. Avoidingbarelive-wiresetc.aswouldelectrocute workers.
9. Makingallplatforms,staging andtemporary structuressufficiently strong soasnotto cause inconvenience and risk to the workmen and supervisory staff.
10. Providing sufficient first aid trained staff and equipment to be available quickly at thework site to render immediate first aid treatment in case of accidents due to suffocation’s, drawing and other injuries.
11. Takeallnecessaryprecautionswithregardtousof divers.
12. Providing full length gum boots, leather hand gloves leather Jackets with fire proof aprontocoverthechestandbackreachinguptokneesandprotectivegogglesfortheeyesto thelabourersworkingwithhotasphalthandlingvibratorincementconcreteandalso where use of any or all these items is beneficial in the interest of health and wellbeing ofthe laborers in the opinion of the Engineer.
13. Suitablescaffoldsshallbeprovidedforworkmenforallworksthatcannotsafelybe done from the ground or from solid construction except such short period work as can be done safely from ladders. When ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for caring the materials as well as suitable foot holds and hand holds shall be provided on the ladder and ladder shall be given aninclination not steeper than 1: 4 (1 horizontal and 4 vertical).
14. Scaffolding or staging more than 3.25 metres above the ground or floors, swing or suspendedfromanoverheadsupportorerectedwithstationerysupportsshallhavea guardrailproperlyattached,bolted,bracedandotherwiseassuredatleastonemetrehigh
15. above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
16. Working platform, gangways and stairways shall be so constructed that they do not sag unduly or are more than 3.25 metres above ground level or floor level. It shall be closely boarded, have adequate width and be suitably fenced as described in 14 above.
17. Every opening in floor of the building or in a working platform shall be provided with suitable protection to prevent fall of person or materials by providing suitable fencing or railing with minimum height of 1 metre.
18. Safemeansofaccessshallbeprovidedtoallworkingplatformsandotherworking places. Every ladder shall be securely fixed. No portable single ladder shall be over 9metres in length, width between side rails in hung ladder shall in no case may be less than 30 cms. for ladders upto and including 3 metres in length. For longer ladders, this widthshallbeincreasedatleast6mm.foreachadditional30cms. of length. Uniformstep spacing shall not exceed 30 cms.
19. Adequateprecautions shall be taken to prevent danger from electrical equipment. No materialsonanyofthesitesshallbestackedorplacedastocausedangeror inconvenience to any person or the public.The contractor shall provide all necessary fencing and light to protect public from accident and proceedings of law that may be broughtbyanypersonforinjurysustainedowingtoneglectoftheaboveprecautionand to pay any damages and costs which may be awarded in any such suit action orproceedingstoany suchpersonorwhichmay withtheconsentofthecontractor,tobe paid to compromise any claim by any such person.
20. Allnecessary personal safety equipment as considered adequate by the Engineer - in - charge shall be available for use of persons employed on the site and maintained in a conditionsuitableforimmediateuseandthecontractorshalltakeadequatestepsto ensure proper use of equipment by those concerned.
    1. Workers employed on mixing asphaltic materials, cement or lime mortars concrete shall be provided with protective footwear and protective goggles.
    2. Those engaged in handling any materials, which is injurious to eyes shall be provided with protective goggles.
    3. Those engaged in welding works shall be provided with welder’s protective eye shields.
    4. Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
    5. When workers are employed in sewers and manholes which are in use, the contractor shall ensure that manhole covers are opened and manholes are ventilated at least for an hour before workers are allowed to get into them. Manholes opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to public.
    6. the contractor shall not employ, men below the age of 18 years and the women on the work of painting with products containing lead in any from . Wherever men above the age of 18 years are employed on the work of lead painting, the following precautions shall be taken.
       1. No paint containing lead or lead product shall be used except in the form of paste or readymade paint.
       2. Suitable face masks shall be supplied for use by workers when paint is applied in the form of spray or surface having lead paint, dry rubbed and scrapped.
       3. Overalls shall be supplied by the contractor to workmen and adequate facilities shall be provided to enable working painters to have wash during and on cessation of work.
    7. When work is done near any place where there is risk of drowning all necessary equipment shall be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

Use of hoisting machines and shackle including their attachments, anchorage, supports shall confirm to the following:

1. **I)** These shall be of good mechanical construction, round materials and adequate strength and free from patent defects and shall be kept in good working order.

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

1. Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in-charge of any hoisting machine including any scaffolding.
2. In case of every hoisting machine and of every chain, ring, hook, shackle and pulley block used in hoisting or lowering or means of suspension, safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be clearly marked with safe working load.

In case of a hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.

1. In case of NAFED Authorities machines safe working load shall be notified by the Engineer-in-charge. As regards contractor’s machines, contractor shall notify safe working load of each machine to the Engineer-in-charge whenever, he brings it to site of work and get it verified by the Engineer – in-charge.

Motors, gearing transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with such means as will reduce the minimum risk to the accidental descent of load. Adequate precautions shall be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced, when workers are employed. On electrical installations which are already energised insulating wearing materials approved such as gloves, sleeves and coats as may be necessary, shall be provided. Workers shall not wear any rings, watches and carry keys and other materials which are good conductor of electricity.

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

1. These safety provisions shall be bought to the notice of all concerned by display on a notice board at a prominent place at the work spot. Persons responsible for ensuring compliance with the safety code shall be named therein by the contractor.
2. To ensure the effective enforcement of the rules and regulations relating to safety precautions, arrangements made by the contractor shall be open to inspection by the Engineer - in - charge or his representative and the inspecting officers.
3. Failure to comply with the provisions here under shall make the contractor liable to pay to the NAFED Authorities as penalty an amount not exceeding Rs.50/- for each default and decision of the Engineer - in - charge shall be final and binding.
4. Notwithstanding the above conditions the contractor is not exempted from the operation of any other Act or rules in force.
5. **EXCAVATION AND TRENCHING:**

Alltrenches,1.5metresormoreindepth,shallatalltimesbesuppliedwithatleastone ladderfor each30metresinlengthorfractionthereof.Laddershallbeextendedfrombottom of trench to at least 1 metre above surface of the ground, side of trench which is 1.5 metre or more indepthshallbe steppedback togive suitable slope, or security held by timber bracing, soastoavoidthedangerofsidecollapsing.Excavatedmaterialsshallnotbeplacedwithin1.3metresofedgeoftrenchorhalfofdepthoftrenchwhicheverismore.Cuttingshallbe done fromtoptobottom. Under nocircumstances shallundermining or undercutting be done.

1. **DEMOLITION:**

Beforeanydemolitionworkiscommencedandalsoduringtheprocessofthework:

1. All roads and open areas adjacent to the work site shall either be closed or suitably protected.
2. No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by operator shall remainelectrically charged.
3. Allpracticalsteps,shallbetakentopreventdangertopersonsemployed,fromriskorfire or explosion or hooding . No floor, roof or other part of a building shall be so overloaded with debris of materials as to render it unsafe.
4. **SCOPE OF RATES FOR DIFFERENT ITEMS OF WORKS: -**

For itemratecontract,thecontractunit ratesfor deferent itemsofwork shall be paid in full forcompletingtheworktotherequirementsofspecificationincluding fullcompensationfor all the operation detailed in the relevant sections of these specification under “Rates.” In the absence of any direction to the contrary, the rates are to be considered as the full inclusive rate for finished work covering all labours, material wastage, demolition, temporary work, plant, equipment.overhead charges and profit as well as the general liabilities, obligations and risks arising outof the General Conditions of Contract. The rates are also inclusive of demolition. However, steel / scrap found in the demolition shall be property of NAFED. Contractor shall not use / sell this in any manner and deposit with NAFED Engineer in chargeThe item rates quoted by the contractor shall, unless otherwise specified, also include compliance with supply of the following: -

1. Generalworkssuchassettingoutclearanceofsitebeforesettingoutandclearanceof works after completion.
2. A detailed programme for the construction and completion of the works (using CPM / PERT techniques)giving,inadditiontotheconstructionactivities,detailednetwork activities for the submission and approval of materials, procurement of critical materials and equipment,fabricationofspecialproducts/equipment,andtheirinstallationandtestingand for all activities of the employer that are likely to effect the progress of work, etc. including updating of all such activities on the basis of the decisions taken at the periodic site review meeting or as directed by the Engineers.
3. Samples of various material proposed to be used on the work for conducting tests thereon required as per the provisions of the contract.
4. Design of mixes as per the relevant clauses of the Specifications giving proportions of ingredients,sourcesofaggregatesandbinder alongwithaccompanying trialmixesasper the relevant clauses of these specifications to be submitted to the Engineer for his approval before use of in the works.
5. Detailed design calculations and drawing for all Temporary works (such as formwork, staging, centering, specialised constructional handling and launching equipment and the like);
6. Detailed drawing for templets, support and end anchorage, details for pre-stressing, cable, profiles, bars bending and cutting schedules for reinforcement, material lists for fabrication and structural steel etc.
7. Mill test reports for all mild and high tensile steel and cast steel as per the relevantprovision of the specifications;
8. Testing of various finished items and materials including bitumen, cement, concrete, bearing as required under these specifications and furnishing test reports/certificates;
9. InspectionReports in respect of form work, staging reinforcement and other items of workas the relevant specification:
10. Anyotherdatawhichmayberequiredasperthesespecificationsortheconditionsof contract or any other annexures /schedules forming part of the contract.
11. Anyotheritemofworkwhichisnotspecificallyprovidedinthebillofquantitiesbut which is necessary for complying with provisions of the contract and
12. Alltemporary worksandfalse work.
13. Portion of road works beyond the limits and or any other work may be got constructed by the Employer directly through other agencies. Accordingly, other agencies employed by the employer may be working in the vicinity of the work being executed by the contractor. The contractor shall liaise with such agencies and adjust his construction programme for the completion of work accordingly and no claim or compensation due to any reason what so ever willbeentertainedonthisaccount.Theemployerwillbeindemnifiedbythecontractorfor any claims from other agencies on this account.
14. AllprevailingtaxesleviedbyGovernmentandasamendedfromtimeto time.
15. **PAYMENTS:**

The contractor must understand clearly thatthe ratesquoted are for completed work andinclude all costs due to labour, scaffolding plant, machinery, supervision, power, royalties,octroi taxes etc. and should also include all expenses to cover the cost of night work if andwhen required and no claim for additional payment beyond the prices or rates quoted will be entertained.

Themodeofmeasurementshasbeenindicatedinthespecification,ifthereisanyambiguity or doubt in this respect, the decision of NAFED will be final.

###### RUNNINGBILLS: -

Two payments in a month will be granted by the Engineer-in-charge if the progress is satisfactory. Contractor should submit bills to the Engineer-in-charge in appropriate forms.

###### Final Bill: -

The contractor should submit final bill within one month after completion of the work and the bill will be paid within 30-45 days of certification of bill. Disputed item and claims if any shall be excluded from the final bill and settled separately latter on.

1. **CLAIMS: -**

Billsforapproved extraworkorforanyclaimshallbepaidseparatelyapartfromtheinterimbillsfor the main work. The payment of bills for the main work shall not be withheld for want of decision on the extras or claims not covered in the appendices.

Claimsforextraworkshallberegisteredwithin30daysofoccurrencesoftheevent. However, bills for these claims including supporting data / details may be submitted subsequently.

1. **PRIORITIES OF WORKS TO BE EXECUTED: -**

Priorities for items to be executed shall be determined periodically keeping in view the finaltimelimitallowedfortheworkandallthetimeschedulefixedforintermediatestagesof work.

