

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.



Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

Volume - I (Conditions of Contact)

OWNER:
The Registrar,
SNTD Women's University,
1, NathibaiThackersey Road,
Churchgate, Mumbai 400 020.
Tel: +91-22-22031879,
[+91-22-22032159](tel:+91-22-22032159),
[E-mail-registrar@sntd.ac.in](mailto:Registrar@sntd.ac.in)

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Corrections

the Registrar

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

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SNTD Women's University

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TENDER NOTICE

Ref No.: Estate/ (R/J)-1/2022-23/02

Date:28TH April 2022

Dear Madam/Sir,

On behalf of The Vice Chancellor, **SNTD WOMEN'S UNIVERSITY** invites fresh **Percentage Rate** E-tenders for **“Repairing work and reconstruction of compound wall at SNTD Juhu Campus.”**

Tender forms can be seen on official web site of <https://sntd.ac.in/tenderand> and download from www.mahatender.gov.in_portal starting from 29TH April 2022 to 13TH May 2022 during working hours i.e., from 10:00 a.m. to 5:00 p.m. as per E- Tendering procedure described on portal

The sealed hard copy of tenders will be submitted on or before 13TH May 2022 up to 18.00 hrs. at Administration Building SNTD Women’s University, Nathibai Thackersey Road, Churchgate, Mumbai – 400 020 and online tender to be submitted as per schedule given on portal. Opening of tender will be held in Churchgate campus on 18TH May 2022, at 11.00 a.m. onwards. Contractors should remain present at the time of opening. **Any change in the opening time and date same will be communicated to all contractors on E-Tender Portal. The employer reserves the right to reject any or all tenders without assigning any reasons thereof. The Contractors are instructed to submit the tender on portal and submit the hard copy of tender document submitted online should also be submitted to our office as mentioned.**

E-T tender Schedule is as below:

Sr.No.	Critical Activities	Start Date & Time	End Date & Time
1	Publish Date	29 TH April 2022, 12.00 hrs.	29 TH April 2022, 18.00hrs.
2	Document download/ Sale Date	29 TH April 2022, 12.00 hrs.	13 TH May 2022, 18.00Hrs.
3	Bid Preparation	29 TH April 2022, 12.00 hrs.	13 TH May 2022, 18.00Hrs
4	Bid Submission	29 TH April 2022, 12.00 hrs.	13 TH May 2022, 18.00Hrs
5	Bid Opening	18 TH May 2022, 11.00 am	

Sd/

**The Registrar
SNTD Women’s University
1, Nathibai Thackersey Road,
Churchgate Campus.**

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1. DETAIL TENDER NOTICE

1.1 Sealed **Percentage Rate** tenders are invited from qualified Contractors for the work as per the following details:

1.1.1	Name and Location of Work	Repairing work and reconstruction of compound wall at SNTD Juhu Campus.
1.1.2	Estimated Cost of Tender	₹.99,91,000/- (₹. Ninety-Nine lacks Ninety-one thousand Only) GST extra as actual.
1.1.3	Cost of Tender	₹.1,00,000/-+ GST (₹. One thousand plus GST Only) (Nonrefundable) by online mode on portal
1.1.4	Scope of Work	Civil Work
1.1.5	Date of Commencement	Date of Work Order
1.1.6	Time of Completion	06 months (Six months including Monsoon) from the date of Work Order
1.1.7	Date and Place of Submission of Tender	On E Tender Portal as per given time Schedule and Hard copy on or before 13 th May 2022 upto 18.00 Hrs. at Administration Building SNTD Women's University, Nathibai Thackersey Road, Churchgate, Mumbai - 400 020
1.1.8	Time of Opening	18 th May 2022 at 11.00 a.m. onwards SNTD Women's University, Nathibai Thackersey Road, Churchgate, Mumbai - 400 020.
1.1.9	Earnest Money	₹.1,00,000/- (₹. One lacks Only) to be paid through Online Payment Modes as described on portal www.mahatender.gov.in .
1.1.10	Total Security Deposit	a) Total 2% of value of work (inclusive of all Taxes) b) 2% of which 50% to be paid at the time of agreement and 50% to be deducted from RA Bills.
1.1.11	Refund of security deposit	a) 50% of security deposit to be refunded after issue of certificate. Virtual completion. b) Balance 50% of security deposited to be refunded after expiry of defects liability period of 12 months and its proper discharge.
1.1.12	Additional Performance Security (Refer general condition no. 33, Page .43)	Addition performance security in the form of DD/FDR/BG of any nationalize/Scheduled bank only should be enclosed in Envelop no. 2 (as applicable).
1.1.13	Retention Money	The proportion of payments retained shall be 6% from each R.A. bill subject to a maximum of 5% of final contract price.
1.1.14	Defects Liability Period	12 months from date of Virtual Completion.
1.1.15	Liquidated Damage	(1/2000) th of the initial contract price rounded off to the nearest thousand per day.

Note: Contractor should quote the rate by considering Goods and Service Tax (GST)

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1.2 In the event of the tender being submitted by a firm, it must be signed by each proprietor/partner thereof, and in the event of the absence of any partner, it shall be signed on his behalf by a person holding a Power of Attorney authorizing him to do so.

1.3 Earnest Money

1.3.1 Earnest money deposit shall be treated as a token of the tenderer earnestness to carry out the work ₹.1,00,000/- (₹. One lacks Only) to be paid through Online Payment Modes as described on portal of www.mahatender.gov.in

1.3.2 In the event of his tender being accepted, subject to the provisions of sub clause (1.5) below, the said amount of Earnest Money shall be appropriated towards the amount of Security Deposit payable by him under the General Conditions of Contract or refunded if the total security deposit is furnished.

1.3.3 After submitting the tender the Contractor withdraws his offer or modifies the same, or after acceptance of his tender the Contractor fails or neglects to furnish the balance of Security Deposit, then, without prejudice to another rights and powers of the Owner hereunder, or in Law, the Owner shall be entitled to forfeit the full amount of Earnest Money deposited by him.

1.3.4 In the event of his tender not being accepted, the amount of Earnest Money deposited by the Contractor shall, unless it is forfeited under the provisions of sub-clause (1.3.2) above, be refunded to him on his passing receipt thereof.

1.4 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 receipts shall be signed in the name of the firm by one of the partners or by some other person having authority to give effectual receipts for the firm.

1.5 Tender which proposes, any alteration in the works specified in the said form of invitation of tender or in the time allowed for carrying out the work or which contains any other conditions of any sort is liable to rejection.

1.6 The tenders shall be opened in the presence of Contractors who have submitted tenders or their representatives who may be present at that time. In the event of a tender being accepted, the Contractor shall be present for the purpose of identification, sign copies of the specifications and other documents and the agreement. In the event of the tender being rejected, the Owner shall refund the amount of Earnest Money deposit to the unsuccessful Contractors on their letter of demand for refund EMD.

1.7 The Owner reserves the right of rejecting all or any of the tenders without assigning any reason and is not bound to accept the lowest or any other tender.

1.8 No receipt for any payment alleged to have been made by a Contractor in regard to any matter relating to this tender shall be valid and binding on the Owner unless it is signed by the Architect/ Owners Authorized representative.

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1.9 Tenders submitted without payment of Earnest Money Deposit will not be opened or accepted.

1.10 In case of any difference in the rates quoted in words and figures that given in words shall prevail.

1.11 The offer of the tenderer shall remain open for a period of **120 days from date of submission**. During the period no tenderer will be allowed to withdraw his tender.

1.12 The tender documents shall be submitted in a sealed inner cover and a sealed outer cover with the envelope, containing the Earnest Money placed in between. All the envelopes/covers shall be addressed to the **'The Registrar, SNTD Women's University'**, Churchgate, Mumbai with the name of the Contractor given in the bottom left-hand corner and superscribed Tender for **"Repairing work and reconstruction of compound wall at SNTD Juhu Campus."** The top most cover will be opened first. The cover containing the tender documents will only be opened if it is found that the Earnest money submitted by the tenderers is in the appropriate form.

1.13 This is a **percentage rate** tender.

1.14 Tenderer shall submit Rate Analysis of Civil Work items along with bid document at the time of submission.

1.15 Under circumstances Contractor is entitled to claim enhanced rates for items in this contract in during the execution.

1.16 All corrections and additions or pasted slips shall be initiated.

1.17 Tenderer should submit last 3 years audited financial statement duly signed by chartered Accountant.

1.18 No foreign exchange would be released by the Owner for purpose of construction materials, plants and machinery required for the execution of work contracted for.

1.19 The tenders are requested to submit to the University in writing (electronically or other way) before **13th May 2022** (asking for any clarification or any variations or modifications that they would like to be made in the tender documents. Thereafter an amendment will be issued stating clearly as to the final modifications of the conditions which are acceptable to the Owner. This amendment will form part of the contract and the tenderer will be required to quote accordingly.

1.20 Sign & Seal of Contractor

Every page of the tender document shall have the seal of the Contractor and initialed, and full signature where specifically indicated.

1.21 No loss/ compensation / damages shall be payable by the Employer / Owner to the Contractor / anyone if the work stopped by the order of any judicial / Higher Administrative authority.

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1.22 STUDY OF TENDER DOCUMENTS:

1.22.1 Upon submission of the Tender, it will be presumed that the Contractor has thoroughly studied the Tender document with all the terms, conditions, specifications, mode of measurements and drawings and has completely understood the nature, extent and scope of the work and is completely aware of his liabilities and responsibilities in respect of the contracted work.

1.22.2 In the event of any contradictions or inadequate clarity in this Tender document, these should be brought to the notice of the University before quoting, and got properly clarified. In any case, at all times, the interpretation and decision of the University shall be final and binding on the Contractor.

1.22.3 For the purpose of this Tender and subsequent construction Contract, any reference to the “The Registrar, SNTD Women’s University” shall be the duly authorized representative spokesman for the Board of Governors and the Building Committee of the project, with absolute final authority.

1.23 VISITS TO SITE OF WORK

The Contractor is expected to visit the site of work and personally see the site conditions regarding water, labour conditions, leads, lifts, soil conditions and strata and all other factors affecting the work before submitting the quotation. Leads, lifts and permissibility for disposal of excavated material shall also be studied and considered in the quotations. **No extras or escalation** shall be granted on account of any error of judgment or miscalculation misunderstanding scope of the work.

1.24 UN CONDITIONAL QUOTATION

Submitted Tenders shall NOT be subject to ANY conditions other than those stipulated in the Tender Document. Quoted rates and amounts shall be deemed to be completely unconditional and any conditional Tenders are liable to be rejected outright. Contractors are requested to abide by this instruction, in their own interest, for the purpose of enabling comparison between equals with complete parity. If any, observation, assumptions, suggestions are not required to be communicated; these may be separately addressed to the University without having any bearing or impact on the Item rate quotation in the sealed Tender, in the process of evaluation.

1.25 ONE BID FOR BIDDER ONE WORK:

Each bidder shall submit only one bid for one work. A bidder who submits or participates in more than one Bid (other than as a subcontractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the Bidder’s participation to be disqualified.

1.26 LANGUAGE OF THE BID:

All documents relating to the bid shall be in the English language.

1.27 CORRIGENDUM OF BIDDING DOCUMENT:

Before the deadline for submission of the bid the University may modified the bidding document by issuing corrigendum on portal. Bidder should read all the corrigendum before quoting the

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rates. University will not entertain any objection during tender opening or later stage of tendering process.

1.28 CURRENCY:

Currency used in contract and for billing is **Indian Rupees** only.

2.1 TENDER IS TO BE SUBMITTED IN TWO SEPARATE SEALED ENVELOPES AS BELOW: ENVELOPE NO. 1:

The first envelope clearly marked as "ENVELOPE NO. 1" shall contain the following documents.

- I. Information regarding Income Tax Circle/Ward/District in which he is assessed for income tax valid and up to-date. Income Tax Clearance Certificate (in original) from the Income Tax Officer, or true copy thereof duly attested.
- II. GST and PAN number.
- III. List and details of other works tendered for in hand with the value of work unfinished on the last date of submission and the List of executed/completed projects. The names of Clients, awarded value of works etc.
- IV. Names of Owner/Partners/Director of the Firm/Company and their addresses.
- V. List of Machinery and Plants immediately available with the Tenderer for use on this work and list of machinery proposed to be utilized on this work but not immediately available and the manner in which it is proposed to be procured.
- VI. Forwarding letter along with list of documents, forms, statements, specifications, etc.
- VII. Document required for prequalification for bidding as mentioned in detail in chapter no. 4
- VIII. Conditional tenders are liable to be summarily rejected.

2.3 ENVELOPE NO. 2: TENDER

The second envelope clearly marked as "ENVELOPE NO. 2" shall contain only the main tender, including the common set of conditions/stipulations, if any issued by the SNDT University and performance security as per clause 1.1.12 of Detail tender notice and in mentioned form thereof. Tenderer should quote his offer in Schedule 'B' (i.e., Volume-II) of the tender on **percentage above or below Estimated Cost** to be submitted only in Envelope no. 2. He should not quote this 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 also based on the detailed set of conditions issued if any, and/or any additional stipulations made by The SNDT Women's University.

2.4 SUBMISSION OF TENDER

The two sealed Envelopes no. 1 and 2 shall be again put together in one common cover and sealed. This sealed cover shall be marked on the left-hand top corner as Tender for "**Repairing work and reconstruction of compound wall at SNDT Juhu Campus.**", the full name and address of the tenderer and the name of the authorized Supervisor delivering the sealed cover containing the tender shall be **Repairing work and reconstruction of compound wall at SNDT Juhu Campus.**

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Tender shall be submitted to Owners Office as per Detailed Tender Notice 1.1.7

1.22.6 PERIOD OF DECISION

The Tenders shall remain open for acceptance for a period of 120 days from the date on which they are due for submission, or any other extended date for their receipt, and during this period NO Contractor shall be allowed to withdraw his tender.

1.22.7 IMPROPER AND INCOMPLETE TENDERS

i) Quotations shall be tendered on Percentage Rate Basis in the annexed Schedule of Item Quantities. Please read the PREAMBLES prior to the item descriptions and specifications carefully before quoting the rates. Specific Brands of materials have been prescribed in some items, while acceptable options of Brand specifications have been listed in Chapter 16 in the Tender.

ii) The quotations in the Tender shall be written clearly and shall be free from erasures, over-writing or conversions of figures. Corrections, where unavoidable, shall be made by crossing out, initialing and rewriting.

iii) Tenders received without Tender fee and EMD online payment receipt attached to the Envelope will NOT be accepted. Tenders received with any terms and conditions in variation with those stipulated in the Tender document shall NOT be considered.

1.22.8 ATTESTATION OF TENDER DOCUMENTS:

Contractors must RETURN the Tender Documents complete with the specifications, schedule of quantities, and drawings, with the percentage rates, and total amounts in figures and words, and every page duly signed. Seal and Signature of the Contractor should also be placed below the summary at the end of the Schedule of quantities. Any tender not bearing signature of the Contractor on all documents accompanying the Tender is liable to be rejected.

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ORIGINAL AGREEMENT NO. B-1/.....

NAME OF WORK : Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

- 1) Name of Contractor : _____
- 2) No. & Date of Work Order : _____
- 3) Amount put to Tender : ₹. _____
- 4) Rate quoted : _____
- 5) Amount of Contract : _____
- 6) Date of commencement : _____
- 7) Time stipulated for completion of work :
from the date of written order to start
work, which will include the monsoon
period.
- 8) Date of completion as per agreement : _____
- 9) Actual Date of Completion : _____
- 10) Reference to sanction of Extension of : 1)
time : 2)
3)

Certified that this original Agreement contains

Pages from to

Fly Leaves _____ Nos.

Drawings _____ Nos.

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ACKNOWLEDGEMENT BY TENDERER

To,

**The Registrar, (hereinafter referred to as the Owner).
SNDT Women's University,
1, Nathibai Thackersey Road,
New Marine Lines, Churchgate,
Mumbai 400 020**

Dear Sir / Madam,

I / We have visited the site, got all the information of site conditions and information regarding execution of contract, facilities available at site / offered by the University, read and examined all documents relating to the proposed work

- a. Notice inviting tender
- b. Prequalification form
- c. Articles of Agreement
- d. General Conditions of Contract
- e. Special Conditions of Contract
- f. General Specifications of Work
- g. Schedule of Quantities

I / We hereby tender for execution of the works referred to the in the aforesaid documents upon the terms and conditions contained or referred to therein and in accordance in all respects with the specifications, designs, drawings and other relevant details at the rate contained in the SCHEDULE OF QUANTITIES and within the period (s) of completion as stipulated in APPENDIX 'A' of the Special conditions of contract.

