

**SHRI TULJABHAVANI TEMPLE TRUST,
TULJAPUR, DIST. OSMANABAD**



**TENDER DOCUMENT
(B-1 Form)**

**Name of Work :- CONSTRUCTION OF GIRL'S HOSTEL BUILDING
FOR SHRI TULJABHAVANI COLLEGE OF
ENGINEERING, TULAJPUR**

Amount : Rs. 20962915/-

ARCHITECTS :

**Civil Engineering Department
Shri TuljaBhavani College of Engineering, Tuljapur
Tuljapur – 413601 Dist. – Osmanabad**

**Tender issued to _____
_____**

**Principal
S.T.B.College of Engg.,
Tuljapur**

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**Name of Work :- Construction Of Girl's Hostel Building For
Shri Tuljabhavani College Of Engineering,
Tuljapur Dist. – Osmanabad**

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Name Of Employer :- Collector Osmanabad And Chairman, Shri Tuljabhavani Temple Trust, Tuljapur, Dist. Osmanabad. Original Agreement No. B – 1.

Name of Work : Construction Of Girl's Hostel Building For Shri Tuljabhavani College Of Engineering, Tuljapur Dist. – Osmanabad

- 1) Name Of Contractor :-
- 2) Date of receipt of tender :-
- 3) No. and date of work Order :-
- 4) Amount put to Tender :- Rs. 20962915/-
- 5) Percentage quoted :-
- 6) Amount of contract :-
- 7) Date of commencement :-
- 8) Time stipulated for completion of work is 12 Calendar Months from the date of written order to start work, which will include the Monsoon Period.
- 9) Date of Completion as per Agreement :-
- 10) Actual Date of Completion :-
- 11) Reference to Sanction of Extension of time :-
 - i)
 - ii)
 - iii)

Certified that this original agreement contains.

Pages 1 to
Fly Leaves Nos.
Drawings Nos.

Contractor

DETAILS OF WORK

Name Of Work :- Construction Of Girl's Hostel Building For Shri Tuljabhavani College Of Engineering, Tuljapur Dist. – Osmanabad

Estimate cost put to tender :- **Rs. 20962915/-**

Earnest Money :- **Rs. 210000/-**

Demand Draft of scheduled Bank (separately for each work) in favour of the Principal, Shri Tuljabhavani College of Engineering, Tuljapur, Dist. Osmanabad. As Earnest Money should be attached to the Tender at the time of submission.

Total Security Deposit 4% (Four Percent) i.e. Rupees. **840000/-** (50 % in DD at the time of Agreement and 50 % from R.A. Bills.)

Time stipulated time limit for the completion is 12 Calendar Months, which will include Monsoon period.

To be filled by the Contractor

I / We have quoted My / Our offer in percentage rate in words as well as in figures. I / We further undertake to enter into contract in regular ~~B~~-1+ Form with Collector And Chairman, Shri Tuljabhawani Temple Trust, Tuljapur, Dist. Osmanabad.

Name and Signature of the contractor/
Power of Attorney Holders with complete address

Contractor

<p style="text-align: center;">श्री तुळजाभवानी मंदिर संस्थान, तुळजापूर संचालित श्री तुळजाभवानी अभियांत्रिकी महाविद्यालय, तुळजापूर तुळजापूर ४१३ ६०१, जि. उस्मानाबाद फोन नं. ०२४७१, २४२०१६, २४३६०३ Website : www.stbctet.org.in E-mail : stbctet@gmail.com निविदा सूचना क्र. २/२०१०-११</p>	
<p>जिल्हाधिकारी उस्मानाबाद तथा अर्च्यक्ष श्री तुळजाभवानी मंदिर संस्थान तुळजापूर हे श्री तुळजाभवानी अभियांत्रिकी महाविद्यालय परिसरातील खालील कामाकरिता महाराष्ट्र शासनाकडील योग्य त्या वर्गातील नोंदणीकृत कंत्राटदारांकडून ब-१ नमुन्यात सीलबंद निविदा मागवित आहेत.</p>	
कामाचे नाव	श्री तुळजाभवानी अभियांत्रिकी महाविद्यालय, तुळजापूर येथे मुलींचे वसतिगृहाचे बांधकाम करणे.
अंदाजपत्रकीय किंमत	रु. २,०९,६२,९१५/-
कंत्राटदाराचा वर्ग	वर्ग-३ व त्यावरील
बयाणा रक्कम	रु. २,१०,०००/-
कोऱ्या निविदा बिक्री कालावधी व मिळण्याचे ठिकाण	दि. १०-१२-२०१० ते ५-१-२०११ श्री तुळजाभवानी अभियांत्रिकी महाविद्यालय तुळजापूर
निविदा पूर्व बैठक	दि. ३०-१२-२०१० रोजी दुपारी ४.०० वा. जिल्हाधिकारी कार्यालय उस्मानाबाद येथे.
निविदा स्वीकृती तारीख वेळ व ठिकाण	दि. १२-१-२०११ रोजी साय. ५.०० वाजेपर्यंत तुळजापूर विकास प्राधिकरण कार्यालय द्वारा- जिल्हाधिकारी कार्यालय उस्मानाबाद
निविदा उघडण्याची तारीख वेळ व ठिकाण	शक्य झाल्यास दि. १२-१-२०११ रोजी साय. ५.३० वा. जिल्हाधिकारी कार्यालय उस्मानाबाद
कोऱ्या निविदेची किंमत	रु. १०,०००/-
<p>१.) सविस्तर निविदा सूचना प्राचार्य श्री तुळजाभवानी अभियांत्रिकी महाविद्यालय, तुळजापूर व तुळजापूर विकास प्राधिकरण कार्यालय द्वारा. जिल्हाधिकारी कार्यालय उस्मानाबाद यांच्या कार्यालयात नोटीस बोर्डवर पाहण्यास मिळेल. २.) कोरी निविदा श्री तुळजाभवानी अभियांत्रिकी महाविद्यालयाच्या www.stbctet.org.in या संकेतस्थळावरून उपलब्ध करून घेता येईल. ३.) वरील निविदा सूचनेमध्ये बदल करणे किंवा निविदा संचामध्ये दुस्स्ती व बदल करणे, एक किंवा अनेक निविदा काही कारण न देता नाकारण्याचा अधिकार निम्नस्वाक्षरितांनी राखून ठेवला आहे.</p>	
<p>डॉ. एम.डी. पाटील प्राचार्य श्री तु.म.अभि.महाविद्यालय तुळजापूर</p>	<p>डॉ. प्रवीण गेड्याम जिल्हाधिकारी, उस्मानाबाद तथा अर्च्यक्ष श्री तु.म.अभि.महाविद्यालय तुळजापूर</p>
<p>द्विजीआयपीआर/२०१०-२०११/२०५८</p>	

बाद • मोगरा स्कॅनग्राफ प्रा.लि., बी-३४, एमआयडीसी एरिया, लातूर आणि लोकमत न्यूजपेपर्स प्रा.लि., लोकमत भवन, प्लॉट नं. डी-११८, एमआयडीसी, नांदेड येथे मुद्रित करून लोकमत क - दिनकर रायकर ♦ संपादक - सुभाषचंद्र वाघोलीकर ♦ निवासी संपादक - चक्रधर दळवी* (*या पत्रातील मजकुराच्या निवडीसाठी पी.आर.बी. कायदानुसार संपादकीय जबाबदारी ४०-२४८४१३०. ग्राम : लोकमत e-mail : dainiklokmat1@dataone.in

DETAILED TENDER NOTICE

**Name Of Work : Proposed construction of Girls Hostel Building for
Shri Tuljabhavani College of Engineering, Tuljapur.**

- 1) Sealed percentage rate tenders in B-1 form are invited by the collector, Osmanabad & Chairman, Shri Tuljabhavani College of Engineering, Tuljapur Dist. . Osmanabad from the contractors registered in appropriate class-3 and above under the system of approved list of contractors in Maharashtra State. The name of work, estimated cost, earnest money, security deposit, time limit for completion etc are as under.

Sr. No.	Name of Work	Estimated Cost of work	Earnest money deposit	Security deposit		Class of contract or	Time limit for completion
				Before agreement	Through bills		
1	Proposed construction of Girls Hostel Building for Shri Tuljabhavani College of Engineering, Tuljapur.	2,09,62,915/-	2,10,000/-	4,20,000/-	4,20,000/-	3 rd & above	12 calender months

- 2) Blank tender forms containing conditions of contract, specification and contract drawing can be available on cash payment of Rs 10,000/- per set (non refundable) from the office of the Principal, Shri Tuljabhavani College Of Engineering, Tuljapur from 10/12/2010 to 05/01/2011 on working day. Tender form will not be supplied by post.
- 3) Pre-bid meeting on 30/12/2010 at 16.00 hours at Collector Office, Osmanabad
- 4) The tenders will be received up to 17.00 hours on 12/01/ 2011 at Tuljapur development authority office, Collector Office Osmanabad. & may be opened on the same day if possible at Collector Office, Osmanabad on 17.30 hours in the presence of the intending contractors or their authorized representatives.
- 5) The tender should be accompanied by earnest money deposit in the form of demand draft of Nationalized scheduled bank payable at Tuljapur in the favour of Principal, Shri Tuljabhavani College of Engineering, Tuljapur.
- 6) Exemption from earnest money and security deposit is not allowed. Every tender shall accompanied with earnest money deposit.
- 7) The amount of EMD will be forfeited in case the successful tenderer does not remit the initial security deposit and complete the contract document within the time limit as specified by Principal, Shri Tuljabhvani College Of Engineering, Tuljapur in all other case the EMD will be refunded for with an application.
- 8) The successful tenderer shall have to pay half the security deposit in

form of demand draft only from any schedule Bank and balance security deposit will be recoverable through the bills at the percentage as shown in item of memorandum in printed B-1 form or as may be decided by Collector, Osmanabad & Chairman, Shri Tuljabhavani College Of Engineering, Tuljapur, whose orders will be final and binding on the contractor.

- 9) The tendering procedure and manner of submission of the tender and opening of the tender will be as per rules in B-1 Form.
- 10) The acceptance of tender may be communicated to the contractor telegraphically or otherwise and either by tender opening authority or Principal, Shri Tuljabhavani College Of Engineering, Tuljapur
- 11) The tenderer shall enter in the blank space on page No. 19 of printed form B-1 under para %Tender for Works+ The percentage in figure and words and score out one of the words below / above as necessary under his attestation in case of difference between percentage in figure and words the lower of two will be treated as final offer.
- 12) Conditional tender will not be accepted.
- 13) The contractor will have to sign the original copy of tender and drawings according to which work is to be carried out he shall have to sign a declaration to the effect that he has fully studied the plans specifications, local conditions, availability of labor and material and that he has quoted his rates with due consideration to all these factors.
- 14) The right to revise amend the contract documents prior to the date as notified for receipt of tenders or extended date is reserved. Such a deviations, amendments or extensions if any shall be communicated in the form of corrigendum by letters/or/and by notice in Newspapers as may be considered suitable.
- 15) Examination of drawings & site conditions - The tenderer shall in his own interest carefully examine the drawings, conditions of contract, specifications etc. He shall also inspect the site and shall acquaint himself about the climate, physical and all other conditions prevailing at site, the nature magnitude, special features, practicability of work, all existing and required means of communications and access to site availability of housing facilities, the availability of labor & materials, labor camps, site storage & godown etc. He shall obtain all necessary information

as to risk, contingencies and other circumstances which may effect and influence

the tender. No claim on account any of the above or any other factors will be entertained by S.T.B. College of Engineering, Tuljapur. Should there be any discrepancies / doubt or obscurity as to meaning of any of the tender documents or as to the instructions to be observed by him. He shall set forth in writing such discrepancies / doubt or obscurity and submit the same to the Principal, Shri Tuljabhavani College Of Engineering, Tuljapur for elucidation as soon as possible.

16) The tender submitted by the tenderer shall be valid for a period of 120 days from the date of opening of tender.

17) The contractor whose tender is accepted is required to note that no foreign exchange will be released by the S.T.B.College of Engineering, Tuljapur.

18) The tender which do not fulfill all or any of the conditions or are in incomplete form in any respect are liable to be summarily rejected.

19) If the tenderer downloads blank tender form from the college website, he shall have to submit additional demand draft of Rs. 10,000/- against the cost of blank tender form in the favour of Principal, Shri Tuljabhavani College of Engineering, Tuljapur.

20) The tender accepting authority is not bound to accept the lowest tender. The right to reject any or all the tenders without assigning reasons therefore is reserved. The power of acceptance of the tender is vested to Collector, Osmanabad & Chairman, Shri Tuljabhavani College of Engineering, Tuljapur.

Dr. M.D. Patil
Principal
S.T.B.College Of Engg.
Tuljapur

Dr. Praveen Gedam
Collector, Osmanabad &
Chairman, S.T.B.College of Engg.,
Tuljapur

Contractor

WORK AND SITE CONDITIONS

Name Of Work : Proposed construction of Girls Hostel Building for Shri Tuljabhavani College of Engineering, Tuljapur.

1. General Description of Works :-

The proposed work consists of following activities.

- a) R.C.C. Framed structures with sizes of columns considered as per G.F. + 2 Plan and Architectural Elevation of Proposed construction.
- b) R.C.C. roof slab.
- c) External brick walls 23 centimeter thick in cement mortar 1:6 and internal partition walls 15 centimeter in cement mortar 1:4 proportion with plaster on external faces with sand faced plaster.
- d) Polished kotah stone / ceramic / vitrified flooring.
- e) Ceramic tile flooring and dado for toilets.
- f) Doors, windows and ventilators as per design.
- g) Washable oil bound distemper for internal faces and three coats of waterproof paint for external faces.

The proposed work is situated in Tuljapur, Dist. Osmanabad

Labour and material is available in Tuljapur town with normal rate.

Nearest

railway station is Osmanabad, which is 30 Kms. away from Proposed site.

Contractor

ANNEXURE – 1

MANNER OF SUBMISSION OF TENDER
TENDERING PROCEDURES

Condition for payment of performance security deposit if the offer is lower than 15% below.

In case the tendered offers rate lower than 15% below of the estimated cost put to tender, tendered will have to pay additional security deposit along with the initial security deposit for performance of work of the extent of amount exceeding 15% below offer, in the form of Demand Draft in the favor of Collector & Chairman, Shri Tuljabhawani Temple Trust, Tuljapur Dist. Osmanabad. Failing to which such tender, will be considered as withdrawn and their EMD shall be forfeited to Employer.

The additional security deposit shall be refundable as per Clause No. 1 of B ó 1 form.

In the event of failure of Tenderer to pay Security Deposit within 10 Days (Unless extended in writing by the Employer from the date of receipt of notice (Sent by Registered Post) of acceptance of his tender, the amount of earnest money deposit shall be forfeited to Employer and the acceptance of his tender, shall be considered withdrawn. Except that in the event of the notice of acceptance of the tender not being issued within 120 days of the date of opening of Envelop No. 2 of Tender (Financial Bid) the tenderer shall have the option (to be intimated in writing in good time before the expiry of 120 days period) of withdrawing his Tender, in which case the Earnest Money Deposit should be refunded in full. All the tenders shall remain open for acceptance for 120 days from the date fixed for opening of Envelop No. 2 of tender (Financial Bid) & thereafter until it is withdrawn by the tenderer notice in writing as per condition no. 2 of the memorandum on page no.

Earnest money of the unsuccessful tenderer will be refunded to them application only after an intimation of rejection of their tender is sent to them or on the expiry of the validity period which ever is earlier.

The acceptance of the tender may be intimated to the contractor telegraphically or otherwise and either by the officer competent to accept the tender or any authority in the Employer including Employer and such intimation of acceptance of the tender given by the authority competent to accept the tender.

Contractor

In case there is difference between amount written in figures and in words the Lower Offer will be taken as Final.

No pages should be removed from, added in, or replaced in the tender.

Tendering Procedure

A) BLANK TENDER FORMS

Blank tender forms can be purchased from the office of the Principal, Shri Tuljabhavani College of Engineering, Tuljapur Dist. Osmanabad as stipulated in the Tender notice.

B) PER- TENDER CONFERENCE

(APPLICABLE FOR WORKS COSTING MORE THAN RS. FIFTEEN LAKHS)

- i) As per tender conference open to all prospective tenders will be held on 30/12/2010 at 16.00 Hours in the office of the Collector, Osmanabad and The Chairman Shri Tuljabhavani Temple Trust, wherein the prospective tenders will have an opportunity to obtain clarifications regarding the work and the tender conditions.
- ii) The prospective tenderers are free to ask for any additional information or clarification either in writing or orally and the reply to the same will be given by the Collector, Osmanabad and The Chairman Shri Tuljabhavani Temple Trust, Tuljapur in writing and this clarifications referred to as common set of condition shall form part of tender document and which will also be common and applicable to all tenders.
- iii) The tender submitted by tenders shall be based on the clarification additional facility issued (if any by the Department and his tender shall be un-conditional, conditional tenders will be summarily rejected.)
- iv) All tenders are cautioned that the tenders containing any deviation from the contractual terms and conditions and specifications or other requirements, and conditional tenders will be rejected as no responsive.

C) MANNER OF SUBMISSION OF TENDER & (ITS ACCOMPANIMENTS) TENDERER SHALL SUBMIT THE TENDER AND DOCUMENT IN TWO SEALED ENVELOPES AS BELOW

Contractor

A) ENVELOPE No. 1 : (Documents)

The first envelope clearly marked as "Envelope No.1" shall contain the following document.

- i) Demand draft of Nationalize scheduled bank for the amount of earnest money.

- ii) Certificate in original or attested thereof duly attested by Gazetted Officer, as a registered contractor, with the Government of Maharashtra in appropriate class as may be applicable.
- iii) Sales Tax Registration Certificate (if any) in form II, Rule 4(1) as provided by Maharashtra State, Sales Tax Act (Maharashtra Act No. XXVI of 1989, the Maharashtra Sale Tax on Transfer or property in Goods involved in execution of work contract (Re-enacted Act 1989) from the Sales Tax Committee of Maharashtra State (In Original or a copy duly attested by Gazetted Officer)
- iv) PAN & upto date Income Tax clearance certificate in original from Income tax officer of the circle (or True copy thereof duly attested by a Gazette officer valid on the date fixed for receipt of tender, unless specifically exempted in this respect by the Government.)
- v) List of machinery and plants immediately available with the tenderer for use on the 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. (In statement No. III) (See Page No 107)
- vi) Details of works of similar type and magnitude carried out by the contractor (In statement no 6 I) (See Page No 105)
- vii) Details of technical personal on the rolls of the tenderer (In Statement No. 6 IV) (See Page No. 108)
- viii) Details of other works tendered for and in hand with the value of work unfinished on the last date of submission of the tender. (In Statement No. 6 II) (See Page No 106)
The certificate from the Head of the offices under whom the work are in progress should be enclosed.
- ix) Certified copy of Partnership Deed and Power of Attorney, in case of a Firm tendering for work (True copy duly attested by a Gazetted Officer).

Contractor

- x) Valid Professional Tax Registration Certificate (if any) in the form of PTR/PTE under Section (I) section (5) of Maharashtra State Tax in Profession, Trade calling and Employment Act 1975 Rule 3 (2) for Employees including technical personnel from the Professional Tax Office of the concerned district of Maharashtra.

- xi) While awarding works for black-topping it is necessary to ensure that the concerned contractor owns required machinery i.e Hot mix plant, Paver Finisher, Tippers etc. for use on the work for which he has tendered for and that having regard to the commitments which he has already made on the date of submission of tender for the use of above mentioned machinery, he shall be in a position to deploy the machinery on the tendered work within a reasonable time. In case the contractor does not own this plant and machinery but intends to hire it from another agency it is necessary to ensure that he has entered into legal agreement with another agency for supplying the required plant and machinery and also to ensure that the said agency shall be in a position to so are plant and machinery to the contractor in a reasonable time after award of the work. If the contractor intends to purchase the plant and after award of the work. If the contractor intends to purchase the plant and machinery from the manufacturer it is necessary to verify whether a firm order has been placed by him with the manufacturer and manufacturer have given firm commitment supply of machinery within a reasonable time after award of the work Employer is required to call for necessary any information in this regard from the intending contractor to be included in Envelope No.1 They should carry out a through scrutiny of the information supplied by the tenderer to satisfy themselves that the requisite plant and machinery will be available within a reasonable time after award of the work and then only open financial bid contained in the Envelope No. 2

B) EVELOPES No, 2 TENDER (Financial Bid)

The second envelope clearly marked as “ **Envelope No, 2**” shall contain only the main tender. Including the common set of conditions/ stipulations issued by the department after the pre-tender conference. A tender submitted without this would be considered as invalid. The tenderer should not quote this offer on schedule B of the tender. The percentage of offer should be quoted at the appropriate place of the tender documents (Page No. 19). to be submitted only in Envelop No. 2. He should not quote not his offer

Contractor

any where directly or indirectly in Envelope No. 1. The contractor shall quote for the works as per details given in the main tender and also based on the detailed set of conditions issued / additional stipulations made by the Department, as informed to his

by a letter from Collector, Osmanabad and The Chairman Shri Tuljabhavani Temple Trust, Tuljapur after pre-tender conference. This tender shall be un-conditional.

Where the contractor's own design is allowed for by the Employer or where the tenders of the contractor's own design are invited by the Employer, broad details shall be enclosed by the tenderer in Envelopes No. 2. This shall be subjected to scrutiny by the Employer to ascertain the technical feasibility and acceptability of the design doubts if any, shall be got clarified by the Employer. If the Employer finds such design or assumptions unacceptable, offers for such designs in Envelope No. 2 shall not be considered by the Department.

C) SUBMISSION OF TENDER

The two sealed **Envelope no. 1 and 2** shall be again put together with **one common cover** and sealed. This sealed cover shall be mark do on the left hand top corner, "TENDER FOR THE WORK OF **Proposed construction of Girls Hostel Building for Shri Tuljabhavani College of Engineering, Tuljapur.**

The full name and address of the tenderer and the name of the authorized agent delivering the sealed cover containing the tender shall be written on the bottom left hand corner. If submitted by post the sealed envelope marked as above shall be enclosed in another cover separately addressed and shall be sent by registered post acknowledgement due/courier service. The date and time for receipt of envelope containing tender shall strictly apply in all cases.

The tenderers should ensure that, their tender is received by Tuljapur Development Authority Collector Office, Osmanabad before the expiry of the date and time. No delay on account of any cause will be entertained for the receipt of the tender. Tender offered or received after the date and time is over, will either not be accepted or if inadvertently accepted will not be opened and shall be returned to the tenderer unopened.

Contractor

D) OPENING OF TENDER

On the date specified in the tender notice following procedure will be adopted for opening of the tender.

ENVELOPE NO.1

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

ENVELOPE NO.2

This envelope shall be opened immediately after opening of **Envelope No.1** only if contents of Envelope No.1 are found to be acceptable to the Employer. The tendered rate or percentage above/below the estimated cost rates shall then be read out.

The contractor will have to sign the original copy of the tender papers and the drawing according to which the work is to be carried out. The contractor shall also have to give a declaration of the effect that he has fully studied the plans, specifications available labour and materials and that he has quoted his rates with the consideration of all these factors.

Even though the bidder meet the above requirement they are subject to be disqualified if they have made :-

Misleading or false representation in the forms, statement and attachments submitted in proof of the qualification, requirements and / or

Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completions litigation history or financial failures etc.

The successful tenderer will be required to produce to the satisfaction of the specified concerned authority , a valid and concurrent license issued in his favor under the provisions of the contract Labor (Regulation and Abolition) Act, 1970, before starting the work of failure to do so, acceptance of the tender shall be liable to be withdrawn and Earnest money forfeited.

Contractor

- 1) In case the tenderer whose offer is found lowest is requested to negotiate and reduce the offer, does not respond within a period of 7 days the tender accepting authority without issuing any reminder reserves the rights to reject such tender.

- 2) In case the contractor who is informed of acceptance of his tender, does not remit the initial Security Deposit within a Period of 10 days, the tender accepting authority reserves that right to forfeit the Earnest Money Deposit without issuing any reminder to take further action according to the tender provision.

Contractor

FORM B-1

Percentage Rate Tender and Contract for Works

Employer :- Collector & Chairman Shri Tuljabhavani Temple Trust, Tuljapur

**Name of Work :- Proposed construction of Girls Hostel Building for
Shri Tuljabhavani College of Engineering, Tuljapur.**

General rules and Direction for the Guidance of Contractors

1) All works proposed to be executed by contract shall be notified in a form of invitation to tender pasted on board hung up in the office of the Principal Shri Tuljabhavani College of Engineering, Tuljapur.