1. **WAGES ACT:**

The contractor shall comply with the provisions of payment of wages Act 1936, Minimum Wages Act 1948, Employee’s Liability Act 1937, Workmen’s Compensation Act 1923, Industrial Dispute Act 1947, Maternity Benefit Act. 1961, Contractor Labour ( R & A ) Act 1970migrantworkmen(RegulationofEmploymentandconditionsofservice)Act1979, or modifications thereof or any other law relating thereto and rules made there under fromtime to time by the Government

1. **DISPUTE AND ARBITRATION:**

NoArbitrationisallowed.

1. **ELECTRIC POWER:**

ArrangementforobtainingElectricPowerconnectionwillhavetobemadeby thecontractor at his own cost.

1. **PRELIMINARY ARRANGEMENTS:**

The contractor shall have to make at his own cost all preliminary arrangements for labour,water, electricity and materials etc. immediately after getting the work order. No claim for any extra payment or application for extension of time on the grounds of any difficulty inconnection with the above matter will be entertained.

The contractor shall athisownexpenses,engage watchmen for guarding the materials and plantandmachineryandtheworkduringdayandnightagainstanypilferage,damagesandalso for prohibiting trespassers or damage to them. The contractor shall have to make his own arrangements for water required for any purposes on the work.

Thecontractoraftercompletionofwokshallhavetocleanthesiteofalldebrisandremove all unused materials other than those supplied by the NAFED Authorities and all plant and machinery, equipment, tools etc. belonging to him within one month from the date of completion of the work,orotherwisethesameshallberemovedbytheNAFED Authoritiesathiscostandthe contractor shall not be entitle for payment of any compensation for the same.

1. **ACCIDENT:**

In the event of an accident involving serious injuries or damages to human life or death of anyofhisemployeesandorlabourersortrespassers,thesameshallbereportedwithin24hours of the occurrence to the NAFEDand the Commissioner of Workmen’s Compensation.

1. **PLANT:**

Allconstructionalplant,providedby thecontractorshall when broughton the site be deemed tobeexclusivelyintendedfortheconstructionofthisworkandthecontractorshallnot removethesameorany partthereof (Savefor the purposeofmoving itfromthepart ofthe site to another or for repairs etc. ) Without the consent in writing of the Engineer - in - charge which shall not be unreasonably with-held.

1. **PUBLIC UTILITIES:**

In addition to clause 110 of M.O.S.T. ( R. W. ) Specifications for Road and Bridge works (Second Revision ) 1988 following should be added para 110.6.

Public Utility service like HT Lines telephone lines, etc. which are visible at site should betaken notice of by the contractors while planning their works. It shall be the contractor’s responsibility to inspect such services prior to the commencement of any work.

While executing the works, the contractors should take care to see that these services are not disturbed or damaged duringthe execution.

The Government will not be held liable or responsible for any delay in completion of the job under this contract which may occur due to any damage occurred to such services in consequenceofthecontractor’soperationsofdelayedcompletionoftheexecutionofthe same.

1. **DRAWINGS:**
2. ContractDrawings:

Thecontractdrawingsprovidedfortenderingpurposewiththetenderdocumentsshallbe used as a reference only. Contractor should visualize the nature of type of work contemplated and to ensure that the rates and prices quoted by him in the bill of quantities take due consideration of the complexities of work involved during actual execution / construction as experienced contractor in the field.

The tendered rates / prices for the work shall be deemed to include the cost of preparation, supply and delivery of all necessary drawings, prints, tracings and negatives which the contractor is required to provide in accordance with the contract.

1. Completion Drawings:

The contractor shall submit to the Engineer within 2 (two) months of actual completion “Completiondrawings “as specified below and operation and maintain instructions for the whole of the work.

Thesedrawingsshallbeaccurateandcorrectinallrespectandshallbeshowntoand approved by the Engineer earlier. For “Completion drawings”2 (two) prints and two CDs of quality approved by the Engineer or his representative shall be supplied.

1. **HANDING OVER OF WORK:**

Alltheworkandmaterialsbeforefinallyoverbygovernment.willbetheentireliabilityof the contractor for guarding, maintaining and making good any damages of any magnitude. Interim payments made for such work will not alter this position. The handing over by the contractor and taking over by the NAFEDor his authorised representative will be always in writing, copies of which will go to the NAFEDor his authoeised representativeandthecontractor.Itis,however,understoodthatbeforetakingoversuch work, Government will not put it into regular use as distinct from casual or incidental one, except as specifically mentioned elsewhere in this contract or as mutually agreed to.

1. **RELATION WITH PUBLIC AUTHORITIES:**

The contractor shall comply with all rules, regulations. byelaws AND directions given from timetotime.by any localorpublicauthority inconnectionwiththisworkandshallhimself pay fees or charges which are livable on him without extra cost it the NAFED Authorities.

1. **DOCUMENTATION:**

If so ordered by the NAFED Authorities, the contractor will prepare drawings of the work as constructedandwillsupply original andthree copies tothe Engineer who will verify and certify these, drawings Final as contracted drawing shall then be prepare by the contractor and supplied in triplicate to the Engineer for record and reference purposes at the contractor’scost

1. **CLAUSES IN THE CONDITIONS OF CONTRACT:**
2. All materials and workmanship shall be of the respective type described in the contract andin accordance with the Engineer’s instructions and shall be subjected from time to time such tests as the Engineer may direct at the place of manufacture and fabrication, or on the site. All samples shall be supplied by the contractor.
3. NoworkistobecovereduporputoutofviewwithouttheapprovaloftheEngineerfor his examination and measurements.
4. During the progress of the works, the Engineer, shall have the power to order, the removal from the site any unsuitable material, substitution of proper and suitable material and the removalandproperre-erectionnotwithstandingany previoustestorinterimpayment, therefor,andofany workwhichinrespectofmaterialsorworkmanship isnot,in the opinion of the Engineer in accordance with the contract.
5. **INSPECTION OF OPERATIONS:**

TheEngineerandanypersonauthorisedbyhimshallatalltimeshaveaccesstotheworks and to all workshops and places. (including required documents) where work is beingprepared or from where materials, manufactured articles or machinery are being obtained forthe works and the contractor shall afford every facility for and every assistance in or obtaining the right to such access.

1. **WATER SUPPLY:**

Availability of adequate water for works and sources thereof shall confirmed by the contractor before submitting the tender.

The contractor shall make his own arrangement at his own cost for entering into contact with concerned authorities for obtaining the connection and carry the water upto the work site as required by him. The location of the pipe line with respect to the road shall be decided by Engineer – in – charge and shall be binding on the contractor.

The contractor is advised to provide water storage tanks of adequate capacity to take care of possible shut down of water supply system.

The contractor shall have to supply water required by the NAFED Authorities for its establishment at work site. The water consumed by the NAFED Authorities will be metered For providing the meter permissionifnecessary will be arranged by the NAFED Authoritiescharges for the water consumed bytheNAFED Authoritieswillbepaidtothecontractorattheratesof125%oftherecurringcosts or actually charged to him by concerned authorities and no other charges would be payable by the NAFED Authorities.

1. **COMPLETION CERTIFICATE:**
2. Theworkshallnotbeconsideredtohavebeencompletedinaccordancewiththe terms of the contract until the Engineer-in-charge shall have certified in writing to that effect. No approval of material or workmanship or approval of part of work during the progress of execution shall bind the Engineer – in charge or in any way prevent him fromevenrejectingtheworkwhichisclaimedtobecompleteandtosuspendthe issue of his certificate of completion until such alteration and modifications or reconstruction have been effected at the cost of the contractor as shall enable him to certify that the work has been completed to this satisfaction.
3. After the workis completed the contractor shall give notice of such completion to the Engineer – In- Charge and within 30 days of receipt of such a notice the Engineer – in – charge shall inspect the work and if there is no defect in the work shall furnish the contractor with a certificate indicating the date of completion. However, if there are any defects which in the opinion of the NAFED Authorities are rectifiable he shall inform the contractor the defects notice. The contractor after rectification of such defects shall than informtheEngineer –in–ChargeandEngineer –In–Chargeonhispartshallinspect the work and issue the necessary completion certificate within 30 days if the defects are rectifiedtohissatisfaction,andifnot,heshallinformthecontractorindicatingdefects yet to be rectified.The time cycle as above, shall continue.
4. In case defects notice by the Engineer – in – Chargewhich in this opinion are not rectifiable but otherwise work is acceptable at reduced payment, work shall be treated as completed. In such cases completion certificate shall be issued by the Engineer – in – Chargewithin30daysindicatingtheun-rectifiabledefectsforwhichreductionin payment is being by him.
5. The issue of completion certificate shall not be linked up with the site clearance on completion of the work.
6. Should regular public traffic be allowed on the bridge at any stage prior to it’s being takenover, then the maintenance period shall be deemed to commence form the date ofsuch traffic passing over the bridge & shall be upto 30 days after the date of issue of completion certificate, by Engineer – In – Charge but not more than 12 months after opening to traffic.
7. **ANCILLARY WORK:**

The contractor shall submit to Engineer – In – Charge in writing the details of all ancillary works including layout and specification to be followed for its construction. Ancillary workshallnottobetakenupinhandunlessapprovedbyEngineer–InCharge.TheEngineer–In– Charge reserves the right to suggest modifications or make complete changes in the layoutand specification proposed by the contractor at any stage to ensure the safety on the work site. Thecontractorshallcarryoutallsuchmodificationstotheancillaryworksathisown expenses as ordered by Engineer- In – Charge.

1. **REJECTION OF MATERIALS NOT CONFORMING TO SPECIFICATION:**

Anystockorbatchofmaterial(s)ofwhichSample(s)doesnotconformtotheprescribedtestand quality,shallberejectedbytheEngineer-In-Chargeorhisrepresentativeandsuchmaterialsshall beremovedfromsitebythecontractorathisowncost.Suchrejectedmaterialsshallnotbemade acceptable by any modifications.

Materialsnotcorrespondingincharacterandqualitywithapprovedsamplewillberejectedbythe Engineerorhisrepresentativeandshallberemovedfromsiteatthecontractor’sowncost.

1. **SUPPLY OF COLOURED RECORD PHOTOGRAPHS AND ALBUMS.**

Thecontractorshallarrangetotakedatedpostcardsizecolouredphotographsattherateof 10photographsper100Squaremeterofbuildingkilometeratvariousstages/factsofthe workincludinginterestingandnovelfeaturesoftheworkasdesiredbytheEngineer-in- charge and supply them in five copies each in separate albums of appropriate size. While submitting every Running account bill for payment of his work done.

He shall also arrange for the video Filming of important activities of the work duringthe currency of the contract and edit it to a video film of 60 to 180 minutes playing time.

Itshallcontain narration of the various activities in English/ Marathi by a competent narrator. The cassette shall be of acceptable quality and the film shall be capable of producing colourpictures.Thisshallbeconsideredasincidentaltotheworkandnoadditional paymentwhatsoeverwillbemadeforthe same.