In consideration of I / we being invited to tender, I / we agree to keep the tender open for acceptance for 120 days from the due date of submission thereof and not to make any modification in its terms and conditions which are not acceptable to the Owner.

Online payment of **₹.99,91,000/- (₹. Ninety-Nine lacks Ninety-one thousand Only)** be done as describing E-tender notice. If I / we fail to keep the tender open as aforesaid or make any modification in the terms and conditions of the tender which are not acceptable to the Owner, I / we agree that the Owner shall, without prejudice to any other right or remedy, be at liberty to forfeit the amount of the above said earnest money absolutely. Should this tender be accepted, I / we agree to abide by and fulfill all the terms, conditions and provisions of the aforesaid documents.

If, after the tender is accepted, I / we fail to commence the execution of the works, as provided in the Special Conditions of Contract / we agree that the Owner shall, without prejudice to any other right or remedy, be at liberty to forfeit the above said earnest money absolutely.

I / we agree that should the Owner decide to forfeit earnest money as aforesaid, unless a sum equal to the earnest money sanctioned above is paid by us forthwith, the Owner may, at its option, recover it out of the deposit and in the event of deficiency, out of any other money due to me/us otherwise.

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DULY AUTHORIZED TO SIGN THE TENDER:

(ON BEHALF OF THE CONTRACTOR)

ADDRESS : _____

DATE : _____

PHONE NUMBER : _____

EMAIL ADDRESS : _____

WITNESS : _____

SIGNATURE IN THE CAPACITY OF : _____

ADDRESS : _____

DATE : _____

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

PRE-QUALIFICATION OF TENDERERS

Pre-Qualification of the Contractors for the Work of: Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

1. The Registrar, on behalf of the Vice Chancellor, SNTD Women's University, invited eligibility documents from firms/contractors of repute for Pre-qualification of the contractor for issue of tender for the following:

Sr. No.	Name of Work	Estimated Cost	Period of Completion
(1)	(2)	(3)	(4)
1.	Repairing work and reconstruction of compound wall at SNTD Juhu Campus.	₹.99,91,000/- (₹. Ninety-Nine lacks Ninety-one thousand Only)	06 months

2. Application supported by prescribed annexure along with supporting documents in physical form, shall be placed in sealed envelopes marked "**Pre-qualification Eligibility Documents**" and shall be submitted as described in Detail Tender notice.

3. Final Decision-Making Authority

SNTD Women's University reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the parties.

4. General:

4.1. All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particulars/query is not applicable in case of the party, it should be stated as "not applicable" or "N.A.". The parties are cautioned that not giving true and complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information shall result in the summarily disqualifying the party. Pre-qualification documents received late will not be entertained.

4.2. Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting. Pages of the eligibility criteria document shall be numbered. Additional sheets, if any added by the party, shall also be numbered. All the documents shall be sealed and signed by the party. They shall be submitted as a package with signed letter of transmittal.

4.3. References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the party shall be submitted along with the tender documents.

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4.4. The party may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. It is, however, advised not to furnish superfluous information. No information shall be entertained after submission of eligibility criteria document unless it is called for by the SNDT Women's University.

4.5. Any information furnished by the party found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/taking up of work in SNDT Women's University. If such party happens to be enlisted contractor in SNDT Women's University, it shall also be removed from the approved list of contracto ₹.

5. Criteria for eligibility:

Contractors who fulfill the following requirements shall be eligible for pre-qualification.

5.1. Should have satisfactorily completed the works as mentioned below during the last 5 years ending 31st March 2020

5.1.1. Average Annual turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost or more. **(Exception granted for lock down years)**

5.1.2. Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:(Exception can be considered for lock down years)

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

OR

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

OR

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

5.1.3. Definition of "similar work" should be clearly defined.

5.2. Should not have incurred any loss in more than two (2) years during the last 3 years ending 31st March 2020. This should be duly audited by a Chartered Accountant.

5.3. Should have a solvency of 50 lacs which should be certified by the bank.

5.4. Should have own constructions equipment as per list required for the proper and timely execution of the work. Else, he should certify that he would be able to manage the equipment by hiring etc., and submit the list of firms from whom he proposes to hire.

5.5. Should have sufficient number of Technical and Administrative employees for the proper execution of the contract. The party should submit a list of these employees stating clearly how these would be involved in this work.

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5.6. Financial information

5.6.1. Party should furnish the Annual financial statement for the last three (3) years. (i.e., 2018-2020)

5.6.2. Party should furnish solvency certificate in Form "B".

5.7. Experience in works highlighting experience in similar works

5.7.1. Party should furnish list of all works of similar nature successfully completed during the last Five years in Form "C".

5.7.2. Party should furnish list of the projects under execution or awarded in Form "D".

5.7.3. Particulars of completed works and performance of the party duly authenticated/certified by an officer not below the rank of Executive Engineer or equivalent should be furnished separately for each work completed or in progress in Form "E".

6. Selection criteria

6.1. SNDT Women's University reserves the right, without being liable for any damages or obligation to inform the party to reject any or all the applications without assigning any reason.

6.2. Any effort on the part of the party or his supervisor to exercise influence or to pressurize the SNDT Women's University would result in rejection of his application. Canvassing of any kind is prohibited.

6.3. The party should disclose details of arbitration / litigation cases, if any, is pending or in progress. Hiding of such information would result in summarily rejection of his bid without assigning any reason.

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Form B	
Form of Bankers' Certificate from a Nationalized/Scheduled Bank for Certifying the Solvency of the Party	
	This is to certify that to the best of our knowledge and information that M/s.....having marginally noted address, a customer of our bank are/is respectable and can be treated as good for any engagement up to a limit of

	Rupees
	This certificate is issued without any guarantee or responsibility on the bank or any of the office ₹.
Date:	(Signature)
	Authorized Bank Representative
Notes:	
1	Banker's certificates should be on letter head of the Bank.
2	In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

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<u>Form E</u>		
Performance Report of Works Referred to in Form C & Form D		
1	Name of the work / project location	:
2	Agreement No.	:
3	Estimated Cost	:
4	Tendered Cost	:
5	Date of Start of Work	:
6	Date of Completion of Work	:
i	Stipulated Date of Completion	:
ii	Actual Date of Completion	:
7	Amount of compensation levied for delayed completion, if any	:
8	Amount of reduced rate items, if any	:
9	Performance Report	:
i	Quality of Work	: Very Good / Good / Fair / Poor
ii	Financial Soundness	: Very Good / Good / Fair / Poor
iii	Technical Proficiency	: Very Good / Good / Fair / Poor
iv	Resourcefulness	: Very Good / Good / Fair / Poor
v	General Behaviour	: Very Good / Good / Fair / Poor
	Date:	(Signature)
		Authorized Client's Representative

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ARTICLES OF AGREEMENT

Agreement made at Mumbai this _____ day of 2022 BETWEEN “The Registrar, SNTD Women’s University, Mumbai” (hereinafter referred to as the Owner which expression shall include it **successors and assigns**) of the one part, AND, M/s _____ (Hereinafter referred to as the Contractor which expression shall include his heirs, Executors, Administrators & Assigns) of the other part.

WHEREAS the Owner is desirous of **E-TENDER FOR Repairing work and reconstruction of compound wall at SNTD Juhu Campus.**

NET TOTAL COST: ₹. _____

(In words ₹. _____ AND WHEREAS the Contractor has deposited as Security Deposit a sum of ₹. _____ (₹. _____) With the owner for the due performance of this agreement **as per clause no. 1.1.10** of detail tender notice.

NOW IT IS HEREBY AGREED AS FOLLOWS:

- 1) In consideration of the payments to be made to the contractor as hereinafter provided, he shall upon and subject to the said conditions execute and complete the works shown upon the said drawings and such further detailed drawings as may be furnished to him by the University and described in the said specifications and the said priced schedule of quantities.
- 2) The Owner shall pay the contractor such sums as shall become payable hereunder at the times and in the manner specified in the said conditions.
- 3) The drawings, specifications, and priced schedule of quantities above mentioned shall form the basis of this contract and the decision of the Engineers for the time being as mentioned in the conditions of contract in reference to all matters of dispute as to the material, workmanship or account and as to the intended interpretation of clauses of this agreement or any other document attached hereto shall be final and binding on both parties and may be made a Rule of Court.
- 4) The said contract comprises the constructions above mentioned and all subsidiary works connected therewith within the said site as may be ordered to be done from time to time by the said University for the time being even though such works may not be shown on the drawings of described in the said specifications or the priced schedule of quantities.
- 5) The Owner reserves to himself the right of altering the drawings and nature of the work and adding to or omitting any items of the work or of having portions of the same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudice to this contract.
- 6) The said conditions and appendix thereto shall be read and continued as forming part of this agreement and the parties hereto will respectively abide by and submit themselves

Sign & Seal of Contractor

Corrections

The registrar

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

to the conditions and stipulations and perform the agreement on their parts respectively in such conditions contained.

- 7) All disputes arising out of or any connected with this agreement shall be deemed to have arisen in Pune and only the Hon'ble Court in Pune shall have jurisdiction to determine the same.
- 8) The several parts of this contract have been read to us and fully understood by us.

As witness our hands this _____ day of 2022.

SIGNED BY THE SAID

OWNER

IN THE PRESENCE OF

1.

2.

SIGNED BY THE SAID

CONTRACTOR

IN THE PRESENCE OF

1.

2.

Repairing work and reconstruction of compound wall at SNDT Juhu Campus.

GENERAL CONDITIONS OF CONTRACT

1. COMPETANCY OF TENDER:

The work will be awarded only to those contractors who are considered to be substantially responsive bidders, capable of performing the class of work to be completed. Before passing the final award any or all bidders may have to show that they have the necessary experience, facilities, ability and financial resources to execute the work in satisfactory manner and also within the stipulated time.

2. PAYMENTS:

The tenderer must understand clearly that the rates quoted are for completed work and include all costs due to labour, all leads and lifts involved and if further necessitated, scaffolding plant, supervision, service works, power, royalties, octroi taxes etc. and to include all to cover the cost of lighting on night work if any and round the clock work as and when required and no claim for additional payment beyond the prices or rates quoted will be entertained and the tenderer shall not be entitled subsequently to make any claim on the ground of any representation or on any promise by any person (whether member in the employment of any University Department or not) or on the ground of any failure on his part to obtain all necessary information for the purpose of making his tender and fixing the several prices and rates therein relieve him from any risks or liabilities arising out of the tender.

(a) RUNNING BILLS:

Two payments in a month for bill up to ₹ 15,00,000/- (Fifteen lakhs) minimum will be granted by the Registrar if the progress is satisfactory. Contractor should submit bills to the University Engineer in appropriate forms.

(b) FINAL BILLS:

The contractor should submit final bill within one month after completion of the work and the bill will be paid within 3 months if it is in order. Disputed item and claims if any shall be excluded from the final bill and settled separately later on.

3. ERASER:

Person tendering is informed that no erasers of any alterations by them in the text of the documents set herewith will be allowed and any such eraser or an alteration will be disregarded. If there is any error in writing, no overwriting should be done but the wrong words or figures should be struck out and the correct one written above or near it in an unambiguous way. Such correction should be initialed and dated. Only Tender submitted on portal will be considered admissible and no claim shall be entertained on correction made on hard copy.

4. ACCEPTANCE:

Intimation of acceptance of tender will be given by a telegram or on phone or a letter sent by Registered Post to the address given below the signature of the tenderer in the tender. The tenders which do not fulfill any of the above conditions or those in the form and which are incomplete in any respect shall be liable for rejection.

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Corrections

The registrar

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5. PRECAUTIONS TO BE TAKEN BY THE CONTRACTOR TO PREVENT ACCIDENT:

- i) No live electric lines should be allowed to run along the ground in the blasting zone and they should be at least about 10 ft. above ground if not more.
- ii) The wiring cable should not be taken near the live electric line and it should be preferably shot firing cable as supplied by the supplier of explosives. If such a cable is not available a substitute cable recommended by the explosive suppliers should only be used. Under no circumstances should cable made up of several pieces jointed and tapped be used.
- iii) The blasting shed from where the exploder is to finally operated should be at least 150 meters away from the area to be blasted. It should have a strong roof which can with stand the impact of flying stones at this range.
- iv) Only trained hands should be allowed to handle explosives, cable detonators etc.

6.1 CONTRACTOR TO INFORM HIMSELF FULLY:

The contractors shall be deemed to have carefully examined the work and site conditions including labour, the general and special conditions, the specifications, schedules and 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 investigations to arrive at the rates quoted in the tender. In this regard, he will be given necessary information to the best of the knowledge of Department but without any guarantee about it.

If he shall have any doubt as to the meaning of any portion of these general conditions or the special condition, to the scope of working of 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 and submit them to the Engineer in writing in order that such doubts may be clarified authoritatively before tendering. Once a tender is submitted, the matter will be decided in accordance with tender conditions in the absence of such authentic pre-clarification.

6.2 ERROR, OMISSIONS AND DISCREPANCIES:

- (A) In case of errors, omissions and /or disagreement between written and scaled dimensions in the drawing or between the drawings and specifications etc., The following order of preference shall apply.
 - (I) Between actual scaled and written dimensions or descriptions on a drawing, the latter shall be adopted.
 - (II) Between the written or shown description of dimensions in the drawing and corresponding one in the specifications, the latter shall apply.
 - (III) Between the quantities shown in schedule of quantities and those arrived at from the drawings, the latter shall be preferred.
- (B) In all cases of omission and / or doubts of discrepancies in the dimensions or description of any item or specifications, a reference shall be made to the Engineer, whose elucidation, elaboration or decision shall be considered as authentic. The contractor shall be held responsible for any errors that may occur in the work through lack of such reference and precaution.

6.3 WORKING METHODS AND PROGRESS SCHEDULES:

- (a) The Contractor shall submit within the time stipulated by the Engineer-in-charge in writing the details of actual methods that would be adopted by the Contractor for the execution of any item as required by Engineer at each of the location, supported by necessary detailed drawing and sketches including those of the plant and machinery that would be used, their locations, arrangement for conveying and handling materials etc. and obtain prior approval of the Engineer-in-charge well in advance of starting of such item of work. The Engineer-in-charge reserves the right to suggest modifications or make corrections in the method proposed by the contractor, whether accepted previously or not, at any stage of the work to obtain the desired accuracy, quality and progress which shall be binding on the contractor. No claim on account of such change in method of execution will be entertained by Government so long as specifications of the item remain unaltered. The full responsibility for the safety and adequacy of the methods adopted by the contractor shall however, rest on the contractor, irrespective of any approved given by the Engineer.

In case of slippage from the approved work 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.

PROGRESS SCHEDULE

- (b) The Contractor shall furnish within the period stipulated in writing by the Engineer-in-charge of the order to start the work, progress schedule using PERT/CPM technique in quadruplicate indicating the date of actual start, the monthly progress expected to be achieved and anticipated completion date of each major item of work to be done by him, also indicating and setting up materials, plants and machinery. The schedule is to be such as is practicable of achievement towards the completion of the whole work in the time limit and of the particular items, if any on the due date specified in the contract and shall have the approval of the Engineer-in-charge. No revised schedule shall be operative without such acceptance in writing. The Engineer is further empowered to ask for more detailed schedule or schedules in weekly form, for any item or items, in any case of urgency of work as will be directed by him and the contractor shall supply the same as and when asked for.
- (c) The Contractor shall employ sufficient plant, equipment and labour as may be necessary to maintain the progress 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 be approved by the Engineer-in-charge. They shall not be varied without the prior approval of the Engineer. Night work requiring supervision shall not be permitted except when specifically allowed by Engineer on each item, if requested by Contractor. The Contractor shall provide necessary lighting arrangements etc. for night work as directed by the Engineer without extra cost to Government.

Further, the contractor shall submit the progress of work in prescribed forms and charts etc. at periodical intervals, as may be specified by the Engineer-in-charge. Schedule shall be in the form of progress charts, forms, progress statement and/or reports as may be approved by the Engineer. The contractor shall maintain proforma, charts, details regarding machinery, equipment, labour, materials, personnel etc. as may be specified by the Engineer and submit periodical returns thereof as may be specified by the Engineer-in-charge.

Repairing work and reconstruction of compound wall at SNDT Juhu Campus.

- (d) The Contractor shall be required to give a trial run of the equipment's for 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.

6.4 TREASURE TROVE:

In the event of discovery by the Contractor or his employees, during the progress of the works of any treasure, fossils, minerals or any other articles or value of interest, the Contractor shall give immediate intimation thereof to the Engineer such treasure of things which shall be the property of the Government.