This form will state the work to be carried out as well as the date for submitting and opening tender and time allowed for carrying out the work also the amount of earnest money to be deposited with the tender amount of the security deposit to be deposited by successful tenderer and the percentage, if any to be deducted from bills, Copies of the specification designs and drawings and estimated rates schedule rates and any other documents required in connection with the work duly signed by the Employer, Architect for the purpose of identification shall also be open for inspection by contractors at the office of the Principal, Shri Tuljabhavani College of Engineering, Tuljapur during office hours.

Where the works are proposed to be executed according to the specification recommended by a contractor and approved by a competent authority on behalf of the Shri Tuljabhavani Temple Trust, Tuljapur such specification with designs and drawings shall form part of the accepted tender.

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

2(A) i) The contractor shall pay along with the Tender the sum of Rs. 210000/- as a earnest money. The contractor may pay the said amount by forwarding along with the tender in the form of Demand draft only in the favour of Principal, Srhi T.B. College Of Engg., Tuljapur. The said amount of earnest money shall not carry any interest what so ever.

Contractor

ii) In the event of his Tender being accepted, subject to provision of subclause (iii) below the said amount of earnest money shall be appropriated towards the amount of security deposit payable by him under conditions of General Conditions of Contract.

iii) If after submitting the tender, the contractor with-draws his offer, or modifies the same, or if after the acceptance of his tender, the contractor fails or neglects to furnish the balance of security deposit without prejudice to any other rights and powers of the Employer here under, or in law, Employer shall be entitled to forfeit the full amount of the earnest money deposited by him.

iv) In the event of his Tender not being accepted, subject to the amount of earnest money deposited by the contractor shall, unless it is prior there to forfeited under the provision of sub clause (iii) above, be refunded to him on his passing receipt therefore.

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

4) Any person who submits a tender shall fill up the usual printed form stating at what percentage above or below the rates specified-in-Schedule B (memorandum showing item of work to be carried out) he is willing to undertake the work. Only one rate or such percentage on all the Estimated rates Scheduled rates shall be named. Tenders which propose any alternation in the works specified in the said from of invitation to tender, the time allowed for carrying out the work, or which contains any other condition, of any short will be liable to rejection. No printed form of tender shall including a tender for more than one they shall submit a separate tender for each work. Tender shall have the name and number of the work to when they refer, written outside the envelope.

5) The Employer, or his duly authorized Assistant shall open tenders in the presence of contractors with have submitted tenders or their representative who may be present at the time, and he will enter the amounts of the several tenders in a comparative statement in a suitable form in the event of a tender being accepted, the contractor shall for the purpose of identification, sign copies of the specifications and other documents mentioned in Rule-I. In the event of a tender being rejected, the Divisional Officer shall authorities the Treasury officer/ Bank

Contractor

concerned t refund the amount of the earnest money deposited to the contractor making the tender, on his giving a receipt for the return of the money.

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

7) No receipt for any payment alleged to have been made by a contractor in regard to any matter relating to this tender or the contractor shall be valid and binding on Employer unless it is signed by the Employer.

8) The memorandum of work to be tendered for and the schedule of materials to be supplied by the Employer and their rate shall be filled in and completed by the office of the Shri Tuljabhavani Temple Trust, Tuljapur Dist Osmanabad before the tender form is issued. If a form issued to an intending tenderer has not been so filled in and completed he shall request the said office to have this done before he completes and delivers his tender.

9) All work shall be measured net by standard measure and according to the rules and customs of the Department authority without reference to any local custom.

10) Under no circumstances shall any contractor be entitled to claim enhanced rates for items in this contract.

11) Every registered contractor should produce along with his tender certificate of registration as approved contractor in the appropriate class and renewal of such registration with date of expiry. (Copies to be attached by Gazatted Officer)

12) All corrections and additions of pasted slips should be initialed.

13) The measurements of work will be taken according to the usual method in use in the Department and proposals to adopt alternative methods will be accepted. The Assistant Engineer's decision as to what is the usual method in use in the department will be final.

14) Every tendering contractor shall furnish a declaration along with the tender showing all works for which he has already entered into contract and the value of the work the remains to be executed in each case on the date of submitting the tender.

15) Every tenderer shall submit along with tender information regarding the income tax-circle, or ward of the district in which he is assessed to income-tax, the reference to the number of the assessment and the assessment year and a valid income Tax clearance certificate.

Contractor

16) In view of the difficult position regarding the availability of foreign exchange no foreign exchange would be released by the Employer for the purchase of plant and machinery required for the execution of work contracted for.

17) The contractor will have to construct shed for storing controlled and valuable materials issued to him under schedule A of the agreement at work site having double

locking arrangement at contractor costs. The materials will then taken for use in the presence of the Departmental person. No materials will be allowed to be removed from the site of work.

18) The tendering contractor shall furnish a declaration along with the tender showing all works for which he has already entered into contract, and the value of work that remains to be executed in each case on the date of submitting the tender (With certificate from the head of the Office concerned).

18) The contractors shall also given a list of machinery in their possession and which they propose to use on the work in the form of statement No. 3 and statement on Page No. 107

19) Every registered contract should furnish along with tender statement showing previous experience and technical staff employed by him.

20) Successful tender will have to produce to the satisfaction of the accepting authority a valid and correct license issued in his favor under the provision of Contract Labor (Regulation and Abolition Act 1970 before starting work, failing which acceptance of the tender will be liable for withdrawal and earnest money will be forfeited to the Employer.

21) The contractor shall comply with the provision of the Apprentices Act 1961 and the rules and orders issued there-under from time to time. If he fails to do so, his failure will be a breach of the contract and the tender accepting authority may in his discretion cancel the contract. The contractor shall also be liable, for any pecuniary liability arising on account of any violation by him of the provisions of the Act.

Contractor

Tender for works

a) In figures as well as in words

I /We hereby tender for the execution, for the

**Collector & Chairman
Shri Tuljabhavani College of Engineering,
Tuljapur.**

(herein before and hereinafter referred to Employer) of the work specified in the under written memorandum within the time specified in such memorandum at _____ percent (In words _____) below/above the estimated rates entered in Schedule B (memorandum showing items of work to be carried out) and accordance in all respects with the specification, designs, drawing and instruction in writing referred to in Rule I hereof and in Clause _____ of the annexed conditions of contract and agree that when materials for the work are provided by the Employer such materials and the rates to be paid or them shall be provided in Schedule _____ hereto.

Contractor

MEMORANDUM

a) If several subwork are included they should be **of** detailed in a separate list.

b) Estimated cost

a) Name of work :- **Proposed construction of Girls Hostel Building for Shri Tuljabhavani College Engineering, Tuljapur.**

Rs. 20962915-

<p>c) The amount of earnest money to be deposited shall be in accordance with the provisions of paras 207 the Mt. P.W. Manual</p> <p>d) This deposit shall be in accordance with paras 214 Mt. W.D. Manual</p> <p>420000/-</p> <p>420000/-</p> <p>840000/-</p> <p>Months.</p> <p>e) Percentage if any to be deducted from bill so as to make up the total amount required as security deposit taken by the time half the work as measured by the cost is done _____ percent.</p>	<p>c) Earnest money</p> <p>d) Security deposit -</p> <p>i) Before agreement</p> <p>ii) To be deducted from current bills</p> <p>Total</p> <p>e) Time for completion</p> <p>f) Defect liability period</p> <p>h) Compensation per day for non completion of work</p>	<p>Rs.</p> <p>Rs.</p> <p>Rs.</p> <p>Rs.</p> <p>12 Calendar</p> <p>1 year</p> <p>Rs.1000/- per day.</p>
<p>f) Time allowed for the work from date of written</p>		<p>Contractor</p> <p>f) Give schedule where</p>

order to commence one Calendar months.

necessary showing dated by which the various items are to be completed.

g) Period for honoring payments of bills ó 3 Months.

h) Installments after virtual completion

- 4

i) Value of Interim Certificate - 50 laks.

2) I/We agree this offer shall remain open for acceptance for a minimum period 120 Days from the date of fixed for opening the same and there after until it is withdrawn by me/us notice in writing duly addressed to the authority opening the tenders and sent by registered post A.D. otherwise delivered at the office of such authority Demand Draft and date of deposit at call receipt No. _____ and date in respect of the sum of **Rs 210000 in words Rs. Two laks Then Thousand** representing the earnest money is here with forwarded. The amount of the earnest money shall not bear interest and shall be liable to be forfeited to the Employer should I/We fail to (i) abide by the stipulation to keep the officer open or the period mentioned above or (2) sign and complete the contract documents as required by the Employer and furnish the security deposit specified in item (d) of the memorandum contained in para I above within the time limit laid down in clause i) of annexed general conditions of contract. The amount of earnest

* Amount of be specified in words and figures

Contractor

money may be adjusted towards the security deposit or refunded to me, us so desired by me/us in writing, unless the some or any part thereof has been forfeited as aforesaid.

4) Should this be tender accepted I/We hereby agree to bide by and fulfill all the terms and provisions of the conditions of contract annexed here to so far as applicable and in default thereof to forfeit and pay to Employer the sums of money mentioned in the said conditions.

* Signature of contractor be fore submission of tender.

Contractor's Signature

Address

Dated the day of 2010

* Signature of witness to contractor's Signature

Signature of (witness)

(Address)

(Occupation)

* Signature of the officer
By whom accepted

The above tender is hereby accepted by me for and on behalf of the Shri Tuljabhavani Temple Trust, Tuljapur.

Collector, Osmanabad & Chairman Shri Tuljabhawani Temple Tulajpur.

Dated day of 2010 (or his authorized Assistant)

Contractor

GENERAL CONDITIONS & SPECIFICATIONS

- 1) The Engineer in charge will suitably modify or change the part of the drawing plans etc as per requirement.
- 2) The foundation adopted in the estimates for the work may be changed if necessitated due to actual site condition during execution.
- 3) The contractor must employ qualified skilled and fully authorized engineer for carrying out the work who may be available for 24 hours on site the contractor will appoint such engineer report the name of such authorized engineer before commencement of work.
- 4) The contractor shall make his own arrangement for quarries of rubble stone and murum, lime etc. no claim on account of lead charges/ frequent charges of quarries will be entertained @ all
- 5) Setting out-contractor shall be responsible for true and proper setting out of the works and for the correction of the position level dimensions and arrangements of all parts of works and for providing all necessary instruments appliances and labour in connection therewith @ his own cost if at any time during the progress of works any errors shall arise in regards in two levels and damnations or alignment of any part of the contractor satisfaction thereof on being required to do so will be carried out by the contractor at his own cost.
- 6) The contractor should note that income tax will be deducted from the payments of bill payable for work done as per rules prescribed from time to time by competent authority.
- 7) All the unused materials and plants and equipments not removed by the contractor within two months. On completion of work shall become the property of Shri Tulja Bhavani Temple Trust.
- 8) The contractor should note that he will not be entitled to price variation claims.
- 9) No cement and steel will be supplied by the Shri Tulja Bhavani Temple Trust. Contractor shall purchase ordinary port land 53 grade cement and shall use it for the work all materials to be used on work such as cement lime aggregates, steel, stones, asphalt, wood, tiles etc. shall be got approved in advance from the engineer in charge and shall pass the tests and analyses required by him. Which will be as specified in specifications or I.S.I. a specification. The contractor shall produce test reports of all materials to be used work @ his own cost.
- 10) The contractor must understand clearly that the rates quoted are of completed work and include costs due to labour scaffolding plants machinery supervision, power royalties, materials, octroy, taxes etc.
- 11) The contractor shall take all necessary precautions for the safety of the workers and preserving their health while working in such as required special protection and precautions.
- 12) Rates shall be inclusive of S.T. & other taxes etc.
- 13) If contractor does not complete the whole work within the time limit given to him his whole security deposit shall be forfeited to Shri Tulja Bhavani Temple Trust. & he will be liable to pay as compensation & amount per day as decided by Shri Tulja Bhavani Temple Trust.
- 14) This contract is under the jurisdiction @ the Tuljapur court.
- 15) Contractor shall sign all tender documents, tender papers.
- 16) The Contractor shall appoint structural designer @ his own cost. The architectural design prepared by the structural designer shall be got approved from competent

government authority such as IIT at contractor's cost. While preparing structural design of building the RCC designer should consider the earth quake effects.

Contractor.

CONDITIONS OF CONTRACT

Clause 1 –

***Security
Deposit***

The person/persons whose tender may be accepted (hereinafter called the contractor, which expression shall unless excluded by or repugnant to the context, include his, heirs, executors, administrators, and assigns) shall

- (A) within 10 days (which may be extend upto 90 days if the **Employer** Thinks fit to do so) of the receipt by him of the notification of the acceptance of his tender deposit with the **Employer** in form of DD endorsed to **Employer** (as specified in the tender notice) of sum sufficient which will make up the full security deposit specified in the tender or
- (B) (B) Permit **Employer** at the time of making any payment to him for work done under the contract to deduct such as bill amount of **Four Percent** to all moneys so payable such deductions to be held by Trust by way of Security Deposit) Provided always that in the event of the contractor depositing a lump sump by way of security deposit as contemplated at (A) above then and in such case if the sum so deposited shall not amount to **Four Percent** of the total estimated cost of the work, it shall be lawful for **Employer** at the time of making any payment to the contractor for work done under the contract to make up the full amount of **Four percent** by deducting a sufficient sum from every such payment as last aforesaid until the full amount of the security deposit is made up. All compensation or other sums of money payable by the contractor to the **Employer** under the terms of his contract may be deducted from or paid by the sale of sufficient part of his security deposit or from interest arising there from or from any sums which may be due or may become due by **Employer** to the contractor under any other contract of transaction of any nature on any account whatsoever and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall, within ten days thereafter, make good in D.D. securities endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof.
- If the amount of the security deposit to the paid in a lump sump within the period specified at (A) above is not paid, the tender/contract already accepted shall be considered as cancelled and legal steps taken against the contractor for the recovery of the amounts. The amount of the security deposit lodged by a contractor shall be refunded along with the payment of the final bill, if the date up to which the contractor has agreed to maintain the work in good order is over. If such date is not over, only 50% amount of security deposit shall be refunded along with the payment of the final bill. The amount of the security deposit retained by the **Employer** shall be released after expiry of period up to which the contractor has agreed to maintain the work in good order is over. In the event of the contractor failing or neglecting to complete rectification work

Contractor.

within the period up to which the contractor has agreed to maintain the work

in good, order, then subject to provisions of clauses 17 and 20 here of the amount of security deposit retained by **Employer** shall be adjusted towards the excess cost incurred by the **Employer** on rectification work.

(Note) : This will be the same percentage as that in the tender at (E)

Clause 2 –
Compensation The time allowed for carrying out the work as entered in the

For delay

tender shall be strictly observed by the contractor and shall be reckoned from the date on which the order to commence work is given to the contractor. The work shall through out the stipulated period of the contract be proceeded with, with all due diligence and the contractor shall pay as compensation an amount equal to one percent or such smaller amount as the **Employer** (Whose decision in writing shall be final) may decide, of the amount of the estimated cost of the whole work as shown by the tendered for every day that the work remains uncompleted, or unfinished after the proper dates. And further to ensure good progress during execution of the work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month to complete.

Contractor should complete the work as per phase period given below.

25% of the work in	¼ of the time
50% of the work in	½ of the time
75% of the work in	¾ of the time

Full work will be completed in 12 (Twelve) calendar months including Monsoon.

* **Note** :- The quantity of the work to be done within the particular time to be specified above shall be fixed and inserted in the blank space kept for the purpose by the officer competent to accept the contracts after taking into consideration the circumstances of each case and abide by the programme of detailed progress laid down by the **Employer**

In the event of the contractor failing to comply with these conditions he shall be liable to pay as compensation an amount equal to one percent or such smaller amount as the **Employer** (Whose decision in writing shall be final) may decide of the said estimated cost of the whole work for every day that the due quantity of work remain incomplete. Provided always that the total amount of compensation to be paid under the provisions of this clause shall not exceed 10 percent of the estimated cost of the work as shown in the tender.

Contractor.

***Action
when
whole of
security
deposit is
forfeited***

Clause 3 –

In any case in which under this clause or any clauses of this contract, the contractor shall have rendered himself liable to pay compensation amounting to the whole of his Security deposit (whether paid in one sum or deducted by installments) or in the case of abandonment of the work owing to serious illness or death of the contractor or any other cause the **Architect**, on behalf of the **Employer**, shall have power to adopt any of the following course, as he may deem best suited to the interest of Employer.

(a) To rescind the contract (for which rescission notice in writing to the contractor under the hand of **Employer** shall be conclusive evidence) and

in that case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of **Employer**.

- (b) To carry out the work or any part of the work departmentally debiting the contractor with the cost of the work, expenditure incurred on tools and plant, and charges on additional supervisory staff including the cost of work charged establishment employed for getting the unexecuted part of the work completed and crediting him with the value of the work done departmentally in all respects in the same manner and at the same rates as if had been carried out by the contractor under the terms of his contract. The certificate of the **Architect** as to the costs and other allied expenses so incurred and as the value of the work so done departmentally shall be final and conclusive against the contract.
- (c) To order that the work of the contractor be measured up and to take such part thereof as shall be unexecuted out of his hands, and to give it to another contractor to complete, in which case all expenses incurred on advertisement for fixing a new contracting agency, additional supervisory staff including the cost of work charged establishment and the cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the **Architect** as to all the cost of the work and other expenses incurred as aforesaid for or in getting the unexecuted work done by the new contractor and as to the value of the work so done shall be final and conclusive against the contract. In case the contract shall be rescinded under clause (a) Above the contractor shall not be entitled to recover or be paid, any sum for any work therefore actually performed by him under this contract unless and until the **Architect** shall have certified writing the performance of the such work and the and the amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified. In the event either of the courses referred to in clause (b) or (c) being adopted and the cost of work executed departmentally or through a new contractor and other allied expenses exceeding the value of such work credited to the contractors.

Contractor.

The amount of extras shall be deducted from any money due to the contractor/land revenue as per land revenue act by **Employer** under the contract or otherwise. Howsoever or from his security deposit or the sale proceeds thereof provided, however that the contractor shall have no claim against **Employer** even if the certified value of work done Employerally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clause (a), (b) or (c) is adopted by the **Employer**, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on account of or with a view to the execution of the work or the performance of the contract.

Clause 4 –

If the progress of any particular portion of the work is unsatisfactory **The Employer** shall notwithstanding that the general progress of the work is in accordance with the conditions mentioned in clause 2, be entitled to take action under clause 3 (b) after giving, the contractor 10 days notice in writing. The contractor will have no claim for compensation for any loss sustained by him owing to such action.

Clause 5 –

Contractor Remains liable to pay com if action not taken under clauses 3&4

In any case in which any of the powers conferred upon the **Employer** by clauses 3 and 4 hereof shall have become exercisable and the same shall not have been exercised the non exercise thereof shall not constitute waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor for which under any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the **Employer** taking action under sub-clauses (a) or (c) of clause 3, he may, if he so desires, take possession of all or any tools and plant, materials and stores in or upon the work of the site thereof or belonging to the contractor or procured by him and intended to be used for the execution of the work or any part thereof, paying or allowing for the same in account at the contract rates, or in the case of contract rates not being applicable at current market rates to be certified by the **Architect** whose certificate thereof shall be final. In the alternative, the **Employer** may, after giving notice in writing to the contractor or the contractor or his clerk of the work, foreman or other authorized agent require him to remove such tools and plant, materials, or stores from the premises within a time to be specified in such notice, and in the event of the contractor failing to comply with any such requisition, the **Employer** may remove them

Power to take position of or required removal of or sell contractor's plant

Contractor.

at the contractor's expense or sale them by auction or private sale on account of the contractor and at his risk in all respects, and the certificate of the **Architect** as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

Clause 6 –

Extension of time

If the contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidably hindered in its execution or on any other ground they shall apply in writing to the **Architect** before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he was hindered as aforesaid or on which the clause for asking for extension occurred, whichever is earlier ever and the **Architect**, may with prior approval authority competent to accept

the tender if in his opinion, there are reasonable ground for grant an extension, as he thinks necessary or proper. The decision of the **Employer** in this matter shall be final.

***Final
Certificate***

Clause 7 –

On the completion of the work the contractor shall be furnished with a certificate by the Architect of such completion, but no such certificate shall be give nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus materials and rubbish, and shall have cleaned off, the dirt from all wood work, doors, windows, wall, floor or other parts of any building in or upon which the work has been executed or of which he may be have possession for the purpose of executing the work, nor until the work shall have been measured by the Architect or his representatives or where the measurement have been taken by his subordinates until they have received approval of the Architect or his representatives, the said measurements being binding the conclusive against the contractor, if the contractor shall fail to comply with the requirement of this clause as to the removal of scaffolding surpluses materials and rubbish and cleaning of dirt on or before the date fixed for the completion of the work the Architect or his representative may at the expenses of the contractor, remove such scaffolding surplus materials and rubbish, and dispose off the same, as he thinks fit and clean off such dirt as aforesaid and the contractor shall forthwith pay the amount of all expenses so incurred, but shall have claim in respects of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

Contractor.

Clause 8 –

***Payment of
Intermediate
Certificate to
be regarded***

No payment shall be made for any work, estimated to cost less than rupees one thousand till after the whole of work shall have been completed and a certificate of completion given. But in the case of works estimated to cost more

than rupees one thousand the contractor shall on submitting a monthly bill there for by entitled to receive payment proportionate to the part of the work than approved and passed by the Architect or his representative, whose certificate of such approval and passing of the sum payable shall be final and conclusive against the contractor. All such intermediate payments shall be regarded as payment by way of advance against the final payment only and not as payments for work actually done and completed and shall be regarded as payments for work actually done and completed and shall not preclude the Architect or his representative from requiring any bad, unsound imperfect or unskillful work to be removed or taken away and reconstructed or re-erected nor shall any such payment be considered as an admission of the due

performance of the contract or any part thereof in any respect or the occurring of any claim nor shall it conclude, determine or affect in any other way the powers of the Architect or his representative as to the final settlement and adjustment of the account or otherwise, or in any other way vary or affect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for the completion of the work otherwise the Architect or his representative certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties. In this matter **Employer** decision is final.

Clause 9 –

*Payment at
reduce rates
on account
of item of
work not
accepted as
completed
to be at the
discretion of
the Architect
or his
representative*

The rates for several for work estimated to cost more than Rs. 1000 agreed to within, shall be valid only when the item concerned is accepted as having been completed fully in accordance with the sanction specifications. In cases where the items of work are not accepted as so completed the Architect or his representative with the sanction of **Employer** may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on account bills.

Contractor.

Clause 10 –

Progress of work along with date of taking measurements should be immediately communicated to the Employer by both Architect or his representatives and contractor separately.

*Bills to be
submitted
monthly*

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

Clause 11 –

***Bill to be
On the
printed
from***

The contractor shall submit at bills on the printed forms to forms to be had on application at the office of the Architect or his representatives the charges to be made in the bills shall always be entered at the rates specified in the tender or in the case or any extra work ordered in pursuance of these conditions, and not mentioned or provided for in the tender at the rates hereinafter provided for such work.

Clause 12 –

***Stores
supplied by
employer***

Stores will not be supplied by **Employer**, all required materials will have to be procured by the Contractor at his own cost.

Clause 13 –

***Works to be
executed in
accordance
with speci-
fications,
drawing,
orders etc***

The contractor shall execute the whole and every part of the work in the most substantial and workman-like manner, and both as regards materials and every other respect in strict accordance with specification. The contractor shall also conform exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Architect or his representative and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or on the site of the work during office hours. The contractor will be entitled to receive three sets of contract

Contractor.

drawing and working drawings as well as one certified copy of the accepted tender along with the work order free of cost. Further copies of the contract drawing and working drawing in required by him, shall be supplied at the rate of Rs. 500-00 per set of Contract Drawing and Rs.150-00 per working drawing except where otherwise specified.

Clause 14 –

***Alterations
in specifi-
cations &
designs not
to invalidate
contracts***

The Architect or his representative shall have power to make any alterations in or addition to the original specifications, drawing designs and instructions that may appear to him to be necessary or advisable during the progress of the work and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by the **Employer** and such alteration shall not invalidate the contract, and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work and at the same rates as are

***Rates for
works not
entered or***

specified in this contract then such class of work shall be carried out at the rates entered in the Schedule of Rate of the PWD or at the rates mutually agreed upon between the Architect and the

schedule or rates of the district

contractor which ever are lower. If the additional or altered work for which no rate is entered in the schedule of rates of PWD is ordered to be carried out before the rates are agreed upon them the contractor shall within seven days of the date of receipt by him of the order to carry out the work, inform the Architect or his representative for the rate which it is his intention to charge for such class of work, and if the Architect or his representative does not agree to this rate he shall by notice in writing by at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner as he may consider advisable provided always that if the contractor shall commence work or incur any expenditure in regard hereto before the rates shall have been as lastly herein before mentioned then such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Architect in the event of a dispute the decision of Employer will be final. Where, however, the works to be executed according to the designs,

Extension of time in consequence of additions or alterations

drawings and specifications recommended by the Architect and accepted by the competent authority the alterations above referred to shall be within the scope of such designs, drawings and specifications appended to the tender.