LISTofAPPARATUS

|  |  |  |
| --- | --- | --- |
| **Nos.** |  | **Nos.**  **(Minimumrequired)** |
| **1.** | CubeMould | 24Nos |
| **2.** | Slumpconewithrod | 2Nos. |
| **3.** | Measuringcylinder(Glass)(1000ml) | 4Nos. |
| **4.** | Compressiontestingmachinehandoperated(150MT.Capacity) | 1No. |
| **5.** | Electronicweighingmachine3Kilogame(L.C.1Gm) | 1No. |
| **6.** | ISSieveset | 1No. |
| **7.** | Flaninesstestgauge | 1No. |
| **8.** | Vemiercaliper | 1.No. |
| **9.** | Dumpy levelwithstandandstaff | 1No. |
| **10.** | Theodolite | 1No. |
| **11** | EquipmentforDeterminationofmoisturecorseted | 1No. |
| **12** | Mason’sKit | 5Nos. |
| **13** | Oven | 1No. |
| **14** | Furniture | Asrequired |

1. **INCASEOFCEMENTCONCRETE WORKS:**

Besides manufacture’s test certificate for quality of cement, at least one set of physical and chemicaltestsshouldbe conducted foreachsource ofsupply forverification.Where the quality is in doubt, or where the cement had been store for long periods or in improper condition, the Engineer shall call for testing the cement at more frequent intervals.

Jobmixformulabasedontrialscarriedoutinthecontractor’slaboratory shouldbegot approved by the Engineer.

The mineralaggregates should be tested for their properties. Water to be used for mixingshould be tested for chemical impurities.

Checkingforstabilityandsturdinessofformwork.

Ensuringthatthecrucialequipmentlikemixersandvibratorsareinworkingorderbefore startofwork.Controlonwatercementratio.Controlonworkabilityandtimeelapsed between mixing and placing of concrete. Control on compaction and finishing.

Testsoncubesamplesat7and28days.Checkonprovisionsforadequatecurring.

Incaseofmasonrywork,controlshouldbeexercisedonthequalityofthematerial(e.g. stone, brick, & cement etc.) as also on mortar proportions.

ForR.C.C.work,qualityofsteelineachbatchmaybeapprovedonthebasisoftestcertificate.The reinforcementlayoutshouldbecheckedforconformitywithapproveddrawingsandbarbending schedules. All laps should be checked for conformity with the specification. The reinforcement shouldbefreefromoilandlooserustscaleandshouldbeproperlyliedwithbindingwire.

1. **CONTRACTOR’S FACILITIES:-**

**According to the contract, the contractor is responsible for the quality of the entire construction work. To meet this requirement:**

* 1. The contractor shall setup his own laboratory at location(s) approved by the Engineer. The laboratoryshallbeequippedwithmodernandefficientequipmentwithsufficientstandbyes, suitable to carry out the test prescribed for different materials and work according to the specifications. The list of equipment to be procured and facilities to beprovided shall begot approved bytheEngineer.Theequipmentshall bemaintained inaworkableconditiontothe satisfaction of the Engineer.
  2. Samplingand testing procedures shall be in accordance with the relevant standards of BIS (previouslycalledISI)IRC.FrequencyoftestingshallbeaslaiddownintheIntheabsenceof relevant Indian Standards, sampling and testing procedures shall be as approved by the Engineer.
  3. Thelaboratory should be manned by a qualified Materials Engineer assisted by Materials Inspector / Technicians, and the set-up should be got approved by the Engineer. The Requirement shall be calibrated before installation at site laboratory and as and when required.
  4. The Contractor should prepare printed Proforma for recordingreading and results ofeachof test, after getting the formats of the performance approved from the engineer. He should keep a dailyrecordofallthetestsconductedhim.Twocopiesofthetestresultsshouldbesubmitted to the Engineer for his examination and approval of which one copy will be returned to the contractor for being kept at site of work.
  5. TheMaterialsEngineeroftheContractorshouldkeepclose liaisonwiththeQuality Control Unit of the Engineer and keep the latter informed of the sampling and testing program so that the Engineer’s representative could be present during this activity, if considered necessary.
  6. The tentative list of equipment is as below, if any additional equipments are required, the tenderer shall produce the same within a week

1. **DAY TO DAY QUALITY OPREATIONS:**

The day-to-day controls to be executed by the contractor and the Engineer areenumerated in below

* 1. In case of cement concrete works:
     1. Besidesmanufacture’stestcertificateforqualityofcement,atleastonesetofphysicaland chemical tests should beconducted for each source of supplyfor verification. Wherethe quality is in doubt, or where the cement had been store for long periods or in improper condition,theEngineershallcallfortestingthecementatmorefrequentintervals.
     2. Job mix formula based on trials carried out in the contractor’s laboratory should be got approved by the Engineer.
     3. The mineral aggregates should be tested for their properties. Water to be used formixing should be tested for chemical impurities.
     4. Checkingforstabilityandsturdinessofformwork.
     5. Ensuringthatthecrucialequipmentlikemixersandvibratorsareinworkingorder before start of work.
     6. Controlonwatercementratio.
     7. Controlonworkabilityandtimeelapsedbetweenmixingandplacingofconcrete.
     8. Controloncompactionandfinishing.
     9. Testsoncubesamplesat7and28days.
     10. Checkonprovisionsforadequatecuring.
  2. In case of masonry work, control should be exercised on the quality of the material (e. g. stone, brick, and, cement etc.) as also on mortar proportions.
  3. For R. C. C. work, quality of steel in each batch may be approved on the basis of test certificate. The reinforcement layout should be checked for conformity with approved drawings and bar bending schedules. All laps should be checked for conformity with the specification. The reinforcement should be free from oil and loose rust scale and should be properly lied with binding wire.

1. **ADDITIONAL GENERAL CONDITION ABOUT INSURANCE: -**

Contractorshall take out necessaryinsurance Policy/ Policies (viz. Contractors All Risks Insurance Policy, Erection All Risks insurance policy etc. as decided by the Director of Insurance) soastoprovideadequateinsurancecoverforexecutionoftheawardedcontract work for total contract value and complete contract period compulsorily form the “Directorate of Insurance, Maharashtra State, Mumbai’’ only. Its postal address for correspondence is “264 MHADA, First Floor. Opp. Kalanagar, Bandara (E) Mumbai – 400051’’TelephoneNos.26590403/26590690andFaxNos.26592461/26590403similarlyallworkmen’s appointedtocompletethecontractworkarerequiredtoinsureunder workmen’s compensation Insurance Policy,Insurance Policy/ Policies takenoutfromany other company will not be accepted. **If any contractor has effected insurance with any Insurance Company, the same will not be accepted** and the amount of premium calculated bythe GovernmentInsuranceFund,MaharashtraState.TheDirectorofInsurance reservestherighttodistributetherisksofinsuranceamongtheotherinsurances.

1. **BUILDING & OTHER CONSTRUCTION WORKERS WELFARE CESS**

Building & other construction workerswelfare cess@1 %or atthe ratesamended from time to time as intimated by the competent authority of Building and other ConstructionWorkers’Welfare Act, 1996 shall be deducted from bill amount, whether measured bill, advance payment or secured advance.

1. Contractor should submit Royalty Clarence Certificate obtained from concerned Revenue Authority along with each bill. If the certificate from Revenue Authority is not submitted, amount of Royalty will be recovered from contractor’s bill in hand.
2. **ADDITIONAL CONDITION ABOUT AVAILABILITY OF FUNDS.**

The payment of bills will be madeas per the availability of funds. No claims will be entertained for delayed payments. Contractor shall not stop the works at any cost.

If situation arises, the work will be stopped at safe stage and will be withdrawn under clause – 15 for which no compensations will be allowed.

**Annexure"A"**

**Qualitycontroltests**

| **Sr.**  **No.** | **Material** | | **Test** | |
| --- | --- | --- | --- | --- |
| 01. | Masonry Stone | | 1. | Compressive Strength |
| 2. | Crushing Value |
| 02. | Metal | | 1. | Crushing value |
| 2. | Impact Value |
| 3. | Abrasion Value |
| 4. | Water Absorption |
| 03. | Bricks | | 1. | Crushing strength, |
| 2. | Water Absorption |
| 04. | Manglore Tiles | | 1. | Breaking load |
| 2. | Water Absorption |
| 05. | Flooring Tiles | | 1. | Flexural Strength |
| 2. | Water Absorption |
| 06. | Glazed Tiles | | 1. | Water Absorption |
| 07. | Cement | | 1. | Compressive Strength |
| 2. | Initial Setting time |
| 3. | Final Setting time |
| 4. | Specific gravity |
| 5. | Soundness |
| 6. | Fineness |
| 7. | Standard Consistency |
| 08. | Steel | | 1. | Weight per metre |
| 2. | Ultimate Tensile stress |
| 3. | Yield stress |
| 4. | Elongation |
| 09. | Granular | | 1. | Density of compacted layer |
|  | | 2. | C.B.R. |
| 10. | Lime / Cement stabilised soil sub base | | 1. | Quality of lime/Cement |
| 2. | Degree of pulverization |
| 3. | Lime / cement content |
| 4. | CDR or uncutined, composite test on a yet of 3 specimens |
| 5. | Density of compacted layer |
| 11. | Water Bound Macadam | | 1. | Aggregate impact Value |
| 2. | Flakiness index and Elongation Index |
| 12. | Wet Mix Macadam | | 1. | Impact Value |
| 2. | Flakiness and Elongation Index |
| 3. | Density of compacted of Liver |
| 13. | Prime coat / tack coat / Fog spray | | 1. | Quality of Binder |
| 14. | Seal Coat, Surface Dressing | | 1. | Quality of Binder |
| 2. | Impact value / Los Angles Abrasion value |
| 3. | Flakiness and Elongation Index |
| 4. | Water Absorption |
| 15. | Open graded premix of surfacing  / Close graded premix surfacing | | 1. | Quality of Binder |
| 2. | Impact value /Abrasion value |
| 3. | Flakiness and Elongation Index |
| 4. | Water absorption |
| 16. | | Bituminous Macadam | 1. | Quality of Binder |
| 2. | Impact value /Abrasion value |
| 3. | Flakiness and Elongation Index |
| 4. | Water absorption |
| 5. | Water sensitivity of Mix |
| 6. | Density of Compacted laver |
| 17. | | Bituminous Penetration Macadam, Built up spray grout | 1. | Quality of Binder |
| 2. | Impact value /Abrasion value |
| 3. | Flakiness and Elongation Index |
| 4. | Water absorption |
| 18. | | Dense Bituminous Macadam Semidense Bituminous Concrete  / Bituminous Concrete | 1. | Quality of Binder |
| 2. | Impact value /Abrasion value |
| 3. | Flakiness and Elongation Index |
| 4. | Water absorption |
| 5. | Stability of Mix |
| 6. | Density of compacted laver |
| 7. | Job Mix Design |
| 19. | | Mastic Asphalt | 1. | Quality of Binder |
| 2. | Impact value /Abrasion value |
| 3. | Flakiness and Elongation Index |
| 4. | Water absorption |
| 20. | | Slurry seal | 1. | Quality of binder |
| 21. | | Modified Binder | 1. | Softening point |
| 2. | Penetration at 25° C and 4° C. |
| 3. | Elastic Recovery |
| 4. | Ductility |
| 5. | Viscosity |
| 6. | Thin Film even test penetration, softening point, Elastic Recover}' of residue, loss on heating |
| 22. | | Thermoplastic paint | 1. | Glass beed contents and grading analysis |
| 2. | Reflectance and Yellowness index |
| 3. | Flow-ability |
| 4. | Drying Time |
| 23. | | Interlocking concrete paving block | 1. | Compressive strength |
| 2. | Flexural test |
| 3. | Resistance to wear |
| 24. | | Wood work (Shutters ) | 1. | End immersion test |
| 2. | Euite test |
| 3. | Glue adhesion test |
| 25. | | Cement Concrete | 1. | Mix Design |
| 26. | | Asphalt Concrete | 1. | design with all tests on basic materials |
| 27. | | Reinforcement steel bars | 1. | Tensile strength |
| 2. | % Elongation |