6.5 SUPERVISOR AND WORK ORDER BOOKS: -

The contractor shall himself engaged an authorized all time Supervisor on the work who will be capable of managing and guiding the work and understand the specifications and contract condition. A qualified and experienced, Engineer shall be employed by the contractor as his Supervisor for technical matters in case the Engineer-in-charge considers this as essential for the work and so directs contractor. He will take orders as will be given by the University Engineer or his representative and shall be responsible for carrying them out.

This Supervisor shall not be changed without prior intimation to the University Engineer and his representative on the work site. The University Engineer has the unquestionable right to ask for change in the quality and strength of contractor's supervisory staff and to order removal from work of any of such staff. The contractor shall comply with such orders and effect replacements to the satisfaction of the University Engineer.

A work order book shall be maintained on site and it shall be the property of the University and the contractor shall promptly sign orders given therein by the University Engineer or his representative and his superior officers and comply with them. The compliance shall be reported by the Contractor to the Engineer in good time so that it can be checked. The blank work order with machine numbered pages will be provided by the Department free of charge for this purpose. The contractor will be allowed to copy out instructions therein from time to time. The order issued by the Government in University from time to time regarding Construction procedure shall be binding on the contractor in addition to the specifications contained in P.W.D. hand book Volume I and II and book of standard specification of P.W. Department and the specifications enumerated above.

6.6 INITIAL MEASUREMENTS FOR RECORD: -

Where for proper measurement of work, it is necessary to have initial set of levels or other measurements taken, the same as recorded in the authorized field book or measurement book of University by the Engineer or his authorized representative will be signed by the Contractor who will be entitled to have a true copy of the same made at his cost. Any failure on the part of the Contractor to get such levels etc. recorded before starting the work will render him liable to accept the decision of the Engineer as to the basis of taking measurements. Like-wise the Contractor will not cover any work which will render its subsequent measurements difficult or impossible without first getting the same jointly measured by himself and the authorized representative of the University Engineer. The record of such measurements on the Government side will be signed by the Contractor and he will be entitled to have a true copy of the same made at his cost.

6.7 HANDING OVER OF WORK:

All the works and materials before finally taken over by university it will be the entire liability of the Contractor to guard, maintain and make good any damage 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 University Engineer or his authorized representative will be always in writing copies of which will go to the University Engineer or his authorized representative and the Contractor. It is however, understood that before taking over such 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.

6.8 ASSISTANCE IN PROCURING PRIORITIES, PERMITS ETC:

The Engineer on a written request by 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 University will not however be responsible for the non-availability of such facilities or delays on this behalf and no claims on account of such failure of delays shall be allowed by the University.

The Contractor shall have to make his own arrangement for machinery required for the work.

7. SAMPLES AND TESTING OF MATERIALS:

- i** All materials to be used on work, such as cement, lime, aggregates, stone, asphalt, etc. shall be got approved in advance from the Engineer-in-charge and shall pass the tests and analysis required by him, which will be:

 - (a) as specified in the specifications of the items concerned and / or
 - (b) Red book
 - (c) as specified by the Indian Road Congress Standard Specification and code of practice for Road and Bridges or
 - (d) I.S.I. Specifications (whichever and wherever applicable) or
 - (e) As per M.O.R.T. & H specifications for Roads and Bridges latest edition Section 900 quality control for road work.
 - (f) Such recognized specifications acceptable to the University Engineer as equivalent there to or in the absence of such authorized specifications.
 - (g) Such requirements test and/or analysis as may be specified by the Engineer-in-charge in the order of procedure given above.
- ii** The Contractor shall at his risk and cost make all arrangement and/or shall provide for all such facilities as the Engineer-in-charge may require for collecting, preparing required number of samples for test or analysis at such time and to such places as may be directed by Engineer and bear all such charges, such samples shall also be deposited with University Engineer.
- iii** The Contractor shall as and when required submit at his cost the samples of materials to be tested or analyzed and if, so directed, shall not make use of or incorporate in the work any material represented by the samples until the required test or analysis have been made and after the test of the materials, finally accepted by the Engineer-in-charge.

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- iv The contractor shall not be eligible for any claim or compensation either rising out of any delay in the work or due to any corrective measure required to be taken on account of and as a result of testing of the materials.
- v The contractor or his authorized representative will be allowed to remain present in the Department laboratory which testing the samples furnished by him. However, the results of all the tests carried out in the Departmental laboratory whether in the presence or in absence of the contractor or his authorized representative will be binding on the contractor.
- vi **Quality Control Tests: -**
The contractor shall at his own cost set up Laboratory at site of work to carry out the testing of materials which are to be used for the work. This laboratory shall be approved by the University Engineer. The testing shall be done as per frequencies mentioned in the specification/additional specification of each item of Schedule 'B'. The 30% of the test included in **Annexure 'A' (On Page No. 53)** shall be carried out in Vigilance and Quality Control Laboratory at the cost of contractor and balance 70% in the site laboratory. The test which are not included in Annexure 'A' 50% test shall be carried out each in Vigilance and Quality Control laboratory and site laboratory. The frequency of testing of construction materials is mentioned in **Annexure-B on Page No. 54 to 55**
- vii In case of material procured by the contractor, testing as required by the Codes and Specifications shall be arranged by him at his own cost. Testing shall be done in the presence of authorized representative of the **University Engineer**, at the nearest approved laboratory. If additional testing other than as required by specification is ordered, the testing charges, shall be borne by the Department, in case the test results are satisfactory and by the contractor if the same are not satisfactory.
- viii In case of materials specified by the Government, if the contractor demands certain testing, the charges thereof shall be paid by the contractor if the testing results are satisfactory and the Department if the same are not satisfactory.
- ix Contractor shall have testing machinery/apparatus in his possession.
(As applicable for work)

7.1 **QUALITY CONTROL ON WORKS AND MATERIALS:**

The Contractor shall be responsible for the quality of the work in the entire construction work within the contract. He shall, therefore, have his own independent and adequate set up for ensuring the same. This shall include establishing field laboratory for testing required for works. The laboratory shall be equipped with the equipment's and apparatus required for the testing. This equipment's shall be in working condition. The University Engineer of the work will verify these equipment's in the laboratory at site. The work shall not be started unless and until the laboratory is equipped with equipment's.

7.2 CO-ORDINATION:

When several agencies for different sub-works of the project are to work simultaneously on the project site, there must be full coordination between the contractors to ensure timely completion of the whole project smoothly. The scheduled dates for completion specified in each contract shall therefore, be strictly adhered to. Each contractor may make his independent arrangements for water, power, housing etc. if they so desire. On the other hand, the Contractor are at liberty to come to mutual agreement in this behalf and make joint arrangements with the approval of the Engineer. No Contractor shall take or cause to be taken any steps or action that may cause disruption, discontent, or disturbance of work, labour or arrangement etc. of the contractor in the project localities. Any action by any Contractor which the Engineer in his unquestioned discretion may consider as infringement of the above code would be considered as a breach of the contract conditions and shall be dealt-with accordingly.

In case of any dispute of disagreement between the Contractors, the Engineer's decision regarding the co-ordination, co-operation and facilities to be provided by any of the Contractor shall be final and binding on the contractors concerned and such a decision shall not vitiate any contract nor absolve the Contractor of his obligations under the contract nor consider from the grounds for any claim or compensation.

7.3 TEMPORARY QUARTER AND SITE OFFICE

- I) The Contractor shall at his own expense maintain sufficient experienced supervisory staff etc. required for the work and shall make his own arrangements for housing such staff with all necessary amenities outside the University campus.
- II) The contractor shall provide furnish, maintain and remove on completion of the work; a suitable office on the work site for the use of University Engineer or his representative. The covered area exclusive of verandah should not be less than 40.00 sqm. It may have brick walls and asbestos or corrugated iron roof; paved floor should be 45 cm. above ground level. He should provide latrines, urinals and keep them clean daily. This will be supposed to be included in his offer.

7.4 PATENTED DEVICES, MATERIALS AND PROCESSES:

When the Contractor desires to use any designed device, materials or process covered by letter of patent or copy right, the right for such use should be secured by suitable legal arrangement and agreement with patent owner and a copy of their agreement shall be filed with the University Engineer if so desired by the latter.

7.5 WATER SUPPLY:

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

The Contractor shall make his own arrangements at his own cost for entering into contract with concerned authorities for obtaining the connection and carry the water up to the work site as required by him. The location of the pipe line with respect to the road shall be decided by the university engineer and shall be binding on the Contractor.

The Contractor is advised to provide water storage tank of adequate capacity to take care of possible shutdown of water supply system.

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7.6 ELECTRICITY:

The Contractor will have to make his own arrangement at his own cost for obtaining or providing electric supply at work site.

8. SAFETY MEASURES AND AMENITIES:

8.1 SAFETY MEASURES:

The Contractor shall take all necessary precautions for the safety of the workers and preserving their health while working on such job as require special protection and precautions wherever required. The following are some of the requirements listed, though not exhaustive. The contractor shall also comply with the directions issued by the Engineer in this behalf from time to time and at all times.

- (i) Providing protective foot-wear to workers, in situations like mixing and placing of mortar or concrete, in quarries and place where the work is to be done under too much wet conditions as also for movements over surfaces infected with oyster growth etc.
- (ii) Providing protective headwear to workers, working in quarries etc. to protect them against accidental fall of materials from above.
- (iii) Taking such normal precautions like providing hand rails to the edges of the floating platform or barges, not allowing nails or metal parts or useless timber to spread around etc.

8.2 AMENITIES:

- (i) Supporting workmen with proper belts, ropes etc. when working on any masts, cranes, grabs, hoist, dredger etc.
- (ii) Taking necessary steps towards training the workers concerned of 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.
- (iii) Avoiding bare live-wires etc. as would electrocute worker.
- (iv) Making all platforms, staging and temporary structures sufficiently strong and not causing the workmen and supervisory staff to take undue risks.
- (v) Providing sufficient first aid trained staff and equipment to be available quickly at the work site to render immediate first aid treatment in case of accidents due to suffocation, drowning and other injuries.
- (vi) Providing full length gum boots, leather hand gloves, leather jackets with fireproof aprons to cover the chest and black reaching up to knees plain goggles for the eyes to the labour working with hot asphalt handling vibrators in cement concrete and also where use of any or all these items is, essential in the interest of health and well-being of the labourer in the opinion of the Engineer.

8.3 EXPLOSIVE:

The Contractor shall at his own expense construct and maintain proper magazines, if such are required for the storage of explosives for use in connection with the work and such magazines, being situated constructed and maintained in accordance with the Government Rules applicable in that behalf. The Contractor shall at his own expenses obtain such license or licenses as may be necessary for storing and using explosives. Notwithstanding that the location etc. or storage of explosives are approved by the Engineer , the University , shall not bear any responsibility whatsoever in connection with the storage and use of explosives on the site or any accident or occurrence what -so-ever in connection, therewith, all operations of the Contractor in or for which explosives employed being at the risk of contractor and upon his sole responsibility and the Contractor hereby gives to University an absolute indemnity in respect thereof.

8.4 DAMAGE BY FLOODS OR ACCIDENTS:

The contractor shall take all precautions against damage by floods or from accident 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 make good at his cost any plant or materials belonging to the University lost or damaged by floods or from any other cause while is in his charge.

8.5 RELATION WITH PUBLIC AUTHORITIES:

(i) The Contractor shall comply with all rules, regulations, bye-laws and directions given from time to time by any local or public authority in connection with this work and shall himself pay all charges which are leviable on him without any extra cost to the University.

(ii) **POLICE PROTECTION:**

For the Special Protection of camp of the Contractor's works, the University 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.

8.6 INDEMNITY:

The Contractor shall indemnify the University against all actions, suits, claims and demands brought or made against it 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 University in consequence to any action or suit being brought against the Contractor for anything done or committed to be done during the execution of this contract.

The University may at its discretion and entirely at the cost of the contractor defend such suit, either jointly with the Contractor or single in case the latter chooses not to defend the case.

8.7 EDICAL AND SANITARY ARRANGEMENTS TO BE PROVIDED FOR LABOUR EMPLOYED IN THE CONSTRUCTION BY THE CONTRACTOR

a) The Contractor shall provide an adequate supply of pure and wholesome water for the use of labourer on work and in camps.

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- b)** The Contractor shall construct trench or semi-permanent latrines for the use of the Labour. Separate latrines shall be provided for men and women.
- c)** The Contractor shall build sufficient number of huts on a suitable plot of land for use of the labourer according to the following specifications: -
1. Huts with Bamboo's and Grass may be constructed.
 2. A good site not liable to submergence shall be selected on high ground remote from jungle but well provided with tress, shall be chosen wherever it is available. The neighborhood of tank, jungle, trees or wood should be particularly avoided; Camps should not be established close to large cutting of earth work.
 3. The lines of huts shall have open space 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 3 Sq. meter per head shall be provided. Care should be taken to see that the huts are kept clean and in good order.
 5. The University does not bind itself for making available the required land to the contractor for labour campus.
 - a) The Contractor shall construct a sufficient number of bathing places, washing places should also be provided for the purpose of washing clothes.
 - b) The Contractor shall engage a Medical Officer with a travelling dispensary for a Camp containing 500 or more persons if there is no Government or other private dispensary situated with 8 Kms. from the camp. In case of emergency the Contractor shall arrange this cost of transport for quick medical help to his sick worker.
 - c) The Contractor shall provide the necessary staff for effecting satisfactory conservancy and cleanliness of the camp to the satisfaction of the University Engineer. At least one sweeper per 200 persons should be engaged.
 - d) The Assistant Director of Public Health shall be consulted before opening a labour camp and his instruction on matters such as water supply, sanitary conveniences, the camp site accommodation and food supply shall be followed by the Contractor.
 - e) The Contractor shall make arrangements for all ant malarial measures to provide for the labours employed on the work. The ant malarial measures shall be provided as directed by the Assistant Director of Public Health.

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- f) The anti-malaria and other health measures shall be as directed by the Joint-Director (Malaria and Filarial) Health Services, Pune.
- g) Contractor shall see that mosquito genic conditions are not created so as to keep vector populations to minimum level.
- h) 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.
- i) In case of default in carrying out prescribed antimalaria measures resulting in increase in Malaria incidence, contractor shall be liable to pay to Government the amount spent by Government on anti-malaria measure to control the situation in addition to fine.
- j) The Contractor shall make sufficient arrangements for draining away the surface and sullage water as well as water coming from the bathing and washing places and shall dispose of this waste water in such way as not to cause any nuisance. He shall also keep the premise clean by employing sufficient number of sweepers.
- k) The Contractor shall comply with all rules, regulation bye-law and directions given from 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.
- l) In addition to above all provisions of the relevant labour act pertaining to basic amenities to be provided to the labourer shall be applicable which will be arranged by the Contractor.

9. MISCELLANEOUS:

- 9.1 For providing electric wiring or water lines etc. recesses shall be provided, if necessary, through walls, slabs, beams etc. and later on refilled it with bricks or stones, chipping cement mortar without any extra cost.
- 9.2 In case it becomes necessary for the due fulfillment of contract for the Contractor to occupy land outside the Department limits, the Contractor will have to make his own arrangements with the land owners and pay such rents, if any, are payable as mutually agreed between them.
- 9.3 The Contractor shall duly comply with the provision of the Apprentices Act 1961 (iii of 1961) and the rules and orders made thereunder from time to time under 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 Rules.

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- 9.4 It is presumed that the Contractor has gone carefully through the Standard Specification (Vol. I & II 1981 Edition) M.O.R.T.& H specifications (edition 2001) and Schedule of Rate of the PWD division, and studied the site conditions before arriving at rates quoted by him. The special provisions and detailed specification of wording of any item shall gain precedence over the corresponding contrary provisions (if any) in the standard specification given without reproducing the details in contract. Decision of University Engineer shall be final in case of interpretation of specification.
- 9.5 If the standard specifications fall short for the items quoted in the schedule of this contract reference shall be made to the latest Indian Standard specifications, I.R.C. codes. If any of items of this contract do not fall in reference quoted above, the decision and specifications as directed by the Engineer-in-charge shall be final.
- 9.6 The stacking and storage of building materials at site shall be in such a manner as to prevent deterioration or inclusion of foreign materials and to ensure the preservation of the quantity, properties and fitness of the work. Suitable precautions shall be taken by Contractor to protect the materials against atmospheric action 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 likelihood of subsidence of soil, heavy materials shall be stored on paved platforms. Suitable separating barricades and enclosure as directed shall be provided to separate materials brought by contractor and from different sources of supply.