Contractor.

The time limit for the completion of the work shall be extended with the sanction of the **Employer** in the proportion that the increase in its cost occasioned by alternations or the additions bears to the cost of the original contract work, and the certificate of the Architect or his representative as to such proportion shall be conclusive. Decision of **Employer** in final.

Clause 15 –

No Claim to any payment or compensation for alteration in or restriction of work

(1) If at any time after the execution of the contract document the **Architect's** shall for any reason what so ever (other than default on the part of the contractor for which the Employer is entitled to rescind the contract) desires that the whole or any part of the work specified in the tender should be suspended for any period or that the whole or part of the work should not be carried out, at all he shall give to the contractor a notice in writing of such desire and upon the receipt of such notice the contractor shall forthwith suspend or stop the work wholly or in part as required, after having due regard to the to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injure to the work already done or endanger the safety thereof provided that the decision of the Architect as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor, the contractor shall have no claim to any payment or compensation, whatsoever

by reason of or in pursuance of any notice as aforesaid, on account of any suspension stoppage or curtailment except to the extent specified hereinafter.

(2) Where that total suspension of work order as aforesaid continued for a continues period exceeding 90 days the contractor shall be at liberty to withdraw form contractual obligation under the contract so far as it pertains to the unexecuted part of the work by giving a 10 days, prior notice in writing to the Architect, within 30 days of the expiry of the said period of 90 days, of such intention and requiring the Architect to record the final measurements of the work already done and to pay the final bill. Upon given such notice the contractor shall be deemed to have been discharged from his obligation to complete the remaining unexecuted work under his contract on respect of such notice the Architect shall proceed to complete the measurement and make such payment as may be finally due to the contractor within a period 90 days from the receipt of such notice in receipt of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provision of this clause.

Contractor.

(3) Where the Architect requires the contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate, the contractor shall be entitled to apply to the Architect with 30 days of the resumption of work after such suspension for payment of compensation to the pecuniary loss suffered by him in respect of working machinery rendered idle on the site or on the account of his having had to pay the salary or wages of labor engaged by him during the said period of suspension provided always that the contractor shall to be entitled to any claim in respect of any such working machinery, salary or wages for the find 30 days whether consecutive or in the aggregate or such suspension or in respect of any suspension whatsoever occasioned by unsatisfactory work or any other default on his part. The decision of the Architect in this shall be final and conclusive against the contractor.

4. In the event of :-

(i) Any total stoppage of work on notice from the Architect under sub-clause (I) in that behalf.

(ii) Withdrawal by the contractor from the contractual obligation to complete the remaining unexecuted work under sub-clause (2) on account of continued suspension of work for a period exceeding 90 days.

OR

(iii) Curtailment in the quantity of item or items originally tendered on account of any, alternation, omission or substitutions in the specifications, drawings, designs or instructions under clause 14 where such curtailment exceeds 25% in quantity and the value of the quantity curtailed beyond 25 percent at the rates for the item specified in the tender is more than Rs.5000/-.

It shall be open to the contractor within 90 days from the service of (i) the notice of stoppage of work or (ii) the notice withdrawal from the contractual obligations under the contract on the account of the continued suspension of work or (iii) notice under clause 14(1) resulting in such curtailment to produce to the Architect satisfactory documentary evidence that he had purchased or agreed to purchase material for use in the contracted work, before receipt by him of the notice of stoppage, suspension or curtailment and required the **Employer** to take over on payment such material at the rates determined by the Architect Provided however, such rates shall in no case exceed the rate at which the same were acquired by the contractor **Employer** shall thereafter take over the materials so offered, provided the quantities offered, are not in excess of the requirements of the unexecuted work as specified in the accepted tender and are of quality and specifications approved by the Architect.

Contractor.

Clause 15(A) –

No claim to Compensation accounts of loss due to delay in supply of material by Employer

To contractor shall not be entitled to claim any compensation from **Employer** for the loss suffered by him on account of delay by **Employer** in the supply of materials entered in Schedule A where such delay is caused by

- (i) Difficulties relating to the supply of railway wagons.
- (ii) Force major.
- (iii) Act of God.
- (iv) Act of enemies of the state or any other reasonable cause

Beyond the control of **Employer**.

In the case of such delay in the supply of materials **Employer** shall grant such extension of time for the completion of the work as shall appear to the **Employer** to be reasonable in accordance with the circumstances of the case. The decision of the **Employer**, as to the extension of time shall be accepted as final by the contractor.

Clause 16 –

Time limit for unfor-essen claim

Under no circumstances whatsoever shall be contractor be entitled to any compensation from the **Employer** on any account unless the contractor shall have submitted A claim in writing to the Architect or his representative within one month of the clause of such claim occurring.

Clause 17 –

Action and compensa-

If any time before the security deposit or any part there of is refunded to the contract, it shall appear to the Architect or his

tion payable in case of bad work representative or his subordinate in charge of The work, that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of inferior quality, or that any materials or articles provided by him for the execution of the work are unsound, or of a quality inferior to that contracted for, or are otherwise not in accordance with contract, it shall be lawful for the Architect or his representative to intimate this fact in writing to the **Employer** the contractor and then notwithstanding the fact that the work materials or articles complained of may have been inadvertently passed certified and paid for, the contractor shall be bound forthwith to rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or it so required, shall remove the materials or articles so specified and provide other proper and suitable materials or article at his own charge and cost and in the event of his failing to do so within a period to be specified by the **Employer** and cost, in the written Intimation aforesaid, the contractor shall be liable to pay compensation at the rate 1% on the amount of the estimate for every day not exceeding 10 days during which the failure so continues and in the case of any such failure the

Contractor.

Architect or his representative may rectify or remove, and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor. Should the Architect or his representative consider that any such inferior work or materials as described above may be accepted or made use of it shall be within his discretion to accept the same at such reduced by within his discretion to accept the same at such reduced rates as sanctioned by **Employer**.

Clause 18 –

Works to be open to inspection All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of officers **Employer** and the Architect or his representative and his subordinates and to the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Architect or his representative or his subordinate to visit the work shall have been given to the contractor or responsible agent to be present to receive orders and instruction duly authorized in writing present for that purpose. Order given to the contractors duly authorized agent shall be consider to have the same force and effect as if they had been given to the contractor himself.

Clause 19 –

Notice to be given before work is covered up. The contractor shall give not less than 5 days notice in writing to the Architect or his representative or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof taken before the same is so covered up or place beyond the reach of measurement and shall not cover up or place beyond the reach of

measurement any work without the consent in writing of the Architect or his representative or his subordinate in charge of the work and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the contractor's expense and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed.

Clause 20 –

Contractor liable for damage done and for imperfection If during the period of **Twelve Months** from the date of completion, defect liability period for water proofing treatment seven (7) years as certified by the Architect or his representative pursuant to Clause-7 of the contract or 24 months after commencement of the work, whichever is earlier in the opinion of the **Architect**, said work is defective in any manner, whatsoever, the contractor shall be liable for which

Contractor on receipt of notice in that behalf from the **Employer** duly commence execution and completely carry out at his cost in every respect all the work that may be necessary for rectifying and setting right the defects specified therein including dismantling and reconstruction of unsafe portions strictly in accordance with and in the manner prescribed and under the supervision of the Architect. In the event of the contractor failing or neglecting to commence execution of the said rectified work within the period prescribed therefore in the said notice, and/or to complete the same as aforesaid as required by the same notice **Employer** get the same executed and carried out departmentally or by any other agency at the risk on account and at the cost of the contractor. The contractor shall on demand pay to the **Employer** the amount of such costs, charges and expenses sustained or incurred by the **Employer** of which the certificate of the Architect shall be final and binding on the contractor. Such costs charges and expenses shall be deemed to be arrears of land revenue and in the event of the contractor falling or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and remedies of the **Employer** the same may be recovered from the contractor as arrears of land revenue. **Employer** shall also be entitled to deduct the same from any amount which may then be payable or which may thereafter become payable by the **Employer** to the contractor either in respect of the said work or any other work whatsoever on from the amount of the security Deposit retained by **Employer**

Clause 21 –

Contractor to supply plant, ladders, scaffolding etc. The contractor shall supply at his own cost all material (except such special materials, if any as may in accordance with the contract be supplied from the **Employer** store) plant, tools, appliances, implements, ladders, cordage, tackle, scaffolding and temporary works which may be required for the proper execution of the work, whether, in the original, altered or substituted form, and whether included in the specification or other documents, forming part of the contract or referred

to in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirement of the Architect or his representative as to any matter at to which under these conditions he is entitled to be satisfied, or which he is entitled to required together with the carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at anytime and from time to time of the work or the materials, failing this the same may be provided by the Architect or his representative at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof. The contractor shall provide all necessary fencing and lights required to protect the public from accident, and shall also be bound to bear

Contractor

the expenses of defense every suit, action or other legal proceeding that may be brought by any person for injury sustained owing to neglect of the above precautions, and to pay any damages and cost which may be awarded in any such suit action or proceeding to any such person or which may with consent of the contractor be paid for compromising any claim by any such person.

Clause 21 A –

The contractor shall provide suitable scaffolds and working platforms, gangways and stairways and shall comply with the following regulations in connections therewith.

- (a) Suitable scaffolds be provided for workman for all works that can not be safely done form a ladder or by other means.
- (b) A scaffold shall not be constructed taken down or substantially altered except :-
 - (i) Under the Supervision of a competent and responsible person; and
 - (ii) As far as possible by competent workers possessing adequate experience in this kind of work.
- (c) All scaffolds and appliances connected therewith and Ladder shall :-
 - i) be of sound material
 - ii) be of adequate strength having regard to the loads and strains to which they will be subjected and be maintained proper condition.
- (d) Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.
- (e) Scaffolds shall not be over-loaded and so far as practicable the load shall be evenly distributed.
- (f) Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.
- (g) Scaffolds shall be periodically inspected by a competent person.
- (h) Before allowing a scaffold to be used by this workmen the contractor shall, whether the scaffold has been erected by his workmen or not, take steps to ensure that it complies fully with the regulation herein specified.
- (i) Working platform gangways stairways shall :-

- (i) Be so constructed that no part thereof can sag unduly on unequally.
- (ii) Be so constructed and maintained having regard to the prevailing conditions as to reduce as far practicable risks of person tripping or slipping.

Contractor

And

- (iii) Be kept free from any unnecessary obstruction.
- (j) In the case of working platform, gangways, working places and stairways at height exceeding 3 meters. (to be stipulated)
 - i) Every working platform and every gangway, shall be closely boarded unless other adequate measures are taken to ensure safety.
 - ii) Every working platform and gangway shall have adequate width and
 - iii) Every working platform, gangway, working place, and stairways shall be suitably fenced.
- (k) Every opening in the floor of a building or in a working platform shall except for the time and to the extent required to allow the excess of persons or the transport or shifting of material be provided with suitable means to prevent the fall of persons or material.
- (l) When persons are employed on a roof where there is a danger of falling from a height exceeding 3 meters suitable precautions shall be taken to prevent the fall of persons or materials.
- (m) Suitable precautions shall be taken to prevent persons being struck by articles which might fall from scaffolds or other working places.³
- (n) Safe means of access shall be provided to all working platform and other working places.

Clause 21 B –

The contractor shall supply with the following regulations as regards the Hoisting Applications to be used by him :-

- (a) Hoisting machine and tackle, including their attachments anchoress and support shall,
 - i) Be of good mechanical construction, sound material and adequate strength and free from patent defect.

And

- ii) Be kept in good repair and in good working order.
- (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.

(c) Hoisting machines and tackle shall be examined and adequately tested after erection on the site and before used and be re-examined in position at intervals to be prescribed by the Architect Every chain, ring, hook shackle swivel and pulley block used in hoisting or lowering materials or as means of suspension shall be periodically examined.

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

Contractor

(e) No person who is below the age of 21 years shall be in control of any hoisting machine, including any scaffold which, or give signals to the operator.

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

(g) Every hoisting machine and all gear referred to in the proceeding regulation shall be plainly marked with the safe working load.

(h) In the case of hoisting machine having a variable safe work no load each safe working load and the conditions under which it is applicable shall be clearly indicated.

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

(j) Motors, gearing transmissions, electric, wiring and other dangerous part of hoisting appliances shall be provided with efficient safeguards.

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

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

Clause 22 –

***Measure
for
preventions
of fire***

The contractor shall not set fire to any standing jungle, tree brush wood or grass without a written permit from the Employer. When such permit is given, and also in all cases when destroying cut or dug up trees brushwood, grass etc. by fire the contractor shall take the necessary measure to prevent such fire spreading to or otherwise damaging surrounding property.

The contractor shall make his own arrangements for drinking water for the labor employed by him.

Clause 23 –

***Liability
contractor
damage
done in or
any or***

Compensation for all damages done intentionally/unintentionally by contractor's labour whether in or beyond the limits of Employer, Property including any damage caused by the spreading of fire mentioned in Clause 22 shall be estimated by the Architect or his representative or such other officer as he may appoint and the

outside work area. estimates of the Architect or his representative subject to the decision of the **Employer.** on appeal shall be final and the contractor shall be bound to pay the amount of the assessed compensation on demand, failing which, the same will be recovered from the contractor as damages in the manner prescribed in Clause I or deducted by the Architect or his representative from any sums that may be due or become due from Employer, to contractor under this

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

Employment of The employment of female laboru on works in the of neighborhood of soldierø barracks should be avoided as far as possible.

Clause 25 –

Work on Sunday No work shall be done on a Sunday without the sanction in writing of the Architect or his representative.

Clause 26 –

Contract may be rescinded and security deposit forfeited for subletting it without approval or for bribing a public officer or if contractor becomes insolvent The contract shall not be assigned or sublet without the Written approval of the Employer. And if the contractor shall assign or sublet his contract, or attempt so to do, or become insolvent or commence any proceeding to get himself adjudicated and insolvent or make any compensation with his creditors, or attempt so to do if brief, gratuity, gift, loan perquisite, reward or advantage, pecuniary or otherwise shall either directly or indirectly be given, promised or offered by the contractor or any of his servants or agents to any public officer or person in the employ of Employer in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the employer may thereupon by notice in writing rescind the contract and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of Employer and the same consequence shall ensure as if the contract had been rescinded under Clause 3 hereof and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.

***Sum payable
by Way of
Compensation
to be
considered as
reasonable
compensation
Without
reference
to actual loss***

Clause 27-

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

***Changes in
the
constitutio
n of firm to
be notified.***

Clause 28 –

In the case of tender by partners, any damages in the constitution of a firm shall be forthwith notified by the contractor to the Employer, for his information.

***Direction
and control
of the
architect.***

Clause 29-

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Architect who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on of the shall be final, conclusive, and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work, or as to any other question, claim right matter, or thing whatsoever, if any way arising out of, if relating to the contracts, designs, drawings, specifications, estimates, instructions, orders, or other conditions, or otherwise concerning the works, or the execution, or failure to execute the same, whether arising during the progress of the work, or failure to execute the same, whether arising during the progress of the work, or after the completion or abandonment thereof in all respect the decision of architect is final and binding architect will exercise his power with prior sanction of architect.

Clause 30 –(1)

***Direction
and control
of the
Architect***

Except where otherwise specified in the contract and subject contract and subject to the powers delegated to him by Employer under the code, rules then in force, the decision of the Architect for the time being shall be final conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs, drawing and instruction here in before mentioned and as to the quality of workmanship or materials use don the work, or as to any other question, claim, right matter, or thing whatsoever, if any way arising out of, or relating to the contract, designs, drawing, specification, estimates, instruction, orders, or other conditions, or otherwise concerning the works, or the execution, or failure to executive the same, whether arising during the progress of the work or after the completion or abandonment thereof.

Clause 30 – (2)

The contractor may within thirty days of receipt by him of any order passed by the Architect of the Employer as aforesaid appeal against it to the Employer.

Clause – 30(3)

If the contractor is not satisfied with the order passed by the Architect as aforesaid, the contractor may, within thirty days of receipt by him of any such order, appeal against it to the employer, employer who if convenience that prima facie the contractor's claim rejected by Architect/architect is not frivolous and that there is some substance in the claim of the contractor as would merit a detailed examination and decision by the standing committee shall put up to the standing committee at employer level for suitable decisions.

Clause 31 –

***Store of
recommended
manufacture to
be obtained
from Employer***

The contractor shall obtain from Employers recommended stores, all stores and articles of recommended manufacture which may be required for the work, or any part, therefore or in making up any articles required therefore or in connection there with unless he has obtained permission in writing from the Architect or his representative to obtain such stores and articles elsewhere. The value of such stores and articles as may be supplied to the contractor, by the Architect or his representative will be debited to the contractor in his account at the rates shown in the schedule, in Form A attached to the contract and if they are not enetered in the said schedule, they shall be debited to him at cost price which for the purpose of this contract shall include the cost of carriage and all other expenses whatsoever which shall have been incurred in obtaining delivery of the same at the stores aforesaid.

Clause 32 –

***Lump-sums
Estimates***

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

Clause 33-

***Action
where no
specifications***

In the case of many class of work for which there is not such specifications as is mentioned in rule I. such work shall be carried out in accordance with the PWD specifications, and in the event of there being no PWD specifications, then in such case the work shall be carried out in all respects in accordance with the instructions and requirements of the Architect or his representative with the sanction of Employer.

Clause 34 –

***Definition
of work***

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

Clause 35 –

***Contractor
percentage
whether
applied to
net or gross
amount of bill***

The percentage referred to in the tender shall be deducted from/ added to the gross amount of the bill before deducting the value of any stock issued.

Contractor

Clause 36 –

***Quarry fees
and***

All quarry fees, royalties and ground rent for stacking materials, if any, shall be paid by the contractor, directly to revenue committee

royalties failing of which the amount of Royalty charges shall be deducted through bills and no claims shall be entertained on this ground.

Clause 37-

Compensation under the workmen's compensation act The contractor shall be responsible for and shall pay any compensation to his workmen payable under the workmen's compensation Act 1923 (VIII of 1923) (hereinafter called the said Act) for injuries caused to the workmen. If such compensation is payable/paid by Employer, as principle under sub-section (1) of section 12 of the said Act on behalf of the contractor, it shall be recoverable by Employer from the contractor under sub-section(2) of the said section. Such compensation shall be recovered in the manner laid down in Clause 1 above.

Clause 37 A –

The contractor shall be responsible for and shall pay the expenses of providing medical aid to any workmen who may sufferer a bodily injury as result of an accident if such expenses are incurred by employer the same shall be recoverable from the contractor forthwith and be deducted without prejudice to any other remedy of employer from any amount due to that may become due to the contractor.

Clause 37 B –

The contractor shall provide all necessary personnel safety equipment and first aid apparatus available for the use of the persons employed on the site, and shall maintain the same condition suitable for immediate use at any time and shall comply with the following regulations in connection therewith.

- (a) The workers shall be required to use the equipment so provided by the contractor and the contractor shall take adequate steps to ensure proper use of the equipment by those concerned.
- (b) When work is carried on in proximity to any place where there is a risk of drawing all necessary equipment shall be provided and kept ready for use and all necessary step shall be taken for the prompt rescue of any person in danger.
- (c) Adequate provision shall be made for prompt first-aid treatment of all injuries likely to be sustained during the cause for the work.

Contractor

Clause 37 C-

The contractor shall duty comply with the provisions of “**The Apprentices At, 1961** (III of 1961) the rules made there under and the orders that may be issued from time to time under the said Act and the said rules and on his failure or neglect to do so, he shall be subject to all the liabilities and penalties provided by the said Act and said rules.

Clause 38 (1)

***Claim of
Quantity of
work entered
in the tender
of estimate***

Quantities in respect of the several items shown in the tender are approximate and no revision in the tendered rate shall be permitted in respect of any the items so long as subject to any special provision contained in the specification prescribing a different percentage of permissible variation, the quantity of the item does not exceed the tender quantity by more than 25% and so long as the value of the excess quantity beyond this limit, at the rate of the item specified in the tender is not more than Rs.5000/-.

(2) The contractor shall if ordered in writing by the Employer, so do also carry out any quantities in excess of the limit mentioned in sub clause (1) hereof the same conditions as and in accordance with specifications in the tender and at the rates (i) derived from the rates entered in the Current Schedule of Rates and in the absence of such rates, (ii) at the rate prevailing in the market, the said rates beign increased or decreased as the case may be by the percentage which the total tendered amount bears to the estimated cost of the work as put to tendered amount bears to the estimated cost of the work as put to tender based upon the schedule of rates applicable to the year in which the tenders were invited. (For the purpose of operation of this clause, this cost shall be taken on be as arrived at Rs.5240729/-) for this District claim arising out of reduction in the tendered quantity of any item beyond 25% will be governed by the provisions of clause 15 only when the amount of such reduction beyond 25% at the rate of the item specified in the tender is more than Rs.5000/-.

Contractor

Clause 39 –

***Employment
of famine
lablur etc.***

The contractor shall employ and famine, convict or other labour of a particular kind or class if ordered in writing to do so by the Architect-in-charge.

Clause 40 –

Claim for

Compensation No compensation shall be allowed for any delay caused in the

for delay in starting the work starting of the work on account of acquisition of land or in the case of clearance works on account of any delay in according to section the estimates.

Clause 41 –

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

Clause 42 –

Entering upon or commencing any portion of work. The contractor shall not enter upon or commence any portion of work except with the written authority and instructions of Architect or his representative or of his sub-ordinate in charge the work. Falling such authority the contractor shall have not claim to ask for measurement of or payments for work.

Clause 43 –

Minimum age of persons persons employed. (i) No contractor shall employ any person who is under the age of 18 years.
(ii) No contractor shall employ donkeys or other animals with breaching of string or thin rope. The breaching muse be at least 7.50 cm.s Wide and should be of tap (Newer)
(iii) No animal suffering from sores; lameness or emaciation or which is immature shall be employed on the work.
The employment of donkies and/ or other animals and the payment of fair wages. (iv) The Architect or his Agent is authorized to remove from the work any person or animal found working which does not satisfy these conditions and no responsibility shall be accepted by Employer for any delay caused in the completion of the work by such removal.
(v) The contractor shall pay fair and reasonable wages to the workmen employed by him, in the contract undertaken by him. In the event of any dispute arising between the contractor and his workmen on the

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grounds that the wages paid are not fair and reasonable, the dispute shall be referred without delay to the Employer who shall decide the same. The decision of the Employer shall be conclusive and binding on the contractor but such decision shall not in any way affect the conditions in the contract regarding the payment to be made by employer at the sanctioned tender rates.

(vi) Contractor shall provide drinking water facilities to the workers. Similar amenities shall be provided to the workers engaged on large work in urban areas.

(vii) Contractor to take precaution against accidents which takes place on account of labour using loose garments while working near machinery.

Clause 44 –

Method of payment

Payment to contractor shall be made by Cheque drawn on any bank within the Employer convenient to them.

Clause 45-

Any contractor who does not accept these conditions shall not be allowed to tender for works.

Clause 46 –

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

Clause 47 –

The price quoted by the contractors shall not in any case exceed the control price, if any, fixed by employer or reasonable price which it is permissible for him to charge a private purchases for the same class and description, the controlled price or the price permissible under Hoarding and profiteering prevention ordinancy, 1943 as amended from time to time, if the price quoted exceeds the controlled price or the price permissible under Hoarding and Profiteering Prevention Ordinance, the contractor will specifically mention this fact in his tender along with the reasons for quoting such higher price. The purchaser at his discretion will

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in such case exercise the right of revising the price at any stage so as to confirm with the controlled price on the permissible under the Hoarding and Profiteering prevention Ordinance. This discretion will be exercised without prejudice to any other action that may be taken against the contract.

Clause 47(A) –

“The tendered rates shall be inclusive of all taxes, rates and cases and shall also be inclusive of the tax livable in respect of works contract under the provision of the Maharashtra Sales Tax on transfer or property in goods involved in the execution of works contract act 1985 (Maharashtra Act No.XIX of 1985)” as modified from time to time.

Clause 48 –

The rates to be quoted by the contractor must be inclusive of sales/vat tax. No extra payment on this account will be made to the contractor.

Clause 49 –

In case of materials that may remain surplus with the contractor from those issued for the work contracted for, the date of ascertainment of the materials beign surplus will be taken as the date of sale for the purpose of sales/vat tax and the sales/vat tax will be recovered on such sale.