**Annexure"B"**

Qualitycontroltestsandtheirfrequencies

| **Sr.**  **No.** | **Material** | **Test** | | | | | | **Frequencyoftesting** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 01 | Sand | 1. | | Fitness Modules | | | | At the beginning and if there is change in source |  |
| 2. | | Silt Contents | | | |
| 02 | Masonry Stone | 1. | | Compressive Strength | | | | A set of 5 stone for each quarry and for doubtful  quality. |  |
| 2. | | Specific Gravity | | | |
| 3 | | Water absorption | | | |
| 03 | Metal | 1. | | Crushing value | | | | One test per 200 Cubic Metre or part thereof | NAFED Hand Book IS 56 Pan |
| 2. | | Impact Value | | | |
| 3. | | Abrasion Value | | | |
| 4. | | Water Absorption | | | |
| 5. | | Flakiness Index | | | |
| 6. | | Sulpping Value | | | |
| 7. | | Gradation | | | |
| 04 | Bricks | 1. | | Crushing strength | | | | A set of 15 Bricks for each 50,000 consignments or part thereof. | l.S. 1077 |
| 2. | | Water Absorption | | | |
| 05 | Mangalore  Tiles | 1. | | Breaking load | | | | A set of 6 tiles for each  50,00 tiles or part thereof | IS 654-1972 |
| 2. | | Water Absorption | | | |
| 06 | Flooring  Tiles | 1. | | Flexural Strength | | | | A set of 12 tiles for each  2000 tiles or part thereof | l.S. 1237-  1989 |
| 2. | | Water Absorption | | | |
| 07 | Glazed Tiles |  | | Water Absorption | | | | A set of 16 tiles of each 200 tiles or part thereof | IS -777 |
| 08 | Cement concrete | 1. | | Compressive Strength | | | | Upto 5 Cum - 1 Set | MOST  Specification 1716 |
| 6-15 Cum - 2 Sets |
| 16 - 30 Cum - 3 Sets |
| 31-50 Cum- 4 Sets |
| 51 and above - 4 Sets + 1 additional set for each additional 50 cum. or part thereof |
| 09 | Cement | 1. | | Compressive Strength | | | | One test for each consignment of 50 M.T.  (1000 bags) or part thereof | I.S.-269 12269 |
| 2. | | Initial Setting-time | | | |
| 3. | | Final Setting time | | | |
| 4. | | Specific gravity : | | | |
| 5. | | Soundness | | | |
| 6. | | Fineness | | | |
| 10 | Steel | 1. | | Weight per metre | | | | One test for every 5.0  Metric Tonne or part thereof for each diameter | l.S. -432 |
| 2. | | Ultimate Tensile stress | | | |
| 3. | | Yield stress | | | |
| 4. | | Elongation | | | |
| 11. | Granular Material | 1. | | Granular Material | | | | One lest per 200 Cum. | MOST  Specification Table 900-3. |
| 2. | | Aterberg limits | | | | One test per 200 Cum. |
| 3. | | Moisture content prior to compaction | | | | One test per 250 Cum. |
| 4. | | Density of compacted  layer | | | |
| 5. | | C.B.R. | | | |
| 12 | Lime / Cement stabilised soil sub base | 1. | | Quality of lime/Cement | | | | 1 test for each consignment Min 1 test per 5 Metric Tonne Periodically as considered necessary. Regularly through procedural cheeks. As required. | MOST  Specification Tablc-900-3 |
| 2. | | Degree of pulverization | | | |
| 3. | | Lime / cement content | | | |
| 4. | | CDR or uncutined,  composite test on a set of 3 specimens | | | |
| 5. | | Moisture content prior to compaction | | | | One test per 250 Sqm. |
| 6. | | Density of compacted layer | | | | One test per 500 Sqm. |
| 13. | Water Bound Macadam | 1. | | Aggregate impact Value | | | | One test per 200 Cum. | MOST  Specification Table 900-3 |
| 2. | | Gradation | | | | One test per 100 Cum. |
| 3. | | Flakiness index and Elongation Index | | | | One test per 200 Cum. |
| 4. | | Attenberg limits of  binding materials | | | | One test per 20 Cum for binding  material |
| 5. | | Attenberg limits of portion of aggregates passing 425 Micron | | | | One test per 100 Cum. |
| 14. | Wet Mix Macadam | 1. | | Impact Value | | | | One test per 200 Cum. | MOST  Specification Table 900-3 |
| 2. | | Gradation | | | | One test per 100 Cum. |
| 3. | | Flakmess and Elongation Index | | | | One test per 200 Cum. |
| 4. | | Attenberg limits of  portion of aggregates passing 425 mix | | | | One test per 100 Cum. |
| 5. | | Density of compacted of layer | | | | One test per 500 Sqm. |
| 15. | Prime coat / tack coat / Fog spray | 1. | | Quality of Binder | | | | No. of samples per lot and test as per 1S-73,1S-217, IS - 8887  as applicable | MOST  Specification Table 900-4 |
| 2. | | Binder Temperature | | | | At regular close intervals |
| 3. | | Rate of spread of binder | | | | 1 test per 500 Sqm. and not less than 2 test per day. |
| 16. | Seal Coat / Surface Dressing | 1. | | | Quality of Binder | | | Same as mentioned under Sr.No.1 | MOST  Specification Table 900-4 |
| 2. | | | Impact value / Los Angles Abrasion value | | | One test per 50 Cum. |
| 3. | | | Flakiness and Elongation Index | | | One test per 50 Cum. |
| 4. | | | Stripping value of aggregate (immersion  tray test) | | | Initially one set of 3 representative samples for each source of supply. Subsequently by change in the quality of the  aggregates. |
| 5. | | | Water absorption | | |
| 6. | | | Water sensitivity of Mix | | |
| 7. | | | Gradation | | | One test per 25 Cum. |
| 8. | | | Soundness | | | Initially one determination by each method for each source of supply then as warranted by change in the quality of  aggregate. |
| 9. | | | Temperature of Binder | | | At regular close intervals |
| 10 | | | Rate of spread of materials | | | 1 test per 500 Sqm. and not less than 2 test per day. |
| 11 | | | Percentage of fractured faces | | | When gravel is used one test per 50 Cum. |
| 17 | Open graded premix of surfacing / Close graded premix surfacing | 1. | | | Quality of Binder | | | Same as per Sr.No.16 | MOST  Specification Table 900-4 |
| 2. | | | Impact value /Abrasion value | | | Same as per Sr.No.16 |
| 3. | | | Flakiness and  Elongation Index | | | Same as per Sr.No.16 |
| 4. | | | Stripping value | | | Same as per Sr.No.16 |
| 5. | | | Water absorption | | | Same as per Sr.No.16 |
| 6. | | | Gradation | | | Same as per Sr.No.16 |
| 7. | | | Water sensitivity of Mix | | | Same as per Sr.No.16 |
| 8. | | | Soundness | | | Same as per Sr.No.16 |
| 9. | | | Temperature of Binder | | | At regular close intervals |
| 10 | | | Binder Content | | | 1 test per 500 Sqm. and not less than 2 test per day. |
| 11 | | | Rate of spread of  materials | | | Regular control through check of  layers |
| 12 | | | Percentage of fractured faces | | | Same as per Sr.No.16. |
| 18 | Bituminous Macadam | 1. | | | | Quality of Binder | | Same as per Sr.No.15 | MOST  Specification Table 900-4 |
| 2. | | | | Impact value /Abrasion value | | Same as per Sr.No.16 |
| 3. | | | | Flakiness and Elongation Index | | Same as per Sr.No.16 |
| 4. | | | | Stripping value | | Same as per Sr.No.16 |
| 5. | | | | Water sensitivity of Mix | | Same as per Sr.No.16 |
| 6. | | | | Water absorption | | Same as per Sr.No.16 |
| 7. | | | | Soundness | | Same as per Sr.No.16 |
| 8. | | | | Percentage of fractured faces | | Same as per Sr.No.16. |
| 9. | | | | Gradation | | 2 tests per day per plan both on individual constituents and mixed  aggregate from dryer. |
| 10. | | | | Binder Content & aggregate grading | | Periodical subject to minimum of 2 tests per day per plant. |
| 11. | | | | Control of temperature of Binder and aggregates for mixing and of premix at the time of laying and  rolling | | At regular close intervals |
| 12. | | | | Rate of spread of mixed material | | Regular control through check of layer thickness |
| 13. | | | | Density of Compacted  layer | | 1 test per 250 Sqm. |
| 19 | Bituminous Penetration Macadam | 1. | | | | Quality of Binder | | Same as per Sr.No.15 | MOST  Specification Table 900-4 |
| 2. | | | | Impact value /Abrasion value | | One test per 200 Cum. |
| 3. | | | | Flakiness and Elongation Index | | One test per 200 Cum. |
| 4. | | | | Stripping value | | Same as per Sr.No.16 |
| 5. | | | | Water sensitivity of Mix | | Same as per Sr.No.16 |
| 6. | | | | Water absorption | | Same as per Sr.No.16 |
| 7. | | | | Soundness | | Same as per Sr.No.16 |
| 8. | | | | Percentage of fractured faces | | Same as per Sr.No.16. |
| 9. | | | | Gradation | | 2 tests per day per plan both on individual constituents and mixed  aggregate from diver. |
| 10. | | | | Temperature of Binder | | At regular close intervals |
| 11. | | | | Rate of spread of mixed material | | Same as per Sr.No.16. |
| 20 | Dense Bituminous Macadam Semidense Bituminous Concrete/ Bituminous | 1. | | | | | Quality of Binder | Same as per Sr.No.15 | MOST  Specification Table 900-4 |
| 2. | | | | | Impact value /Abrasion value | Same as per Sr.No.15 |
| 3. | | | | | Flakiness and  Elongation Index | Same as per Sr.No.15 |
| 4. | | | | | Stripping value | Same as per Sr.No.15 |
| 5. | | | | | Soundness | Same as per Sr.No.15 |
| 6. | | | | | Water absorption | Same as per Sr.No.15 |
| 8. | | | | | Percentage of fractured faces | Same as per Sr.No.15 |
| 9. | | | | | Sand Equivalent test | As required |
| 10. | | | | | Plasticity Index | As required |
| 11. | | | | | Mix Grading | One set of tests on |
| 12. | | | | | Binder content | individual constituents and mixed aggregate from dryer for each 400 tonnes of mix subject to minimum of two tests per plant per day. |
| 13. | | | | | Stability of Mix | For each 400 Tonnes of mix products. |
| 14. | | | | | Water Sensitivity of mix | Same as per Sr. No. 16 |
| 15. | | | | | Swell test of mix | As required for Bituminous concrete |
| 16. | | | | | Control of temperature of Binder in boiler, aggregates in dryer and mix at the time of laying  and rolling. | As regular close intervals |
| 17. | | | | | Rate of spread of mixed material | Regular control through checks on  the weight of mixed material and layer thickness. |
| 18. | | | | | Density of compacted layer | One test per 250 Sqm. area. |
| 21 | Mastic Asphalt | 1. | | | | | Quality of Binder | Same as per Sr.No.15 | MOST  Specification Table 900-4 |
| 2. | | | | | Impact value /Abrasion value | Same as per Sr.No.16 |
| 3. | | | | | Flakiness and  Elongation Index | Same as per Sr.No.16 |
| 4. | | | | | Stripping value | Same as per Sr.No.16 |
| 5. | | | | | Water Sensitivity of mix | Same as per Sr.No.16 |
| 6. | | | | | Water absorption | Same as per Sr.No.16 |
| 7. | | | | | Soundness | Same as per Sr.No.16 |
| 8. | | | | | Percentage of fractured faces | Same as per Sr.No.16 |
|  |  | | 9. | | | | Grading of aggregate | 2 tests per day per plant both on the individual aggregates and mixed aggregate from the dryer. |  |
| 10. | | | | Binder content and grading of aggregate | Periodic, subject to minimum 2 test per day per plant. |
| 11. | | | | Control of Temp, of binder and aggregate for mixing of the mix at the  time of laying and rolling | At regular close intervals |
| 17. | | | | Rate of spread of mixed material | Regular control through checks of layer thickness |
| 22 | Slurry seal | | 1. | | | | Quality of binder | As per Se.No.15. | Most Specification Table 900-4 |
| 2. | | | | Film stripping test | Initially one set of 3 representative specimens for each source of supply then as warranted by changes in quality  of aggregates |
| 23 | Modified Binder | | 1. | | | | Softening point | Initially on submission thereafter daily if site blended, weekly if pre-blended. | Most Specification Table 900-4 |
| 2. | | | | Penetration at 25° C and 4° C. | -- do -- |
| 3. | | | | Elastic Recovery | -- do -- |
| 4. | | | | Ductility | -- do -- |
| 5. | | | | Viscosity | Initially on submission |
| 6. | | | | Thin Film even test penetration, softening point, Elastic Recovery of residue, loss on  heating | -- do -- |
| 24 | Thermoplastic paint | | 1. | | | | Glass bedd contents and grading analysis | One test for 3 Km. work |  |
| 2. | | | | Reflectance and Yellowness index | -- do -- |
| 3. | | | | Flow-ability | -- do -- |
| 4. | | | | Softening Point | -- do -- |
| 5. | | | | Drying; Time | -- do -- |
| 25 | Interlocking concrete paving block | | 1. | | | | Compressive strength | A set of 8 block for every 1,04,000 blocks |  |
| 2. | | | | Water absorption | -- do -- |
| 3. | | | | Flexural test | -- do -- |
| 4. | | | | Resistance to wear | -- do -- |