10. **DEFINITIONS:**

Unless excluding by or repugnant to the context:

- a) The expression "University" as used in the tender documents shall mean the **"Shreemati Nathibai Damodar Thackersey Women's University"**.
- b) The expression "The University Engineer" as used anywhere in the tender papers shall mean officer for the time being of the SNDT Women's University who is designated as such.
- c) The expression "Engineer" or "Engineer-In-Charge" as used in the tender papers shall mean the University Engineer of the work.
- d) The expression "Contractor" as used in the tender papers shall mean the successful tenderer that is the tenderer whose tender has been accepted, and who has been authorized to proceed with the work.
- e) The expression "Contract" as used in the tender papers shall mean the deed of contract together with or its original accompaniment and those later incorporated in it by mutual consent.
- f) The expression "Plant" as used in the tender papers shall mean very temporary and necessary means necessary or considered necessary by the Engineer to execute, construct, complete and maintain the works and used in altered, modified, substituted and additional works ordered in the time and in the manner herein provided and all temporary materials and special and other articles of appliances of every sort, kind and description whatsoever intended or used therefore.
- g) The expression "Department" as used in the tender papers shall mean Estate Department of the University.
- h) The "Accepting authority" shall mean the officer competent to accept the tender.

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- i) The "Site" shall mean the land and/or other places where the work is to be executed under the contract including any other land or places which may be allotted by the University or use for the purpose of contract.

11. TESTING ETC.:

The Contractor shall be responsible for the quality of the work in the entire construction work within the contract. He shall, therefore, have his own independent and adequate setup for ensuring the same. This shall include establishing field laboratory for testing required for concrete works.

12. AUTHORITIES OF THE UNIVERSITY ENGINEER:

Save in so far as it is legally or physically impossible the Contractor shall execute, complete and maintain the works in strict accordance with the contract under the directions and to the entire satisfaction of the University Engineer and shall comply with and adhere strictly to the University Engineer instructions and directions on any matter (Whether mentioned in the contract or not) pertaining to this works.

The University Engineer shall decide all questions which may arise as to quality and acceptability of materials furnished and work executed, manner of execution, rate of progress of the works, interpretation of the plans and specifications and acceptability of fulfillment of the contract on the part of the Contractor. He shall determine the amount and quantity of work performed and materials furnished and his decision shall be final. In all such matters, and in any technical questions which may arise touching the contract, his decision shall be binding on the Contractor.

The University Engineer shall have the power to enforce such decisions and orders if the Contractor fails to carry them out promptly. If the Contractor fails to execute the work ordered by the Engineer-in-charge. The University Engineer may give notice to Contractor specifying a reasonable period therein and on the expiry of that period proceed to execute such work as may be deemed necessary and recover the cost there of from the Contractor.

12.1 AUTHORITIES OF THE UNIVERSITY ENGINEER'S REPRESENTATIVE

The duties of the representative of the University Engineer are to watch and supervise the work and to test and examine any material to be used for workmanship employed in connection with the works.

12.2 The Engineer-in-charge may from time to time, in writing delegate to his representative any of the 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 instruction 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 Department as though it had been given by the Engineer-in-charge , provided always as follows.

- a) Failure of the representative of the Engineer-in-charge to disapprove any work or material shall not prejudice the power of the Engineer-in-charge thereafter to disapprove such work or materials and to order to pulling down, removal or breaking up thereof.
- b) If the Contractor is dissatisfied with any decision of the Representative of the Engineer-in-charge he shall be entitle to refer the matter to the Engineer-in-charge, who shall there upon confirm/reverse or vary such decision.

13. LAY OUT OF WORK:

Layout of the work will be done by the Contractor in consultation with the University Engineer of the Department or his representative, some permanent marks should however be established to indicate the demarcation of the structure or any component thereof made to this permanent marks in measurement books and drawing signed by the contractor and the departmental officer, Responsibility regarding layout will be joint.

14. SETTING OUT

14.1 BUILDING WORKS: -

The Engineer-in-charge shall furnish the contractor with only the four corners of the works site and a level bench mark and the contractor shall set out the works and shall provide an efficient staff for the purpose and shall be solely responsible for the accuracy of such setting out.

The contractor shall provide, fix and be responsible for the maintenance of all stacks, templates, level marks, profile and other similar things and shall take all necessary precautions to prevent their removal or disturbance and shall be responsible for the consequence of such removal or disturbance, should the same take place and for their efficient and timely reinstatement. The contractor shall also be responsible for the 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 satisfaction of the Engineer-in-charge. The approval thereof or joining with the contractor by the Engineer-in-charge in setting out the work, shall not relieve the contractor of any of his responsibilities.

Before beginning the work, the contractor shall at his own cost provide all necessary reference and level posts, pegs, bamboos, flags, ranging rods, strings and other materials for proper layout of the work in accordance with the scheme for bearing marks acceptable to the Engineer-in-charge. The center, longitudinal or face lines and cross lines shall be marked by means of small masonry pillar. Each pillar shall have distinct mark at the center to enable the theodolite to be set over it. No work shall be started until all these points are checked and approved by the Engineer-in-charge in writing but such approval shall not relieve the contractor of any of his responsibilities. The contractor shall also provide all labour, material and other facilities, as necessary, for the proper checking of layout and inspection of the points during construction.

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

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

14.2 RESPONSIBILITIES FOR LEVEL AND ALIGNMENT:

The contractor shall be entirely and exclusively responsible for the horizontal and vertical alignment, the levels and correctness of every part of the work and shall rectify effectually any errors or imperfections therein, such rectifications shall be carried out by the contractor, at his own cost, when instructions are issued to that effect by the University Engineer.

15. If measurements of items of the work are based on volumetric measurements calculated from levels taken before and after the construction of the item, a large number of leveling staves, tapes etc. will have to be kept available by the contractor at the site of the work for

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this purpose. Lack of the such leveling staves, tapes etc. in required numbers may case delay in measurements and the work. The contractor will have therefore to keep sufficient numbers of these instruments readily available at site and in good working condition.

16. STACKING AND STORAGE AND GUARDING OF MATERIALS:

16.1 The stacking and storage of 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 materials against atmospheric action, 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, heavy materials shall be stored on paved platforms.

Suitable separating barricades and enclosures as directed shall be provided to separate materials brought by Contractor and materials issued by University to Contractor under Schedule "A" Same applies for the material obtained from different sources of supply.

16.2 The Contractor shall at his own expense engage watchman for guarding the materials and plant and machinery and the work during day and night against any pilferage or damage and also for prohibiting trespasser.

16.3 No materials brought to the site shall be removed from the site without the prior approval of the Engineer-in-charge.

17. INSPECTION OF WORKS

17.1 The Contractor shall inform the Engineer-in-charge in writing when any portion of the work is ready for inspection giving him sufficient notice to enable him to inspect the same without affecting the further progress of the work.

17.2 The Contractor shall provide at his cost necessary ladders and such arrangements as are considered safe by the Engineer-in-charge for proper inspection of all parts of the work.

17.3 Contractor shall extend his full co-operation and make all necessary arrangements when needed for carrying out inspection of the work or any part of the work by the University officials. No compensation shall be paid to the contractor on this account.

17.4 The work shall be carried out by the Contractor without causing damage to the existing University property and / or private property. If any such damage is caused, the Contractor shall pay for restoration of the property to the original conditions, and any other consequent damages.

17.5 In the event of the occurrence of an accident involving serious injuries or death of any person, at site of work or quarry or at any place in connection with the work the same shall be reported in writing within twenty four hours of the occurrence to the Engineer-in-charge and Commissioner of Workmen's compensation.

17.6 The Contractor after completion of work shall clean the site of all debris and remove all unused materials other than those supplied by the department and all plant and machinery, equipment, tools etc. belonging to him within one month from the date of completion of the work, or otherwise the same will be removed by the department at his cost or disposed off as per departmental procedure. In case the material is disposed off by the department, the sale proceeds will be credited to the Contractor's account after deducting the cost of sale incurred.

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However, no claim of Contractor regarding the price or amount credited will entertained afterwards.

- 17.7 All constructional plant, provided by the Contractor shall when brought on to the site be deemed to be exclusively intended for the construction and the contractor shall not remove the same or any part thereof (save for the purpose of moving it from one part of the site to another) without the consent in writing of the Engineer-in-charge who shall record the reasons for withholding the consent.

18. RESTRICTIONS BECAUSE OF LOCAL TRAFFIC:

As there is local traffic by the side of construction during construction for the building, the Contractor will have to take proper precautions such as proper barricading, fencing, lighting, information and cautionary boards for safe and smooth flow of traffic, and keeping the concerned authorities informed about the work in progress.

19. COMPLETION CERTIFICATE:

- 19.1 The work shall not be considered to have been completed in accordance with the 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 from even rejecting the work which is claimed to be complete and to suspend the issue of his certificate of completion until such alteration and modifications or reconstruction have been affected at the cost of the Contractor as shall enable him to certify that the work has been completed to his satisfaction.

- 19.2 After the work is 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 Engineer-in-charge are rectifiable he shall inform the Contractor the defects noticed. The Contractor after rectification of such defects shall then inform the Engineer-in-charge and Engineer-in-charge on his part shall inspect the work and issue the necessary completion certificate within 30 days if, the defects are rectified to his satisfaction, and if not, he shall inform the Contractor indicating defects yet to be rectified. The time cycle as above, shall continue.

- 19.3 In case defects noticed by the Engineer-in-charge which in his 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-charge within 30 days indicating the un-rectifiable defects for which reduction in payment is being made by him.

- 19.4 The issue of completion certificate shall not be linked up with the site clearance on completion of the work.

20. ANCILLARY WORK:

The Contractor shall submit to Engineer-in-charge in writing the details of all ancillary works including layout and specifications to be followed for its construction. Ancillary work shall not be taken up in hand unless approved by Engineer-in-charge. The Engineer-in-charge reserves the right to suggest modifications or make complete changes in the layout and specifications proposed by the Contractor at any stage to ensure the

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safety on the work site. The Contractor shall carry out all such modifications to the ancillary works at his own expenses as ordered by Engineer-in-charge.

21. SPECIAL CONDITIONS:

21.1 The Contractor should ensure that all safety precautions are observed by their labours, working closed to the State Highway and while closing the State Highway precautions are taken including insurance etc., for their labour at the cost of the contractor and the contractor will bear all the expenses, compensation etc. if any accident occurs to the labour etc. No claim in this regard on whatsoever account shall be entertained and this decision of the Department will be final and conclusive.

21.2 The Contractor shall observe the rules and regulation imposed by traffic police for smooth flow of traffic on the diversion road and shall not be entitled for claims any compensation arising thereof.

In case of delay in handing over the land required for the work, due to unforeseen cause, the Contractor shall not be entitled for any compensation what-so-ever form the Government on ground that the machinery or labour was idle for certain period. Contractor may, however apply for extension of time limit which may be granted on the merit of the case.

22. REJECTION OF MATERIALS NOT CONFORMING TO SPECIFICATIONS:

Any stock or batch of material(s) of which sample(s) does not conform to the prescribed test and quality, shall be rejected by the Engineer or his representative and such materials shall be removed from site by the Contractor at his own cost. Such rejected materials shall not be made acceptable by any modifications.

Materials not corresponding in character and Quality with approved samples will be rejected by the Engineer or his representative and shall be removed from site at the Contractor's own cost.

23. INSPECTION OF OPERATIONS:

The Engineer and any person authorized by him shall at all times have access to the works and to all workshops and places (including required documents) where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the Contractor shall afford every facility for & every assistance in or in obtaining the right to such access.

24. FIELD LABORATORY:

The Contractor shall arrange to provide a well-furnished and fully equipped field laboratory which shall be manned by adequately qualified technical staff. The laboratory shall preferably be located adjacent to the plant site and shall be provided with amenities like water supply, electric supply, toilet block etc. The list of equipment is enclosed. This shall be considered as incidental to work and no separate payment whatsoever will be made for the same.

25. SUPPLY OF COLOURED RECORD PHOTOGRAPHS AND ALBUMS:

The Contractor shall arrange to take dated post card size-colored photographs at various stages/facts of the work including interesting and novel features of the work as desired by the Engineer-in-charge and supply them in five copies each in separate albums of appropriate size. He shall also arrange for the Video Filming of important activities of the

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work during the currency of the contract and edit it to a video film of 60 to 180 minutes playing time.

It shall contain 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 color pictures. This shall be considered as incidental to the work and no additional payment whatsoever will be made for the same.

26. SUPPLY OF SAFETY JACKETS TO LABOURERS/ SUPERVISORS/ ENGINEERS

As a safety measure during the execution of work all labours, construction and supervisory staff shall be provided with an orange color jacket in fluorescent blue so as to make them starkly visible from a distance even during evening hour.

27. APPROVAL OF CONSTRUCTION MATERIALS AND CONSTRUCTION ACTIVITIES:

Approval of all materials for the work shall be obtained in writing from Engineer-in-charge or his representative before its use in the Project.

Before taking up of any construction activity the construction work done earlier shall be got approved in writing. Any failure on this account may result in the work for which the Contractor will be solely responsible.

Materials and job mix, etc. shall be got approved in writing at least 15 days in advanced of the commencement of the corresponding activity. The testing charges shall be borne by the Contractor.

Besides the prescribed tests and frequencies any other test of tests over the prescribed frequency shall also be carried out by the Contractor at his own cost if so, directed by Engineer-in-charge or his authorized representative.

28. CONDITION RELATING TO INSURANCE OF CONTRACT WORK.

Contractor shall take out necessary Insurance Policy/ (viz. Contractors 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 only its postal address for Correspondence is "264, MHADA, First Floor, Opp. Kalanagar, Bandra (East) Mumbai - 400051" (Telephone Nos. 26590403/26590690 and Fax No. 26592461/26590403) Similarly, all workmen's appointed to complete the contract work are required to insure under workmen's compensation insurance policy. Insurance policy/policies taken out from any other Company will not be accepted. If any contractor has affected 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 insuree.

29. BUILDING AND OTHER CONSTRUCTION WELFARE CESS :

Building and other construction worker welfare cess at 1% or at the rates awarded from time to time as intimated by the competent authority of building and other construction worker welfare Act 1996 shall be deducted from bill amount. Whether bill advance payment or secured advance.

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30. Goods and Services Tax will be recovered from the bill of the contractor as per GST Act.

31. **DIARY:**

Contractor shall maintain, throughout the construction period, a diary in the form of a register regarding the following: -

- i) Daily presence of all categories of labour.
- ii) Daily availability and use of machinery and equipment's on work.
- iii) Daily procurement, Consumption and balance of materials on site.
- iv) Daily record of various visiting authorities along with name of the officers visited and timing.
- v) Details of work executed per day. The register shall be closed on daily basis and signature of Engineers in charge or his representative should be taken over it.

32. **ADDITIONAL TECHNICAL CONDITIONS**

- 32.1 The work shall be carried out in the best workmanship like manner and in strict accordance with P.W.D. hand book Volume I & II 1960. Edition supplemented by specification attached and as per Standard Specifications Book of Government of Maharashtra of 1979 and as per specific order of the University Engineer or his representative from time to time.
- 32.2 The orders issued by the Government in P.W. Department and the University Engineer from time to time regarding construction procedure shall be binding on the contractor in addition to the specification contained in tender document.
- 32.3 The contractor shall submit day to day account of the materials issued to him and its use and also monthly progress and programmed of work.
- 32.4 (a) The concrete mix design shall be got approved from University Engineer and the mix design shall give preliminary strength of 1.33 times working strength.
(b) The maximum size of aggregate permissible would be as per A-7 page-8 of Standard Specifications Book 1979 Edition.
- 32.5 The items provided with watering for curing include continuous watering operations throughout the day including lunch hours and also during holidays. For this purpose, contractor shall have to construct tank of approx. 5000 liters capacity near each building and provide necessary Booster Pumps etc. to ensure adequate curing and wetting. Hold fasts coming in contact with R.C.C. columns shall be of sizes 30 cm. x 4 cm. to be fitted with two rows, nails fixed properly in concrete.
- 32.6 For all sand covering items, use of washed mixer sand (with sand washing machine) is obligatory. No separate claim in this regard will be entertained.
- 32.7 Material testing requirement frequency and type of testing is enclosed separately. Material to be used shall be tested accordingly and cost shall be borne by contractor.
- 32.8 For R.C.C. centering plywood and M.S. sheet of approved quality shall be used and adjustable props and fasteners shall be used.
- 32.9 The execution of any work from external side of the building 'H' frame steel scaffolding shall be used. No separate payment for claims in this regard shall be entertained.