Clause 49(A)

Contractor should note that recovery at panel rate of twice the issue rate will be effected, if the contractor does not return surplus materials, sale tax/vat and general tax will also be recovered from them.

Clause 50

The contractor shall employ the unskilled labour to be employed by him on the said work only from locally available labour and shall give preference to those persons follow under Maharashtra Employer Employment and self-employment employer scheme. Provided, however, that if the required unskilled laborus are not available locally, that if the contractor shall in the first instance employ such numbers of persons as is available and thereafter may with previous permission, in writing of the employer of the said work, obtain the rest of the requirement of unskilled labour from out side the above scheme.

Contractor

Clause 51 –

Wages to be paid to the skilled and unskilled labours engaged by the contractor.

(1) The contractor shall pay the laboures skilled and unskilled according to the wages prescribed by the Minimum wages act applicable to the area in which the work of the contractor is located.

Clause 52 –

The contractor shall duly comply with all the provision of the contract Labour (Regulation and Abolition)Act, 1970 (37 of1970) and the Maharashtra Contract Labour (Regulation and Abolition) Rules, 1971 as amended from time to time and all other relevant status and statutory provision, concerning payment of wages particularly to workmen employed by the contractor and

working on the site of the work. In particular the contractor shall pay wages to each worker employed by him on the site of the work at the rates prescribed under the Maharashtra Contract Labour (Regulation and Abolition) rules 1971. If the contractor fails or neglects to pay wages at the said rates or makes short payment and the employer remakes such payment of wages in full or part thereof less paid by the contractor, as the case may be, the amount so paid by the employer to such workers shall be entitled to recover the same as such from the contractor or deduct same from the amounts payable by the employer to the contractor hereunder or from any other amounts payable to him by the employer.

Clause 53 –

The contractor shall engage apprentices such as bricklayers, carpenters, wiremen, plumber as well as black-smith as recommended by the State Apprenticeship Advisor, Director of Technical Education Dhobi Talao, Mumbai-1 on the construction work.

Clause 54 –

The anti-malaria and other health measures shall be as directed by the joint director (Malaria and Filarial) of Health Services, Pune.

B) Contractor shall see that mosquito-genic conditions are not created so as to keep vector populations to the minimum level.

C) 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 (Malaria and Filaria) of health services, Pune.

Contractor

D) In case of default in carrying out prescribed anti-Malaria measures resulting in increasing malaria incidence, contractor shall be liable to pay to Employer the amount spent by Employer on anti malaria measures to control the situation in addition to fine.

E) Relation with Public Authorities :-

The contractor shall make sufficient arrangement for draining away the sewage water as well as water coming from the bathing and washing places and shall dispose off this water in such a way as not to cause any nuisance. He shall also keep the premises clean by employing sufficient number of sweepers. The contractor shall comply with all rules, regulations, by-laws 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 Employer.

Contractor

**Additional Instructions To Tenderers While
Tendering The Works**

- 1) These are to apply as additional Specifications and Conditions unless otherwise already provide for contradictorily in this contract.
- 2) **Contractor to study site conditions :-**

The Contractor shall be deemed to have carefully examined the work and site conditions Labor, the general and the special conditions, 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 investigation to arrive at rates quoted in the tender. In this regard, he will be given necessary information to the best of knowledge of Employer 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 conditions, or the scope of work or the specifications and drawing or any other matter concerning the contract, he shall in good time, before submitting his tender, set forth the particular thereof and submit them to the Employer in writing in order that such doubts may be clarified authoritatively before tendering. Once a tender is submitted the matter will be decided according to tender condition in the absence of such authentic pre-clarification.

3) **Declaration of the Contractor :-**

The Contractor should sign the **Declaration Form**.

4) **DEFINATIONS :-**

Unless excluded by or repugnant to the context

Contractor

- a) The expression “**Employer**” as used in the tender documents shall mean the Collector And Chairman, Shri Tuljabhawani Temple Trust, Tuljapur, Dist. Osmanabad.
- b) The expression “**Architect**” as used in the Tender Papers shall mean the Architect appointed by the Employer i.e. Civil Engineering, Department Shri Tuljabhavani College of Engineering, Tuljapur.
- c) The expression “**Structural Consultant**” used in the tender paper shall mean the Structural Consultant, appointed by the contractor to act as consultant for the purpose of the contract.
- d) The expression “**Contractor**” as used in the Tender Paper shall mean the Successful Tenderer whose tender has been accepted, and who has been authorized to precede with the work.
- e) The expression “**Contract**” as used in the Tender Papers shall mean the deed of contract together with its original accompaniment and those later incorporated in it by mutual consent.
- f) The expression “**Plant**” as used in the Tender Papers shall mean every machinery necessary or considered necessary by the Architect 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) **“Drawing”** shall mean the drawings referred to in the specifications and any modifications of such drawings approved in writing by Architect and such other drawings as may from time to time be furnished or approved in writing by the Architect.
- h) **“Architects Representative”** shall mean an assistance of the Architect notified in writing to the contractor by the Architect
- i) **“Provisional items”** shall mean items for which approximate quantities have been included in the tender documents.

Contractor

- j) The **“Site”** shall mean the lands and / or other places, on , under in our through which the work is to be executed under the contract including any other lands or place which may be allotted by Employer or used for the purpose of contract.
- k) The **“Work”** shall mean the works to be executed in accordance with the contract or part(s) thereof as the case may be and shall include all extra, additional, altered or substituted works as required for performance of the contract.
- l) The **“Contract sum”** shall mean the sum for which the Tender is accepted.
- m) The **“Accepting Authority”** shall mean the officer competent to accept the tender.
- n) The **“Day”** shall mean a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
- o) **“Temporary works”** shall mean all temporary works of every kind required in or about the execution, completion or maintenance of the works.
- p) **“Urgent Works”** shall mean any measure which, in the opinion of the Architect, become necessary during the progress of the work to obviate any risk or accident or failure or which become necessary of the work or the persons working thereon.

Contractor

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

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

Wherever there is mention of “**Schedules of Rates**” of the Division or simply D.S.R. in this Tender, it will be taken to mean as “The schedule of the rates of the PWD in whose jurisdiction the work lies.”

6) **ERROS, OMISSIONS AND DISCREPANCIES :-**

a) In case of errors, omissions and or disagreement between written and scaled dimensions on the drawings or between the drawings and specifications etc. the following order or preference shall apply.

i) Between actual scaled and written dimension on a drawings the latter shall be adopted.

ii) Between the written or shown description of dimensions in the drawings and the corresponding one in the specifications, the latter shall apply.

iii) Between the quantities shown in the schedule of quantities and those arrived at from the drawings, the latter shall be preferred.

iv) Between the written description of the item in the schedule of quantities and detailed description in the specification of the same items, the latter shall be adopted.

b) In case of discrepancy between percentage rate quoted in figures and works, the lowest of the two will be considered for acceptance of the tender.

c) In all cases of omissions and or doubts or discrepancies in the dimensions or description of any item or specifications, a reference shall be made to the Architect whose elucidation or specifications, a reference shall be made to the Architect whose elucidation 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.

Contractor

d) The special provision detailed specifications and wording of any item shall gain precedence over corresponding contradictory provision (if any) in the Standard Specifications of Public Works Department Hand Book where reference to such specifications is given without reproducing the details in contract.

7) CONSTRUCTION EQUIPMENT :-

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

b) PROGRESS SCHEDULE :-

i. The contractor shall furnish within the period of one month of the order to start the work, the program or work in CPM/PERT charts in quadruplicate indicating the date of actual start, the monthly progress expected to be achieved and the anticipated completion date of each major item of work to be done by him, also indicating dates of procurement and setting-up of materials, Plant and machinery. The schedule is to be such as in practicable of achievement towards the completion of the whole work in the time limit, the particular items, if any, on the due dates specified in the contract without such acceptance in writing. The Architect is further empowered to ask for more detailed schedule or schedules, say; week by week for any item or items, in case of urgency of work as will be directed by him and the contractor shall supply the same as and when asked for.

ii. The contractor shall furnish sufficient plant, equipment and labor as may be necessary to maintain the progress schedule. The working and shift hours restricted to maintain the progress schedule. The working and shift hours restricted to one shift a day for operations to

be done under the Employer; supervision shall be such as may be approved by the Architect. They shall not be varied without the prior approval of the Architect. Night work which require supervision shall not be permitted except when specifically allowed by Architect each time, if requested by contractor. The contractor shall provided necessary lighting arrangements etc. for night work as directed by Architect without extra cost.

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iii. Further, the contractor shall submit the progress report of work in prescribed forms and charts etc. at periodical intervals as may be specified by the Architect. Schedule shall be in form of progress charts, forms, progress statement and / or reports as may be approved by the Architect.

iv. The contractor shall maintain proforma, charts, details regarding machinery equipment, labour, materials, personnel etc. as may be specified by the Architect and submit periodical returns thereof.

8) **AGENT AND WORK ORDER BOOK :-**

The Contractor shall himself manage the work or engage an authorized all the agent on the work capable of managing and guiding the work and understanding the specifications and contract conditions. A qualified and experienced, Architect shall provided by the Contractor as his agent for technical matter in case the Architect consider this as essential for the work and so directs contractor. He will take orders as will be given by the Architect or his representative and shall be responsible for carrying them out. This agent shall not be changed without prior intimation to 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 order and effect replacements to the satisfaction of the Architect.

A work order book shall be maintained on site and it shall be the property of the Employer, and the Contractor shall promptly sign orders given therein by Architect, and comply with them.

The compliance shall be reported by the contractor to the Architect in good time so that it can be checked. The blank work order book with machine numbered pages will be provided by the Employer free of charge for this purpose. The contractor will allow to copy out instructions therein from time to time.

9) **SETTING OUT ;-**

(I) **SETTING – OUT FOR (BUILDING WORKS)**

The Architect shall furnish the Contractor with only the four corners of the project 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 maintains of all stacks, templates, levels marks, profiles 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 centerline marks, either existing or supplied and fixed by the contractor. The work shall be set out to the satisfaction of the Architect. The approval thereof or joining with the contractor by the Architect 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 and necessary reference and level posts, pegs, bamboos, flags, ranging rods, strings and other material for proper lay-out of the work in accordance with the scheme for bearing marks acceptable to the Architect. The center, longitudinal or faces lines and cross lines shall be marked by means of small masonry pillars, Each pillar shall have distinct mark at the center to enable theodolite to be set over it. No work shall be started but such approval shall not relieve the contractor of any of his responsibilities. The contract shall also provide all labor, material and other facilities as necessary for the proper checking of layout and inspection of the points during construction.

Pillars bearings geodetic marks located at the sites of unites 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.

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 effectively any errors or imperfections therein. Such rectification shall be carried out by the contractor, at his own cost, when instructions are issued to that effect by the Architect.

10) LEVELING INSTRUMENTS :-

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

11) AUTHORITIES OF THE ARCHITECT'S REPRESENTATIVES

The duties of the representatives of the Architect are to watch and supervise the work and test and examine any material to be used or workmanship employed in connection with the works.

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

Failure of the representative of the Architect to disapprove any work or material shall not prejudice the power of the Architect thereafter to disapprove such work or materials and so order to putting removal or breaking up thereof in all respect Architect should exercise his power with prior approval of Employer.

Contractor

12) CO-ORDINATION :-

When several agencies for different sub-works of the project are to work simultaneously on the project site, there must be full co-ordination and co-operation smoothly. The schedule 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 is at liberty to come to mutual agreement in this behalf and make joint arrangement at the approval of Architect. No contractor shall take or cause to be taken any steps or action that may cause disruption, discontent or disturbance to work, labour or arrangement etc. of other contractor in the project localities. Any action by any contractor which the Architect 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 as such.

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

13) ASSISTANCE IN PROCURING PRIORITIES, PERMITS ETC.

The Architect 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 materials etc. where such are needed the Employer, will not however be responsible for the non availability of such facilities or delay in this behalf and no claims on account of such failure or delays shall be allowed by the Employer.

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The contractor shall have to make his own arrangement for machinery required for the work. However if such machinery is conveniently available with the Employer may be spread as per the rules in force on recovery of necessary Security Deposit and rent with agreement in the prescribed form. Such an agreement shall be independent of this contract and the supply

or non-supply of machinery shall not form a ground for any claim or extension of time limit for this work.

14) QUARRIES :-

14.1 The contractor(s) shall have to arrange himself/themselves to procure the quarries. However necessary assistance will be rendered by the Employer for procuring the quarries if required by the Contractor.

14.2 The quarrying operations shall be carried shall be carried out by the contractor with proper equipment such as compressors, jackhammers, drill bits, explosives etc. and sufficient number of workmen shall be employed so as to get the required out turn.

14.3 The contractor shall carry out the works in the quarries in conformity with all the Rules and Regulations already laid down or may be laid down from time to time by Government. Any cost insured Government due to non-compliance on any rules or regulations or due to damages by the contractor, shall be responsibility of the contractor. The Architect or his representative shall be given fully facility by the contractor for inspection at all times of the working of the quarry, records maintained, the stocks of the explosives and detonations etc. so as to enable him to check that the working records and storage are all in accordance with the relevant rules. The Architect or his representative shall at any time allowed to inspect the work building and equipment at the quarries.

14.4 The contractor shall maintain at his own cost the books, registers etc. required to be maintained under the relevant rules and regulations and as directed and as directed by the Architect. These books shall be open for inspection at all times by the Architect or his representative and the contractor shall furnish the copies or extracts of the books or registers and when required.

Contractor

14.5 All quarrying operations shall be carried out by the contractor in organized and expeditions manner, systematically and with proper planning, the contractor shall engage licensed blaster and adopt electric blasting and / or any other approved method which would ensure complete safety to all the men engaged in the quarry and its surroundings. The contractor shall himself provide suitable magazines and arrange to procure and store explosives etc. as require under the rules at his own cost. The designs and the location of the magazine shall be got approved in advance from Chief Inspector of Explosives, from time to

time shall be strictly adhered to by the contractor. It is generally experienced that it takes time to obtain the necessary license for blasting and license for storage of material from the concerned authorities. The contractor must therefore take timely advanced action for procuring all such licenses so that the work progress may not hampered.

14.6 The approaches to the quarrying place from the existing public roads shall have to be arranged by the contractor at his own cost, and the approaches shall be maintained by the contractor at his own cost till work is over.

14.7 The quarrying operations shall be carried out by the contractor to the entire satisfaction of the Architect and the development of the quarry shall be made efficiently so as to avoid the wastage of stones. Only such stones as are of the required quality shall be used on the work. Any stone which is in the opinion of the Architect, not in accordance with the specifications or of required quality will be rejected at any time, at the quarry or at the site of work. The rejected stones shall not be used on the work and such rejected material shall be removed to the place shown at the contractor's cost.

14.8 Since all stones quarried from Government quarry (if made available) by the contractor including the excavated over burden are the property of the Government, no stones or the earth shall be supplied by the contractor to any other agencies or work, and are not allowed to be taken away for any other works. All such surplus quarried materials not required for work under this contract shall be the property of the Employer, shall be handed over to the Government free of cost at the quarry site duly heaped at the spots indicated by the Architect. If however the Employer, does not require such surplus materials, the contractor may be allowed to dispose off or use such materials elsewhere with prior written permission of Architect. Leaving off a quarry face or opening of new quarry face shall be done only on the approval of the Architect.

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14.9 Quarrying permission will have to be directly obtained by the contractor from the Collector of the District concerned for which purpose the Employer will render necessary assistance. All quarry fees; royalty charges octroi duties ground rent for stacking material etc. if any to be paid shall be paid directly by the contractor as per rules in force.

14.10 The contractor will be permitted to erect at his own risk and the cost at the quarry site if suitable vacant space in Government area is available for the purpose, his own structure or stones, offices etc. all places approved by Architect on completion of the work the contractor shall remove all the structures erected by him and restore the site to its original condition.

14.11 The contractor shall not use any land in the quarry either for cultivation or for any other purpose except that require for breaking or stacking or transporting stones.

15) COLLECTION OF MATERIALS :-

i) Where suitable and approved Employer's quarries exist, the Contractor or piece worker will be allowed if otherwise there is no objection to obtain the materials to the extent required for the work from the quarry. He will be however, liable to pay compensation, if any damage is caused to the quarry either deliberately or through negligence or for wastage of materials by himself or his staff or labour. The contractor shall pay necessary royalty in advance and shall claim refund according to rules, if admissible and shall submit detailed accounts of materials quarried as directed.

ii) Where no suitable Employer's quarries exist or when the quality of the material required cannot be obtained from Employer's quarry the contractor or piece-worker shall make his own arrangement to obtain the Material from existing or a new quarry in Government wasteland, private land or land belonging to other states or Talukas, etc. After opening the quarry but before starting collection, the quarry shall not be got approved by the Architect. The contractor or piece workers shall pay all royalty charges compensation etc. no claims or responsibility on account of any obstructions caused to execution of the work by difficulties arising out of private owners of land, will be entertained.

iii) The rates in the tender includes all incidental charges such as opening of a new quarry, opening out a new portion in an existing quarry, removing top soil and the unsuitable material, dewatering a quarry, cost of blasting powder and fusses, lift, lead, repairs of existing cart tracks, making new cart tracks control charges, central/state Government or Municipal taxes.

Contractor

iv) The rates in the tender are for the delivery of approved material on roadside properly stacked at the places specified by Architect and are inclusive of conveyance charge in respect of the leads and lifts. No claim on account of the charges in lead will be entertained.

v) No material shall be removed from the land within the road boundary or from the land touching it without the written permission of the Architect or his authorized agent. If any mater is unauthorized obtained from such places, the contractor or place worker shall have to make good the damages and pay such compensation, in addition as may be decided by the Architect and will have stop further collection.

vi) Any material that falls on any Public from the cart etc. during conveyance shall be immediately picked up and removed by the contractor or piece worker, failing which it will

be got removed Departmentally at his cost. No heap shall be left prior to stacking even temporarily on the road surface or in any way so as to cause any obstruction or danger to the traffic. The contractor or the piece worker shall be liable to pay for any claims of compensation etc. arising out of any accidents etc. Any such material causing obstruction or danger etc. will be got removed Departmentally at his cost and no claims for any loss or damage to the material, thus removed, will be entertained. The contractor shall also be responsible for the damage or accident etc arising out of any complaints which may be received.

vii) The material shall attend not be stacked in place where it is liable to be damaged or lost due to traffic passing over to, it be washed away by rain or floods, to be buried under the land slide etc. or to slip down on embankment or hill side etc. No claims for any loss to these and similar causes will be entertained.

viii) Before stacking, the material shall be free from all earth, rubbish, vegetable matter, and other extraneous substance and in the case of metal, screened to gauge, if so direct. When ready, it shall be stacked entirely clear of the roadway, on ground which has been cleaned of vegetation and leveled. On high banks, ghat road etc. where it may not be practicable to stack it entirely clear of the road way, it may be stacked with the permission of the Architect on beams in such a way, as to cause minimum danger and obstruction to the traffic or as may be directed by him.

ix) No deduction will be made for voids.

Contractor

16) TEMPORARY QUARTERS & 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 including fire preventive measures etc. As directed by Architect.

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 Architects representatives. The covered area exclusive of verandah should not be less than 37.17 square Metros. It may have Bamboo matting walls and asbestos or corrugated iron roof, paved floor should be 45 Centimeter above the ground level. He should provide latrines, urinals and keep them clean daily. This will be supposed to be included in this rate.

17) TREASURE TROVE :-

In the event of discovery by the contractor or his employees, during the progress of the work of any treasure, fossils, minerals or any other articles of value or interest, the contractor shall give immediate intimation thereof to the Architect, and forthwith hand over to the Architect such treasure or things which be the property of the Employer.

18) PATENTED DEVICES :-

Whenever the Contractor desires to use any designed devices, materials or process covered by the letter of patent or copy right, the right for such use shall be secured by suitable legal arrangement and agreement with patent owner and the copy of their agreement shall be filed with the patent owner and the copy of their agreement shall be field with the Architect if so desired by the letter.

19) EXPLOSIVES :-

The contractor shall at his own expenses construct and maintain proper magazines, if such are required for the storage of explosive for use in connection with the works such magazine, 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 license as may be necessary for storing and using explosive. Notwithstanding that the locations etc. of storage of explosives are approved by the Architect, the Government shall not incurring any responsibility whatsoever in connection with the storage and use of explosives on the site or any

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accident or occurrence what so ever in connection therewith, all operations of the contractor in
or for which explosives are employed being at the risk of the contractor and upon his sole responsibility and the contractor hereby gives to the Government as absolute indemnity in respect thereof.

20) DAMAGE BY FLOODS OR ACCIDENTS :-

The contractor shall take all precautions against damage by floods or tides or from accidents etc. no compensation will be allowed to the contractor on this account or for correcting or fro 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 Employer lost or damages by floods or form any other cause while it in his charge.

21) POLICE PROTECTION :-

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

22) SUPERVISION & INSPECTION OF WORKS & QUALITY CONTROL

22.1) SUPERVISION :-

The contractor shall either himself supervise the execution of the work or shall appoint the competent agent approved by the Architect. To act on his behalf if opinion of the Architect the contractor has himself no sufficient knowledge and experience of receiving instructions or can not give his full attention to the works, the contractor shall at his own expenses, employ as, his accredited agent a qualified Engineer approved by the Architect.

Orders given to the contractor's agent shall be considered to have the force as if these had been given to the contractor himself. If the contractor fails to appoint the suitable agent as directed by Architect, the Architect shall have the full power to suspend the execution of the work until such date a suitable agent is appointed and the contractor shall be responsible for the delay so caused to the work and contractor shall not be entitled for any compensation out his behalf.

Contractor

22.2) INSPECTION :-

The contractor shall inform the Architect 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. The work shall not be considered to have been completed in accordance with the terms of the contract until the Architect shall have certified in writing to that effect. Approval of materials or workmanship or approval of part of the work during the progress of execution shall not bind the Architect or in any way affect him even to reject the work which is alleged to be completed and to suspend the issue of this certificate of completion until such alteration and modification or reconstruction have been effected and the cost of the contractor as shall enable him to certify that the work has been completed to his satisfactions.

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

23) INITIAL MEASUREMENTS FOR RECORD :-

When for proper measurement of the work, it is necessary to have an initial set of levels or other measurements taken, the same as recorded in the authorized field book or measurement book of Employer by the Architect 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 level etc. recorded before starting of work, will render him liable to accept the decision of the Architect as to the basis of taking measurements, Likewise the contractor will not cover any work which will render its subsequent measurement difficult or impossible without first getting the same jointly measured by himself and the authorized representative of the Employer. The record of such measurements on the Employer side will be signed by the contractor and he will be entitled to have a true copy of the same made at his cost.

Contractor

24) SAMPLES AND TESTING OF MATERIALS :-

- i) All materials to be used on work, such as cement, lime aggregates, stone, asphalt, wood etc. shall be got approved in advance from the Architect and shall pass the tests and or analysis required by him, which will be :-
 - a) As specified in the specification for the items concerned and or
 - b) As specified by the Indian Road Congress Standard specification and code of practice for Road and bridges or
 - c) I.S.I. Specifications (whichever and wherever and applicable) or
 - d) Such recognized specifications acceptable to the Architect as equivalent there to or in the absence of such authorized specifications.
 - e) Such requirements test and or analysis as may be specified by Architect in the order of producer given above.
- ii) The contractor shall at his risk and cost make all arrangements and/or shall provide for all such facilities as the Architect may require for collecting, preparing required number of samples for tests or for analysis at such time and to such place or places as may be directed by the Architect and bear all charges and cost of testing. Such samples shall also be deposited with the Architect.

iii) The contractor shall if and when required submit at his cost the samples of materials to be tested or analyses and if, so directed, shall not make use of or incorporate in the work any materials to be represented by the samples until the required tests or analysis have been made and the materials, finally accepted by Architect.

iv) The contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of the material.

v) The contractor or his authorized representative will be allowed to remain present in the Testing laboratory while testing samples furnished by him. However the results of all the tests carried out in the Testing Laboratory in the presence or absence of the contractor or his authorized representative will be binding to the contractor.

Contractor

vi) The cost of routine day to day quality control testing charges for tests required as per specification will be borne by contractor by sending the same to the concerned Government laboratories.

vii) The contractor shall at his own cost set up laboratory to carry out the routine tests of materials which are to be used on the work. The tests will have to carried out either in his field laboratory or in approved laboratory. In case the tests are carried out in field laboratory at least 50% tests should be carried out at the nearest Quality Control Laboratory of the Government.

viii) In case of material procured by the contractor, for testing as required by codes and specifications shall be arranged by him at his own cost. Testing shall be done in the presence of authorized representative of the Architect at the nearest approved laboratory. If additional testing other than as required by the specifications is ordered, the testing charges shall be born by the Employer, if the test results are satisfactory and by the contractor, if the same are not satisfactory.

ix) In case of the materials supplied by the Employer, if the contractor demands certain testing, charges thereof shall be paid by the contractor if the test results are satisfactory and by the Employer if the same are not satisfactory.

x) Testing shall be carried out at approved Government laboratories or Institutions as directed by Architect and all the testing charges shall be born by the contractor.