**Mandatory Testing of Material and Penalty Clause**

It is mandatory on the part of contractor to carry out all the required tests of various construction materials on the basis of frequency test and charges fixed by V.Q.C.C. of the tender. **Applicable testing charges will be reimbursed to the contractor on production of valid documents.** If the contractor fails to submit required test result of the various construction materials as mentioned in the items of Schedule B, he will be liable to deposit the amount at penal rate of five times of the amount of particular test which he has not carried out. Contractor will be informed by the NAFED Authorities through letter. On receipt of letter, contractor will have to either deposit the said amount or to carry out the required test within ten days. If he again fails to carry out the required tests in stipulated time limit, the said tests will be carried out by the NAFED Authorities and total expenditure incurred on the testing charges plus five times amount of testing charges will be recovered from the contractor’s bill.

As this recovery is only due to the negligence on the part of contractor to carry out work as per Tender conditions and NAFED’s decision will be final and binding on the contractor and it cannot be challenged by the contractor by way of Appeal, Arbitration or in the court of law.

1. VSI Crushed Sand / Artificially manufactured sand / find aggregates hereinafter referred for as “Crushed Sand” shall be as defined under Cl. 3.1.2 of IS 383-2016
2. The properties of “Crushed Sand” shall confirm to the provisions of IS 383-2016.
3. The “Crushed Sand” shall be free of dust and other Deleterious material.
4. The “Crushed Sand” shall be manufactured using “Automatic Vertical Shaft impactor” type Crusher only.
5. The quantity of Microfines (Particles below 75 microns) in “Crushed Sand” shall not be more than 7%.
6. The contractor shall intimate the NAFED Authorities regarding the source of supply of Crushed Sand. The source of supply of “Crushed Sand” shall be got approved by the NAFED(NAFED Authorities) prior to the start of work.
7. Each load of crushed sand whenever brought on site shall be tested for “Fineness modulus”. Fineness modulus shall be within permissible limits. If it doesn’t fall within acceptable limits, it shall be rejected.
8. The test of Compressive strength of concrete / Mortar using “Crushed Sand” shall be carried out in presence of NAFED Authority’s Engineer as given below.
   1. 100% Cube testing in presence of PMC.
   2. 25% cube testing in the presence of PMC
   3. 5% Cube testing in the presence of PMC.
9. The flakiness index and elongation index tests shall be within permissible limits.
10. The Concrete mix design for each grade of concrete using “Crushed Sand” shall be carried out only in Government Quality Control laboratory and the same Mix Design shall be adopted.
11. As far as possible freshly produced “Crushed Sand” shall be used stored “Crushed Sand” shall not be used.
12. For plastering purpose, if the use of crushed sand is proposed it shall be used within addition of super plasticisors at the rate of 100 ml. / Bag of Cement without extra cost to Government. Separate permission shall be taken for use in plastering from concerned NAFED.
13. The following tests shall be carried out for the use of “Crushed Sand”.
    1. Sieve analysis.
    2. Specific gravity.
    3. Water absorption.
    4. Bulk density.
    5. Alkali aggregate reaction.
    6. Soundness
    7. Deleterious Material.
    8. Organic impurities.
    9. Micro Fines content.
    10. Test for silt and clay.
    11. Fineness Modulus test.
14. Necessary Bond regarding the use of “Crushed Sand” shall be submitted by the contractor clearly stating that, if any defects are observed during execution and defect liability period, the same shall be rectified at his own risk and cost.
15. Grading zone II mentioned under Clause 6.3 table 9 of fine aggregates is IS 383:2016 shall only be used for concreting.
16. Reversible Drum Type / Batch mix plant (Pan type) concrete mixer shall be used for concrete.
17. Crushed Sand shall not be used for pre-stressed concrete works.

**GENERALSPECIFICATIONSFORWATERPROOFING**

Rateforrespectiveitemsshallincludefortheadditionalspecifications:

1. The work of water proofing described in the following items shall be carried out by the contractor only through a renowned specialist water proofing agency using cement waterproofing compounds, as approved in writing by the NAFED.
2. The contractor shall give before actual execution, detailed specifications for each item of work of waterproofing to be executed according to the specifications of the specialist agency the proposes to employ, for approval. the work shall not be started unless approval in writing is given by the Engineer-in charge it the said specification.
3. the contractor shall give a guarantee bond on requisite stamp paper for a minimum period of 10years for all the times of waterproofing done.During the guarantee period the contractor shall entirely be responsible to rectify any defect at his own cost to maintain the work in waterproof condition. the waterproofing contractor shall also have to make good all the surroundings disturbed by him during the rectification work at his own cost. The form of written guarantee shall be on a legal stamped agreement acceptable to the Government shall be given within one month from the date of completion of waterproofing treatment but any delay in furnishing the guarantee shall not relive the contractor form the implications of this clause.
4. **15% (Fifteen percent)** of the cost of the waterproofing work executed shall be retained as “Retention Money” for a period of ten years covering the guarantee and the same shall be released only after satisfactory performance of the treatment during guarantee period of 10 years.
5. The waterproofing agency shall provide and install at its own cost the following for its own use and remove the same after completion of the work
   1. Twopumpselectrical/dieseloperatedforwateringandcuringatanylevelinthe building. Curing for all items shall be carried out for minimum period of 14 days
   2. TemporaryMildSteelwaterstorage tanks.
   3. Temporarygalvanisedironpipingandfittingsforwater lime.
   4. Flexiblehose lengths
   5. Cementgodown,site office.
6. Injections to reinforced cement concreteslab, whereverrequired haveto beundertaken by the contractor free of cost.
7. Before starting the waterproofing work, the surface receiving the treatment shall be cleaned properly.
8. TheitemofwaterproofingasgivenintheSchedule“B”appliesforworkinanyposition and on anyfloorand atheight.Theliftofmaterialsshallnotfarmanycriteriaforextra payment.
9. For the reference of contractor, guideline Specifications for waterproofing are attached herein with the General Specifications.

**GENERAL GUIDELINES FOR WATERPROOFING WORK FOR REFERENCE OF CONTRACTOR**

**(NOTE: THECONTRACTORISREQUIREDTOGIVEDETAILED SPECIFICATIONS FOR EACH OF WATERPROOFING WORK)**

1. **ROOF SLAB AND TERRACE:**

Providing average 112 mm thick cement based waterproofing treatment with brick at the rainwater pipe point and keeping the gradient not flatter than 1 in 100.

1. Cleaningthesurfacetothe requirements.
2. Giving a cost of wash mixed with cement.
3. Providing 12 mm thick cement mortar bed with admixture of waterproofing compound to form a bed for brick bats. Special care shall be taken at the junction of parapet and terrace slab to ensure gaps, if any, are properly sealed.
4. Placing brickbats of varying size (average 80 mm thick) to a proper slope and grouting their joints with chemical procession cement mortar with 2% with waterproofing level of waterproofing compound.
5. Providing all around the terrace large waterproofing wattas (roundings) upto a height of 30 cm in P.C.C. or as directed above the finished level of waterproof treatment.
6. Finishing and curing for 14 days .
7. Currying out the test. Payment for the item shall be released only after results of pond test are satisfactory.
8. **TOILETS**
9. Cleaning the surface to the NAFED Authorities’ requirements
10. Giving a coat of wash mixed with cement.
11. Providing 25mm. thick waterproof treatment to the bottom of toilet floors.
12. Providing 20mm. to 25mm. thick cement mortar waterproof treatment to the walls of toilets upto the height of 1.00 meter above the finished floor level.
13. Providing waterproof wattas all around the toilets.
14. Grouting the mouths of inlets and outlets.
15. Filling sunk portion with brick bats including water proof mortar and the top surface left rough to form a key for tiles.
16. **OVERHEAD TANK**

The work under some items in Schedule “B” of the tender pertains to construction of underground / overhead water tank. After completion of the work, water tank as a whole shallbe tested for water tightness and leakage’s if any shall be rectified forthwith without any extra cost to the NAFED Authorities.

