

JIWAJI UNIVERSITY, GWALIOR

S.No./FJU/Engg./2009/1457

Dated: 23.07.2009

Tender Notice

Sealed item rate tenders are invited in two envelope system by Jiwaji University, Gwalior from the appropriate class of contractor of M.P.P.W.D./C.P.W.D. and other Govt. Deptt. for the following works through the registered /speed post only. The courier post is not permitted.

S.n.	Name of work	Estimated cost	Earnest money	Cost of tender	Period of completion
1.	Construction of Extension of Administrative Building at Jiwaji University, Campus. (IIIrd Call)	230 Lakhs	4.60 Lakhs	3000/-	10 Month i/c rainy season
2.	Construction of C.T.T.M.S. & Computer Lab of M.B.A. Building at Jiwaji University, Campus. (Vth Call)	235 Lakhs	4.70 Lakhs	3000/-	10 Month i/c rainy season
3.	Construction of Examination Center at Jiwaji University, Campus. (IInd Call)	426 Lakhs	8.52 Lakhs	3000/-	11 Month i/c rainy season

Last date of availability of tender on website

11-08-2009

Last date of submission by Reg./Speed Post

14-08-2009 up to 3:00 pm

The tender documents and eligibility criteria with full and further detail of above works can be downloaded from university website www.jiwaji.edu

The cost of the tender document should be paid at the time of submission of the tender in form of DD in favour of Registrar Jiwaji University, Gwalior.

The Jiwaji University, reserves the right to reject any or all tenders without assigning any reasons there of, University will not responsible any postal delayed.

REGISTRAR

JIWAJI UNIVERSITY, GWALIOR

(A -PRE-QUALIFICATION DOCUMENT)

(B PRIZE BID DOCUMENT)

- 1. NAME OF WORK : CONSTRUCTION OF EXAMINATION CENTER AT JIWAJI UNIVERSITY, CAMPUS.**

ISSUED TO :

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JIWAJI UNIVERSITY, GWALIOR

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Tender Notice

Sealed item rate tender are invited in two envelope system by Jiwaji University, Gwalior from the appropriate class of contractor of M.P.P.W.D./C.P.W.D. and other Govt. Deptt. for the following works through the registered /speed post only. The courier post is not permitted.

S.n.	Name of work	Estimated cost	Earnest money	Cost of tender	Period of completion
1.	Construction of Extension of Administrative Building at Jiwaji University, Campus. (IIIrd Call)	230 Lakhs	4.6 Lakhs	3000/-	10 Month i/c rainy season
2.	Construction of C.T.T.M.S. & Computer Lab of M.B.A. Building at Jiwaji University, Campus. (Vth Call)	235 Lakhs	4.7 Lakhs	3000/-	10 Month i/c rainy season
3.	Construction of Examination Center at Jiwaji University, Campus. (IInd Call)	426 Lakhs	8.52 Lakhs	3000/-	11 Month i/c rainy season

THE ELIGIBILITY CRITERIA:

Contractors who fulfill the following requirements shall be eligible to apply.

1. **Joint ventures are not accepted.**
2. Should have relevant evidence from an officer of rank of executive engineer or above in original of having satisfactorily completed at least one R.C.C. frame structural building work of not less than Rs. 100 Lakhs in a year in any Govt./ Semi Govt. department during last two year. Submit TDS certificate of that building.
3. Should have an average annual financial turnover of similar work Rs. 250 lakhs during the last three year. The contractor shall submit the C.A. & T.D.S. certificate in support of his claim.
4. Should have revenue solvency / current bank solvency certificate of Rs. 100 lakhs not letter than 12 months old.
5. Should have valid registration in Sales Tax & other relevant department.
6. Should not have incurred any loss in more than two year during the last five years ending 31st march 2008 in supports of this the contractor shall submit annual balance sheet of five years.
7. Should have relevant plant and machinery available on hand (own) and willingness to be inducted (own and hired) if instructed by university for the subjected work.

PERFORMANCE SECURITY:-

The successful tenderer shall submit the performance security 3% of the contract amount of work in form of Bank Guarantee in favour of Registrar, Jiwaji University, Gwalior. (validity of Bank gurantee shall be valid for a minimum period 3 years).

SUBMISSION PROCEDURE:-

The proposal will be submitted in two separate sealed envelopes viz envelopes (I) cost of tender form, earnest money, certificate of eligibility and pre-qualification documents (II) prize bid.

WORK GUARANTEE:-

The period for the work guarantee will be 24 months from the date of handing over Building, any short coming of the work during this period if observe shall be rectified by the contractor on your own cost and the performance guarantee shall be release after guarantee period.

Last date of availability of tender on website

11-08- 2009

Last date of submission by Reg./Speed Post

14-08-2009 up to 3:00 pm

- The prize bid of the tender shall be sought only from tenderer qualified for the work at a later date after evaluation of pre-qualification document.
- The tender documents of above works can be downloaded from university website www.jiwaji.edu and the cost of the tender document should be paid at the time of submit ion of the tender.
- If the date of submission, opening happens to be holiday the tender form will be submit/opened on the next working day at the same time without any further notice.