- xi) 15% of the rate shall be withheld and shall be released only after the receipt of the satisfactory test results whenever specified excluding concrete items. Routine test shall mean testing of aggregate for gradation, flakiness index, impact value and binder contents
- xii) Mix design of concrete items where specified shall be bought by the contractor at his own cost, from approved laboratory. Also testing of high tensile steel is to be done by the contractor at his own cost.

25) CHANGE OF CEMENT CONTENT ETC :-

The tendered rates for any item, involving the use of cement shall apply to the quantity of cement specified for the mix for that item in the specifications. If for any reasons, except those required for compensating the deficiencies in the components, the cement content and the

Contractor

properties are altered by the Architect (Architect), at any time or from time to time, the tendered rates for that particular item and quantity or quantities, shall be duly enhanced or reduced only to account for the addition or reductions in cost of the cement content from that laid down in the specification at the rates specified in D.S.R. of the District on which the estimate is based plus 10% to cover all other incidental charges whatsoever. Like wise if any additives, compounds, water proofing material etc. are ordered by the Architect to be added to the mortar or concrete no extra rate shall be payable for this change which shall be carried out as per direction of Architect, provided cost to contractor at the site by the Employer.

26) CEMENT CONCRETE :-

a) The contractor shall carry out all preliminary tests, to workout grading and proportioning of aggregates in order to obtain and maintain uniform quality of work. The contractor shall supply all materials, labour and testing cost for preparing and testing samples as required by the Architect. Unless otherwise specified in the detailed item wise specification 3 Cubes 150 millimeter X 150 millimeter x 150 millimeter will be tested for every 15 cubic meter of ordinary grade concrete or per day whichever is higher.

The contractor shall make field arrangements for slumps test, density and bulkage testing and also prepare concrete cubes 150 millimeter X 150 millimeter X 150 millimeter for testing compressive strength, at his cost. The cubes shall be got tested at approved laboratory, and the test results shall not fall below those prescribed in Public Works Employer handbook

(Table CVP.412) or laid down in the specifications. The cost of such cubes and tests shall be entirely borne by the contractor.

b) All concrete shall be machine mixed, unless otherwise directed by the Architect. For controlled or high grade concrete, the grading of aggregate shall be got approved from the Architect. The correct proportions and the total amount of water for the mix will be determined by means of preliminary test and shall be got approved by the Architect. However, such approval does not relieve the contractor from his responsibility, regarding the minimum works strength requirement. Work test shall be taken in accordance with relevant codes and specifications. The minimum content in concrete shall be In accordance with i.s. 456-1978.

Contractor

The proportioning of aggregate shall be done by weight if so ordered by the Architect.

c) All mixing shall be done by mechanical means in approved mixers. The Architect may at his discretion, allow in writing hand mixing of concrete for minor items, Where small quantities are involved, but in the case contractor shall increase the cement content of mixture by 10 % without any extra cost.

d) The formwork used shall be invariable of steel/with lining of stel or with plywood lining, Wooden shutters may be allowed at the discretion of the Architect e.g. Lintels, small slabs and bearings coping etc.

e) The concrete shall be mechanically vibrated for proper compaction by the method approved by the Architect.

f) The concrete shall be cured only by sweet potable water for full 21 days time of placement or as may be directed by Architect.

26.1) **REINFORCED CONCRETE WORK :-**

a) The work included in this contract shall be carried out in addition to this specification detailed herein in accordance with specifications and regulations as laid down in the following standard specifications. Standard specifications published by Government of Maharashtra 1985 Edition.

I.S. 6 8112-	1989	Specifications for 43 grade ordinary Portland Cement
I.S. 6 83.3-	1976	Specification for cold twisted bars.

I.S. 6 1786-	1993	Specification for cold twisted bars.
I.S. 6 432-	1982	Specification for Mild steel and Medium Steel Bars.
I.S. 6 456-	2000	Code of practice for plain and reinforced concrete Ministry of surface transport (road wing) Specification for road and bridge works (Third Revision)

Contractor

If the standard specification quoted above fall short for the items quoted these schedules of this contract, reference shall be made to the latest British Standard of specification. If any of the items of contract do not fall in reference quoted above, the decision and specification of Architect shall be final.

27) ADDITIONAL GENERAL SPECIFICATIONS FOR ORDINARY AND HIGH GRADE CONCRETE -

If the concrete strength falls below that specified for the items and if the use can be permitted under clauses 303.3.7 of the I.R.C. Bridge Code Section 6 III given below. The unit (Bridge Components) may be accepted at the discretion of the Architect concerned as substandard work at a suitable reduced rate. Reduced rate will be determined by the Architect, Architect concerned to circumstances of the case and the concerned Employer approval to the reduced rate as mentioned above is necessary he has to replace the concrete at his own cost with all consequent losses and damages. Standard Specifications and Code of Practice for Road Bridge Section 6 III Cement Concrete 303.7 Standard of acceptances.

- i) Full payment should be made when 75% of the test cube results are equal and above specified strength. Cases failing outside the above limits will be examined and decided by the Architect on merits of each case.
- ii) The test specimen should be taken by representative of the contractor in presence of the Architect or his representative.
- iii) The test specimen should be formed carefully and no claim shall be entertained later on, on the ground that at the casting of the test specimen were faulty and that the results of the test specimen did not give correct indication of the actual quality of concrete.

iv) The minimum quantity of cement per one cubic meter of M-15 grade and above concrete should be as per Standard Specification Book Specification B.7-4 on Page 39 (1979 Edition)

v) **Payment :-**

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

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

Contractor

vi) The centering to be used for execution of any concrete items shall be strictly in accordance with specifications for formwork and steel centering given on Page 77 to 78 of this documents. No centering shall be executed without prior approval to the centering from the Architect.

28) MISCELLANCOUS :-

1) Rate shall be inclusive of S.T. Turnover Tax, Octroi Duty, General Tax and other taxes etc.

2) For providing electric wiring or water liens 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.

3) In case it becomes necessary for the due fulfillment of contract for the contractor to occupy land outside the Employers 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.

Employer will afford the contractor all the reasonable assistance to enable him to obtain Government land for such purpose on usual terms and conditions as per rules of Government.

4) The special provision in detailed specifications or wording of any item shall gain precedence over the corresponding contradictory provision. (If any) in the standard specifications of P.W.D. hand book. Where reference to such specifications is given without reproducing the details in contract. Decision of the Architect shall be final in case of interpretation of specification.

5) Suitable separating barricades and enclosures shall be provided to separate material brought by contractor and materials issued by Employer to contractor under **Schedule "A"** same applies for the materials obtained from different sources of supply.

6) It is presumed that the contractor has gone carefully through the standard specification of P.W.D. Hand Books and the Schedule of Rate of the P.W.D. and studied the site conditions before arriving at rates quoted by him.

Contractor

7) The stacking and storage of construction materials at site shall be in such a manner as to prevent deterioration or instruction of foreign matter and to ensure the preservation of their quality, properties and fitness for the work. suitable precautions shall be taken by contractor to protect the material against atmospheric actions, fire and other hazards. The materials likely to be carried away by wind shall be stored in suitable stores or with suitable barricades and where there is likelihood of subsidence of soil, such heavy materials shall be stored on paved platforms. The contractor shall at his expenses engage watchman for guarding the material and plant and Machinery and the work during day and night against any pilferage or damage also for prohibiting tress-passers.

8) The contractor shall be responsible for making good the damages done to the existing property during construction by his me.

9) If it is found necessary from safety point of view to test any part of the structure, the test shall be carried out by the contractor with the help of Employer at his own cost.

10) The contractor shall provide, maintain, furnish and remove on completion temporary shed for office on work site for the Employer representatives.

11) Defective work is liable to be rejected at any stage. The contractor, on no account can refuse to rectify the defects merely on reason that further work has been carried out. No extra payment shall be made for the rectification.

12) In case in the schedule ~~the~~ the work has been divided into sections but not with standing this, every part of it shall be deemed supplementary to and complementary of every other part.

13) General directions or detailed description of work, material and items, coverage of rate given in the specification are not necessarily repeated in the bill of quantities. Reference is, however drawn to the appropriate section clause (s) of the General specifications in accordance with which the work is to be carried out.

14) In the absence of specific direction to the contrary, the rates and prices inserted in the item to be considered as the full inclusive rate sand prices for the finished work described there under and are to cover all labour, material, wastage, temporary work, plant, plant

overhead charges and profits, as well as the general liabilities, obligations and risks arising out of the general conditions of contract.

Contractor

15) The quantities set down against the item in the schedule are only estimated quantities of each kind of work included in the contract and are not to be taken as a guarantee that the quantities scheduled will be carried out or required or that they will not be exceeded.

16) All measurements will be made in accordance with the methods indicated in the specifications and read in the conjunction with general conditions of contract.

17) The details shown on drawing and all other information pertaining to the work shall be treated as indicative and provisional only and are liable to variations as found necessary while preparing working drawing which will be supplied by the Architect, during execution. The contractor shall not, on account of such variation entitled in any increased over the ones quoted in the tender, which are on quantity basis.

18) The recoveries if any from contractor will be effected as arrears of land revenue through the collector of the District.

29) PROTECTION OF UNDERGROUNDN TELEPHONE CABLE AND AERIAL TELEPHONE WIRES AND POLES, TRANSMISSION TOWERS ELECTRICALS CABLES AND WATER SUPPLYING LINES :-

During the execution of work, it is likely that the contractor may meet with telephone cable, electrical cables, water supply lines etc. it will therefore be the responsibility of the contractor to protect them carefully. All such cases should be brought to the notice of the Architect by the contractor and also to the concerned authority. Any damages whatsoever done to these cables and pipe lines by the contractor shall be make good by him at his cost.

30) MEDICAL AND SANITARY ARRANGEMENTS :-

Medical and Sanitary Arrangements to be provided for labour employed in the construction by the contractor.

a) The contractor shall provide an adequate supply of potable water for use of laborers on works and in camps.

b) The contractor shall provide an adequate supply of potable water for use of laborer on works and in camps.

c) The contractor shall build sufficient number of huts on a suitable plot of lands for use of laborers according to the following specifications.

- 1) Huts of Bamboos 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, grass or woods should be particularly avoided; camps should not be established close to large cutting of earth.
- 3) The lines of huts shall have open spaces of at least ten meters between rows. When a good natural site cannot procure, particular attention should be given to the drainage.
- 4) There should be no over crowding. Floor spaces at the rate of 2.78 Square meter per head shall be provided. Care should be taken to see that the huts are kept clean and in good order.
- 5) The contractor must find own land and if he wants Government land, he should apply for it and pay assessment for it, if made available by Government.
- 6) The contractor shall construct a sufficient number of bathing places. Washing places should also be provided for the purpose of washing clothes.
- 7) The contractor shall make sufficient arrangement for draining away the surface and silage water as well as water from the bathing and washing places and shall disposed off this waste water in such a ways not be cause any nuisance.
- d) The contractor shall engage a Medical Officer with a tralign dispensary for a camp containing 500 or more persons, if there is no Government or other dispensary situated within 8 kilometers from the camp. In case of an emergency the contractor shall make arrangement at his cost for transport for quick medical help to his sick worker.
- e) The contractor shall provide the necessary staff for effecting a satisfactory/ drainage system and cleanliness of the camp to the satisfaction of the Architect. At least one sweeper per 200 persons should engage.
- f) The assistant director of Public Health shall be consulted before opening a labour camp and his instructions on matter such as water supply, sanitary conveniences, the camp site, accommodation and food supply shall be followed by contractor.
- g) The contractor shall make arrangements for ant malarial measures to be provided for the labour employed on the work. The anti-malarial measures shall provided as directed by Assistant director of Public Health.

h) Where workers required to work near machine and are liable to meet with accidents they should not be allowed to wear loose clothe like Dhoti, Jhabba etc.

31) SAFETY MEASURES AND AMENITIES :-

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

- 1) Providing protective foot-wear to workers, in situations like mixing and placing of mortar or concrete, in quarries and places where the work is done under too much of wet conditions as also for movement over surfaces infected with oyster growth etc.
- 2) Providing protective headwear to workers, working in quarries etc. to protect them against accidental fall of materials from above.
- 3) Taking such normal precautions like providing handrails to the edges of on floating platform or barges, not allowing nails or metal parts or useless timber to spread around etc.
- 4) Supporting workmen with proper belts, ropes etc. When working on any masts, cranes, grabs, hoist, dredgers etc.
- 5) Taking necessary before, they are allowed to handle it independently and taking all necessary precautions in and around the areas where machines, hoists and similar units are working.
- 6) Providing adequate number of boats (if at all required for plying water) to prevent overload and over crowding.
- 7) Providing life belts to all men working in such situation from where they may accidental fell into water. Equipping the boats with adequate number of life belts etc.
- 8) Avoiding bare live wires etc. as would electrocute workers.
- 9) Marking all platforms, staging and temporary structures sufficiently strong and so as not cause inconvenience and risk to the workmen and supervisory staff.
- 10) Providing sufficient first aid trained staff and equipment to the available quickly at the work site to render immediate first aid treatment in case of accidents due to suffocations, drowning and other injuries.

Contractor

- 11) Take all necessary precautions with regard to use of divers.
- 12) Providing full length gum boots, leather hand gloves, with fireproof aprons to cover the chest and back reaching up to knees, protective goggles for ht eyes to the laborers

working with hot asphalt handing vibrators in cement concrete and also where use of any or all these beneficial in the interest of health and well-being of the laborers in the opinion of the Architect.

13) Suitable scaffolds shall be provided for workmen for all works that can not safely be done from the ground or from solid construction except such short period work as can be done safely from ladders. When ladder is used, as extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying the materials as well a suitable foot holds and Hand folds shall be provided on the ladder and ladder shall be given an inclination or staging more than 1:4 (1 Horizontal to 4 vertical)

14) Scaffolding or staging more than 3.25 meters above the ground or floor, swing or suspended from an overhead support of erected with stationary support shall have a guard rail properly attached, bolted, braced and otherwise scaffolding or staging and staging and extending along the entire length of outside and ends thereof with only such opening as may necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building on structure.

15) Working platform, gangways and stairways shall be so constructed that they do not sag unduly or are more than 3.25 meters above ground level of floor level. It shall be closely broader, have adequate width and be suitably fenced as described in 2 above.

16) Every opening in floor of the building or in a working platform shall be provided with suitable protection to prevent fall of person or materials by providing suitable railing with minimum height of 1 meter.

17) Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 meter in length; width between side rails in hung ladder shall in no case may be less than 30 centimeters of ladders up to and including 3 meters in length. For longer ladders, this width shall be increased at least 6 mm. for each additional 30 centimeters of length. Uniform step spacing shall not exceed 30 centimeters.

Contractor

18) Adequate precautions shall be taken to prevent danger from electrical equipment. No material on any of the sites shall be stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect public from accident and preceding of law that may be brought by any person for injury sustained owing to neglect of the above precautions any to pay any damages and costs

which may be awarded in any such suit action or proceeding to any such person or which may with the consent of the contractor, to be paid to compromise any claim by any such person.

19) All necessary personally safety equipment as considered adequate by the Architect shall be available for immediate use and the contractor shall take adequate steps to ensure proper use of equipment by those concerned.

a) Workers employed on mixing asphalted materials, materials, cement or lime mortars concrete shall be provided with protective footwear and protective goggles.

b) Those engaged in welding works should be provide with welderø protective eye shields.

c) Those engaged in welding works should be provided with welderø protective eye shields.

d) Stonebreaker shall be provided with protective goggles and protective clothing and seated at sufficiently sage intervals.

Motors, gearing transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with such means as will reduce the minimum risk to the accidental descent of load, Adequate precautions shall be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced, when workers, are employed. On electrical installations, which are already, energized insulting wearing materials approved such as gloves, sleeves and coats as may be necessary, shall be provided. Worker shall not wear any rings, watches and carry keys and other material, which are good conductor or electrically. Alls scaffolds, adders and safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at near place of work.

Contractor

(e) These safety provisions shall be brought to the notice of all concerned by display on a notice board at a prominent place at the work spot. Persons responsible for ensuring compliance with the safety code shall be named therein by the contractor.

i) To ensure the effective enforcement of the rules and regulations relating to safety precautions, arrangements made by the contractor shall be open to inspection by the Architect or his representative and the inspecting officer.

ii) Failure to comply with the provision hereunder shall make the contractor liable to pay to the Employer as a penalty amount not exceeding Rs.50/- for each default and decision of the Architect shall be final & binding.

Not with standing the above conditions the contractor is not exempted from the operation of any other Act or Rules in force.

(32) EXCAVATION AND TRENCHING :-

All trenches, 1.5 meters or more in depth, shall at all times be supplied with at least one ladder for each 30 meters in length of fraction thereof. Ladder shall be extended from bottom of trench to at least 1 meter above surface of the ground, side of a trench, which is 1.5 meter or more in depth, shall be stepped back to give suitable slope, or security held by timber bracing, so as to avoid the danger of side collapsing. Excavated materials shall not be placed within 1.3 meters of edge of trench or half of depths of trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances shall undermining or undercutting be done.

(33) DEMOLITION :-

Before any demolition work is commence and also during the process of the work :-

- a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- b) No electric cable or apparatus, which is liable to be a source of danger of a cable or apparatus used by operator, shall remain electrically charge.

Contractor

c) When workers are employed in sewer and manholes, which are in use, the contractor shall ensure that manhole covers are open and manholes are ventilated at least for an hour before workers are allowed are allowed to get into them. Manholes opened shall be cordoned of with suitable railing and provided with warning signals or boards to prevent accident to public.

d) The contractor shall not employ men below the age of 19 and the women on the work of painting wit products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precautions shall be taken.

- e) No paint containing lead or lead product shall be used except in the form of paste or readymade paint.
- i) Suitable face masks shall be supplied for use by workers when paint is applied in the form of spray or surface having lead paint, dry rubbed and scrapped.
- ii) Overall shall be supplied by the contractor to workmen and adequate facilities shall be provided to enable working painters to have wash during and on cessation of work.
- f) When work is done near any place where is risk of drawing all necessary equipment shall be provided and kept ready for use and all necessary steps taken fro prompt rescue of any person in danger and adequate provision made for prompt first aid and treatment of all injuries likely to be sustained during the course of the work. use of hoisting machines and shackle including their attachment, anchorage, and supports shall conform to the followings.
 - a) i) These shall be good mechanical construction, round materials and adequate strength and free from patent defects and shall be kept in good working order.
 - ii) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and of adequate strength and free from patent defects.
 - b) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in charge of any hoisting machine including any scaffolding.
 - c) In case of every hoisting machine and of every chain, hook, shackle and pulley block, use din hoisting or lowering or means of suspension, safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be clearly marked with safe working load.

Contractor

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

- d) In case of Employer machines safe working load shall be notified by the Architect. As regards contractor's machines contractor shall notify safe working load of each machine to the Architect whenever, he brings it to site of work and get it verified by Architect.
- e) All practical steps shall be taken to prevent danger to persons employed, form risk or fire or explosion or hooding. No floor, roof or other part of a building shall be so overloaded with debris of materials as to tender it unsafe.

34) SCOPE OF RATES FOR DIFFERENT ITEMS OF WORKS :-

For item rate contracts the contract unit rates for different items of work shall be payment in full for completing the work to the requirement of specifications including full compensation for all the operation detailed in the relevant sections of these specifications under “**Rates**” in the absence of any direction to the contrary, the rates are to be considered as the full inclusive rate for finished work covering all labour, material, wastage, temporary work, plant, equipment, overhead charges and profit as well as the general liabilities, obligations and risks arising out of the general conditions of contract.

The item rates quoted by the contractor shall, unless otherwise specified, also include compliance with supply of the following.

(i) General work such as setting out, clearance of site before setting out and clearance of work after completion.

ii) A detailed program for the construction and completion of the work (using CPM/PERT techniques) Giving, in addition to the construction activities detailed network activities for the submission and approval of material, procurement of critical materials and equipment, fabrication of special products/equipment and their installation and testing and for all activities of the employer that are likely to effect the decisions taken at the periodic site review meeting or as directed by the Architects.

Contractor

iii) Sample of various materials proposed to be used on the work for conducting tests thereon required as per the provisions of the contract.

iv) Design of mixes as per the relevant clauses of the specifications giving proportions of ingredients, sources of aggregates and binder along with accompanying trial mixes as per the relevant clauses of the specifications to be submitted to the Architect for his approval before use of the works.

v) Detailed design calculations and drawing for all Temporary work (such as formwork, staging, centering, specialized constructional handling and launching equipment and the like)

vi) Detailed drawing for templates, support and end anchorage details for pre-stressing, cable profiles, bar bending and cutting schedules for reinforcement, material lists for fabrication of structural steel etc.

vii) Steel tests reports for all mild and high tensile steel and cast steel as per the relevant provisions of structural steel etc.

- viii) Testing of various finished items and materials including bitumen, cement, concrete, bearing as required under these specifications and furnishing test reports/certificates.
- ix) Inspection Reports in respect of formworks, staging reinforcement and other items of work as the relevant specifications.
- x) Any other data which may be required as per these specifications of the conditions of contract or any other annexure/schedules forming part of the contract.
- xi) Any other item of work which is not specifically provided in the bill of quantities but which is necessary for complying with provisions of the contract.

And

- xii) All temporary works, and false work.

Portion of road works beyond the limits and or any other work may be got constructed by the Employer directly through other agencies. Accordingly, other agencies employed by the employer may be working in the civility of the work being executed by the contractor. The contractor shall liaise with such agencies and adjust his construction programme for the completion of work accordingly and no claim or compensation due to any reason whatsoever will be entertained on this account. The employer will be indemnified by the contractor for any claims from other agencies on this account.

Contractor

- xiii) All prevailing taxes levied by Government and as amended from time to time.

35) PAYMENTS :-

The contractor must understand clearly that the rates quoted are for completed work and include all costs due to labour, scaffolding plant, machinery, supervision, power, royalties, octroi, taxes etc. and should also include all expenses to cover the cost of right work if and when required and no claim for additional payment beyond the prices or rates quoted will be entertained. However the contractor will be entitle for refund of royalty paid by him vide clause 36 of **B-1 Tender From.**

The mode of measurement has been indicated in the specification. If there is any ambiguity or doubt in this respect, the decision of Architect will be final.

a) Running Bills :-

Two payments in a month will be granted by the Architect if the progress is satisfactory. Contractor should submit bills to Architect.

b) Final Bill :-

The contractor should submit final bill within one month after completion of the work and the bill will be paid within 5 month if it is in order disputed item and claims if shall be excluded from the final bill and settled separately later on

36) CLAIMS :-

Bill for extra work or for any claim shall be paid separately apart from the interim bills for the main work. the payment of bill for the main work shall be withheld for want of decision on the extras or claims not covered in the appendices.

Claims for extra work shall be registered within 30 days of occurrences of the event. However, bills for these claims including supporting date/details may be submitted subsequently.

37) PRIORITIES OF WORKS TO BE EXECUTED :-

Priorities for items to be executed shall be determined periodically keeping in view the final time limit allowed for the work and all the time schedule fixed for intermediate stages of work.

Contractor

38) WAGES ACT :-

The contractor shall comply with the provisions of payment of Wages Act 1936, Minimum Wages Act 1948, Employee's Liability act 1923, Industrial dispute Act 1947, Maternity Benefit act 1961, Contractor labour (R & A) Act 1970, Migrant workman (Regulation of Employment and condition of Service) or modifications thereof or any other law relating thereof and rules made there under from time to time by the Government.

39) DISPUTE AND ARBITRATION :-

No arbitration is allowed.

40) ELECTRIC POWER :-

Arrangement for obtaining Electric Power connection will have to be made by the contractor at his own cost.

41) PRELIMINARY ARRANGEMENTS :-

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

The contractor shall at his own expenses, engage watchmen for guarding the materials and plant machinery and the work during day and night against any pilferage or damages and also for prohibiting tress passers or damage to them. The contractor shall have to make own arrangement for water required for any purposes on the work.

The contractor after completion of work shall have to clean the site of all debris and remove all unused materials other than those supplied by the Employer and all plant and machinery, equipment, tools etc. belonging to him within one month from the date of completion of work, or otherwise the same shall be removed by the Employer at his cost and the contractor shall not be entitled for payment of any compensation for the same.