**SPECIFICATIONS FOR FORMWORK AND STEEL CENTERING**

###### FORMWORK: -

1. **Form work: -**Form work shall include all temporary forms of moulds required for forming the concrete which is cast-in-situ together with all temporary construction required for their support. Unless otherwise stated all formwork shall conform. to I.S. Specifications.
2. **Design of form work: -** Formwork including complete false work shall be designed by the contractor in accordance with I.S. Codes without any extra cost to the Employer and these shall be got approved from the Engineer before any formwork is taken up.
   1. The contractor shall entirely be responsible for the adequacy and safety for false work not withstanding any approval or review by the Engineer of his drawing and design. Proprietary system of formwork, if used a detailed information shall be furnished to the Engineer for approval.
3. **Quality of shuttering: -**The shuttering shall have smooth and even surface and its joints shall not permit leakage of cement slurry.
   1. Ply board shuttering material to be used for sides of beams and columns shall be marine or laminated plywood well-seasoned free from projecting nails, splits or other defects that may mark on the surface of concrete. It shall not be so dry as to absorb water from concrete and swell and bulge, or so green or wet as to shrink after erection. Mild steel plates or plywood shall be used for slab and beam bottoms.
   2. The timber shall be accurately sawn and planed on the sidesand the surface coming in contact with concrete.
   3. Sofaraspracticableclampsshallbeusedtoholdtheformstogether.Whereuseofnails inunavoidableminimumnumberofnailsshallbeusedandtheseshallbeleftprojectingso that they can be easily with drawn. Use of double headed nails shall be preferred.
4. **TOLERANCE: -**
   1. The formwork shall be made so as to produce finished concrete true to shape, levels,plumb and dimensions as shown on the drawings, subject to the following tolerance unless otherwise specified in these documents or drawings or as directed by the Engineer.
5. Section dimensions = 5mm.
6. Plumb =1in1000ofheight.
7. Levels = 3mm. before any deflection has been taken place.
   1. Tolerance given above are specified for local aberrations in the finished concrete surface and should not be taken as tolerance for the entire structure taken as a whole or for the setting and alignment of formwork, which should be as accurate as possible to the entire satisfactionof the Engineer. Errors it noticed in any lift / tilt of the structure after stripping of forms, shall be corrected in the subsequent work to bring back the surface or the structure to its true alignment.
8. **SPECIAL PROVISIONS:-**

Whenever the concreting of thinner members is required to be carried out within shutters of considerable depth, temporary openings in the sides of the shutters shall, if so directed by the Engineer by provided to facilitate the pouring and consolidation of the concrete. Small temporary openings shall be provided as necessary at the bottom of shutters of walls and deep beams to permit the expulsion of rubbish etc.

1. **REMOVAL OF FORMWORK:-**

The formwork shall be so removed as not to caused damage to concrete. Centering shall be gradually anduniformity loweredinsuchamannerastoavoidany shockor vibration. Supports shall be removed n such a manner as to permit the concrete to take stresses due to its own weight uniformly and gradually.

The whole of the formwork removed should be planned and definite scheme of operation workedout.Undernocircumstanceshouldformsbestruckuntiltheconcretereachesa strength of at least twice the stress to which the concrete may be subjected at the time for striking but not before he period as mentioned in I.S. 456 where ordinary Portland cement is used.

###### II. STEEL CENTERING:

1. **Work include :** Erecting steel centering with contractor’s materials comprising of standard steel adjustable props and standard steel trusses / joints / spans , centering plate for bottom of slab and steel plates for bottom of beams etc. of adequate strength properly balanced for obtaining adequate rigidity to withstand all loads coming on it including permanent and temporary fixtures and fastenings etc. complete for R.C.C. members like beams , slabs and canopy including its removal after the specified period stacking, making good the damaged parts/ its replacement before its next use with all leads and lift ( all centering material shall be of contractor). No separate payment will be paid by NAFED.
   1. For R.C.C. beams, lintels, arches etc. formwork shall be of plywood of adequate thickness and grade only. The centering / supporting arrangement such as standard steel trusses/ joints. spans standard adjustable / fixed props. H Type frames etc. shall be designed by the contractor and got approved from the Engineer before commencement of its erection. The contractor with prior approval of the Engineer shall use standard steel centering arrangement which may be manufactured by the reputed firm.
   2. Thesupportingarrangementdesignedbythecontractorshallbeconformtothe relevantI.S. code and standard practice adopted in this type of work. The centering arrangement shall be adequately braced and properly secured by using appropriate type of fastenings and fixtures to ensure stability and rigidity of the centering to withstand all leads coming on it. The entire responsibility for design, erection, maintenance and safety etc. will exclusively rest with the contractor. The Engineer reserves right to call detailed design calculations of the entire centering or part thereof to verify its stability and also reserve right to reject to entire centering arrangement or part thereof and any material used for the centering in the event of which the contractor shall have to arrange for its replacement at his own cost.
2. **ITEM TO INCLUDE: -**
   1. The item shall include erection of centering with M. S. props, struts with all bracing’s, fastening and fixtures, its removalafter the specified period and its safe maintenance during the above period, cost of safety precautions required to be taken for the workmen and Government property, stacking of damaged / worked out parts, cleaning etc.
   2. The materialused for centering shall be the property of contractor and shall be allowed tobe taken away after completion of work. No separate payment will be paid by NAFED.
   3. The centering, supporting arrangement should be designed bythe contractor. He may make useofthestandardcenteringarrangementmadebystandardmanufacturersuchasAcroblue bird.Alltherelevantcodesetc.willbefollowedandappropriatecenteringmaybesuggested. The rate should all including temporary / permanent arrangement including temporary fastening and fixtures. The centering material should be of contractor and he should take awayfromthesiteofworkaftercompletionofwork,IsolatedIintelslessthantwometresin lengthchhajjaandplinthbeamshallnotbepaidforcenteringunderthisitem.Thepaymentto theextentofcompletedR.C.C.workshallonlybemadeirrespectiveofquantityofcentering material procured bythe contractor at the work site.

# QualityAssurance&Maintenance Manual

**QUALITY ASSURANCE AND MAINTAINANCE MANNUAL**

To ensure the specified quality of work, which will alsoinclude necessary survey, temporary works, etc. the contractorshall prepare a quality assurance plan and get the same approved by the Engineer-in-charge within one month from the date of work order.For this, the contractor shall submit an organisation chart of his technical personnel to be deployed on the work along with their qualifications, job descriptions defining the functions of reporting, supervising, inspecting and approving. The contractor shall also submit a list of tools, equipment and machineryand instrumentation which he proposes to use forthe construction and for testing in the field and/or in the laboratory and monitoring.The contractor shall modify/ supplement the organisation chart and the list of machinery, equipments etc.as per the directionsofNAFED and shall deploy the personnel and equipment on the fieldas per the approved chart and the listrespectively. No separate payment will be paid by NAFED.

The contractor shall submit written method statements detailing his exact proposals of execution of the work in accordance with the specifications. He will have got these approved from the Engineer-in-charge. The quality of the work shall be properly documented through certificates, records, checklists and log ooks of results etc. Such records shall be compiled from beginning of the work and be continuously updated and supplemented and this will be the responsibility of the contractor. The forms should be got approved from the NAFED-in-charge.

The contractor shall prepare detailed completion drawing and submit to Architect for approval. Also contractor should submit two sets of CDs and Hard copy each after completion of the work. He shall also prepare and submit a maintenance manual giving procedure for maintenance, with periodicity of maintenance works including inspections, tools and equipment to be used, means of accessibility for all parts of structure. He shall also include in the manual, the specifications for the maintenance work that would be appropriate for the technique of construction. This manual shall be submitted within the contract period.

# Work & Site Condition

**NAME OF WORK: -NAFED INVITES PROPOSAL FOR PROPOSED RENOVATION, RESTORATION & CONSTRUCTION OF ONION STORAGE SHED AT LASALGAON & PIMPALGAON (PHASE-1)**

## WORKANDSITECONDITION

**MANNEROFSUBMISSIONOFTENDERANDITS**

**ACCOMPANIMENTS**

**SPECIALATTENTIONTOCONTRACTOR**

As the contract includes works of Electrical Installation with civil work. The Civil contractornothavingtheregistrationofcarryingoutabovementionElectricalandalliedworksshall have a written agreement executed before Executive Magistrate with valid Class – D & above Electrical Contractor Registered with Maharashtra State PWD. No sublet is allowed to electrical contractor. However, the responsibility of whole work (Civil, Electrical & allied work) lies with the Civil Contractor only.

ThesuccessfulbiddershallsubmitPerformanceGuaranteeof**5%**ofcostofElectrical work in the form of Bank Guarantee **Fixed** for 5 years pledged in the name of **NAFED,** which will be refunded aftersuccessful completion of comprehensive maintenance of 5 years commissioning of Installation / system. The form of performance Guarantee given in this tender will be returned to contractor without any interest.

###### SPECIALCONDITIONSANDTECHNICALSPECIFICATIONS

General Technical Specifications shall comprise the specifications containing in theStandard Specifications mentioned hereinbefore. The I.S. specifications referred to there in shallstandapplicableoftechnicaldetailsandspecificationcontainedinP.W.D.Hand Book and Indian Electricity Rules framed under Indian Electricity Act for Electrical works, also be considered as part of these General Technical Specifications.

In the event that no specifications. Instructions or guidelines ore available in Standard SpecificationsorAnnexure,forcarrying-outparticularitemofworkortestingof materials as relevant specifications and standards laid down in the codes of Practices listed belowshall be applicable and binding on the Contractor.

Thecodesofpracticesthatshallalsobeapplicableareasunder:

|  |  |
| --- | --- |
| Abbreviations | Codeofpractice |
| IS | Indian Standard of the Bureau of Indian Standard |
| BS | BritishStandardofBritishStandardsInstitutions |
| ASTM | American Standard of the American Society of Testing Material |
| AG | American Concrete Institution |
| DIN | Deutscher Normenausschuss (Germanlspetons) |
| SP | Special Publication of Bureau of Indian Standard |
| NBC | National Building Code of India |
| IRC | IndianRoadsCongress |
| MOST | MinistryofSurfaceTransport(RoadsWings) |
| SpecificationsforRoadandBridgeworks1988 | |
| CPHEEO | Central Public Health and Environmental Engineering Organization. Drainage and per Manuals - Govt, of India |

1. In so far any stipulation made herein conflicts or is inconsistent with any of the provision of the standard specifications, the stipulation made herein shall alwaysprevail.
2. The codes of practices would always mean the latest editions of codes of practices current on the day. 30 days prior to the last date of receipt of tender and. only the Standards and specifications mentioned therein shall be applicable.
3. The Contractor shall be responsible for the quality of work in the entire construction workwithintheContract.TheContractorshallthereforehavehisownindependent and adequate set up for ensuring the same.
4. The Contractor shall carryout modification in procedure of work, if any, as directed by the Engineer during his inspection. Contractor shall keep a book called Work Order Book on site Engineer will enter his observations i this book whenever necessary. Contractor'srepresentativeshallsignbelowtheremarksintokenof acknowledgement. Works falling short of quality s directed by the Engineer shall be rectified immediately the Contractor as his cost. For Cement,Mild Steel,High tensile steel, concrete and similar othermaterials where essential test are to be carried at the manufacturersplantsoratlaboratoriesotherthannamedlaboratorythecostof samples, sampling, forwarding, testing and furnishing of test certificates, shall also be borne by' the Contractor. The test certificates shall be furnished to the Engineer in- charge.
5. Unless specified otherwise, the method of sampling and testing of materials shall be as per the relevant ISS and special publications. In the absence of relevant Indian Standards, the sampling and testing procedure to be used shall be as prescribed by the Engineer-in- charge. The materials to be incorporated in the building for various items of works shall be procured by the Contractor in advance and samples thereof got approved from the Engineer-in-charge.
6. The approved samples shall be retained in a sample room constructed at site of work till completion of work. No deviation in size, grade and quality of the material shall be made by the Contractor during the construction on any plea/ground that the large quantity of such material is not available or otherwise.
7. The contract rates quoted for various items of work in the Bill of Quantities shall bedeemed to be inclusive of the cost of the provisions indicated in the above mentioned clauses.
8. Equipments for surveying, leveling, lining out and measurement on the work shall be procured at his cost by the Contractor for his use. The same shall also be made available to the Engineer at site for any work connected with the Contract without any charge. Maintaining the instruments in proper working condition shall be the responsibility of Contractor.
9. The equipment such as spirit level, plump bob, log and short right angles, steel tapes of different lengths, nylon thread, plastic transparent water tubes etc. shall be procured and kept in dimensions.
10. The contractor shall have to construct and provide laboratory cum sample room and site office with toilet for the supervisory staff of the Engineer-in-charge in addition to his site office, godowns etc. all these
11. - structures shall of semi-permanent nature and shall be constructed by the Contractor at his own cost as per the plan repaired and approved by the Engineer-in-charge.
12. This site office, laboratory cum sample room shall be independent structures or shall be housed under one roof. The site office shall have a cabin for the Engineer and / or his authorised representative and a meeting hall which will also serve as place; for supervisory staff of the Engineer-in-charge. Suitable Government land if availablewith the NAFED Authorities will be made available to the Contractor for this purpose.
13. The sample room shall be meant for keeping the samples of materials approved by the Engineer and the same shall be the sole property of the NAFED Authorities to be supplied free of cost by the Contractor.
14. A room for site laboratory shall be provided by the contractor and equipped by the Contractor.
15. On completion of the entire work the temporary structures shall be dismantled by the Contractor, if so ordered by the Engineer.
16. However, in case the Engineer desires to retain these structures for his use for some time more, even after completion of work the Contractor shall retain these structures and the ownership of the same shall deemed to be transferred to the Engineer-in- charge. In such event the Contractor shall have no financial claim against the Engineer- in-charge.
17. Obtaining the water supply and electric connections for above structures from the concerned local authorities and payment of water supply and electric energy charges to concern authorities shall be the responsibility of the Contractor which he shall discharge at his own cost, for the entire contract period.
18. The Contractor intending to use particular equipments, plants and machinery on work, shall inform the Engineer about such intention one month in advance. He shall clarify the purpose uti9ity and mode of operation etc. to the Engineer and get the same approved.
19. During the course of construction unusual situations and typical problems may arise in which case the Engineer may demand the methodology of construction, the contractor intends to adopt.
20. In such an event the Contractor shall furnish the same and adopt the 'methodology duly modified, if so ordered by the Engineer. In order to achieve quality, workmanship and constructional effect the Engineer shall also propose particular methodology which shall be adopted by the Contractor.