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- 32.10** The scaffolding shall not be supported on existing external walls of the building by making holes in it and also the scaffolds shall not rest on any part of the building.
- 32.11** Quality Assurance Manual: Contractor shall prepare the quality assurance manual booklet in consultation with the University Engineer. Quality assurance manual shall be comprehensive document covering every aspect of the work. University Engineer shall approve this document. The quality manual document shall be used only after approval from University Engineer. Provision of the quality manual binds on the contractor. Quality manual shall be treated as a legal document as per with this contract document. It shall be used till the work is completed in full respect.

33. Additional Performance Security:

Bank Guarantee OR Demand Draft for Performance Security Deposit for Quoting Offer More than 1% below the tender cost. (As Per GR. Dated 12.04.2017). As per the directives laid down in Government of Maharashtra, Public Works Department, and Marathi Resolution No. CAT 2017/PRA.KRA 8/ Bldg-2/dt. 12.04.2017, If the bidder intends to quote his offer below more than 1 % of the Bid cost of the department then such bidder should upload a Bank Guarantee OR Demand Draft (in the form as prescribed by Government) from any Schedule Bank or Nationalized Bank against Additional Performance Security in Part-II Financial Bid as mentioned below:

- A. If the Bidder intends to quote his offer below more than 1 % upto 10 % of the estimated cost put to Bid then he should submit a Bank Guarantee OR Demand Draft amounting to 1% of the Bid cost of the department towards Additional Performance Security and scanned copy of Bank Guarantee OR Demand Draft shall be uploaded in Part-II Financial Bid
- B. If the Bidder intends to quote his offer more than 10 % below the estimated cost put to Bid then he should submit Performance security 1 % for every percent after 10 % below percentage in addition to the cost of 1% performance security mentioned above clause A for quoting below offer, scanned copy of Bank Guarantee OR Demand Draft shall be uploaded in Part-II Financial Bid (e.g. If Bidder quotes his offer 14 % below the estimated cost put to bid, then he should submit $14 - 10 = 4$ % Additional Performance security + 1% = 5 % amount of the cost put to bid as a total Additional Performance Security.) If the amount of Additional Performance Security as required above (under A & B) is not submitted by the bidder along with Part II Financial Bid, then his offer will be treated as "non-Responsive" and will not be considered.

1) Such Bank Guarantee OR Demand Draft shall strictly issue only by the Nationalized Bank or Scheduled Bank in favor of The Registrar, payable at Mumbai, SNTD Women's University.

2) The Bank Guarantee OR Demand Draft should bear the MICR and IFSC Code Number of the issuing bank.

3) The scanned copy of this Bank Guarantee OR Demand Draft shall be uploaded in Part-II Financial Bid (Financial Offer) of the bid. The Hard Copy of this Bank Guarantee OR Demand Draft shall be submitted in Envelop-II.

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- 4) If such contractor will not comply the stipulations laid down in the bid and not qualified for the opening of his financial offer (Part-II-Financial Bid) the Bank Guarantee OR Demand Draft of such bidder shall be returned within 7 days after the date of opening of the bid.
- 5) If the bidder comply the stipulations laid down in the tender and qualified for the opening of his financial offer (Part-II Financial Bid) then the Bank Guarantee OR Demand Draft of the other bidders (other than 1st and 2ndlowest bidder) shall be returned within 7 days after the date of opening of the bid.
- 6) The Bank Guarantee OR Demand Draft of the 2nd lowest bidder shall be returned within 3 days from the date of work order.
- 7) If it is found that the Bank Guarantee OR Demand Draft as above submitted by the bidder is False / Forged then the Earnest Money submitted by such bidder shall be forfeited and he will be entered in the Black List of the University.
- 8) The work order to the successful contractor shall be issued only after the encashment of his Bank Guarantee OR Demand Draft by The Registrar.
- 9) The amount of Additional performance security of successful contractor shall be refunded within the period of one month after the date of completion of defect liability period.

Note: - For calculating the amount of **ADDITIONAL PERFORMANCE SECURITY** contractors offer will be calculated in percentage rounded up to two decimal points only.

34. Contract Document

- 1.1.1.1. The following documents shall constitute the contract documents:
 - 1.1.1.2. Articles of Agreement.
 - 1.1.1.3. General Conditions of Contract.
 - 1.1.1.4. Specifications.
 - 1.1.1.5. Bills of Quantities.
- 1.1.2. The Contract Documents is complementary. What is called for in any one shall be has binding as is called for by all.
- 1.1.3. The Contract Document shall remain in the custody of the Owner so as to be available at all reasonable times for the inspection of the Owner or of the Contractor. Immediately after the execution of the contract one copy of the Contract Document and two copies of the Contract Drawings shall, without charge, be supplied by the Owner to the Contractor and one copy of the Contract Document to the Owner.
- 1.2. So soon as is possible after the execution of this contract two copies of the Specifications, descriptive schedule or other like documents necessary for use in carrying the work shall without charge be supplied by the Owner to the Contractor.
- 1.3. Provided that nothing contained in the said Specifications, Descriptive schedules or other document shall impose any obligation beyond those imposed by the Contract Document namely by the Contract Drawing, the Contract Bills, the Articles of Agreement and these

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conditions. After the award of the Contractor the Contractor shall without charge be supplied with all such further drawings and details as may be prepared by the Owner and his Consultant, from time to time as the work proceeds as are reasonably necessary either to explain or amplify the Contract Drawings or to enable the Contractor to carry out and complete the work in accordance with these Conditions provided all such drawings shall be a reasonable development of the work described in the Contract Document.

- 1.4. The Contractor shall keep one copy of the Specifications, Descriptive schedule or other like document referred to in this clause and one copy of the contract Drawing and such other drawings and details supplied to him from time to time and referred to in this clause and written instructions referred to in this clause and clauses 9. and 30. at the site so as to be available to the Owner or his representative at all reasonable times.
- 1.5. None of the documents herein before mentioned shall be used by the Contractor for any purpose other than this contract and neither the Owner nor the Owner shall divulge or use except for the purpose of this contract any of the prices in the contract bills.
- 1.6. Upon final payment under the clause 31.6. of these conditions the Contractor shall if so requested by the Owner forthwith return to the Owner all Drawings, Details Specifications Descriptive Schedule and other Document of like nature which bears his name or that of the Consultant.

2. Type of Contract

- 2.1. The Contract shall be a percentage rate contract. The Contractor shall be paid for the actual quantity of work done, as measured at site or as per drawing whichever is less, at the rates mentioned in the Contract.

3. Schedule of Quantities

- 3.1. The schedule of Quantities given in the Contract Bill is provisional and is meant to indicate the intent of the work and to provide a uniform basis for tendering. The Owner reserves the right to increase or decrease any of the quantities or to totally omit any item of work and the Contractor shall not claim any extras or damages on these grounds.
- 3.2. Any error in description or in quantity or omission of items from the Contract Bill shall not vitiate this Contract but shall be treated as a variation.

4. Contract Drawings

- 4.1. In general, the Drawings shall indicate dimensions, position and type of construction; the Specifications shall indicate the qualities and the methods; and the Bill of Quantities shall indicate the quantum and the rate for each item of work. Any work indicated on the Drawings and not mentioned in Specification or vice versa shall be furnished as though fully set forth in both. Work not specifically detailed, called for marked or specified shall be the same as similar parts that a detailed marked or specified.
- 4.2. The Contractor's work shall not deviate from the Drawings and the Specifications. The Owner's interpretation of these documents shall be final and without appeal.
- 4.3. Errors or inconsistencies discovered in the Drawings and Specifications shall be promptly brought to the attention of the Owner, through the clerk of works, for interpretation or correction. Local conditions, which may affect the work, shall likewise be brought to the

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Owner's attention. If at any time, it is discovered that work is being done which is not in accordance with the Contract Drawings and Specifications, the Contractor shall correct the work immediately. Corrections of defective work shall not be basis for any claim for extension of time. The Contractor shall not carry-on work except with the knowledge of the Clerk-of-works.

- 4.4. Figured dimensions on the scale Drawings and large size details shall govern. Large size details shall not precedence over small-scale drawings. Any work done before receipt of such details, if not in accordance with the same, shall be removed and replaced or adjusted, as directed by the Contractor without expense to the owner. The general conditions apply with equal force to all the work including authorized extra works.
- 4.5. All drawings, Bills of Quantities and Specifications and copies thereof furnished by the Owner are his property. They shall not be used on any other work and shall be returned to the Owner at his request on completion or termination of the Contract.
- 4.6. Reinforcing steel bar bending schedules shall if requested by the owner be furnished to the Ownerless fifteen days prior to the fabrication of the reinforcement.

5. Contract Sum

- 5.1. The contract sum shall not be adjusted or altered in any way whatsoever otherwise than in accordance with the express provisions of these conditions, and subject to clause 5.2. Of these conditions any error whether of arithmetic or not in the computation of the Contract sum shall be deemed to have been accepted by the parties hereto.

35. Claim for extra

- 1.1. When any instructions or decisions at site involve an extra or whereby the contractor may plan to claim an extra, it shall be the responsibility of the contractor to inform the Owner of the extra amount and get return authorization from the Owner before proceeding with the work involved.
- 1.2. Any modification carried out for expediting or simplifying work at the request of the contractor or his representatives shall not be taken as the basis for claiming an extra. However, if such modification shall also involve an extra, the rate for such modification shall be settled in advance and written authorization contained by the contractor from the Owner before proceeding with the work involved. If no such information is given by the contractor in writing to the owner such modification shall not be accepted as the basis for extra charge.

36. Extension

- 1.1. Upon it becoming a reasonably apparent that the progress of the works is delayed, the contractor shall forthwith give written notice of the cause of the delay to the Owner, and if in the opinion of the Owner the completion of the work is likely to be or has been delayed beyond that date for completion stated in the appendix to these conditions or beyond any extended time previously fixed under this clause.
 - 1.1.1. By force majeure. Or
 - 1.1.2. By reason of any exceptionally inclement weather. Or

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- 1.1.3. By reason of loss or damage of occasioned by any one or more of the contingencies referred to in clause 47. of these conditions. Or
- 1.1.4. By reason of civil commotion, local combination of workmen strike or lockout affecting any of the trades employed upon the works or any of the trades engaged in the preparation, manufacture or transportation of any of the goods or materials required for the work. Or
- 1.1.5. By reason of Owner's instructions issued under clause 9, clause 30.1. or clause 38.2. of these conditions. Or
- 1.1.6. By reason of the contractors not having received in due time necessary instructions, drawings, details of levels from the Owner for which he specifically applied in writing on a date which having regard to the date for completion stated in the appendix to these conditions or to any extension of time then fixed under this clause was neither unreasonably distant from nor unreasonably close to the date on which it was necessary for him to receive the same. Or
- 1.1.7. By delay on the part of nominated sub-contractors or nominated suppliers which the contractor has taken all practicable steps to avoid or reduce. Or
- 1.1.8. By delay on the part of artists, tradesmen or other engaged by the owner in executing work not forming part of this contract. Or
- 1.1.9. By reason of the opening up for inspection of any work covered up or of the testing of any of the work, materials or goods in accordance with clause 37. of these conditions (including making good in consequence of such opening up or testing) unless the inspection of test showed that the work materials or goods were not in accordance with this contract. Or
- 1.1.10. By reason of the contractor's inability for reason beyond his control and which he could not reasonably have foreseen at the date of this contract to secure such labour goods or materials as are essential to the proper carrying out of the works.

Then the Owner shall as soon as he is able to estimate the length of the delay beyond the date or time aforesaid make in writing a fair and reasonable extension of time for completion of the works, provided always that the contractor shall use constantly his best endeavors to prevent delay and shall do that may reasonably be required to the satisfaction of the Owner to proceed with the work.

37.Damages for non-completion

- 1.2. If the contractor fails to complete the works by the date specified in these conditions or within any extended time fixed under clause 39. of these conditions and the Owner certifies in writing that in his opinion the same ought reasonably so to have been completed, the contractor shall pay or allow the owner a sum calculated at the rate stated in the appendix as agreed liquidated damages for the period during which the said work shall so remain or have remained incomplete, the owner may deduct such damages from any monies otherwise payable to the contractor under this contract.

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38.Virtual completion and defects liability period

- 1.1. When in the opinion of the Owner the works are practically completed, he shall forthwith issue a certificate to the effect and virtual completion of the works shall be deemed for all the purpose of this contract to have taken place on the day named in such certificate.
- 1.2. Any defects shrinkage or other faults which shall appear within the defects liability period stated in the appendix to this condition and which are due to materials and workmanship not in accordance with this contract shall be specified by the Owner in a schedule of defects which he shall deliver to the contractor not less than 14 days after the expiration of the said defects liability period and within a reasonable time of the receipt of such schedule the Defects Shrinkages and other faults therein specified shall be made good by the contractor and (unless the Owner shall otherwise instruct in which case the contract sum shall be adjusted accordingly) entirely at his own cost.
- 1.3. Notwithstanding sub-clause 42.2. of this condition the Owner may whenever he considers it necessary so to do, issue instructions requiring any defect, shrinkages or other fault which shall appear within the defects liability period named in the appendix to these conditions and which is due to materials and workmanship not in accordance with this contract to be made good and the contractor shall within a reasonable time after receipt of such instructions comply with the same (and unless the Owner shall otherwise instruct in which case the contract sum shall be adjusted accordingly) entirely at his own cost. Provided that no such instruction shall be issued after 14 days from the expiration of the said defects liability period.
- 1.4. When in the opinion of the Owner any defects shrinkages or other defaults which he may have required to be made good under sub-clause 42.2. and 42.3. of this condition shall have been made good he shall issue a certificate to that effect, and completion of making good defects shall be deemed for all the purposes of this contract to have taken place on the day named in such certificates.
- 1.5. In no case shall the contractor be required to make good at his own cost any damages which may appear after virtual completion of the work unless the Ownershall certify that such damages are due to injury which took place before virtual completion of the works.

39.Payments withheld

The Owner may withhold or on account of subsequently discovered evidence nullify the whole or a part of any certificate to such extent as may be necessary in his reasonable opinion to protect the owner from loss on account of:

- 1.1. Defective work not remedied.
- 1.2. Failure of the contractor to make payments properly to subcontractor or for materials or labour.
- 1.3. A reasonable doubt that the contract can be completed from the balance then unpaid.
- 1.4. Damage to another contractor or sub-contractor.

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- 1.5. Claims filed on reasonable evidence indicating probable filing of claims.

When the above grounds are removed payment shall be made for amounts withheld because of them.

40. Labour

- 1.1. The contractor shall employ no child labour under 18 years of age on the work. If female labour is engaged these shall make necessary provision for safeguarding small children and keeping them clear of the site of operations. No labour shall reside within the compound except authorized guards.

41. Protections of trees and shrubs

- 1.1. Trees and shrubs designated by the Owner shall be protected from damage during the course of the work and the earth level shall not be changed within three feet of such tree. Where necessary such trees and shrubs shall be protected by means of temporary fencing.

42. Guarantee

- 1.1. Besides guarantee required elsewhere, the contractor shall guarantee the work in general for one year as noted under clause of the conditions.
- 1.2. All required guarantees shall be submitted to the Owner by the contractor when requesting certification of accounts for payment by the owner.

43. Arbitrator

- 1.1. All dispute and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or after their completion and whether before or after the determination, abandonment or breach of the contract) shall be referred to and settled by the Owner who shall state his decision in writing. Such decision may be in the form of a final certificate or otherwise. The decision of the Owner with respect of any of the excepted matters shall be final and without appeal. But if either the owner or the contractor be dissatisfied with the decision of the Owner on any matter, question or dispute of any kind (except any of the excepted matters) or as to the withholding by the Owner of any certificate to which the contractor may claim to be entitled then and in any such case either party (the owner or the contractor) may within 28 days after receiving notice of such decision give a written notice to the other party through the Owner requiring that such matters in dispute be Arbitrated upon. Such written notices shall specify the matters which are in dispute and such dispute or difference of which such written notice has been given and no other shall be and is hereby referred to the Arbitration. Final decision of a single Arbitrator to be agreed upon and appointed by both the parties, or in case of disagreement as to the appointment of a single Arbitrator, to the Arbitration of two arbitrators one to be appointed by each party, which Arbitrators shall before take upon themselves the burden of reference appoint presiding Arbitrator.
- 1.2. The Arbitrator, the Arbitrators as the case may be shall have power to open up review and revise any certificate, opinion, decision, requisition or notice save in regard to the excepted matters referred to in clause 55. and to determine all matters in dispute which shall be submitted to him or them and of which notice shall have been given as aforesaid.