42) ACCIDENT :-

In the event of an accident involving serious injuries or damages to human life or death of any of his employees an laoures or tress-passers, the same shall be reported within 24 hours of the occurrence to the Architect and the Employer and the Commissioner of workmen's compensation.

Contractor

43) PLANT :-

All constructional plant, provided by the contractor shall when brought onto the site be deemed to be exclusively intended for the construction of this work and the contractor shall not remove the same or any part thereof (save for the purpose of moving it from the part of the site to another or for repairs etc.) without the consent in writing of the Architect which shall not be unreasonably withheld.

44) PUBLIC UTILITIES :-

In addition to clause 110 of M.O.S.T. (R.W.) specifications for road and Bridge work (Second Edition) 1988 following should be added Para 110.6.

Public utility services like H.T. Lines Telephone lines etc. which are visible at site should be taken notice of by the contractor while planning their works. It shall be the contractor's responsibility to inspect such services prior to the commencement of any work while executing the works, the contractor should take care to see that these services are not disturbed or damaged during the execution.

The government will not be held liable or responsible for any delay in completion of the job under this contract which may occur due to any damage occurred to such services in consequence of the contractor's operations of delayed completion of the execution for the same.

45) DRAWINGS :-

A) CONTRACT DRAWINGS :-

The contract Drawings provided for tendering purpose with the tender documents shall be used as a reference only. Contractor should visualize the nature of type of work contemplated and to ensure that he rates and prices quoted by him in the bill of quantities take due considerations of the complexities of work involved during actual execution/consideration as experienced in the field.

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

Contractor

B) COMPLETION DRAWINGS :-

The contractor shall submit to the Architect within two months of actual completion of completion drawings as specified below and operation and maintenance instructions for the whole of the work.

These drawings shall be accurate and correct in all respect and shall be shown to and approved by the Architect earlier. For of Completion drawings two prints and one polyester film of quality approved by the Architect, Architect or his representative shall be supplied.

46) HANDING OVER OF WORK

All the work and material before finally taken over by the Government. Will be entire liability of the contractor to guarding, maintain and making good any damages, in any magnitude. Interim payments made for such work will not alter this position. The handing over by the contractor and taking over by the Executive Architect or, his authorized representative will be always in writing copies of which will go to the Executive Architect 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 mutually agreed to.

47) RELATION WITH PUBLIC AUTHORITIES :-

The contractor shall comply with all rules, regulations bye-laws and direction given from time to time, by any local or public authority in connection with this work and shall himself pay fees all charges when are livable on him without any extra cost to the employer.

48) DOCUMENTATION :-

If so ordered by the Architect, the contractor will prepare drawing of the work as constructed and will supply original and three copies to the Architect who will verify and certify these drawings.

Final as constructed, drawings shall then be prepared by the contractor and supplied in triplicate to the Architect for record and reference purpose at the contractor's cost.

Contractor

49) CLAUSES IN THE CONDITIOSN OF CONTRACT :-

(A) All materials and workmanship shall be of the respective type described in the contract and in accordance with the Architect's instructions and shall be subjected from time to time to such tests as the Architect may directed at the play of manufacture or fabrication, or n the site. All samples shall be supplied by the contractor.

(B) No work is to be converted up or put out of views without the approval of the Architect for his examination and measurements.

(C) During the progress of the site, any suitable material, substitution of proper and suitable material and removal and proper re-erection not withstanding any previous test or interim payment, therefore, and of any work which in respect of materials or workmanship is not, in the opinion of the Architect in accordance with the contract.

50) INSPECTION OF OPERATIONS :-

Employer's officers and any person authorized by him shall at all times have access to the works and to all workshops and placed (including required documents) where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the work and the contractor shall afforded ever facility for and every assistance in or in obtaining the right to such access.

Contractor

ADDITIONAL CONDITIONS OF MATERIALS

(Cement M.S. Bars, Bulk Asphalt Etc.)

Brought By Contractor

1. All materials such as cement, Mild Steel, H.Y.S.D bars, etc. required for execution of work shall be brought by Contractor at his own cost.
 2. The contractor shall maintain the record of these materials (Cement, Steel, Bulk Asphalt etc. in the prescribed Proforma and registers as directed by Architect or his representatives. The samples of prescribed. Proforma is attached at the end (page No.85 to 88) these registers shall be signed by both contractors and representative of Architect. These registers shall be made available for inspection, verification for the **Employer** as and when required. These registers shall be in the custody of **Architect** and shall be maintained by the **Contractor**.
 3. The materials required only for this work shall be kept in the godown at site. Not material shall be shifted out side of the godown except for the work for which this agreement is entered, without prior approval of the Architect or his representatives.
 4. The material i.e. steel etc. brought on the work site shall be accompanied with the necessary Company/Manufacturing firms test certificates in addition these material shall be tested as per frequency prescribed by the Architect and the cost of such testing and then only the contractor. If the test result are satisfactory, then and then only the material shall be allowed to be used on the work. if the test results are not as per standard, these materials shall be immediately removed from the work site at contractor's cost. In case of cement, if so requested by the contractor in written in, material will be allowed to be used before receipt the test result but his will be entirely at the risk and cost of the contractor.
 5. The contractor shall produce sufficient documentary evidence i.e. bill for the purchase, octroi receipts, etc. for the purchased of material brought on the work site at once if so requested by Architect.
 6. All these material i.e. cement steel. Shall be protected from any damages, rains etc. by the contractor at his own cost.
- Contractor
7. The contractor will have to erect temporary shed of approve specifications of restoring of above materials at work site at contractor a cost having double lock

arrangements (By Double lock it is mean that godown shall always blocked by two locks, one lock being owned and operated by Contractor and other by Architect or his authorized representative and the door shall be open able only after both locks opened.)

8. If required, the weighing of cement bags/steel/bulk asphalt bouzers a Brought by the contractor shall be carried out by the contractor at his own cost.
9. The contractor shall not be use cement and other material for the item to be executed outside the scope of this contract except for such ancillary small item as are connected and absolutely necessary for execution of this work as may be decided by the Architect.
10. Employer shall not be responsible for the loss in cement, steel, bulk, asphalt etc. during transit to work site. The cement brought by the contractor at the work site store shall mean 50kg., equivalent to 0.0347 cubic meter per bag by weight the rate quoted should correspond to this method of reckoning. In case of ordinary/controlled concrete, if cement is found shourt, the shortage/shortages will be made good by the contractor at his cost.
11. In case the materials brought by the contractor become surplus owing to the change in the design of the work, the materials should be taken back by the contractor at his own cost after prior permission of Architect.
12. All empty bags or empty asphalt drums shall be the property of contractor and the same is removed immediately after completion.

Contractor

SPECIFICATION FOR FORMWORK AND STEEL CENTERING

I FORMWORK :-

1) FORMWORK :-

Formwork shall include all temporary forms of moulds required for forming the concrete, which is cast-in=suit together with all temporary construction, required for their support. Unless otherwise stated all formwork shall conform to I.S. specifications.

2) DESIGN OF FORMWORK :-

Formwork including complete false work shall be designed by the contractor in accordance with I.s. 2750, 4041 shall false design work and all other relevant I.S. Codes without any extra cost to the Employer and these shall be got approved form the/Engineer before any formwork is taken up.

2.1 The contractor shall entirely be responsible for the adequacy and safety for false work not withstanding any approval or review by the Architect of his drawing and design preparatory system of formwork, if used detailed information shall be furnished to the Architect for approval.

3) QUALITY OF SHUTTERING :-

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

3.1 Ply-board shuttering material to be used for sides of beams and columns shall marine or laminated plywood well seasoned free from projecting nails, splits or other defects that may mark on the surface of concrete. It shall not be so dry as to absorb water from concrete and swell and bulge, or so green or wet as to shrink after election Mild steel plates or plywood shall be used for slab and beam bottoms.

3.2 The timber shall be accurately sawn and planed on the sides and the surface coming in contact with concrete.

3.3 So far as practicable clamps shall be used to hold the forms together, where use of nails is unavoidable minimum number of nails shall 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.

Contractor

4) TOLERANCE :-

4.1 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, tolerances unless specified in these documents or drawings or as directed by the Architect.

- a) Section dimensions = 5 Millimeters.
- b) Plumb = 1 in 1000 of height
- c) Levels = 3 Millimeters before any deflections

4.2 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 Architect. Errors if noticed in any lift/tile 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.

5) SPECIAL PROVISIONS

Whenever the concreting of timber members is required to be carried out within shutters of considerable depth, temporary openings in the sides of the shutters shall, if so directed by the Architect be provided to facilitate the pouring and consolidation of the shutters of wall and deep beams to permit the explosion of rubbish etc.

6) REMOVAL OF FORMWORK :-

The formwork shall be removed as not to cause damage to concrete. Centering shall be gradually and uniformly lowered in such a manner as to avoid any shock or vibration. 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 worked out. Under no circumstances should 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 for striking but not before the period as mentioned in I.S. 456-1978 where ordinary Portland Cement is used.

Contractor

II STEEL CENTERING

1) Work Includes

Erecting steel centering with contractors materials comprising of standing steel adjustable props and standard steel trusses/joints/spans/centering plat for bottom of slab and steel plats for bottom of beams etc. of adequate strength properly balanced for obtained adequate rigidity to withstand all loads coming on it including permanent and temporary fixtures and fastenings etc. complete for R.C.C. members like beams, slab and canopy including its removal after the specified period stacking, making good the damaged parts/its replacement before its next use with all leads and lift (All centering material shall be of contractor)

1.1 For R.C.C. beams lintels, arches etc. formwork shall be of plywood of adequate thickness and grade only. The centering/supporting arrangement such as standard steel trusses/joists/snaps standard adjustable/fixed prop öHö Type frames etc. Shall be designed by the contractor and got approved from the Architect before commencement of its erection. The contractor with the prior approval of the Architect shall use standard steel centering arrangements, which may be manufactured by the reputed firm.

1.2 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 arrangements shall be adequately braced and proper secured by using appropriate type of fastening 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 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 architect reserves right to call detail design calculations of the entire centering or part thereof to verify its stability and also reserve right to reject entire 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.

Contractor

1. ITEM TO INCLUDE :-

To item shall include erection of centering with M.S. props, struts with all bracings, fastenings and fixtures, its removal after the specified period and its safe maintenance during the above period, cost of safety precautions required to be taken for the workmen and architect or his representatives.

1.1. Properly stacking of material after removal at suitable place, replacement of damaged/worn out parts, cleaning etc.

1.2 The material used for centering shall property of contractor and shall be allowed to be taken away after completion of work.

1.3 The centering, supporting arrangement should be designed by the contractor. He may make use of the standard centering arrangement made by standard manufacture such as Arco Blue Bird. All the relevant codes etc. will be followed and appropriate centering may be suggested. The rate should include all temporary permanent arrangement including temporary fastening and fixtures. The centering material should be of contractor and he should be taking away from the site of work after completion of work. isolated lintels less than two meters in length, chajja and plinth beam shall not be paid for centering under this item. The payment to the extent of completed R.C.C. work shall only be made irrespective of quality of centering material procured by the contractor at the work site.

Contractor

Quality Assurance Clause

1) To ensure the specified quality of work, which will also include necessary survey temporary works etc. the contractor shall prepare a quality assurance plan and get the same

approved by the Architect within one month from the date of work order. For this, the contractor shall submit an organization chart of this technical personnel to be developed on the work along with their qualification, job description defining the functions of reporting, supervising, inspecting and approving. The contractor shall also submit the list of tools, equipment and the machinery and instrumentation, which he propose to use for the construction and for testing in filed and/or in the laboratory and monitoring. The contractor shall modify/supplement the organization chart and the list of machinery, equipments etc. as per the direction of the Architect and shall deploy the personnel and equipment on the field as per approved chart and list respectively. The contractor shall submit written method statements detailing is exact proposals or execution of the work in accordance with the specification. He will have get these approved from the architect. The quality of the work shall be properly documented through certificates, records; check lists and log books of results etc. such records shall become piled from beginning of the work and the continuously updated and supplemented and this will be the responsibility of the contractor. The forms should be got approved from the Architect.

2) The contractor shall prepare detailed completion drawing after completion of the work. he shall also prepare and submit a maintenance manual giving procedure for maintenance, with the periodicity of the maintenance works including inspection tools and equipments to be used, mean of accessibility for all parts of structure. He shall also include in the manual the specifications for the maintenance work that would be appropriate for the technique of construction. This manual shall be submitted within contract period.

Contractor

General Specifications for Waterproofing

Rates for respective items shall include for the additional specifications.

- 1) The work of water proofing described in the following items shall be carried out by the contractor only through a removed specialist waterproofing agency using cement waterproofing compounds, as approved in writing by the Architect.
- 2) The contractor shall give before actual execution detailed specifications for each item of work of waterproofing to be executed according to the specifications of the specialist agency, he proposes to employ, for approval. The work shall not be started unless approval in writing is given by the Architect or his representatives to the said specifications.
- 3) The contractor shall give a guarantee bound on requisite stamp paper for a minimum period of 7 years all the item of waterproofing done, During the guarantee period the contractor shall entirely by responsible to rectify and defect at his own cost to maintain the work in water proofing conditions. The waterproofing contractor shall also have to make good all the surroundings disturbed by him during the rectification work at his own cost. The form of written guarantee shall be on a legal stamped agreement acceptable to the Government. The guarantee shall be given within one month from the date of completion of waterproofing treatment but any delay in furnishing the guarantee shall not relive the contractor from the implication of this clause.
- 4) 10% (Ten percent) of the cost of the waterproofing work executed shall be retained as **“Retention Money”** for a period of seven years covering the guarantee and the same shall be released only after satisfactory performance of the treatment during guarantee period of 7 years.
- 5) The waterproofing agency shall provide and install at its own cost the following for its own sue and remove the same after completion of the work.
 - i) Two pumps electrical/diesel operated for watering and curing at any level in the Complex. Curing for all items shall be carried out for a minimum period of 14 days.
 - ii) Temporary Mild steel water storage tanks.
 - iii) Temporary galvanized iron pumping and fittings for water line.
 - iv) Flexible hose lengths.

Contractor

- v) Cement godown, site office.
- 6) Injections to reinforced cement concrete slab, wherever required have to be undertaken by the contractor free of cost.
- 7) Before starting the waterproofing work, the surface receiving the treatment shall be cleaned properly.
- 8) The item of waterproofing as given in the schedule applies for work in any position and on any floor and at any height. The lift of materials shall not form any criteria for extra payment.
- 9) For the reference for contractor, guideline specifications for waterproofing are attached herein with the General specifications.

Contractor

General Guidelines for Waterproofing work for reference to Contractor

(Note : The contractor is required to give detailed specification for each item of waterproof work.)

1. Roof, slab and terrace

Providing average 112 mm thick cement based waterproofing treatment with brick at coba bedding by keeping the treatment minimum 75mm thick at the rain water pipe point and keeping the gradient not flatter than 1 in 100.

- a. Cleaning the surface to the requirements.
 - b. Giving a coat of wash mixed with cement.
 - c. Providing 12mm thick cement mortar bed with admixture of waterproofing compound to for a bed for brick bats, special care shall be taken at the junction of parapet & terrace slab to ensure gaps if any are properly sealed.
 - d. Placing brickbats varying sizes (average 80mm thick) to a proper slope and grouting their joints with chemical process in cement mortar with 2% with waterproofing compound.
 - e. Providing all around the terrace large waterproof watts (rounding) up to a height of 30cm in P.C.C> or as directed above the finished level of waterproof treatment.
 - f. Finishing and curing for 14 days.
 - g. Carrying out the test. Payment for the item shall be releases only after results of pond test are satisfactory.
2. Toilets
- a. Cleaning the surface to the requirements.
 - b. Giving a coat of wash mixed with cement.
 - c. Providing 25mm thick waterproof treatment to the bottom of toilet floors.
 - d. Providing 20mm to 25mm thick cement mortar waterproof treatment to the walls of toilets up to the height of 1 meter above the finished floor level.
 - e. Providing waterproof watts (rounding) all around the toilets.
 - f. Grouting the months of inlets and outlets.
 - g. Filling sunk portion with brickbats including waterproof mortar and the to surface left rough to form a key for tiles.

Contractor

3. **Over Head Tank**

The work under some items in Schedule ðBö of the tender pertains to construction of underground/overhead water tank. After completion of the work, water tank as a whole shall be tested for water tightness and leakages if any shall be rectified forthwith without any extra cost to the **Employer**.

Contractor

GUARANTEE BOND FOR WATER PROOFING

(On stamp paper worth Rupees 100/-)

**Name of work :- Proposed Construction of Girl's Hostel Building for Shri
Tuljabhawani College of Engineering, Tuljapur Dist. Osmanabad.**

Name of Agency :- _____

Agreement No. :

The contractor hereby declares that the water proofing work carried out under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained/maintained in the clause hereof and the contractor hereby guarantees that the said work would continue to conform to the description and quality aforesaid for a period of seven years from the date of handing over the said work to the Employer and not with if during the aforesaid period of seven years the said work to the Employer and not with if during the aforesaid period of seven years the said work be discovered not to conform to the description and quality aforesaid or have deteriorated (and the decision of the Architect or his representative in that behalf will be final and conclusive) the Employer will be entitled to reject the said work or such portion thereof as may be discovered not to conform to the said description and quality. On such rejection, the work will be at the contractor's risk and all the provisions herein contained relating to rejection of work etc. or such portion thereof, as is rejected by the Architect or his representatives, otherwise the contractor shall pay to the Employer, such damages as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Employer on the behalf under this contract or otherwise.

Date : / /

Place :

Contractor

GUARANTEE BOND OF ANTI TERMITE TREATMENT

Name of work :- Proposed Construction of Girl's Hostel Building for Shri Tuljabhawani College of Engineering, Tuljapur Dist. Osmanabad.

Guarantee Bond of Anti Termite Treatment.

Name of Agency :-

Agreement No. :-

The contractor hereby declares that the Anti Termite Treatment carried out under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained/maintained in the clause hereof and the description and quality aforesaid for a period of five years from the date of handing over the said work to the Employer and notwithstanding the fact that the Employer may have inspected and or approved the said work. If during the aforesaid period of seven years the said work be discovered not to conform to the description and quality aforesaid or have deteriorated (and the decision of the Architect or his representative in that behalf will be final and conclusive) the Employer will be entitled to reject the said work or such portion thereof as may be discovered not to conform to the said description and quality. On such rejection, the work will be at the contractor's risk and all the provisions herein contained relating to rejection of work etc. or such portion thereof, as is rejected by the Architect or his representatives, otherwise the contractor shall pay to the Employer, such damages as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Employer on the behalf under this contract or otherwise.

Date : / /

Place :

Contractor

Undertaking and Guarantee.

Name of Contractor :- _____

01. I/We will replace, repair and adjust free of all charges to the Employer, any part of the work which fails to comply the specification as referred to in our specifications attached to tender, fair wear and tear excepted until the completion and a period of _____ months from the date of acceptance certificate issued under article 20 of General Condition of contract.
02. All he works will be reliable.
03. All the work will be of a type which has been proved in service, to be suitable for the duty required by the specifications and will be manufactured and tested in accordance with the appropriate standard specifications approved by the Architect or his representatives.
04. I/we accept and abide by the clause relating to quality and guarantee of work.

Signature of Contractor

Declaration of the Contractor

I hereby, declare that, I have made myself thoroughly conversant with the local conditions regarding all materials such as stones, murum, sand etc. and labour on which I have based m rates for this work. The specifications and lead for this work have been carefully studied and understood by me before submitting the tender. I undertake to use only the best materials approved by the Architect, or his duly authorized representative before starting the work and to abide by his decision.

I hereby undertake to pay the labourers on the work as per Minimum Wages Act, 1948 applicable to the Zone concerned.

Signature of Contractor

Schedule “A”

Name of Work :- **Proposed construction of Girls Hostel Building for Shri
Tuljabhavani College of Engineering, Tuljapur.**

Schedule showing (Approximately) the materials to be supplied by the Employer for work contracted to be executed and preliminary and ancillary works and the rates at which they are to be charged for :-

Sr.No.	Particular	Quantity	Rates in Figure	Rate in Words	Unit	Place of Delivery
		-----	Nil	-----		

Note : All materials such as Cement, Steel etc. shall be procured by contractor at his own cost. The conditions of Schedule attached separately.

Sign of Contractor

Statement No. I

Details of Works of Similar Type and magnitude Carried out by the Contractor

Name of the Tenderer :- _____

Sr.	Name	Agreement	Date of	Tendered	Total	Stipulated	Actual	Remarks
-----	------	-----------	---------	----------	-------	------------	--------	---------

No.	of Work	No. & Date	Starting	Cost	Cost of work done	date of completion	Date of Completion	(Principal feature as in brief)
1	2	3	4	5	6	7	8	9
			-----	Sample	Form	-----		

Contractor

Employer

Statement No. 2

Statement of List of Works in Hand and Works Tendered for as on _____

Name of Contractor

(I) Works in Hands

Sr.No.	Name of Work	Agreement No.	Tendered Amount	Date of Commencement	Stipulated date of Completion	Value of work Already done	Value of Balance work	Probable Date of completion	Remarks
1	2	3	4	5	6	7	8	9	10

(II) Works Tendered For

Sr.No.	Name of Work	Name & Address of Client	Tendered Amount	Time Limit	Probable Date when Decision is expected	Other Relevant Details if any
1	2	3	4	5	6	7

Note :- This is only a standard form, Details are to be furnished in this format in the form of typewritten statement which shall be enclosed in Envelope No. 1

Contractor

Employer

Statement No. 3

Details of Tools, Plants and list of machinery immediately available

With the tenderer for this work

Name of Tenderer :-

Sr.No.	Name of Equipment	No. of Units	Kind & mark	Capacity	Age and Condition	Present Location	Remarks
01	02	03	04	05	06	07	08
			-----	Sample	Form	-----	

Contractor

Employer

Statement No. 4

Details of Technical Personals available with contractor

Name of Tenderer :-

Sr.No.	Name of Person	Qualification	Weather working in field or in office	Experience of execution similar works	Period for which person is working with the tenderer	Remarks
1	2	3	4	5	6	7

Note :- This is only a standard form. Details are to be furnished in this format in the form of typewritten statement, which shall be enclosed in Envelop No. 1

Contractor

Employer

Drawings

Contract Drawings :-

The Contract Drawings provided for tendering purpose with the tender document shall be used as a reference only. Contractor shall visualize the nature of work type if work contemplated and to ensure that the rates and prices quoted by him in the bill of quantities take due to considerations of the complexities of work involved during actual execution / consideration as experienced in the field.

The tendered rates / prices for the work shall necessary drawings, print tracing and negatives which the contractor is required to provide in accordance with the contract.

Documentation :-

If so ordered by the Architect or his representatives, the contractor will prepare drawings of the work as built and will supply original and three copies to the Architect who will verify and certify these drawings.

Final, as built, drawings shall then be prepared by the contractor and supplied in triplicate along with a micro-film of the same to the Architect for record and reference purpose at the contractor's cost.

BAR CHART

NAME OF WORK : PROPOSED CONSTRUCTION OF GIRL'S HOSTEL BUILDING FOR SHRI TULJABHAVANI COLELGE OF ENGINEERING, TULJAPUR

MONTHS	WEEKS	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
SR.NO.	DESCRIPTION	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	Excavation for foundation																								
2	PCC for foundation																								
3	RCC footing																								
4	Filling in plinth																								
5	RCC Column																								
6	Plinth/Ground beams , stair case																								
7	Brick work in Plinth																								
8	Brick work in superstructure																								
9	RCC lintel/lintel beam																								
10	RCC Slab satir case																								
11	Internal Plaster																								
12	Water supply/plumbing/sanitary ware fittings																								
13	Flooring/skirtiing/daddo																								
14	Doors/windows																								
15	Internal Painting/polishing																								
16	RCC Columns (First Floor)																								
17	Brick work insuperstructure (First Floor)																								
18	RCC Lintel/lintel beam (First Floor)																								
19	Second RCC Slab satir case (First Floor)																								
20	Internal Plaster (First Floor)																								
21	Flooring/skirtiing/daddo(First Floor)																								
22	Doors/windows (First Floor)																								
23	Internal Painting/polishing (First Floor)																								
24	RCC Columns (Second Floor)																								
25	Brick work insuperstructure (Second Floor)																								
26	RCC Lintel/lintel beam (Second Floor)																								
27	Second RCC Slab satir case (Second Floor)																								
28	Internal Plaster(Second Floor)																								
29	Flooring/skirtiing/daddo(Second Floor)																								

Shri. Tuljabhavani Temple Trust, Tuljapur
Name of Work:- Construction Of Girls Hostel Building
At Shri. Tuljabhavani College Of Engineering, Tuljapur.