###### GENERAL INSTRUCTIONS

1. In the absence of any definite provisions on any particular issue in the aforesaid "Standard Specifications" reference may be made to the Volume-ll. Codes of practice and in case of any dispute arising out of interpretation of the above, the decision of the Engineer shall be final and binding on the Contractor.
2. In so far as any stipulation made herein conflicts or is inconsistent with any of provision of the "Standard Specification". I.S. Codes of practice, the stipulation made herein shall always prevail.
3. The special stipulations which are in addition and over and above the specifications contained in “Standard Specifications” are given inforegoing clauses and shall be binding on the Contractor without any claim for extra labor and material there for.
4. "The purpose of these stipulation is to achieve good workmanship and the work done in an Engineer-like-manner in part as well as in the totality at every proper stage of work. This necessitates and becomes binding on part of the Contractor to obtain written approval and acceptance of the work done under different items of work at different stages from the Engineer-in-charge.
5. Not obtaining the written approval/acceptance of the work done from the Engineer-in- charge at a particular stage of item of work stipulated and proceeding ahead of the next stage of work under the same or different item may viewed as serious lapse on part of the contract. In such an event the work done but not proved by the Engineer-in charge may be summarily rejected. Similarly, wherever work done which converts the unapproved work may also be rejected. Such rejected work shall be removed by the Contractor at his own cost.
6. Acceptance of work done and granting permission to the Contractor to proceed with further stage of work as per the stipulations made herein shall be done by the Engineer by such mentions in Work Order Book or by letter in writing. The Contractor shall have to note and sign such remarks and certifications made in the work order book maintained at the site of work.
7. In case the Contractor finds that part of whole of the excavated material is such that it is not useful for refilling the excavated pits and trenches and / or plinth or land development of site of work, he shall inform so in writing to the Engineer requesting for final disposal outside the premises in the initial stage only. In case the Engineer approves of his fact and such proposal he shall order for final disposal of excavated un-useful material beyond the premises.
8. As soon as the excavation in pits and trenches partly or fully by the Contractor he shall get the same approved in writing from the Engineer and shall not proceed with next item of work such as laying of sailor bed concrete etc. without complying with his requirement.
9. As soon as the excavation for foundation is approved he levels of these same shall be taken and recorded by the engineer in a separate book known as field book which will be signed by the Contractor in token of acceptance of the same.
10. The depths and heights of work done under different hidden items of work in foundation shall be determined from difference of levels of top and bottom. Hence it will be binding upon the Contractor to arrange for level taking at intervals of top and bottom. Hence it will be binding upon the Contractor to arrange for level taking at intervals and sign the levels record in field book by the Engineer in token of acceptance of the same. The Contractor shall not proceed with next item unless this be done.
11. The plinth level i.e. floor level of the ground floor shall be got predetermined by the Contractor from the Engineer in writing.
12. The floor level shall be fixed in the form of reduced level with reference to the level of permanent or temporary bench mark. The bench mark fixed shall be properly secured, constructed, protected, and maintained by the Contractor atone or more locations as ordered by the Engineer.
13. For fixing the plinth level the Contractor shall get the made up or the developed ground level decided before hand in writing from the Engineer.
14. For this purpose, the Engineer and the Contractor shall take account following considerations.
    1. Contours and slope of natural ground of works sight.
    2. Level of top of adjoining public road.
    3. The length and gradient of approach road from the public road to the entrance of the building.
15. The plinth level shall be in accordance with the height of plinth shown on Architectural drawing measured above the made up or developed ground level decideand fixed in advance as above.
16. On the basis of reduced levels of made up or developed ground level in plinth the Contractor shall submit the Sectional drawings of plinth in to copies to the Engineer duly signed by him. He shall clearly show thereon the reduced level of flooring at plinth, top of bed concrete below flooring, top of plinth filling based on the predetermined reduced level of the made up or developed ground level. The sectional drawing shall show the sections through internal wall and external walls distinctly duly indicating top of R.C.C. plinth beams in case of frame structure and offsets of walls at plinth level and at ground level and inside the foundation, in case of load bearing structure.
17. The Engineer shall scrutinize the sectional drawings submitted by the Contractor; modify the same if necessary and return one copy of approved drawings to the Contractor duly signed in token of approval and acceptance of the contents of the drawing. The contractor shall strictly adhere to the reduced levels involved in different items of work in plinth as shown on approved plan.

###### ADDITIONAL SPECIFICATION FOR CONCRETE WORKS

1. For all items of concrete works in any structural portion or its components only DesignMix concrete shall be used. For grade of concrete less than M-15 Nominal mix concrete may be used.
2. **Nominal Mix**

In case of nominal mix concrete is not required to be designed by preliminary tests. The proportion of cement, fine aggregate sand, coarse aggregates specified by volume.

1. **Design Mix**
   1. Concrete of specified grade shall be designed on the basis or preliminary tests. The Contractor shall make trial mixes using samples of aggregate and cement typical of those to be used in the works, if possible the concreting plant and the methods of transporting and depositing the concrete to be employed in the work shall be used to simulate working conditions with the trial mixes.

Design mix shall be carried out in accordance with the provisions laid in 18.10262

* 1. Preliminary tests and strength requirements of controlled concrete shall conform to requirements of IS. 456.
  2. All these preliminary tests approvals etc. shall be got done well in advance by theContractor b8fore any concreting is contemplated. Failure on the part of the Contractor to do so and the consequent delay in the completion of the work will not entitle "him to any compensation whatsoever, either financially, or by way of extension of time.

1. **Cement Content**

MinimumcementcontentofvariousgradesofDesignmixconcreteshallbeasper I.S.

* 1. **Water Cement Ratio**

Water cement ratio in all elements shall be as low as practicable in conformity with requirement of workability as per I.S. 456.

* 1. **Water Quantity and Slump**

Water quantity and slumps for all reinforced (ordinary and controlled concrete) and plain concrete work shall conform to IS 456 specifications unless otherwise directed by the Engineer.

* 1. **Admixtures**

Use of superplasticizers in concrete shall be permitted. Admixtures shall comply with IS:6925. The cost of admixtures shall be borned by the Contractor.

1. **Workmanship**
   1. **Proportioning Concrete**

Proportioning of concrete shall conform to IS:10252 unless otherwise directed by the Engineer.

* 1. **Mixing of Concrete**

Design mix concrete as well as nominal mix concrete shall be mixed following the provisions in standard specifications unless otherwise directed by the Engineer. Unless otherwise agreed by the Engineer concrete shall be mixed in a batch type mixer which shall comply with IS : 1791, IS : 4935 or such other types as the Engineer may approve.

When swing type weight batcher are used they shall comply with IS 2722. Batch mixers shall be tested and perform in accordance with IS : 4634 or such other tests as the Engineer may require.

During hot weather the Contractor shall ensure that the constituent materials are sufficiently cool to prevent the concrete from stiffening in the intervals between its discharge from the mixer and as final position.

* 1. **Transportation, Placing and Compaction of Concrete**

The method of transportation, placing and compaction of concrete shall be followed as- per Standard Specifications unless otherwise directed by the Engineer. The Compaction shall be done with surface float vibrators for slab and with pin vibrator for columns and beams. Vibrators of adequate capacity shall be employed of the all types of works.

* 1. **Curing**

Curing shall be done following provisions of Standard Specifications and as directed by the Engineer. Approved curing compounds may be used in lieu of moist curing with the permissions of the Engineer. Such approved compounds shall be applied to all exposed surfaces of concrete as soon as possible after the concrete has set.

* 1. **Working in Extreme Weather**

During windy weather efficient protection shall be provided to prevent the cement from being blown away during the process of proportioning and mixing. During wet weather, the concrete shall be adequately protected as soon as it is in position. No concreting shall be carried out during period of continuous heavy rain unless, it is completely covered during mixing, transportation and placing. In extreme hot weather, concreting shall be restricted to mornings and evenings. Time between mixing and placing of concrete shall be kept to the minimum and formwork shall be cooled by sprinkling with water starting curing before concrete dries out.

* 1. **Finishing**

Finishing work shall comply with requirements of Standard Specifications unless otherwise specified herein below:

Immediately on removal of forms, the RCC work shall be examined by Engineer before any defects are made good.

* + 1. The work that has sagged or contains honey combing to an extent detrimental to structural safety or architectural concept shall be rejected.

Surface defects of a minor nature shall be rectified generally as indicated below by the Contractor

Surface defects which require when forrrl are removed usually consists of bluges due to movement of forms, ridges at form joints, honey combed areas, damages resulting from the stripping of forms and bolt hole'. Bulges and ridges shall be removed by careful chipping or tooling and the surface is then rubbed with a grinding stone. Honey combed and other areasshall be chipped out, the edges being cut as straight as possible and perpendicularly to the surface, or preferably slightly under cut to provide a key at the edge of the patch, bolt holes shall be closed by cement mortar to ensure through filling.

Shallow patches shall first be treated with a coot of thin grout composed of one part of cement and one part of sand and then filled with mortar similar to the used in concrete.

The mortar is placed in layers no more than 10mm thick and each layer shall be given in scratch finish to secure bond with the succeeding layer. The last layer shall be finished to match the surrounding by floating, rubbing or cooling formed surfaces by the pressing the form material against the patch while the mortar is still plastic.

Large and deep patches require filling up with concrete held in place by forms. Such patches shall be reinforced and carefully dowelled to the hardened concrete.

The same amount of care to cure the material in the patches shall be taken as with the whole structure. Curing shall be started, as soon as possible after the patch is finished to prevent early drying, damp hessian may be used.