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- 1.3. Upon every or any such reference the cost of and incidental to the reference and award respectively shall be in the direction of the Arbitrator or Arbitrators or the umpire as the case may be who may determine the amount thereof or direct the same to be taxed as between Attorneys and clients or as between party and party and shall direct by whom and to whom and in what manner the same shall be borne and paid. This submission shall be deemed to be a submission to Arbitration within the meaning of the Indian Arbitration & Conciliation Act 1996 or any modification thereof for the time being in force, the award of the arbitrator or arbitrator's or the umpire as a case maybe shall be final and binding on the parties such reference except as to the withholding by the Owner of any certificates under clause 49. to which the contractor claims to be entitled shall not be open or entered upon until after the completion or alleged completions of the works or until after the practical cessation of the work arising from any cause unless with written consent of the owner and the contractor. Provided always that the owner shall withhold the payment of an interim certificate nor the contractor except with the consent in writing of the Owner in any way delay the carrying out of the works by reason of any such matters, question or dispute being referred to Arbitration but shall proceed with the work with all due diligence and shall until the decision of the Arbitrator or Arbitrator's or the umpire as the case may be given abide by the decision of the Owner and no award of the Arbitrator or the arbitrator's or umpire as the case maybe shall relieve the contractor of his obligations to adhere strictly to the Owners instructions with regard to the actual carrying out of the works. The owner and the contractor hereby also agree that Arbitration under this clause shall be a condition precedent to any right of action under the contract.

44. Good for Construction (GFC) or Approved for Construction (AFC) Drawings

Contractor shall indicate the dates on which he requires drawings before starting the work. Contractor shall give a notice of 15 days to Owner/Consultant about the requirement of the drawing/decisions required by him to complete the project as per schedule. It is understood that all the drawings are not required at the beginning of the project for completing the project on time.

Consultant shall forward the drawings to the Contractor. Contractor shall immediately on receipt of 'GOOD FOR CONSTRUCTION' (GFC) drawings, check all specifications (technical specifications and pay item specifications/description) and GFC drawings and shall promptly (within a maximum time limit of three weeks) notify in writing to the Owner of any such omissions or discrepancies in such specifications or drawings.

Any claim/claims, which may result due to non-compliance of the above, shall not be entertained and work, shall be executed/completed at the cost and consequence of the Contractor.

Contractor shall call for the mission information/drawings from the Consultants in the prescribed form (Request for Information (RFI) only. Contractor shall give a time of 10 days to supply such necessary information required by him. Without specific request from the Contractor, about information required, it will be constructed that all the information is available with the Contractor.

Any delay in giving drawings/decisions/approval of samples shall be recorded by the Contractor and specific extension of time to complete the contract shall be given against such delays to the Contractor for completing the project. At the end of each month Contractor shall inform Owner/Owner about such cumulative delays affecting the

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schedule and obtain confirmation from time to time, Contractor's claim for extension of time will not be granted.

The Owner/Consultant will grant suitable extension in time if there is delay of supplying the information than specified above.

The decision of the Owner/Consultant on the extension of time is binding on the Contractor and will be outside the purview of arbitration

45. Termination

Owner reserves the right to terminate the contract at intermediate stage and charge the Contractor liquidated damages at the agreed rate in case

Contractor fails to execute the project as per agreed milestones,
Owner feels that Contractor will not be able to complete the work as per schedule.
Persistent default in quality of work not as specified and not acceptable to the Owner/Consultant.

No compensation will be granted for such termination of the contract. Contractor shall prepare his final bill within one month of notice of such termination of work is given to him. Contractor shall not prevent another Contractor from moving on to site after such notice is given. Owner shall settle Contractor's bill within 45 days including time required for certifying the bill. Any additional time in settling the bill will attract interest burden at the rate of 12% per annum on the net amount due to the Contractor, as per certificate of Owner.

46. Rates of extra items

All the extra item rates will be settled by the Owner (before starting the work), whose decision will be final in this regard, by deriving them from similar items already quoted in the tender. In case this is not possible, the extra item rates shall be calculated as per the cost of the materials (including taxes and transport and wastage) plus cost of labour plus 20% of cost of materials and labour to cover his overheads and profits. The Owner's decisions in settling the rates of extra items shall be final and binding on the Contractor.

The Contractor shall furnish, on request from the Owner all documents required to justify his claim of rates of non-tender items/extra items, which he may be called upon to carry out.

The Owner will approve all extra item rates. No work shall be carried out unless rate of extra item is approved.

All extra items and their cost implications shall be prepared well in advance. These extra items shall only be executed after written approval from Owner.

47. Retention Money

The proportion of payments retained shall be 6% from each R.A. bill subject to a maximum of 5% of final contract price.

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48.Units

In units of schedule of quantities, the abbreviations shall mean following:

Cu. M	=	Cubic Metre	R. M. or R. Mt	=	Running Metre
Sq. M	=	Square Metre	MT.	=	Metric Tonne
Q. R.	=	Quote Rate Only			

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Annexure 'A'

QUALITY CONTROL TESTS

(Refer Condition No.7 (vi) on Page No.28)

Sr.No.	Material	Test
1	Laterite Stone	i) Compressive Strength. ii) Water Absorption
2	Trap Metal	i) Crushing value. ii) Impact value. iii) Abrasion value. iv) Water Absorption. v) Flakiness Index & Elongation index vi) Gradation
3	Bricks	i) Crushing Strength. ii) Water Absorption.
4	Flooring Tiles	i) Flexural strength ii) Water Absorption
5	Glazed Tiles	i) Water Absorption
6	Cement	i) Compressive Strength ii) Initial setting time. iii) Final setting time. iv) Specific Gravity v) Soundness vi) Fineness vii) Std. Consistency
7	Steel	i) Weight per meter. ii) Ultimate Tensile stress. iii) Yield stress iv) Elongation v) Bend Test.
8	Interlocking concrete paving block	i) Compressive Strength ii) Flexural Test iii) Resistance to wear
9	Wood work (shutters)	i) End immersion tests ii) Knife test iii) Glue adhesion test
10	Cement Concrete	i) Mix design ii) Compressive strength
11	Structural steel	i) Weight/Running metre

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Annexure 'B'

Construction Material Testing & its frequency

(Refer Condition No.7 (vi) on Page No.29)

Sr. No.	Material	Rate	Frequency
1	CEMENT		
	1) Consistency 2) Initial & Final Setting time 3) Fineness 4) Specific Gravity 5) Soundness 6) Compressive Strength		Test per 50 MT. above six tests shall be carried.
2	METAL		
a	1) Sieve Analysis (Gradation) (Concrete work)		1 Test for every day work
	2) Sieve Analysis Red Book Specification		1 Test per 100 m ³
	3) Sieve Analysis Granular Sub Base (N.H.Work) MOST		1 Test per 200 m ³
b	Water Absorption		1 Test per 200 m ³
c	Impact (Concrete WBM/BT)		1 Test per 200 m ³
d	Crushing		1 Test per for Each Source
e	Abrasion		1 Test per for Each Source
f	Flakiness & Elongation Index		1 Test per 200 m ³
g	Plasticity Index for blindage used for WBM		1 Test per 25 m ³
3	SAND		
	1) Water Absorption & Specific Gravity		1 Test per for Each Source
	2) Fineness Modulus		1 Test per for Each day
	3) Slit Content		1 Test per for Each day work
	4) Bulkage		1 Test per for Each day work
4	BRICKS		
	1) Water Absorption 2) Comp Strength 3) Effloresce		For each 50000 Nos bricks Above three tests are to be carried out
5	Flooring Tiles		
	1) Flexural Strength 2) Water Absorption 3) Abrasion		For 2000 Nos of Tiles above three tests are to be carried out
6	Glazed Tiles		
	1) Water Absorption		1 Test- 6 Tiles per 2000 Nos.
7	Concrete Mix Design		1 Concrete Mix Design for each

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Sr. No.	Material	Rate	Frequency
	Compressive strength C.C.Cubes for Qty		grade of concrete per every per hour
	Qty. upto 5 m ³		1 Set (3 Nos.)
	6-15 m ³		2 Set (3 Nos)
	16-30 m ³		3 Set (3 Nos)
	31-50 m ³		4 Set (3 Nos)
	Quantity above 51 m ³		4+1 additional set per 50 m ³
8	MURUM/ SOIL for earth work		
	1) Optimum Dry Density		2 Test per 3000 m ³
	2) C.B.R.		1 Test per 3000 m ³
	3) Liquid & Plastic Limit/Plasticity Index		1 Test per 3000 m ³
	4) Filed Density 100% P.D.		1 Test per 3000 m ³
	5) Filed Moisture Content		1 Test per 3000 m ³
9	WOOD		
	1) Moisture Content		1 test per Source
	2) Density		1 test per Source
10	WATER		
	1) P.H. Value for Water and Sand		1 test per Source
	2) Chloride & Sulphate content		2 test per Source
11	Steel		
	1) Wt per meter 2) Ultimate Tensile Stress 3) Yield stress 4) Elogation		One test for every 5.0 MT or part thereof for each diameter

8. ADDITIONAL SPECIFICATIONS

1. The contractor shall achieve those following requirements in respect of quantity of work and his contract rate shall provide for the same.

1.1 ADMIXTURES: -

Whenever necessary the admixture should be used to achieved the required workability. The type of admixture should be got approved from Engineer-in-charge. The rate is inclusive of all admixtures etc. if found necessary.

1.2 CEMENT IN CONCRETE:

For this purpose, the conditions mentioned in additional technical specifications from **Page 63** shall be applicable.

1.3 WATER / CEMENT RATIO:

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For high quality concrete of low permeability, the water/cement ratio shall be as per IS 456 and mix design, more than 0.45 and preferably 0.40 or less subject to the attainment of adequate workability.

1.4 CURING FOR CONCRETE:

Special attention shall be paid to curing of concrete in order to ensure maximum durability and no minimize cracking. Concrete shall be cured with fresh water whenever it is possible to ensure that the concrete surface can be kept wet despite wind, etc. care shall be taken on avoid rapid lowering of concrete temperatures caused by applying cold water to hot concrete surface (thermal shock) Sea water shall not be used for curing reinforced concrete or prestressed concrete. Where there is doubt about the ability to keep concrete surface permanently wet for the whole of the curing period heavy duty membranes curing compound shall be used.

1.5 CONCRETE COVER TO REINFORCEMENT:

- (i) The cover concrete must be of the same quality, impermeability and strength as the rest of the concrete. Special mix design should be carried out for the concrete to be used for making concrete cover blocks.
- (ii) The concrete cover must develop sufficient alkalinity, and protect the steel. The alkalinity developed shall not be less than 0.04 N and shall not more than 0.08 N.
- (iii) The cover must be uniform throughout and it's thickness shall be exclusive of plaster or other decorative finishes.
- (iv) The concrete cover shall be as per the relevant clause of IS codes. In the case of poles, the cover thickness shall be separately decided by the University Engineer.

1.6 DETAILING OF MISCELLANEOUS ITEM:

Binding Wires: All ends of binding wires shall be carefully turned inwards so that they do not project out of concrete and start rusting action. Plastic coated galvanized wires shall be used. Wherever possible polythene binding string and polythene bar grips shall be used, after making sure that these do not result in loss of bond or chemical reaction with concrete. The use is subject to approval of Engineer-in-charge.

1.7 BAR SPACING: As per relevant I.S. codes and as detailed design drawing or as directed by Engineer-in-charge.

1.8 HOLLOWS IN CONCRETE: After concreting is complete the concrete surface particularly where there is congestion of reinforcement, shall be tested by light hammering or if possible, by Schmitz hammer. Any portion showing signs of hollowness should be grouted immediately.

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2. SPECIFICATION FOR FORMWORK AND STEEL CENTERING: -

1) FORMWORK: -

- 1.1** Formwork: Formwork 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. Specification.
- 1.2** **Design of Formwork: - Formwork including complete false work shall be designed by the contractor in accordance with I.S.: 2750 (1964), 4041 (1987) and all other relevant I.S. codes without any extra cost to the Government and these shall be got approved from Engineer before any formwork is taken up.**
- 1.3** The contractor shall entirely be responsible for the adequacy and safety for false work notwithstanding 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.

2) QUALITY OF SHUTTERING:

The shuttering shall have smooth and even surface and its joints shall not permit leakage of cement slurry.

- 2.1** Ply-board shuttering materials to be used shall be steel shuttering/marine 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, or so green or wet as to shrink after erection. Mild steel plates or plywood shall be used for slab and beam bottoms.
- 2.2** The timber shall be accurately spanned planed on the sides and the surface coming in contact with concrete.
- 2.3** So far as practicable, clamps shall be used to hold the forms together. Where use of nails is unavoidable minimum number of nails shall be used and these shall be left projecting so that they can be easily withdrawn. Use of double headed nails shall be preferred.

3. TOLERANCE: -

3.1 The formwork shall be made so as to produce finished concrete true to shape, lines, 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:

- a) Section dimension = 5 mm
- b) Plumb = 1 in 1000 of height
- c) Levels = 3 mm before any deflection takes place.

3.2 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 satisfaction of the Engineer, Errors if noticed in any lift/ tilt of the structure after stripping of forms, shall be corrected in the subsequent work to bring back the surface of the structure to its true alignment.

4. SPECIAL PROVISION: -

Whenever the concreting of thinner members is required to be carried out within shutters of considerable depth, temporary openings in the side of the shutters shall, if so directed by the Engineer be provided to facilitate the purging 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.

5. REMOVAL OF FORMWORK: -

The formwork shall be so removed that it shall not cause damage to concrete. Centering shall be gradually and uniformly lowered in such a manner as to avoid any shock or vibrations. Supports shall be removed in such a manner as to permit the concrete to take stresses due to its own weight uniformly and gradually.

The whole of the formwork removal should be planned and definite scheme of operation shall be worked out. Under no circumstances forms be struck until the concrete reaches a strength of at least twice the stress to which the concrete may be subjected at the time of striking but not before the period as mentioned in IS:456-2000 where ordinary portland cement is used.

6. STEEL CENTERING: -

6.1 Work includes:

Erecting steel centering with contractor's material comprising of standard steel adjustable props and standard steel trusses / joists / 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. member 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 contractor.)

6.2 For R.C.C. works formwork shall be of marine plywood of adequate thickness and grade only. The centering and supporting arrangement such as standard steel trusses/ joists/ spans standards adjustable/ fixed props. H type frames etc. shall be designed by the Contractor and approved from the Engineer before commencement of its erection. The Contractor with the prior approval of the

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Engineer shall use standard steel centering arrangement which may be manufactured by the reputed firm.

- 6.3** The supporting arrangement designed by the contractor shall conform to the relevant I.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 loads 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 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.

3. SPECIFICATIONS FOR CONCRETE WORKS: -

(1) DESIGN OF CEMENT CONCRETE MIXES:

- (a)** All the cement concrete of grade M-15 and higher strength shall be done with proper mix design as per IS: 10262 - 1982 and shall conform to the durability and other requirements of IS 456 2000. The mix design shall be got approved from the University Engineer from time to time whenever there is change in the source and type of cement and aggregates and change in the gradation of aggregates.
- (b)** The design of concrete mixes for various concrete items in the work shall be obtained by the contractor at his cost from and approved laboratory. The contractor shall submit in advance details of such design to the Engineer-in-charge for his prior approval.
- (c)** For concrete of Grade M-25/ M-30/M-35.
Preliminary mix design must be carried out from an approved laboratory, for subsequent changes field mix design shall be acceptable. However, in case the University Engineer has got difficulty in acceptance of the field mix design, laboratory mix design shall be got done by the contractor from approved laboratory at his own cost. Cement, fine aggregate and coarse aggregate must be used by weight only according to the requirement of the approved mix design.
- (d)** The concrete mix design shall give target strength of 1.33 times the working strength.
- (e)** The minimum size of aggregate permissible shall be as per para-A-7 of Page - 8 f of standard specification book of 1979 Edition Vol. 1.
- (f)** The provision of the specification No. B-7 at page - 38 to 40 of Vol. 1 1979 Edition of standard specification book for controlled concrete shall be applicable for all the structural concrete items. The maximum water cement ratio shall be 0.45. The mix design shall be done accordingly.

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(g) All the expenses of preliminary mix design, subsequent field/ laboratory mix design, work tests, shall be borne by the contractor.

(2) FROMWORK FOR CONCRETE WORK:

The forms of concrete shall be of the materials as directly by the University Engineer-in-charge and shall preferably be of steel or plywood, Forms shall be of the required shape, profile and lines. Suitable devices shall be used to hold corners, adjacent ends, edges of panel or other forms together in accurate alignment. The forms and joints shall tight enough. Forms used for circular curved or structures of unusual shape, petal dome etc. shall be of such a character that will result in smooth concrete surface and exact shape. They shall be prepared such that they will not warp or distort during erection or while placing concrete. Their design and layout shall be got approved form the University Engineer-in-charge in advance.