SCHEDULE - "B" :-

Qty.	ITEM	RATE		UNIT	AMOUNT
		Figure	Words		
188.53	<p>Item No.1: Excavation for foundation in earth, soils of all types sand, gravel and soft murum,including removing the excavated meterial upto a distance of 50 M beyond the building area stacking and spreading as directed, dewatering,preparing the bed for the foundation and necessary back filling ,ramming, watering Including shoring and strutting etc.complete (Lift up to 1.50 metre)</p> <p>Spec No.Bd.A.1 Page No 259</p> <p>D.S.R. I.No.1 P.No.10</p>	73.30	Rupees Seventy three & thirty paise only	Cu.M.	13819.00
72.63	<p>Item No.2: Excavation for foundation in hard murum Including removing the excavated meterial upto a distance of 50 M. beyond the building area stacking and spreading as directed, dewatering,preparing the bed for the foundation and necessary back filling ,ramming,watering Including shoring ,strutting complete. (Lift up To 1.50 Metre)</p> <p>Spec No.Bd.A.2 Page No 259</p> <p>D.S.R. I.No.3 P.No.10</p>	80.00	Rupees Eighty only	Cu.M.	5810.00
72.63	<p>Item No.3: Excavation for foundation in hard murum and boulders Including removing the excavated meterial upto a distance of 50 M. beyond the building area stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling ,ramming, watering Including shoring and strutting complete. (Lift upto 1.50 Metre)</p> <p>Spec No.Bd.A.3 Page No 259</p> <p>D.S.R. I.No.5 P.No.11</p>	92.00	Rupees Nintey Two only	Sq.M.	6682.00

72.63	<p>Item No.4: Excavation for foundation in soft rock and old cement and lime masonry foundations Including removing the excavated material upto a distance of 50 M. beyond the building area stacking and spreading as directed, dewatering,preparing the bed for the foundation and necessary back filling ,ramming,watering Including shoring and strutting complete. (Lift above 1.50 Metre) Spec No.Bd.A.4 Page No 259D.S.R. I.No.8 P.No.11</p>	190.00	Rupees One Hundre Nintey only	Cu.M.	13800.00
72.63	<p>Item No.5: Excavation for foundation in hard rock by chisling, wedging, line drilling etc.Including trimming and leveling the bed, removing the Excavated material upto a distance Of 50 M. beyond the building Area and all lifts, stacking as directed, dewatering and back filling wirh available earth / murum, ramming, watering complete. (Lift above 1.50 Metre) Spec No.Bd.A.6 Page No 260 D.S.R. I.No.12 P.No.12</p>	451.50	Rupees Four Hundred Fifty One & Fifty paise only	Cu.M.	32792.00
3335.00	<p>Item No.6: Providing pre-constructional Anti-termite treatment by treating the bottom surface and the sides of excavation at the rate of 5 litres of emulsion concentrate of 0.5 percent of Chloropyriphox per sqm. of surface area with ten years guarantee bond as per I.S. 6313 (part-II)-1973 (As per Item No. 22.41 of schedule of rate of National Building Organisation.) Spec. No. : As directed by Engineer in charge D.S.R. I.No.427 P.No.108</p>	35.00	Rupees Thirty Five only	Sq.M.	116725.00

1027.80	<p>Item No.7: Providing pre-constructional Anti-termite treatment by treating the backfill in immediate contact with foundation at the rate of 5 litres of emulsion concentrate of 0.5 percent of Chloropyriphox per sqm. of verticle surface area with ten years guarantee bond. As per I.S. 6313 (part-II)-1971 (Quantity as per Item No. 22.42 of schedule of rate of National Building Organisation.) Spec. No. : As directed by Engineer in charge D.S.R. I.No.428 P.No.108</p>	63.00	Rupees Sixty Three only	Sq.M.	64751.00
584.14	<p>Item No.8: Providing pre-constructional Anti-termite treatment by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate of 0.5 percent of Chloropyriphox per sqm. of surface area with ten years guarantee bond. As per I.S. 6313 (part-II)-1971 (Quantity as per Item No. 22.43 of schedule of rate of National Building Organisation.) Spec. No. : As directed by Engineer in charge D.S.R. I.No.429 P.No.108</p>	34.00	Rupees Thirty Four only	Sq.M.	19861.00
119.00	<p>Item No.9: Providing post-constructional Anti-termite treatment to the soil along the external perimeter of building by punching holes of 1.2 to 1.5 cm. diameter about 30-60 cm. deep at 15 cm. centre to centre as close to the wall as possible and to inject 0.5 % Aldrin or chloropyriphox at the rate of 7.5 Litres per hole and sealing a same with proper filling with ten years guarantee bond. As per I.S. 6313 (part-III)-1971 (Quantity as per Item No. 22.44 of schedule of rate of National Building Organisation.) Spec. No. : As directed by Engineer in charge D.S.R. I.No.430 P.No.109</p>	72.00	Rupees Seventy Two only	Rg.M.	8568.00

131.51	<p>Item No.10: Providing and laying in situ, cement concrete M-10/ 1:3:6 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including dewatering, formwork, compacting, roughening them if special finish is to be provided, finishing if required, and curring etc. complete.</p> <p>Spec. No. : Bd.E.1 Page No. 287 D.S.R. I.No.24 P.No.15</p>	2487.31	Rupees Two thousand Four Hundre Eighty Seven & Thirty one only	Cu.M.	327106.00
74.97	<p>Item No.11: Providing and laying in situ, cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete work in foundation like raft, grillages, strip foundation and footings of reinforced cement concrete columns and steel stanchion including bailing out water, formork, compaction, and finishing, curing etc. complete. (Excluding steel reinforcement and structural steel)</p> <p>Spec. No. : Bd.F.3 Page No. 298 D.S.R. I.No.34 P.No.18</p>	3676.96	Rupees Three thousand Six hundred seventy six & Nintey Six paise only	Cu.M.	275662.00
	<p>Item No.12: Providing and Casting in situ, cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete columns as per detailed designs and drawing or as directed including centering formork, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement)</p> <p>Spec. No. : Bd.F.5 Page No. 300 D.S.R. I.No.35 P.No.18</p>				
49.35		5026.96	Rupees Five thousand Twenty six & Nintey six paise only	Cu.M.	248080.00
Ground Floor					

26.08		5167.96	Rupees Five thousand One hundre sixty severn & nintey six paise only	Cu.M.	134780.00
32.97	First Floor	5308.96	Rupees Five thousand Three hundred eitht and nintey six paise only	Cu.M.	175036.00
	Second Floor				
	Item No.13: Providing and Casting in situ, cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels as per detailed designs and drawing or as directed including centering formork, compaction and finishing the formed surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement)				
	Spec. No. : Bd.F.6 Page No. 300				
	D.S.R. I.No.37 P.No.19				
128.05	Ground Floor	4721.96		Cu.M.	604647.00
54.21	First Floor	4853.81		Cu.M.	263125.00
55.06	Second Floor	4985.66		Cu.M.	274510.00

Item No.14: Providing and Casting in situ, **cement concrete M-20** of trap/ granite/ quartzite/ gneiss metal **for reinforced cement concrete slabs and landings** as per detailed designs and drawing or as directed including centering formwork, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement)

Spec. No. : Bd.F.8 Page No. 302
D.S.R. I.No.39 P.No.19

142.96	Ground Floor	4876.96	Cu.M.	697210.00
82.08	First Floor	5013.46	Cu.M.	411505.00
76.58	Second Floor	5149.96	Cu.M.	394384.00

Item No.15: Providing and Casting in situ, **cement concrete M-20** of trap/ granite/ quartzite/ gneiss metal **for reinforced cement concrete chajja** as per detailed designs and drawing or as directed including centering formwork, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement)

Spec. No. : Bd.F.9 Page No. 303
D.S.R. I.No.40 P.No.19

2.65	Ground Floor	4881.96	Cu.M.	12937.00
1.55	First Floor	5018.61	Cu.M.	7779.00
1.66	Second Floor	5155.26	Cu.M.	8558.00
0.37	Item No.16: Providing and Casting in situ, cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete canopy as per detailed designs and drawing including centering formwork, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement)	4914.96	Cu.M.	1819.00

Spec. No. : Bd.F.10 Page No. 304
D.S.R. I.No.41 P.No.19

Item No.17: Providing and Casting in situ, **cement concrete M-20** of trap/ granite/ quartzite/ gneiss metal for **reinforced cement concrete pardi of required thickness** including centering formwork, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement)
Spec. No. : Bd.F.11 Page No. 304
D.S.R. I.No.42 P.No.20

12.37	Ground Floor	5276.96	Cu.M.	65276.00
1.92	First Floor	5425.46	Cu.M.	10417.00
1.92	Second Floor	5573.96	Cu.M.	10702.00

Item No.18: Providing and Casting in situ, **cement concrete M-20** of trap/ granite/ quartzite/ gneiss metal for reinforced **cement concrete west slab and steps** as per detailed drawings for stair cases including centering formwork, compacting roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement)
Spec. No. : Bd.F.13 Page No. 305 D.S.R. I.No.43 P.No.20

3.52	Ground Floor	4921.96	Cu.M.	17325.00
3.52	First Floor	5059.81	Cu.M.	17811.00
3.52	Second Floor	5197.66	Cu.M.	18296.00

Item No.19: Providing and Casting in situ, **cement concrete M-20** / of trap/ granite/ quartzite/ gneiss metal for **reinforced cement concrete Fins in positions as shown on the drawings or as directed by the Engineer in charge** including centering formwork, compacting finishing the formed surface with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface and curing etc. complete. (Excluding reinforcement)
Spec. No. : Bd.F.14 Page No. 305
D.S.R. I.No.46 P.No.20

3.98	Ground Floor	5876.96	Cu.M.	23390.00
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5.64	First Floor	6043.46	Cu.M.	34085.00
3.98	Second Floor	6209.94	Cu.M.	24716.00
	Item No.20: Providing and casting in situ, cement concrete M -20/ of trap/ granite/ quartzite/ gneiss metal for plain or moulded sills, cornice, jamb, block in cource, or architraves of required size and shapes including centering formork, compacting, roughening them if special finish is to be provided and curring etc. complete.			
	Spec. No. :	Bd.E.5	Page No.	290
	D.S.R. I.No.32 P.No.17			
1.61	Ground Floor	3826.96	Cu.M.	6161.00
1.61	First Floor	3931.96	Cu.M.	6330.00
1.61	Second Floor	4036.96	Cu.M.	6500.00
	Item No.21: Providing and fixing in position T.M.T. bar reinforcement of various diameters for reinforced cement concrete pile caps, footing, foundations, slabs, beams, columns, canopies, stair case, 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.			
	Spec. No. :	Bd.F.17	Page No.	306
	D.S.R. I.No.49 P.No.21			
65.140	Ground Floor	44255.00	M.T.	2882771.00
29.440	First Floor	44697.55	M.T.	1315896.00
31.620	Second Floor	45140.10	M.T.	1427330.00
87.16	Item No.22: Filling in plinth and floors with approved excavated materials in 15 cm. to 20 cm. layers including watering and compaction etc.complete.	30.00	Cu.M.	2615.00
	Spec No.	Bd.A.10	Page No	262
	D.S.R. I.No.13 P.No.12			

1352.69	Item No.23: Filling in plinth and floors with contractor's soil, sand or murum in 15 cm. to 20 cm. layers including watering and compaction etc.complete. Spec No. : As directed by Engineer in charge D.S.R. I.No.14 P.No.12	225.68	Cu.M.	305275.00
115.20	Item No.24: Providing soling using 80 mm. size trap metal in 15 cm. layer including filling voids with sand/ grit ramming, watering complete. Spec No. : As directed by Engineer in charge D.S.R. I.No.16 P.No.13	526.11	Cu.M.	60608.00
159.68	Item No.25: Providing and laying 50 mm. thick layer in cement mortar 1:8 below plinth beam including floating, watering, curing and levelling and ramming the bed if necessary before laying the layer etc. complete. Spec. No. : As directed by Engineer in charge D.S.R. I.No.51 P.No.21	129.66	Sq.M.	20704.00
33.48	Item No.26: Providing and fixing in position after hoisting, precast 1:2 cement mortar reinforced jali 75 mm. thick of approved design cement mortar 1:3 and curing etc. complete. (including 4 mm. diameter G.I. wire reinforcement) complete. Spec. No. : Bd.F.19 Page No. 307 D.S.R. I.No.50 P.No.21	405.00	Sq.M.	13559.00
145.86	Item No.27: Providing second class Burnt Brick masonry with conventional / Indian Standard type bricks in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering complete. Spec. No. : Bd.G.1 Page No. 313 D.S.R. I.No.56 P.No.23	2376.34	Cu.M.	346613.00

Item No.28: Providing **second class Burnt Brick masonry** with conventional / Indian Standard type bricks in cement mortar **1:6 in superstructure** including striking joints, raking out joints, watering and scaffolding complete.
Spec. No. : Bd.G.5 Page No. 315
D.S.R. I.No.58 P.No.23

215.68	Ground Floor	2476.34	Cu.M.	534097.00
190.63	First Floor	2544.59	Cu.M.	485075.00
240.94	Second Floor	2612.84	Cu.M.	629538.00

Item No.29: Providing **second class Burnt Brick masonry** with conventional type bricks in cement mortar **1:4 in half brick thick wall** including 75 mm thick band in C.C.1:2:4 after every Eleventh layer with mild steel longitudinal reinforcement of 2 bars of 6 mm. diameter , scaffolding , raking out joints, watering etc.complete. (The C.C.band to provided along with M.S.reinforcement.)
Spec. No. : Bd.G.7
Page No. 316 D.S.R. I.No.60 P.No.24

150.51	Ground Floor	405.13	Sq.M.	60976.00
150.51	First Floor	416.68	Sq.M.	62715.00
150.51	Second Floor	428.23	Sq.M.	64453.00
5049.14	Item No.30: Providing and fixing 30 cm. wide 22 gauge chicken mesh over joints of reinforced concrete member and brick/ stone masonry of approved quality including necessary nailing, drilling and lapping etc. complete. D.S.R. I.No.435 P.No.110	33.00	Rg.M.	166622.00

Item No.31: Providing **internal cement plaster 6 mm. thick in a single coat in cement mortar 1:4** with neeru finish to concrete surface in all positions including scaffolding and curing complete.

Spec. :Bd.L .1

Page

No.

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D.S.R. I.No.86 & 99 P.No.31 & 33

1002.11	Ground Floor	70.68	Sq.M.	70829.00
560.55	First Floor	72.69	Sq.M.	40746.00
529.25	Second Floor	74.70	Sq.M.	39535.00

Item No.32: Providing **internal cement plaster 12 mm. thick in single coat in cement mortar 1:5** with neeru finish to **to concrete or brick surfaces**, in all positions including scaffolding and curing complete.

Spec. :Bd.L .2 Page No. 368

D.S.R. I.No.88b P.No.31

1255.43	Ground Floor	99.20	Sq.M.	124539.00
1055.72	First Floor	101.90	Sq.M.	107578.00
969.56	Second Floor	104.60	Sq.M.	101416.00

Item No.33: Providing **internal cement plaster 20 mm. thick in two coats in cement mortar 1:5** with neeru finish **to concrete, brick surface**, in all positions including scaffolding and curing complete.

Spec. :Bd.L .4 Page No. 368

D.S.R. I.No.92 & 99 P.No.31 & 33

1255.43	Ground Floor	130.72	Sq.M.	164110.00
1055.72	First Floor	134.20	Sq.M.	141678.00
969.56	Second Floor	137.68	Sq.M.	133484.00

Item No.34: Providing **sand faced plaster externally** in cement motar using khasalia/ kasaba or similer type 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 recive the sand faced tretment 10 mm. thick in cement mortar 1:4 finishing the surface by taking out grains and curing for foureen days scaffolding etc. complete.for compound Wall. (**Only for Building works not for compound wall**)
Spec. :Bd.L .7 Page No. 367
D.S.R. I.No.96 P.No.32

1189.08	Ground Floor	188.40	Sq.M.	224023.00
611.18	First Floor	193.50	Sq.M.	118263.00
1167.54	Second Floor	198.60	Sq.M.	231873.00
63.94	Item No.35: Providing internal cement plaster 12 mm. thick in single coat in cement mortar 1:3 with fine cement finish to to concrete or brick surfaces, in all positions including scffolding and curing complete. Spec. :Bd.L .2 Page No. 368 D.S.R. I.No.90 & 106 P.No.31 & 33	127.20	Sq.M.	8133.00

Item No.36: Providing patti 75 mm. wide on plastered surface 12mm to 15mm thick in CM 1:3 line and level including neet finishing scaffolding curing etc. complete.**D.S.R. I.No.110 P.No.34**

251.09	Ground Floor	10.50	Rg.M.	2636.00
211.14	First Floor	10.50	Rg.M.	2217.00
142.50	Second Floor	10.50	Rg.M.	1496.00

Item No.37: Providing patti 100 mm. wide on plastered surface 12mm to 15mm thick in CM 1:3 line and level including neet finishing scaffolding curing etc. complete.
D.S.R. I.No.110 P.No.34

297.27	Ground Floor	13.50	Rg.M.	4013.00
152.80	First Floor	13.50	Rg.M.	2063.00
291.89	Second Floor	13.50	Rg.M.	3941.00
7.94	Item No.38: Providing and fixing country teak wood frame of required size as per drawing for second class doors and windows, ventilators, fan light, cup boards and clear storey windows including chamfering/ rounding, rebating and mild steel hold fast of size 300 X 40 X 5 mm. fixed with screw by drilling holes to wooden frames including cutting recesses into frame to accommodate outside strip of frame grill and finishing with oil painting complete. Spec. No.: Bd.T.2 Page No. 478 D.S.R. I.No.236 P.No.60	63046.00	Cu.M.	500585.00
208.80	Item No.39: Providing and fixing precast R.C.C. M - 30 frames for door / windows / lowered windows/ ventilators of cross setion 125 mm X 50 mm with two bars of 8 mm. for steel as reinforcement and compressive strength of 300 Kg/ Sqm. with wood like finish having 3 Nos./ of 6 Nos. of 12 gauge G.I. pipes, embedded on vertical members for single/ double lear door shutter respectively for fixing hinges with 4 Nos. of threaded holes on each plate, 1 No./ 2 No. of 12 mm. dia.. hole/ holes on horizontal top member for fixing tower bolt 16 mm dia soils for aldrop and sliding door bolt of the shutter is single leaf, 3 Nos, of splinted tailed M.S. hold fast on each of the vertical members fixed in concrete block of 10 X 10 X 20 cm. in half brick wall and 23 X 10 X 20 cm in one brick thick wall etc. complete. D.S.R. I.No.241 P.No.61	285.00	Rg.M.	59508.00

13.02	<p>Item No.40: Providing and fixing country teak wood double leaf second class partly panelled partly glazed door without ventilator / fanlight as per detailed drawing including size of style, top rail, frieze rail 95 mm. X 40 mm. thick with lock and bottom rail 195 mm. X 40 mm. thick with panel of 25 mm. thickness and glass panel 3 mm. thick plain/ frosted glass including iron oxidised fixtures and fastenings, finishing the wood work with one coat of primer (excluding door frame) complete. (For span 1400 X 2000 mm. to 1400 X 2800 mm.) Spec. No. : Bd.T. 11 Page No. 482 D.S.R. I.No.254 P.No.64</p>	2490.00	Sq.M.	32420.00
18.00	<p>Item No.41: Providing and fixing in position cold rolled pressed steel sheet door/ window frame of size 100 X 60 X 1.25 mm. (18 B.W.G.thickness)including holdfast, no member at bottom of frame 10 mm. thick rebate and depth of rebate after shutter thickness, hinges, holdfast etc. fitted after shutter requirement, powder coating to the frame and filling the frame with concrete or mortar etc. complete. Spec. No.: As directed by Engineer in chargeD.S.R. I.No.239 P.No.60</p>	263.00	Rg.M.	4734.00
5.04	<p>Item No.42: Providing and fixing mild steel grill door 22 to 24 Kg. per sqm. of various size as per detailed drawing without hot dip coating with iron oxidised fixture and fastening and three coats of oil paints etc. complete. Spec. No. :As directed by Engineer in charge. D.S.R. I.No.348 P.No.87</p>	922.20	Sq.M.	4648.00

103.28	<p>Item No.43: Providing and fixing country teak wood <i>single leaf door shutters</i> as per detailed drawing including size of style, top rail, 95 mm. X 35 mm. thick with lock and bottom rail 195 mm. X 35 mm. thick with insert panel of 12 mm. thick commercial ply faced teak wood particle resin (generally conforming to I.S. :3097) including iron oxidised fixtures and fastenings and teak wood beading at junction of panel inserts, finishing the wood work with one coat of primer cmompete. (For span 1200 X 2600 mm. to 1000 X 2100 mm.)</p> <p>No. : Bd.T. 30 Page No. 496 D.S.R. I.No.267 P.No.68</p>	2646.00	Sq.M.	273229.00
60.48	<p>Item No.44: Providing and fixing in position fibre reinforced plastic door shutter 30 mm. thick of approved size and colour with gel coat and pigment on both side with 1.50 to 3.00 mm. thick F.R.P. coating over face of door shutter and 1.50 to 2.00 mm thick F.R.P. coating around top and side surface at edges as additional reinforcement, the foam material used for shutter, rails and styles shall be resisted to mild acid and alkali with density of 35 Kg/Cum of rigid polyurethane in situ foam including wood at appropriate places to take up fixtures and fastenings conforming to I.S. 4020-1998 with necessary fixtures and fastenings etc. complete.D.S.R. I.No.297 P.No.76</p>	2025.00	Sq.M.	122472.00

117.02	<p>Item No.45: Providing and fixing in position double anodised aluminium sliding windows of two tracks mitred and mechanically assembled at corners with frame size of 62 X 45 mm. (Bottom frame with gutter section, bottom frame 0.90 Kg/m and top and side frames 0.838 Kg/m) shutters with sections of 18 mm. X 40 mm. (Wt. 0.56 Kg/m) and interlocking sections 18 mm. X 40 mm. (Wt. 0.625 Kg/m) including 5 mm. thick plain sheet glass, glazing clips, rubber / PVC gasket, roller bearing encased in nylon casing and self locking catch fitted in vertical section with all other accessories etc. complete.</p> <p>D.S.R. I.No.323 P.No.82</p>	2439.41	Sq.M.	285459.00
13.50	<p>Item No.46: Providing and fixing steel ventilator fully glazed partly top hung and partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain obscured glass panel and of approved type and quality and fastening without teak wood boxing and architraves and oil painting two coats etc. complete.</p> <p>Spec. No. : As directed by Engineer in charge D.S.R. I.No.340 P.No.85</p>	1205.00	Sq.M.	16268.00
4.41	<p>Item No.47: Providing and fixing collapsible steel gates in two leaves, with channel pickets, pivoted flat bars, including top and bottom guides, roller, stoppers, handles, all fitting accessories, locking arrangement and one coat of red lead primer complete.</p> <p style="text-align: right;">Spec. No. Bd. T. 57</p> <p>Page No. 511D.S.R. I.No.305 P.No.78</p>	1875.00	Sq.M.	8269.00

117.02	<p>Item No.48: Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kg./sqm. as per drawing including fixtures, necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete. Spec. No. :Bd.U. 1 Page No. 537 D.S.R. I.No.346 P.No.87</p>	997.00	Sq.M.	116669.00
12.60	<p>Item No.49: Providing and fixing mild steel grill railing 30 Kg./sqm. with teak wood hand rail of size 75 mm. X 60 mm. and sill of 75 mm. X 25 mm. and newel posts for stair cases, including fabricating, fixtures, erecting painting the grill work with one coat of anti corrosive paint and two coats of oil painting with approved colour and polishing the sill, hand rail and the newel post with french polish. Spec. No. :Bd.U. 2 Page No. 537 D.S.R. I.No.347 P.No.87</p>	1828.00	Sq.M.	23033.00

Item No.50: providing **water pfoof bedding to floors of bath, W.C** with average 15 cm thick including cleaning the surface, applying cement slurry, admix with water proofing compound at the rate of 1 Kg. per bag of cement laying brick bats in one layer sandwiched between two layers of 20 mm. thick in cement mortar 1:4 proportion including final smooth cement finishing coat mixed with jute at the rate of 1 Kg. per bag, water proofing compound as per requirement with redoing etc. complete including 30 cm. height of wall in cement mortar 1:4 with water proofing treatment. 7 year guarantee on court fee stamp paper of Rs. 100/- including ponding test etc. complet.