Constructions joints shall be provided and treated following the provisions of specification and as directed by the Engineer.

1. **Durability**

MinimumcementcontentsfordifferentexposuresandSulphateattackare givenin Tables 19 and 20 of IS 456 shall be followed for design mix.

1. **Tests and Standard of Acceptance**

Test and Standard of acceptance criteria of design mix concrete and nominal mix concrete shall be as follows Sampling and testing of concrete shall be as done as per provisions of Standard Specifications. Acceptance criteria for strength of concrete shall be as below:

* + 1. **Design Mix Concrete**

Full payment shall be made when 80% of the test cube results are equal to and above the minimum specified strength, and the remaining 20% on the results are above 80% of the specified ' strength.

* + 1. **Nominal Mix Concrete**

Full payment shall be made when 70% of the test cube results are equal to and above the minimum specified strength and; the remaining 300/0 of the results are above 75% of the specified strength.

In Case falling outside the above limit shall be examined by the Engineer on merits in each case.

* 1. **Defective Concrete**

Any concrete which givesubstandard results, or is severally damaged due to cracking or shows excessive honey combing and exposure ot reinforcement of if anyfault,whichintheopinionofthe Engineer,seriously impairsitsfunctionmay be declared as defective concrete. Acceptance of such concrete shall be covered by IS 456, such non acceptable concrete shall be cuts out /removed fromthe site and replaced by fresh concrete of the specified quality by the Contractor at his own cost. Alternatively, in case of acceptable concrete, the Contractor shall carry out whatever other remedy, the Engineer may reasonably require having regard to all the circumstances at expenses of the Contractor.

* 1. **Keeping Records**

The records of mix design, slump testing of CC cubes etc shall be maintained in accordance with standard specification.

###### SPECIAL CONDITIONS OF CONTRACT

###### POWER SUPPLY:

###### Power should be arranged by the Contractor himself. The utilized from the NAFED authorities shall be debitable @ Rs 20 per unit. Contractor has to install the sub-meter in presence of NAFED engineer incharge and submit he readings of the meter every day to architect / engineer incharge / PMC by email. The cost of submeter and all distribution shall be borne by contractor. Any damage to existing electrical set up shall be borne by contractor and shall be repaired / replaced promptly.

###### DRAWINGS SPECIFICATIONS AND DEVIATIONS: -

###### The drawings and specifications, laid down minimum standards of equipment and workmanship shall be be served. Should the tenderer wish to depart form the provisions of the specifications and drawings either on account of manufacturing practice or for any other reasons, he should clearly draw attention^ in his tender to the proposed points of departures and submit such complete information, drawings and specifications as well enable there lattice merits of the deviations to be fully appreciated. The contractor shall prepare fabrication and working drawings and be got approved by the Engineer. Approval of drawings does not believe the contractor of his responsibility to meet with the intents of the specifications. All such drawings of approval shall be in duplicate.

###### All tools, tackles, scaffolding and staging required for erection and assembly of theequipment and installation covered by the contractor by the contract shall be obtained by the Contractor himself. All other materials such as foundation bolts, nuts, etc. required for the installation of the plant shall also be supplied and deem to be included in the contract.

###### CO-ORDINATION WITH OTHER AGENCIES:-

###### Successful tenderer shall co-ordinate his work with other agencies engaged in, the construction of building.

###### COMPLETION OF TENDER SPECIFICATIONS:-

###### All fittings, unit, assemblies, accessories, hardware, foundation bolts, terminal lugs for electrical connection, cable glands and miscellaneous materials or accessories or items of work which are useful and necessary for efficient assembly and working of the equipment shall be deemed to be included in the tender within the over-all cost quoted; the equipment shall be completed in all details whether such details have been mentioned or not.

###### WORKMANSHIP: -

###### The entire work of fabrication, manufacture assembly and installation of equipment shall conform of high-grade workmanship. All the equipment supplied and erected must be able to withstand the Atmospheric condition of

1. Maximum ambient temp. 48° C
2. Maximum relative humidity 98%
3. Corrosive atmosphere
4. Hot and humid climate close to sea coast.

###### TESTING & HANDING OVER:-

###### The contractor shall carry out tests on different equipment as specified in various standards in the presence of representatives of the Engineer in order to enable him to determine whether the plant, equipment and installation is in general, complying with the specifications.

###### The installation shall be taken over by the Engineers after satisfactory testing along with four sets of documentation each consisting of:-

* 1. Detailed equipment data as approved by the engineer.
  2. Manufacturer's maintenance and operating instructions.
  3. Set of drawings, showing plant layouts, piping,ducting, etc.
  4. Approved test readings and certificate of statutory authorities.
  5. Test report of the contractor as per I.E. Rules.
  6. Submission of the above documentation shall form a precondition for the final acceptance of the plant and installation and final payment.

###### PERFORMANCE GUARANTEE:

###### All equipment and the entire installation shall be guaranteed to yield the specifiedratingand design conditions plus / minus 3% tolerance.Any equipment found short of the specified ratings by more than the allowable tolerance as determined by the test reading shall be rejected. The tenderer shall guarantee the following.

1. Quality, strength & performance of materials used.
2. Mechanical & electrical strength of all parts under all specifiedconditionsof operation shall withstand for safe operation.
3. Satisfactory operation during the maintenance period.
4. Performance figures and other particulars as specified by the tenderer as per Schedule.
5. Quick free of charge service during guarantee period for repairs and breakdowns.

###### STATUTORY INSPECTIONS:

###### The contactor shall be fully responsible for meeting all the statutory obligations and local inspectorates pertaining to the works carried out by them. The contractor should prepare all working drawing and obtain approval of competent authority and also have the equipment and installation inspected and get approved. All official fees will be borne and paid by the contractor and if paid by the NAFED Authorities to avoid delay directly against demand in writing from the appropriate authority the NAFED Authorities will recover the same form the contractor. All other expenses for submission and approval of the various and relevant statutory bodies including the above shall be deemed to have been embodies in the tender prices.

###### INSURANCE:

###### The insurance for the equipment shall be affected by the contractor with the Govt. Insurance fund with director of Insurance, Govt. of Maharashtra, 16/17 floor, New Administrative Building M.G. Road, Mumbai 400 032 or any other Nationalized insurance company on behalf of the NAFED Authorities covering the risks toward handling, transit storage at site, transporting, erection testing and commissioning of the equipment at site. Insurance shall be full and shall cover any loss or damages in accordance with clause 11 of General conditions of contract of electrical works in the NAFED (special Elect. Form 48e.) The damaged materials will be set right or replaced by the contractor free of cost. The claims arising OUT of the composite Insurance policy shall be dealt with or handled by the contractor. The contractor shall take a separate M.C.E. Composite policy for these purposes.

###### COMPLIANCE OF SAFETY CODE:

###### Successful tenderer shall ensure compliance with statutory provision of safety regulation and NAFED Authorities requirements of safety codes in respect of labour employed on the work by the Tenderer. In the event of the contractor fails to observe the same. The NAFED Authorities will be at liberty to make the necessary arrangement at the cost of the contractor and recover this cost from him. The contractor shall be responsible for any compensation to the workmen payable under the Workmen Compensation Act 1923 duly amended as on date or any other statutory regulations in force.

###### A competent authorised and licensed supervisor shall be on the site whenever the contractor's men are at work. The supervisor should ensure that all plant and machinery used on the site are rendered safe for working and meets with the Indian or International safety standards applicable for the use and operation of such machinery. The supervisor should also ensure that the workmen are supplied with and made to use safety appliances such as safety belts, life lines, helmets etc., and those prescribed as per I.E. Rules, 1956.

###### It is entirely the responsibility of the contractor to practice the principles of 'Safety First' during the entire tenure of work with adequate comprehensive insurance covering injury or death to workmen or any other persons on site, loss by theft, or damage to materials and property in position or not. The contractor should clear the site of al! debris very day to avoid accidents.

###### In case this is not done, the NAFED Authorities may engage necessary labour to maintain the cleanliness of the premises and removal of debris, and debit all or part of the expenditure so incurred to the Contractor.

###### The contractor shall here to, at his own expenses, make all preliminary arrangement as indicated below immediately after the contract is awarded without any loss of time.

1. He shall construct necessary store sheds with double locking arrangement for the storage ot the materials required on the work. The material brought at site for execution of the work shall not be removed without specific permission is obtained from the competent authority in writing.
2. He shall at his own expenses engage watchman for guarding the materials and the work during day and night against any pilferage or damage and also for prohibiting any tress passers till it is finally handed over to the building authority.

**Note:**All codes and standard referred in the specific action arelatest Where not specified otherwise the installation shall generally follow the Indian Standard codes of Practice or the relevant British standard codes of practice in the absence of corresponding Indian Standards.

###### LIST OF APPROVED MAKES

The Engineer-in-charge is at liberty to select any of the brands indicated below. The Contractor obtain prior approval from Engineer-in-charge. In charge before placing order for any specific material may approved order any of the 'Makes' or 'Brands' out of the list below.

All material should confirm to relevant standards and codes of BIS and shall have ISI mark.

In the case of items for which approved make / vendor is not given below.

The Contractor shall with the prior approval of the Engineer-In- charge. In charge procure the same of the first quality and satisfy the Engineer-ln-charge before use in the works. in case of Contradiction between the approved makes /vendors specified below and mentioned in the Specifications / Bill of quantities. The decision of the Engineer-in-charge shall be final and binding on the Contractor.

|  |  |  |
| --- | --- | --- |
| **Sr No.** | **Material** | **Approved Manufacturers** |
| 1 | Reinforced / Structural Steel | TISCO, SAIL, JSW, SAIL, ISPAT or equivalent |
| 2 | Cement | Ultratech, Birla A1, Wonder or equivalent. |
| 3 | Ceramic Tiles (1 "quality) | SPARTEK, REGENCY, KAJARIA, BELL, NITCO, AGL |
| 4 | Silica Granular Plaster | HERITAGE (M/s BackeliteHyiam Ltd.) |
| 5 | Paint | RENOVO, ASIANT, NEROLAC |
| 6 | Water Proofing Compound | FOSCROCK, IMPERMO |
| 7 | Pinsticizersetc, | MC BAUCHEMEL, FOSCORCK, PIDILITE CHEMISOL |
| 8 | Medium Density Filter | NUWUD Boards |
| 9 | Aluminum Sections | INDAL, HINDALCO, JINDAL |
| 10 | Polyester Sun Control film | GARWARE |
| 11 | Glass | SAINT GOBAIN |
| 12 | Hydraulic door closer | EVERITE, DOORKING, EVEREST |
| 13 | Other material Authorities | As per the approval of Architect / NAFED Authorities |

In addition to the conditions of contract described before, following General Conditions shall also be become part of this bid document and will latter become part of the Contract.

**Water Supply for Construction**

* The water procurement responsibility for construction work as well as drinking for labours etc. shall solely rest on the Contractor.
* In case the Contractor desires to have a bore well on the site of work and utilise the water available for the same, necessary permission m& be sought from the Engineer-in-charge subject to the condition that
* The cost of bore, piping and pumping machinery is borne by the Contractor and the use of water shall be allowed free of charge
* The quality of water is to be found suitable for construction / drink1:" after testing of the same in the approved laboratory.
* The borewell, piping and pumping machinery shall become k property of the employer after completion of the work without E-S claim for cost of the same by the Contractor.
* The availability of the water in sufficient quantity and of suitak quality shall be responsibility of the Contractor.
* Contractor to make his own arrangements for supply temperature piping etc. at his own cost.