(3) ERECTION AND REMOVAL OF FORM WORK:

The centering and strutting shall be of steel or plywood board exclusively for concreting. The design and drawing should be got approved in advance from the Department. For minor members the Engineer-in-charge may, at his discretion, permit use of wooden shuttering. The centering and shuttering shall be close and tight to prevent leakage of cement slurry. The centering shall have the necessary props, bracing and edges sufficiently strong and stable which shall not yield or displace while or after laying of concrete. They shall be made in such way that they can be slackened and removed gradually and slowly without distributing the concrete. Centering and shuttering shall not be removed before the design strength is achieved.

(4) MIXTURE OF CONCRETE:

Design mix concrete as well as nominal mix concrete shall be mixed by following the provision in Standard specification at B. 6.4 unless otherwise directed by the Engineer.

Unless otherwise agreed by the Engineer concrete shall be mixed in a batch type mixer of such other type of mixer as the Engineer my approve.

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 its final position.

(5) TRANSPORTATION, PLACING AND COMPACTION OF CONCRETE:

The method of transportation placing and compaction of concrete shall be followed as per section B.6.6, 6.7 and 6.8 of Standard Specification unless otherwise directed by the Engineer. The compaction shall be done with surface

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float vibrators for slabs and with pin vibrators for columns and beams. Vibrators of adequate vibrating capacity shall be employed for all types of works.

(6) CURING:

Curing shall be done by following provision of Section B.6.9 of Standard Specification and as directed by the Engineer.

(7) WORKING IN EXTREME WEATHER:

During windy weather sufficient 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 placed in position.

No concreting shall be carried out during period of continuous heavy rains unless, it is completely covered during mixing, transporting and placing, In extreme hot weather, concreting shall be restricted to morning and evenings. The time between mixing and placing of concrete shall be kept to the minimum and formwork shall be cooled by sprinkling with water.

(8) FINISHING:

Finishing work shall comply with requirement of section B.6.10 of Standard Specification unless otherwise specified herein below:

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

(a) The work that has sagged or contains honey combing to an extent detrimental to structural safety or architectural concept shall be rejected.

(b) Surface defects of a minor nature shall be rectified generally as indicated below by the contractor.

i) Surface defects which require rectification when forms are removed usually consist of bulges due to movement of forms, ridges at form joints, honeycombed areas, damage 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 areas shall be chipped out, the edges being cut as straight as possible and perpendicular 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 thorough filling.

ii) Shallow patches shall be treated with a coat of thin grout composed of one part of cement and one part of sand and then filled with mortar similar to that used in concrete. The mortar is placed in layers not more than 10 mm thick and each layer

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shall be given a scratch finish to secure bond with the succeeding layer. The last layer shall be finished to match the surrounding concrete by floating, rubbing or tooling on formed surfaces by pressing the form material against the patch while the mortar is still plastic.

- iii) 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.
- iv) The same amount of care to cure the material in the patches shall be taken for the whole structure. Curing shall be started, as soon as possible after the patch is finished to prevent early drying. Damp Hessian cloth may be used. But in some locations, it may be difficult to hold it in place, a membrane curing compound in these cases will be most convenient.

(9) CONSTRUCTIONS JOINTS:

Construction joints shall be provided and treated following the provisions of Specification and as directed by the Engineer-in-charge.

(10) DURABILITY:

Minimum cement contents for different exposures and sulphate attack are given in Tables 4 and 5 of I.S. 456, 2000 shall be followed for design mix.

(11) TESTS AND STANDARD OF ACCEPTANCE: -

11.1 Tests and Standard of acceptance criteria of design mix concrete and nominal mix concrete shall be as follows:

Sampling and testing of Concrete shall be done as per provision of section B.6.12 of Standard Specifications. Acceptance criteria for strength of concrete shall be as per IS 456-2000.

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

11.2 DEFECTIVE CONCRETE:

Any concrete which gives substandard results, or is severely damaged due to cracking or shows excessive honey combing and exposure of

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reinforcement, if exhibits any fault which in the opinion of the Engineer, seriously impairs its function, may be declared as defective concrete. Such non acceptable concrete shall be removed from the site and replaced by fresh concrete of the specified quality by the contractor at his own expenses. Alternatively in case of acceptable concrete, the Contractor shall carry out whatever other remedy the Engineer may reasonably suggest "Small rendering shall be done by the Contractor without extra cost."

(12) KEEPING RECORDS:

The record of mix design, mixing, slump, testing of C.C. cubes etc. shall be maintained in accordance with Section B-6.13 of the Standard Specification.

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LIST OF APPARTUS REQUIRED FOR BUILDING WORK

Sr. No.	Name of Apparatus	Nos (min.) required
1.	30 m and 50 m chain/ tape	2 Nos
2.	Automatic leveling instrument/ Tachometer with all accessories like 5.00-meter staff	2 Nos.
3.	Vernier callipers	1 No.
4.	Cube moulds for concrete/ Cube moulds for cement mortar	13Nos.
5.	Silt jar for sand silt testing.	4 Sets
6.	Oven- Electrically operated, thermostatically controlled, range up to 200 °C sensitivity 1°C.	1 No.
7.	Platform balance 300 kg capacity	
8.	Balance 20 kg capacity - self indicating type	1 No.
9.	Electronic Balance 5 kg capacity, accuracy 0.5 gm	2 Nos
10.	Water bath- electrically operated and thermostatically controlled with adjustable shelves, sensitivity 1°C.	1 No.
11.	Thermometers: Mercury-in-glass thermometer, range 0 ⁰ to 250 ⁰ C Mercury-in-steel thermometer with 30 cm stem, range upto 300 ⁰ C.	4 Nos.
12.	Kerosene or gas stove or electric hot plate.	1 No.
13.	Set of IS sieves with lid and pan: 450 mm diameter 63 mm, 53 mm, 37.50 mm, 26.50 mm, 13.20 mm, 9.50 mm, 6.70 mm, and 4.75 mm size 200 mm diamètre 2.36 mm, 2.0 mm, 1.18 mm, 600 microns, 425 microns, 300 microns, 150 microns, and 75 microns	1 Sets 2 Sets
14.	Water testing Kit	1 Set
15.	Atterberg's Limits (liquid and plastic limits) Determination apparatus	1 Set
16.	Dry Bulk Density Test apparatus (sand pouring cylinder, tray, can etc.).	1 Set
17.	Speedy Moisture Meter complete with chemicals	1 Set
18.	Aggregate Impact Value Test apparatus/ Los Angles Abrasion Test apparatus.	1 Set

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Sr. No.	Name of Apparatus	Nos (min.) required
19.	Flakiness and Elongation Test Gauges	1 Set
20.	Vicat apparatus for testing setting times	1 Set
21.	Slump testing apparatus	4 Sets
22.	Compression and Flexural strength testing machine, 200 tonne capacity with additional dial for flexural testing.	1 No.

9. QUALITY ASSURANCE AND MAINTENANCE

To ensure the specified quality of work which shall also include necessary surveys, temporary works etc., the contractor shall prepare a quality assurance plan and get the same approved from the **University Engineer** within eight days from the date of work order. For this, contractor shall submit an organization chart of his technical personnel to be deployed on the work along with their qualification, job descriptions defining the functions of reporting, supervising inspecting and approving. The contractor shall also submit a list of tools, equipment's and the machinery and instrumentation which he proposes to use for the construction and for testing in the field and/or in the laboratory and monitoring. The contractor shall modify/supplement the organization chart and the list of machinery, equipment etc. as per the direction of the University Engineer and shall deploy the personnel and equipment on the field as per the approved chart and list respectively. The contractor shall submit written method statements detailing his exact proposals of execution of the work in accordance with the specifications. He shall get these approved from the **University Engineer**. The quality of the work shall be properly documented through certificates, records, check-lists and logbooks of results etc. Such records shall be compiled from the beginning of the work and be continuously updated and supplemented and this shall be the responsibility of the contractor. The forms should be got approved from the **University Engineer-in-charge**.

The contractor shall prepare detailed completion drawings after completion of the work. He shall also prepare and submit a maintenance manual giving procedure for maintenance, with the period of maintenance works including inspections, tools and equipment to be used, means of accessibility for all parts of the structure. He shall also include in the manual, the specifications for maintenance work that would be appropriate for his design and technique of construction. This manual shall be submitted within the contract period.

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REPAIRING WORK AND RECONSTRUCTION OF COMPOUND WALL AT SNTD JUHU CAMPUS.

VOLUME – II

(Technical Specifications)

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MODE OF MEASUREMENTS

Note: The approved excavated earth shall be spread evenly in layers of 23 cm. inside the building plinth areas as indicated properly watered and rammed and the rate for this shall be included by the contractors under the excavation item. This item of work shall not be measured separately and paid for.

The methods of measurements for various items in the tender shall be generally in accordance with the I.S. 1200 (latest revision) subject to the following: -

The decision of the ARCHITECT / OWNER regards the interpretation of the mode of measurements shall be final and binding on the contractor.

EXCAVATION:

Note: It shall be measured in cubic meters. The pit sizes exactly as per the drawings shall be measured. If the actual pit is dug to sizes more than what are mentioned in the drawings for whatever reasons, the extra excavation will not be measured, unless allowed by architect (see last sentence). Also, the contractor will have to make good the extra excavation by filling earth, metal or concrete as is recommended by the structural consultant at his own cost. No deduction for volume of rock depots (refer "extra for rock cutting") shall be done, as the item of rock cutting is extra over item no. 1.01. In case of demolishing foundations, additional excavation may be allowed by the architect at his discretion.

- a) Footings: Areas of excavation for footings shall be measured equal to the areas of the lowest concrete course as shown on the drawing. Depth shall be measured vertically from ground level to bottom of concrete course OR dry rubble packing as the case maybe.
- b) Plinth beams: Depth of excavation for plinth beam shall be measured from ground level up to bottom of beam and width of beam. If a leveling course is ordered it shall be measured up to and bottom of the leveling course.
- c) Where excavation is made in trenches, measurements for cutting shall be taken by means of tape and staff and the width of concrete or rubble packing as shown on the drawing shall be considered as width of excavation.
- d) Where excavation is made for leveling the site, levels shall be taken before start and after completion of work and total quantity of excavation computed from these levels in a manner approved by the consultant.
- e) Where soil including soft rock and hard rock are mixed, hard rock after excavation shall be stacked separately measurement of the entire excavation shall be taken as indicated above.
- f) **Extra for rock cutting:** the quantity shall be measured in cubic metres only

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that rock which requires chiseling or blasting will be measured. The contractor shall stack the rock so obtained from excavation in a heap. The measurement for rock shall be by levels only. Before excavating in ROCK, levels of excavation have to be jointly recorded by the contractor and the site engineer, without joint measurements the excavation shall not be classified as HARDROCK.

EARTH & MURRUM FILLING:

- a) Owner's earth: - If asked to fill from the approved excavated stuff refer note on the top.
- b) In open spaces: With murum brought from outside and from the client's earth lying on the property.

Filling shall be measured from cross sections of embankments, levels of which are recorded by means of levels before start of work and on completion of work. When it is not possible to measure filling from cross sections, it may be measured from loose stacks or lorry measurements with previous written permission from the consultant and 25% deduction shall be made from the measured quantity to arrive at the net quantity payable.

Watering and consolidation shall not be paid separately and shall be included in the rate of filling.

P.C.C. IN FOUNDATION

Shall be measured exactly as per the drawing. If the area of pit actually dug is more than the area of P.C.C shown in the drawing, the contractor shall do form work to lay

PCC as per the drawing and he shall bear the cost of this formwork. The P.C.C. for foundations shall be measured in Cum.

DRY RUBBLE SOLING / RUBBLE PACKING:

This shall be measured in square meter of the area covered.

BRICK MASONRY:

The brick walls wider than one brick length shall be priced per unit of Cum. and for all brick on- edge, half brick walls or full brick wide masonry shall be priced per unit of Sqmt.

The measurement shall be their full heights (up to the soffit of the slab or beam as the case may be), lengths (excluding the columns) and thickness.

Deductions for all openings, recess and lintels shall be made except for the following:

- a) Such voids and openings that measure less than 0.1 sq.mt. in area on the surface and also templates, ends of beams joints etc.
- b) Posts and wall plates which do not take up the entire thickness of the walls.

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No extra shall be allowed for openings and recesses mentioned in the deductions above.

Measurement of brickwork in arches including flat arch shall be along with the brickwork of specified thickness.

The measurement of all brick cornices, architrave, bands etc., shall be measured in running meter.

The measurement of brick on edge coping of specified thickness shall be in Sq.m. on plan.

No extra shall be allowed for RCC stiffeners as specified in the bills of quantities.

RUBBLE MASONRY:

Except where otherwise described, stone work and stonewalling generally shall be given in cubic meters. And facia works in Sq.mtr.

When measuring walls, the thickness shall be measured to the nearest one mm.

Deductions shall be made as described under brickwork.

PLASTER:

Neeru finished and sand-faced plaster:

Rate for external plaster included for all heights.

Plastering on brick and concrete surface shall be measured in Sq.M. of the superficial area plastered.

No extra shall be allowed for beaded, chamfered or rounded arises or curved angles.

No deductions shall be made for opening less than 0.1 Sq.M. and the measurements of the plastered jambs shall not be added. Deductions for openings taken on the plastered surface shall be made on both the sides and the measurements of the plastered jambs added.

No extra coefficient for external plaster.

The measurement of all cornices, string courses and such mould work, which shall be of sections as per drawing including finish, shall be taken in running Metre. along with the wall and shall be inclusive of the core.

The rate for plasterwork shall include the jari finishing between the skirting tile and the plasterwork, or dado work and the plasterwork. No extras shall be allowed for the jari work.

FLOORING, SKIRTING, DADO:

The measurements of laying tiles, stones or patent stone to floors and wall dados shall be in the Sq.M. of actual areas covered. Areas less than 0.1 Sq.M. shall not be

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deducted. The measurements of floor of flooring shall be in Sq.M. taking horizontal measurement between sidewalks after the completion of the job and measurement of dados shall be in Sq.M. of the area of the wall covered (length into height).

Bedding and backing shall be included in rate of that particular item and shall not be measured separately.

CARPENTRY & JOINERY:

Carpenter and joiner's work shall be of the material including glazing and hardware and finish as mentioned in the bill of quantities.

All scantlings of shapes other than rectangular, which are intended to be measured in cu.mt. shall be measured as the smallest rectangular prism from which each separate piece of such scantling could be cut.

In all carpenters and joiners work an allowance of 1.5 mm on the specified size shall be made for each planned surface.

The measurement of all posts, beams joints and other scantlings shall be taken overall including tenons laps, joints and bearing. They shall be measured in cubic mt. Portions embedded in masonry or concrete or flooring shall not be measured separately.

PAINTING:

External painting:

All external painting shall be measured plain. There shall be no extra coefficient for uneven surfaces / different types of plaster in the external plaster.

Contractor shall include the impact of such coefficient in his rate.

Internal Painting:

All internal painting shall be measured plain. There shall be no extra coefficient for uneven surfaces in the internal plaster or unfinished / or form finished concrete. Contractor shall include the impact of such coefficient in his rate.

Painting to other members:

All painting work shall be measured in square meter.

Net area of the surface painted shall be measured. No deductions will be made for unpainted surfaces of ends of joists, beams, posts, etc. and openings not exceed 0.5 Sq.M. each and no addition shall be made for reveals jambs, soffits, sills, etc., of these openings.

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No.	Description of Work	How measured	Multiplying Factor
1	Paneled, framed, braced	Measured flat (not girthed) including frames, edges, chamfers, cleats, etc. shall be deemed to be included in the item.	1.30 (for each side)
2	Flush, part paneled and part glazed or gauzed	Measured flat (not girthed) including frames, edges, chamfers, cleats, etc. shall be deemed to be included in the item.	1.2 (for each side)
3	Fully glazed or gauzed or glazed louvered ventilators	Measured flat (not girthed) including frames, edges, chamfers, cleats, etc. shall be deemed to be included in the item.	0.8 (for each side)
4	Fully Venetian or louvered (not with glazing)	Measured flat (not girthed) including frames, edges, chamfers, cleats, etc. shall be deemed to be included in the item.	1.8 (for each side)
5	Weather boarding	Measured flat (not girthed). Supporting framework shall not be measured separately.	1.2 (for each side)
6	Trellis (not Jafri) work one way or two ways	Measured flat overall. No deductions shall be made for opening (supporting members shall not be measured separately)	1 (for each side)
7	Guard bars, balustrades, gratings, grills, railing, grill doors, grill partitions, etc.	Measured flat overall. No deductions shall be made for opening (supporting members shall not be measured separately)	1 (for painting all over)
8	Gates and open palisade fencing including standard braces, rails, stays, etc.	See note below	1 (for painting all over)
9	Carved or enriched work	Measured flat	2 (for each side)
10	Steel rolling/alligator type shutters	Measured flat over jambs, guides bottom and locking arrangement, etc. shall be deemed to be included in the item	1.1 (for each side)
11	Fully glazed or gauzed	Measured flat	1.0 (for all over)

Note: The height shall be taken from the bottom of the lowest rail, if the palisades do not go below it (or from the lower end of palisades if they project below the lowest rail) up to the top of palisades, but not up to the top of standards, if they are higher than the palisades; similarly for gates depth of roller shall not be considered while measuring the height.