Spec. No. As directed by
Engineer in chargeD.S.R. I.No.71 P.No.27

2.59	Ground Floor	1770.20	Cu.M.	4585.00
2.59	First Floor	1823.03	Cu.M.	4722.00
2.59	Second Floor	1875.86	Cu.M.	4858.00

Item No.51: Providing and laying **polished kotah stone flooring 25 mm. to 30 mm. thick** and 45 cm. to 55 cm. wide in plain / diamond pattern on a bed of bed 1:6 cement mortar including cement float, filling joints, with neat cement slurry, curing, mirror polishing and cleaning complete.

Spec. No. Bd.M. 3 Page No. 380
D.S.R. I.No.118 P.No.36

422.93	Ground Floor	632.26	Sq.M.	267402.00
255.46	First Floor	650.86	Sq.M.	16626.00
197.16	Second Floor	669.46	Sq.M.	13199.00

Item No.52: Providing and fixing in required position **skirting or dado of kotah stone slab 25 mm. to 30 mm. thick** and 30 cm. wide on 1:4 cement plaster including cement float, filling joints with neat cement slurry, curing, rubbing, polishing and cleaning complete.

Spec. No. Bd.M. 5
Page No. 381D.S.R. I.No.122 P.No.36

63.23	Ground Floor	587.26	Sq.M.	37132.00
45.54	First Floor	604.51	Sq.M.	27529.00
41.13	Second Floor	621.76	Sq.M.	25573.00

645.00	Item No.53: Providing and fixing coloured vitrified tiles of approved first quality colour and size of Size 600 mm X 600mmX10mm for Dado and skirting in required position pattern / design laid on cement mortar (1:4) including filling joints with neat cement slurry mixed with pigment to match the colour with tiles ,curing rubbing and polishing complete as directed by engineer in charge. <i>(Prior approval of sample and brand by Executive Engineer is necessary before use)</i> <i>D.S.R. I.No.142 P.No.41</i>	1412.26	Sq.M.	910908.00
16.73	Item No.54: Providing and fixing Granite stone of approved quality colour and size of any size 20 mm thick for flooring in required position ,pattern/design laid on cement mortar (1:4) including fixing with adhesive and cutting moulding polishings as per drawings as directed by Engineer incharge. <i>(Prior approval of sample and brand by Executive Engineer is necessary before use)</i> <i>D.S.R. I.No.144 P.No.42</i>	3782.99	Sq.M.	63289.00

228.02	<p>Item No.55: Providing and fixing 60 mm thick factory made hydraulically pressed and mechanically vibrated and compacted precast interlocking cement concrete paving blocks in M-30 grade and approved size and shape as specified 50 mm in gray cement and top surface 10 mm in white cement with coloured pigments including cost of all materials,manufacturing,curing,transportion of block to work site including loading unloading and stacking as directed ,laying paving blocks in position over prepared bed of sand of 50 mm thickness including necessary excavation in all strata spreading ,blindage of fine sand over the prepared bed ,compacting blocks by plate vibrator etc complete as directed by engineer in charge. Spec no:as directed by engineer in chargeD.S.R. I.No.125 P.No.37</p>	605.67	Sq.M.	138105.00
19.44	<p>Item No.56: Providing and laying coloured glazed tiles of first quality of approved various size and 5.5 mm. to 6.0 mm. thick for flooring in required position on bed of 1:6 cement mortar including neat cement float, (Excluding all special required like round edge tiles corner cups) filling joints with neat white cement slurry, curing and cleaning complete. <i>(Prior approval of sample and brand by Executive Engineer is necessary before use)</i>. Spec. No. Bd.M. 12 Page No. 385 D.S.R. I.No.128 P.No.38</p>	612.26	Sq.M.	11902.00

68.07	Item No.57: Providing and fixing ceramic tiles of approved quality and size 7 mm. thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/ coloured cement slurry, cleaning, curing complete. Spec. No. :As directed by Engineer in charge D.S.R. I.No.139 P.No.41	722.26	Sq.M.	49164.00
191.46	Item No.58: Providing and fixing ceramic tiles of approved quality and size 7 mm. thick for dado and skirting in required position with ready made adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry, cleaning, curing complete. (Prior approval of sample and brand by Executive Engineer is necessary before use) Spec. No. :As directed by Engineer in charge D.S.R. I.No.140 P.No.41	752.26	Sq.M.	144028.00
	Item No.59: Providing and fixing Granite 20 mm thick for tread and riser of approved quality colour shade and of required size ,polishing including cutting moulding to noising polishing fixing and bedding of cement mortar 1:4 and coloured cement floting finishing etc.complete as directed by Engineer incharge. (Prior approval of sample and brand by Executive Engineer is necessary before use) D.S.R. I.No.146 P.No.42			
51.07	Ground Floor	4565.34	Sq.M.	233152.00
33.39	First Floor	4701.84	Sq.M.	156994.00
33.39	Second Floor	4838.37	Sq.M.	161553.00

73.44	<p>Item No.60: Providing and fixing coloured glazed tiles of first quality of approved various size and about 5.5 mm. to 6.0 mm. thick for dado and skirting in required position on plaster of 1:4 cement mortar (Excluding all special required like round corner tiles, angles, cups etc.) filling joints with white cement slurry. (Prior approval of sample and brand by Executive Engineer is necessary before use) Spec. No. Bd.M. 13 Page No. 386D.S.R. I.No.130 P.No.39</p>	705.26	Sq.M.	51794.00
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Item No.61: Providing and Fixing granite cladding verticals jambs, sill of door& windows with machine cut approved quality granite stone 20 to 25mm thick with 1:4 white cement mortar including cement float filling joint with neat cement slurry racking groove moulding cutting mirror polishing curing cleaning using the carpet for holding the granite stone in proper position and covering with plaster of paris to avoid damages cleaning the same on completion of work etc complete including all leads and units directed by Engineer in charges **(Prior approval of sample and brand by Executive Engineer is necessary before use)**
D.S.R. I.No.148 P.No.43

13.55	Ground Floor	4205.34	Sq.M.	56982.00
8.64	First Floor	4331.04	Sq.M.	37420.00
8.64	Second Floor	4456.74	Sq.M.	38506.00

Item No.62: Providing **25 to 30 mm. thick partition of Machine cut polished black Kadappa stone slabs** of approved shapes, quality and colour for urinals, including cutting holes of required size in the appropriate places to receive pipes etc. fixing in cement mortar 1:3 curing and cleaning complete.
Spec. No. Bd.M. 35 Page No. 393
D.S.R. I.No.137 P.No.40

4.50	Ground Floor	476.26	Sq.M.	2143.00
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4.50	First Floor	490.18	Sq.M.	2206.00
4.50	Second Floor	504.10	Sq.M.	2268.00
6.30	Item No.63: Providing and fixing kadappa stone 25 to 30 mm. thick and 30 cm. wide both side polished for shelf including making groove in B.B. masonry and redoing etc. complete. D.S.R. I.No.211 P.No.55	525.30	Sq.M.	3309.00
29.98	Item No.64: Providing and fixing kadappa stone 25 to 30 mm. thick and 30 cm. wide one side polished for shelf including making groove in B.B. masonry and redoing etc. complete. D.S.R. I.No.212 P.No.55	463.50	Sq.M.	13856.00
175.00	Item No.65: Providing and fixing on walls/ ceiling / floors, 15 mm. (weight 1.25 Kg/metre)mm. diameter medium grade (type) having embossed as ISI Mark galvanised iron pipes with screwed, sockets, joints and necessary galvanised iron fittings such as sockets, back nuts, elbows, bends, tees, reducers, enlargers, plugs, clamps etc. including necessary drilling holes in walls, slabs etc. and remaking good the demolished portion to restore the same in original condition neatly and applying anti corrosive primer oil paint and two coats of oil painting , testing complete. (Prior approval of sample and brand by Executive Engineer is necessary before use) Spec. No. :Bd.V.5 Page No. 551 D.S.R. I.No.351 P.No.88	165.00	Rg.M.	27125.00

105.00	<p>Item No.66: Providing and fixing on walls/ ceiling / floors, 20 mm. (weight 1.62 Kg/metre) diameter medium grade (type) having embossed as ISI Mark galvanised iron pipes with screwed, sockets, joints and necessary galvanised iron fittings such as sockets, back nuts, elbows, bends, tees, reducers, enlargers, plugs, clamps etc. including necessary drilling holes in walls, slabs etc. and remaking good the demolished portion to restore the same in original condition neatly and applying anti corrosive primer oil paint and two coats of oil painting , testing complete. <i>(Prior approval of sample and brand by Executive Engineer is necessary before use)</i> Spec. No. :Bd.V.5 Page No. 551 D.S.R. I.No.351 P.No.88</p>	185.00	Rg.M.	19425.00
70.00	<p>Item No.67: Providing and fixing on walls/ ceiling / floors, 25 mm. (weight 2.49 Kg/metre) diameter medium grade (type) having embossed as ISI Mark galvanised iron pipes with screwed, sockets, joints and necessary galvanised iron fittings such as sockets, back nuts, elbows, bends, tees, reducers, enlargers, plugs, clamps etc. including necessary drilling holes in walls, slabs etc. and remaking good the demolished portion to restore the same in original condition neatly and applying anti corrosive primer oil paint and two coats of oil painting , testing complete. <i>(Prior approval of sample and brand by Executive Engineer is necessary before use)</i> Spec. No. :Bd.V.5 Page No. 551 D.S.R. I.No.351 P.No.88</p>	215.00	Rg.M.	15050.00

75.00	<p>Item No.68: Providing and fixing on walls/ ceiling / floors, 32 mm. (weight 3.20 Kg/metre) diameter medium grade (type) having embossed as ISI Mark galvanised iron pipes with screwed, sockets, joints and necessary galvanised iron fittings such as sockets, back nuts, elbows, bends, tees, reducers, enlargers, plugs, clamps etc. including necessary drilling holes in walls, slabs etc. and remaking good the demolished portion to restore the same in original condition neatly and applying anti corrosive primer oil paint and two coats of oil painting , testing complete. <i>(Prior approval of sample and brand by Executive Engineer is necessary before use)</i> Spec. No. :Bd.V.5 Page No. 551 D.S.R. I.No.351 P.No.88</p>	240.00	Rg.M.	18000.00
100.00	<p>Item No.69: Providing and laying in trenches 32 mm. (weight 3.20 Kg/metre)mm.diameter medium grade (type) having embossed as ISI Mark galvanised iron pipes with screwed, sockets, joints and necessary galvanised iron fittings such as sockets, back nuts, elbows, bends, tees, reducers, enlargers, plugs, clamps etc. including necessary drilling holes in walls, slabs etc. and remaking good the demolished portion to restore the same in original condition neatly and applying anti corrosive primer oil paint and two coats of oil painting testing complete. <i>(Prior approval of sample and brand by Executive Engineer is necessary before use)</i> Spec. No. :Bd.V.5 Page No. 551 D.S.R. I.No.352 P.No.89</p>	255.00	Rg.M.	25500.00

46.00	<p>Item No.70: Providing and fixing 15 mm. diameter screw down bib/ stop tap of brass including necessary sockets union nut complete.(conforming I.S: 781) (Prior approval of sample and brand by Executive Engineer is necessary before use)</p> <p>Spec. No. :Bd.V.8 Page No. 554 D.S.R. I.No.354 P.No.89</p>	145.00	Nos.	6670.00
15.00	<p>Item No.71: Providing and fixing 25 mm. diameter wheeled stop tap of brass including necessary sockets union nut complete.(conforming I.S: 781) (Prior approval of sample and brand by Executive Engineer is necessary before use)</p> <p>Spec. No. :Bd.V.9 Page No. 555 D.S.R. I.No.355 P.No.90</p>	295.00	Nos.	4425.00
10.00	<p>Item No.72: Providing and fixing 32 mm. diameter wheeled stop tap of brass including necessary sockets union nut complete.(conforming I.S: 781) (Prior approval of sample and brand by Executive Engineer is necessary before use)</p> <p>Spec. No. :Bd.V.9 Page No. 555 D.S.R. I.No.355 P.No.90</p>	365.00	Nos.	3650.00
18.00	<p>Item No.73: Providing, and fixing chromium plated towel rod 16 mm. diameter and 75 cm. in length including all accessories complete.</p> <p>Spec. No. : As directed by Engineer in charge D.S.R. I.No.414 P.No.105</p>	92.00	Nos.	1656.00

Item No.74: Providing and fixing **Orissa Pattern type white glazed earthenware 580 X 440 mm. water closet Pan** including trap cast iron soil and vent pipes upto the outside face of the wall, 1:2 lime concrete/ 1:5:10 cement concrete bedding. 10 litres PVC **low level** flushing cistern ceith fitting, inlet pipe with stop tap/ brackets for fixing the cistern, 32 mm. diameter P.V.C. flush pipe with fitting and cistern 20 mm. diameter P.V.C. overflow pipe with mosquito proof coupling and pull painting of the cistern and pipes and cutting and making good walls and floors. (Prior approval of sample and brand alike parryware/ Jagwar/ Nitco/Crabtree by Executive Engineer is necessary before use)

Spec. No.
559

: Bd.V.20 Page No.
D.S.R. I.No.366 P.No.93

6.00	Ground Floor	3500.00	Nos.	21000.00
6.00	First Floor	3535.00	Nos.	21210.00
6.00	Second Floor	3570.00	Nos.	21420.00

Item No.75: Providing and fixing **white glazed squatting type urinals of size 60 cm. X 35 cm.** etc. complete.**D.S.R. I.No.377 P.No.96**

6.00	Ground Floor	765.00	Nos.	4590.00
6.00	First Floor	772.65	Nos.	4636.00
6.00	Second Floor	780.30	Nos.	4682.00

Item No.76: Providing and fixing **white glazed earthenware Wash Hand Basin of 55 cm. X 40 cm.** size including single cold water pillar tap/ brackets, rubber plugs and brass chain, stop tap and necessary P.V.C. pipe connections including P.V.C. waste pipe and **bottled trap** upto the outside face of the wall. (Prior approval of sample and brand by Executive Engineer is necessary before use)

Spec. No. Bd.V. 30 Page No. 565
D.S.R. I.No.381 P.No.97

6.00	Ground Floor	3000.00	Nos.	18000.00
4.00	First Floor	3030.00	Nos.	12120.00
4.00	Second Floor	3060.00	Nos.	12240.00

Item No.77: Providing and fixing in position plasticized polyvinyl chloride (**PVC**) ultra violet stabilised 110 mm. outer diameter **rain water down take pipe** confirming to I.S. 13592 including necessary fitting such as P.V.C. grating bend with door P.V.C. clamps horse shoes at bottom rubber ring and making connection water tight with solvent cement testing, boring holes in masonry /concrete and redoing the same in cement mortar 1:3 curing etc. complete.
D.S.R. I.No.397 P.No.101

72.00	Ground Floor	235.00	Rg.M.	16920.00
54.90	First Floor	237.35	Rg.M.	13031.00
54.90	Second Floor	239.70	Rg.M.	13160.00

Item No.78: Providing and laying in position unplasticized polyvinyl chloride (**UPVC**) ultra violet stabilised **110 mm. outer diameter for soil / waste pipe** confirming to I.S. 4985 to withstand pressure of 2.5 Kg/cm² including necessary fitting such as P.V.C. bends with door tee with door single junction, with door double junction with door P.V.C. clamps, nails rubber ring and making all connections water tight with solvent element and testing, boring holes in masonry / concrete and redoing the same in cement mortar 1:4 curing etc. complete.**D.S.R. I.No.400 P.No.102**

32.00	Ground Floor	260.00	Rg.M.	8320.00
24.40	First Floor	262.60	Rg.M.	6407.00
36.00	Second Floor	265.20	Rg.M.	9547.00

90.00	<p>Item No.79: Providing and laying in position unplasticized polyvinyl chloride (UPVC) ultra violet stabilised 160 mm. outer diameter SWR pipe conforming to I.S. 4985 to withstand pressure of 2.5 Kg/cm² f for wast water / soil in required gradient as directed by Engineer in charge including all junctions, making all joints water tight with rubber ring and solvent cement etc. complete. (excluding excavation and back filling) etc.</p> <p>D.S.R. I.No.401 P.No.102</p>	425.00	Rg.M.	38250.00
18.00	<p>Item No.80: Providing and fixing 10 cm. cast iron Nahani Trap including grating, bend and piece of cast iron pipe upto the outside face of the wall complete.(with 45 cm. arm)</p> <p>Spec. No. Bd.V. 32 Page No. 567 D.S.R. I.No.393 P.No.101</p>	525.00	Nos.	9450.00
18.00	<p>Item No.81: Providing and fixing 15 cm. X 10 cm. salt glazed stone ware gully trap in cement concrete 1:4:8 outside the building including cast iron grating in the sink, connecting glazed stoneware pipe, brick masonry chamber with cast iron grating for the gully trap, and shahabad stone covering fixed with cement mortar.</p> <p>Spec. No. Bd.V. 38 Page No. 572D.S.R. I.No.403 P.No.103</p>	605.00	Nos.	10890.00
8000.00	<p>Item No.82: Providing and installing high density polyethylene water storage tanks moulded to seamless perfection from FDA approved grades of polyethylene in approved shape and size with specified capacity in specified position complete. (Prior approval of sample and brand by Executive Engineer is necessary before use)</p> <p>Spec. No. : As directed by Engineer in charge (SINTEX TANK ONLY) D.S.R. I.No.363 P.No.91</p>	6.35	Litres	50800.00

Item No.83: Providing and constructing **Brick Masonry in cement mortar 1:6 for Inspection Chamber Size 60 cm. X 45 cm.**including 1:4:8 cement concrete foundation, 1:2:4 cement concrete channels half round S.W.G. pipes, with plastering brick masonry inside and outside with cement mortar 1:4 and inside neat cement finish including 75 mm. thick R.C.C. cover etc. complete depth upto 1.20m.
Spec. No. Bd.V. 43 Page No. 574
D.S.R. I.No.406 P.No.103

20.00	a) 60 x 45 cm	2350.00	Nos.	47000.00
6.00	b) 90 x 45 cm	2550.00	Nos.	15300.00
16.00	Item No.84: Providing, and fixing in position plasticized polyvinyl chloride (PVC) ultra violet stabilised 110 mm. outer diameter cowl dome confirming to I.S. 13592 including making joint with solvent cement etc. complete. D.S.R. I.No.417 P.No.105	32.00	Nos.	512.00

Item No.85: Providing and casting in situ, **cement concrete M-20/ 1:11/2:3** of trap/ granite/ quartzite/ gneiss metal **for coping to plinth or parapet, moulded or chamfered** as per drawing or as directed including centering, formwork, compacting, roughening them if special finish is to be provided, finishing if required and curing etc. complete. **Spec. No. : Bd.E.3 Page No. 288 D.S.R. I.No.28 P.No.16**

0.18	Ground Floor	3482.96	Cu.M.	627.00
3.86	Second Floor	3672.32	Cu.M.	14175.00

Item No.86: Finishing cement based water proofing treatment to terrace (Indian water proofing) with brick bats laid in required slope to drain the water for any span after cleaning the base surface applying a coat of cement slurry and mixed with approved water proofing compound and laying the brick bats on boottom layer of cement mortar (1:5) and mixed with approved water profing compound, filling upto half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer, jointing of brick bats with cement mortar 1:3 mixed with approved water proofing comound and finally top finishing with average 20 mm. thick layer of same mortar added with jute fibre at 1 Kg. per bag including finishing the surface smooth with cement slurry and mixed with approved water proofing comound, marking the finished surface with false squares of 300 mm. X 300 mm. making the junctions at the parapets rounde and tapered towards top for required height with drip mould at the junction of plaster and curing etc. complete with a guarantee of seven years on court fee stamp paper of Rs. 100/- including ponding test etc.
D.S.R. No. 69 Page No. 26

58.30	First Floor	415.70	Sq.M.	24235.00
583.00	Second Floor	426.65	Sq.M.	248736.00
10651.570	Item No.87: Provinding and applying priming coat on concrete/ masonry/ asbestos cement/ plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other forign material and sand papering as required. Spec. No. :As directed by Engineer in chargeD.S.R. I.No.183 P.No.49	14.00	Sq.M.	149122.00

Item No.88: Provinding and **applying three coats of water proof cement paint** of approved manufacture and approved colour **to the plastered surfaces** including scaffolding if necessary, cleaning and preparing the surface watering for two days complete.

Spec. No. :Bd.O. 8 Page No. 406
D.S.R. I.No.180 P.No.49

1189.080	Ground Floor	27.00	Sq.M.	32105.00
611.180	First Floor	27.81	Sq.M.	16997.00
1167.540	Second Floor	28.62	Sq.M.	33415.00
7683.77	Item No.89: Providing and applying washable oil-bound distemper of approved colour and shade to old and new surface in three coats including scaffolding preparing the surfaces (excluding the primer coat) etc.complete. Spec. No. :Bd.P.5 Page No. 413 D.S.R. I.No.198 P.No.52	27.75	Sq.M.	213225.00
1262.43	Item No.90: Providing and applying three coats of lead/ zinc base oil paint/ bituminous paint of approved colour and shade to new wood work and fibre boards including preparing the surface, knotting, scaffolding if necessary, (excluding primer coat) complete. Spec. No. :Bd.O. 1 Page No. 403 D.S.R. I.No.165 P.No.46	40.50	Sq.M.	51128.00
10.27	Item No.91: Providing and fixing false ceiling of 15/ 20 mm. thick decorative boards of fibrous plaster of paris including scaffolding, if necessary, frame work of teak wood battens of size 70 X 45 mm. and 35 X 35 mm. at 45 cm. centre to centre without beading, all architectural work like mouldings, cornices caves, domes, cups etc. as per detailed drawings and three coats of painting to boards and one coat to wood work (excluding runner and mild steel suspender) . Spec. No. :Bd.R.18 Page No.461D.S.R. I.No.227 P.No.58	900.00	Sq.M.	9243.00

381.24	<p>Item No.92: Providing and fixing wooden shelf 25 mm. thick particle board phenol bonded 30 cm. wide with country teak wood brackets of 45 X 35 mm. at 1.2 m. centre to centre without fillet including primer coat complet.</p> <p>Spec. No. :Bd.Q.13 Page No. 428 D.S.R. I.No.206 P.No.54</p>	921.00	Sq.M.	351122.00
444.78	<p>Item No.93: Providing and fixing shutter to wall cupboard made from 12 mm. thick panel finish particle board bonded with phenol formaldehyde synthetic resin B.W.P. grade including teak wood lipping, beading iron oxidised fixtures and fastening and oil primer coat etc. complete.</p> <p>Spec. No. :As directed by Engineer in charge D.S.R. I.No.214 P.No.55</p>	1350.00	Sq.M.	600453.00
1.00	<p>Item No.94: Providing and fixing stainless steel sink of size 45 cm. X 60 cm. X 20 cm. including all connections of the G.I. supply and P.V.C. waste pipe upto the outside face of the wall, cold water chromium plated screw down bib tap, rolled steel or C.I. brackets, stop tap etc. cmoplete. (Prior approval of sample and brand by Executive Engineer is necessary before use)</p> <p>Spec. No. : As directed by Engineer in charge D.S.R. I.No.391 P.No.100</p>	2900.00	Nos.	2900.00
51.00	<p>ITEM No.95: Providing and fixing 16 gauge M.S. sheet cylindrical covering box 100 mm dia and 75 mm ht. for fan hook to embeded in slab with 10 mm dia M.S. bar as fan hooks including necessary welding, screwingin position and painting with primer and one coat of anticorrosive paint etc. complete. As directed engineer incharge.Rate as per Electrical D.S.R.</p>	75.00	Nos.	3825.00

7.00	ITEM No.96: Providing and fixing 400 mm x 500 mm size superior type Belgium Mirror with 16 mm dia. nickel plated Towel Road etc. complete. D.S.R. 2008-09 (old) I.No.130, Page No.303.	450.00	Nos.	3150.00
1.70	Item No.97: Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted/ bolted/ welded connections and painting complete. Spec No. : Bd. C.8. Page. No.278 D.S.R. I.No.20 P.No.14	48682.00	M.T.	82759.00
100.00	Item No.98: Providing and fixing RAM Fibreglass Reinforced Plastic Sheets, made up of G.P. Resins, Glass fibres, resins etc. 2.0 mm. thick for all size including putty etc. complete. Spec. No. :As directed by Engineer in charge D.S.R. I.No.440 P.No.110	1650.00	Sq.M.	165000.00
28.00	Item No.99: Providing and fixing 6 mm. thick ISI mark Asbestos Cement ridge capping for roofing including galvanised iron hook, bolts, galvanised iron and bituminous washers, galvanised iron clamps and bolts and nuts and including scaffolding complete. Spec. No. :Bd.R.9 Page No.455 D.S.R. I.No.220 P.No.56	200.00	Rg.M.	5600.00

Total 20962915.00

Signature of Contractor