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MEASUREMENTS OF CONCRETE ITEMS

Plain & reinforced, ordinary & controlled concrete:

The cement concrete items under various heads shall be measured to the exact dimensions, as per the drawings or the works executed under the orders of consultants or RCC specialist. The thickness of plaster finishing shall not be taken into account in measurements.

The rate for any particular item shall include all materials including all materials including all the concrete mixed as per the specifications and placing in position, and curing the concrete work, including all necessary centering shuttering and framework. The steel reinforcement shall be measured and paid for separately.

Concrete shall be measured as executed; no deduction shall be made for the following:

- 1) Volume of any steel embedded in concrete.
- 2) Voids not exceeding point one 0.10 Sq.M. in areas measured and point one 0.10 cubic meter in volume measurement.

LEAN CONCRETE:

Lean concrete shall be measured in cubic metre to the exact dimension as shown on the drawings. The depth of lean concrete shall be the difference in levels, before and after pouring the lean concrete in place. Measurements for filling in the pockets are approved if filled as per the instructions of the consultant.

FOOTING & PEDESTALS:

a) Footings: shall be measured in cubic metre. And shall be the sum of the straight and the sloping portion. The straight portion shall be the product of the area into the area into the height and the sloping portion shall be calculated by the trapezoidal formula.

$$H / 3 (A1 + A2 + \sqrt{A1 A2})$$

b) Pedestals: Shall be measured in cubic metre being the product of the area of the cross-section multiplied by the heights measured from the top of the footings upto the top of the floor concrete.

WALL

Concrete walls 23 cm and over in thickness shall be measured in cubic mt. Only such voids which measure more than 0.10 Sq.M. shall be deducted. The length of the wall shall be measured from top of the floor to the bottom of the ceiling or beams or beams as the case may be.

SLAB

Slab up to and including 230mm shall be measured in cubic metre. The measurement of slabs shall be the area including bearing: no deductions shall be made for the portion of the slab which forms parts of the beam below (T beam or L beam) or above (inverted beams). The openings are less than 0.1 Sq.M. shall not be deducted. Where the thickness of the slab changes, the length or width of the slab shall be measured from the center of the beam concerned. No extra shall be paid for the cantilever slabs.

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FLOOR BEAMS

These shall be measured in cubic metre being the product of:

- a) The length between the faces of the supporting beams of columns or the length including the bearings.
- b) The breadth of the beam projecting below the slab and
- c) The height or depth (average if verifying) projecting below the underside of the slab.

In case of inverted floor beams the product is of:

- a) The length from column face to column face
- b) The breadth of the stem projecting above slab and
- c) The height or depth projecting above the top slab.

No extra shall be paid for cantilever beams. **LINTELS**

Lintels shall be measured in cubic metre and shall be the product of length, including the bearings and the cross-sectional area.

BANDS

Concrete bands of specified thickness shall be measured in Cu.M. The width shall be considered including its bearings in the masonry.

M.S. REINFORCEMENT:

The rates for M.S. reinforcement at any height shall include for the labour for cutting, hooking, cranking, placing in position and binding with binding wire complete.

The rate for M.S. reinforcement shall include for the binding wire, which will not be measured and paid for. Wastage will not be measured and paid for. Authorized overlaps only will be measured and paid for. Laps required because of the contractor's use of shorter bars will not be paid for. The chairs, spacers, pins etc will not be paid for. The contractor shall include the cost of them in his unit rate of item.

Reinforcement shall be measured in metric tonne.

STRUCTURAL STEEL WORK:

As per I.S.I. mode of measurement.

The steelwork shall be measured by weight except otherwise mentioned.

Unless otherwise specified, weight of cleats, brackets, packing pieces, bolts, nuts, washers, distance pieces, separators, diaphragm, gussets (taking overall rectangular dimensions), fish plates, etc, shall be added to the weight of respective items. In riveted works, allowance is to be made for weight of rivet heads. No

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deduction shall be made for rivet or bolt holes (excluding holes for anchor or holding down bolts). Deduction in case of rivet or bolt hole shall however be made if its area exceeds 0.02 m² and for notch if its area exceeds 0.50 m². For other types of openings like holes for service pipe etc, deduction shall be made if its area exceeds 0.1m².

ANTITERMITE TREATMENT:

The mode of measurement for payment to contractors shall be on the basis of plinth area of ground floor only.

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APPROVED MAKES OF MATERIALS- CIVIL

NOTE :

1. All materials shall be of first quality as produced by the manufacturer. This is particularly applicable to glazed and ceramic tiles, paints and sanitary fittings.
2. In case it is established that brands specified below or not available in the market or the delivery period is too long; equivalent brands may be used after approval by the Architects, in which case contractor shall produce all necessary documents such as catalogs, certificates etc., to prove their suitability.
3. Approved samples shall be kept at site in the office of the clerk-of-works.
4. Where specifically called for, warranties shall be obtained from the manufacturers in favor of the owner.

No.	MATERIAL	APPROVED MAKE / BRAND
1.	Cement (53 grade)	Ultratech, A.C.C., Birla shakti, Ambuja
2.	Cement (43 grade)	Ultratech, A.C.C., Birla shakti, Ambuja
3.	PPC	Ultratech, A.C.C., Birla shakti, Ambuja
4.	White cement	Birla, J.K.
5.	Putty	Birla White / JK White
6.	Cement and mixtures (Plasticizers hardness, retardant etc.)	Fosroc, Sika qualcrete, Bauchemie
7.	High yield strength deformed bar	As specified, make Rajouri / Kalika / Rajlakshmi
8.	Steel Sections	Jindal, Hindustan & Tata.
9.	Anti termite treatment	Dursban (TC) (Chlorpyrifos 20% EC)
10.	Glazed tiles	1 st quality Nitco / Kajaria / Johnson / Euro or equivalent.
11.	Ceramic Tiles	Kajaria / Nitco/ Euro / Johnson
12.	Kotah / Granite / Rough Shahabad flooring stone	Export Quality / As approved.
13.	Katni Marble	Export Quality / As approved.

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No.	MATERIAL	APPROVED MAKE / BRAND
14.	Flush Doors	Anchor, National, Tower, Classic
15.	Commercial Plywood	Anchor, Euro, National, Century, Greenply.
16.	Marine Plywood	Anchor, Euro, National, Century, Greenply.
17.	PVC Doors	Eureka / Sintex / Rajashree
18.	Laminates	Formica, Royal Touch, Marino, Greenlam
19.	Aluminium Sections	Jindal, Hindalco
20.	Glazing (Float Glass)	Modi Float, Triveni, Asahi, Saint Gobain
21.	SPIDER FITTINGS	Delco, Dorma, or equivalent.
22.	Floor springs/ Lock patch	Enox, Hardwyl,
23.	Silicon	dowcorning, Ge make
24.	Waterproofing Compounds	Dr.Fixit., Pedilite, Impermo.
25.	Paints	Asian / Berger / Nerolac / Dulux
26.	Waterproof cement paint	Snowcem
27.	Asbestos Roof Sheets	Everest, Charminar
28.	Expansion bolts	Fischer / Hilti
29.	Acp work (elevation treatment)-fittings	Euro bond, Timex
30.	Vitrified tiles	Kajaria / Nitco/ Euro / Johnson
31.	Light Weight Bricks	Ecolite, U-crete, Ultratech, Flyo-crete.
32.	Gypsum –finished item	Gypsum india,
33.	Metacolour sheet	Tata, CRIL

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STANDARDS OF CEMENT CONSUMPTION

Sr. No.	Item	Unit	Requirement in bags
PLAIN CEMENT CONCRETE			
1.	Cement concrete (1:2:4)	Cum.	5.84
2.	Cement Concrete (1:3:6)	Cum.	4.05
3.	Cement Concrete (1:4:8)	Cum.	3.20
4.	Cement concrete (1:5:10)	Cum.	2.52
REINFORCED CEMENT CONCRETE (as per mixed design)			
5.	Cement concrete M-15	Cum	Minimum As per IS Code / Design Mix
6.	Cement concrete M-20	Cum	Minimum As per IS Code / Design Mix
7.	Cement concrete M-25	Cum	Minimum As per IS Code / Design Mix
8.	Cement concrete M-30	Cum	Minimum As per IS Code / Design Mix
9.	Cement concrete M-35	Cum	Minimum As per IS Code / Design Mix
BRICK WORK			
10.	B.B. Masonry in C.M. 1:6	cum.	1.44
11.	B.B. Masonry in C.M. 1:8 proportion	Cum.	1.13
12.	Half brick masonry in C.M. 1:3 proportion	Sqm.	0.17
13.	150 mm thick brick masonry	Sqm.	0.22
MASONRY			
14.	U.C.R.S. Masonry in C.M.1:6 proportion	Cum	1.77
15.	C.R.S. Masonry in C.M. 1:5 proportion	Cum	1.80
16.	C.R.S. masonry in C.M. 1:6 proportion	Cum	1.50
DAMP PROOF COURSE			
17.	Providing & laying damp proof course 50 mm thick in (1:2:4)	Sqm.	0.35
18.	Finishing the terrace slab 20 mm thick in C.M. thick in 1:3 proportion	Sqm.	0.20
19.	Providing water proofing to W.C. and bath	Sqm.	0.276
20.	Providing water proofing in W.C. and bath including brick bat coba.	Cum.	4.00
21.	Box Type Water proofing	Sqm.	0.50
PLASTERING			
22.	Providing internal cement plaster 6 mm thick single coat in C.M. 1:4	Sqm.	0.045
23.	Providing internal cement plaster 6 mm thick single coat in C.M. 1:3	Sqm.	0.07
24.	Providing cement plaster 12 mm thick in single coat in C.M. 1:5	Sqm.	0.08
25.	Providing cement plaster 12 mm thick in single coat in C.M. 1:4	Sqm.	0.10
26.	Providing cement plaster 12 mm thick in single coat in C.M. 1:3	Sqm.	0.12

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Sr. No.	Item	Unit	Requirement in bags
27.	Providing cement plaster 20 mm thick in single coat in C.M. 1:3	Sqm.	0.19
28.	Providing cement plaster 20 mm thick in single coat in C.M. 1:5	Sqm.	0.13
29.	Providing cement plaster 20 mm thick in single coat in C.M. 1:5 proportion	Sqm.	0.13
30.	Providing cement plaster 20 mm thick in single coat in C.M. 1:4 proportion	Sqm.	0.15
31.	Providing cement plaster 20 mm thick in single coat in C.M. 1:3 proportion	Sqm.	0.19
32.	Providing cement plaster 25 mm thick in two coat in C.M. 1:4 proportion	Sqm.	0.22
33.	Sand faced plaster in two coats	Sqm.	0.22
34.	Rough cast plaster in two coats in C.M. 1:4 proportion	Sqm.	0.22
35.	Providing flush groove pointing in C.M. 1:3 for brick work	Sqm.	0.03
36.	Providing flush groove pointing in to stone masonry in C.M. 1:3 proportion	Sqm.	0.025
37.	Providing tuck pointing with C.M. 1:3 prop	Sqm.	0.05
38.	Providing vee pointing for stone masonry in CM 1:3	Sqm.	0.03
39.	Providing fine finish 1.5 mm, thick over green surface	Sqm.	0.044
PAVING, FLOORING FINISHING AND DADO			
40.	Providing and laying R.S.H. flooring 25mm to 30mm on bed of 1:6 C.M. and pointing C.M. 1:3	Sqm	0.135
41.	Providing and laying R.S.H. flooring 40mm to 50mm on bed of 1:6 C.M. and pointing C.M. 1:3	Sqm	0.14
42.	Providing and laying R.S.H. flooring 50mm to 60mm on bed of 1:6 C.M. and pointing C.M. 1:3	Sqm	0.150
43.	Providing and laying polished Shahabad stone flooring 25mm to 30 mm thick on bed 1:6 proportion	Sqm.	0.13
44.	Providing and laying polished Tandur stone flooring 25mm to 30 mm thick on bed 1:6 proportion	Sqm.	0.130
45.	Providing and laying polished Kotah stone flooring 25mm to 30 mm thick on bed 1:6 proportion	sqm.	0.130
46.	Providing and laying skirting and dado of polished Shahabad stone 25mm to 30 mm with 1:4 C.M.	Sqm	0.18
47.	Providing and laying skirting of polished Tandur stone 25mm to 30 mm with 1:4 C.M.	Sqm.	0.18

Sign & Seal of Contractor

Corrections

the Registrar

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

Sr. No.	Item	Unit	Requirement in bags
48.	Providing & laying C.C. flooring 40 mm thick with C.C. 1:1½:3	Sqm.	0.36
49.	Providing & laying C.C. flooring 50 mm thick with C.C. 1:1½:4	Sqm.	0.44
50.	Providing and laying flooring of plain cement tiles of 25 x 25 mm on bed for flooring	Sqm.	0.15
51.	Providing and laying plain cement tiles for dado and skirting 1:4 proportion	Sqm.	0.18
52.	Providing and laying coloured tiles 25 x 25 mm size	Sqm.	0.15
53.	Providing and laying for coloured tiles for dado skirting	Sqm.	0.18
54.	Providing and laying white glazed tiles for flooring	Sqm.	0.22
55.	Providing and laying glazed tiles for dado and skirting	Sqm.	0.21
56.	Providing and laying gray cement base mosaic tiles for flooring 25 x 25 cm	Sqm.	0.15
57.	Providing and laying for dado and skirting cement base mosaic tiles 25 x 25 cm	Sqm.	0.18
58.	Providing and laying machine cut white Makrana flooring	Sqm.	0.17
59.	Providing and laying is situ marble mosaic tiles 10 mm thick		
	Gray Cement	Sqm.	0.200
	White Cement	Sqm.	0.130
60.	Providing and laying is situ dado tiles 10 mm thick		
	Gray Cement	Sqm	0.20
	White Cement	Sqm	0.08
61.	Providing & laying required position flooring of broken china	Sqm.	0.30
62.	Providing and laying polished shahabad stone 25 mm to 30 mm thick for tread and riser	Sqm.	0.18

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

**Repairing work and reconstruction of
compound wall at SNTD Juhu Campus.**

VOLUME – III

Bill of Quantity (BOQ)

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

BILL OF QUANTITIES

Sr. No.	Quantity	Description of Item	Rate	Unit	Amount
1.	75.00	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc.	330.75	Cum.	24806.25
2.	335.43	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding	8222.63	Cum.	2758116.78
3.	5258.00	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen	658.93	Sqm.	3464653.94
4.	5682.00	Providing and applying two coats of exterior acrylic emulsion paint conforming to corresponding I.S. of approved manufacture and of approved color to the plastered surfaces including cleaning, preparing the plaster surface, applying primer coat, scaffolding if necessary, and watering the surface for two	252.00	Sqm.	1431864.00
5.	1400.00 0	Providing and erecting Y type barbed fencing with seven rows of wire with 2.45 dia G.I. pipe (Rezan/ concerti Deleted ire mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x with wire, painting M.S. angles with one red lead primer and two coat of oil paint complete.	865.20	Rmt.	1211280.00

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

6.	79.500	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic microprocessor-based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand	7378.08	Cum.	586557.36
7.	5.270	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	75366.9	M.T.	397183.56
8.	8.100	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:5 in basements including scaffolding, bailing out water manually, racking out joints when plastering is to be done striking joints where no pointing or plastering is to be done and watering etc. complete.	5424.88	Cum.	43941.53
9.	93.500	Removing any kind of debris including loading in truck and conveying to dumping point approved by MCGM, unloading, spreading etc. Complete. With all leads and lifts.	767.74	Cum.	71783.69
Total(A) Work Portion ₹. =					99,90,187.11
Say ₹. =					99,91,000/-

NOTE:

- 1. Contractor should consider cost of scaffolding wherever required for the work while quoting the quote no extra cost will be considered during execution.**

Repairing work and reconstruction of compound wall at SNTD Juhu Campus.

- 2. The bidder shall fill the rates online in the BOQ sheet provided in the e-tender portal only.**
- 3. GST Will be paid as actual.**