SUBMISSION PROCEDURE:-

Envelop for part- I :- Shall contain

1. Tender cost in the form of Bank draft/Banker's cheque (Non refundable) of schedule bank in favour of Registrar Jiwaji University Gwalior.
2. Earnest money in form of Bank draft/Banker's cheques of schedule bank in favour of Registrar Jiwaji University Gwalior.
3. All relevant document in support of eligibility for tender.
4. The Duly filled and signed downloaded (unreadable prints are not acceptable) Pre-Qualification Document.

Envelop for part –II :- Shall contain

1. Original Downloaded Prize Bid Document (unreadable prints are not acceptable)

The contractors are required to submit the tender cost in the manner as detailed above. The contractors are also required to submit the attested copies of the certificate/documents as desired in tender notice, in support of their eligibility in view of the term and conditions of the tender notice & these papers should be kept in "Envelop -I" Please note that Envelop - II of the tender will Contain all the terms and conditions & schedules of quantities/prize bid of the tender only. Tenderer not submitting the above details shall not be considered.

The tenderers downloading the tender document from the Jiwaji University Website shall be responsible for the downloading the entire tender document from the website. Incomplete/unreadable/edited or any over writing tender documents submitted with the bid shall be summarily rejected & no claim in this regards shall be entertained, whatsoever the reason may be. The tender document downloaded from website will be considered legally valid for participation in the tender process.

The agencies participating in the tender should intimate the University Engineer in writing before submitting the tender and to contact the office if any clarification is required in this matter.

The agencies/firms/tenderers are advised to submit the completed tender document in the desired manner. If any concealment in the information submitted by the tenderer is discovered at any later stage, the concerned contractor shall be summarily disqualified for doing business with Jiwaji University and their earnest money shall be forfeited for his misconduct.

The Registrar Jiwaji University, reserves the right to reject any or all tenders without assigning any reasons thereof, University will not responsible any postal delayed.

REGISTRAR

JIWAJI UNIVERSITY, GWALIOR

ENVELOP – I (PRE-QUALIFICATION DOCUMENT)

- 1. NAME OF WORK : CONSTRUCTION OF EXAMINATION
CENTER AT JIWAJI UNIVERSITY, CAMPUS.**

ISSUED TO : (Name of Tenderer)

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SECTION - 1

1. General Condition:

- 1.1 The Technical Evaluation questionnaire as detailed in section II complete in all respects should be submitted along with the Technical bid in Envelope-I.
- 1.2 The Technical Evaluation questionnaire contains number of forms as following -
 - a. Schedule 'A' structure and organization.
 - b. Schedule 'B' financial statement
 - c. Schedule 'C' Plant and equipment
 - d. Schedule 'D' working experience.
 - e. Schedule 'E' Information regarding litigation etc.
- 1.3 If necessary, additional sheet can be added to the schedule. Such attachments should be clearly marked in proper manner :
- 1.4 While submitting the schedules duly filled in, applicant shall enclose latest copies of brochures and technical documentation giving additional information about the applicant and all the parties of the consortium.
- 1.5 Each page of Technical and financial bid document shall be duly signed by the applicant or his authorized representative.
- 1.6 No costs incurred by the applicant(s) in making this offer, in providing clarifications or attending discussions, conferences, on site visits will be reimbursed by the Jiwaji University.
- 1.7 Incomplete and inappropriately filled in applications are liable to be rejected.
- 1.8 The language for submission of pre-qualification bids shall be English/Hindi.
- 1.9 The enclosed schedules should be filled in completely and all questions should be answered. if any particular query is not relevant, it should be replied as 'NOT APPLICABLE'
- 1.10 Financial data, project value of works etc. should be given in Indian Rupees only. The foreign exchange rate, if adopted for conversion of foreign currency amounts should be indicated.
- 1.11 If the application is made by a firm of partnership, it shall be signed by all the partners of the firm above their full names and current addresses, or by a partners holding the power of attorney for the firm by signing the application, in which case a certified copy of the partnership deed, current address of the firm and the

full names and current addresses of all the partners of the firm shall also accompany the application.

- 1.12 If the application is made by a limited company or a corporation it shall be signed by a duly authorized person holding the power of attorney for signing the application, in this case a certified copy of the power of attorney shall accompany or corporation will be required to furnish satisfactory evidence of its existence before the contract is awarded.
- 1.14 The information furnished must be sufficient to show that the applicant is capable in all respects to successfully complete the envisaged work.
- 1.15 An applicant or any of its constituent partners of whose contract for works has been rescind or who has abandoned any work in Public Works Departments or other Government Departments in the last five years, prior to the date of the bid shall be debarred from tendering. Applicant will give the required information, duly signed by him.
- 1.16 The applicant must have sound financial status as required in the financial bid to undertake concern project.

1.17 **QUALIFICATION CRITERIA**

- A. To qualify for award of the contract, each bidder in its name should have in the last five years.
- i. Achieved the minimum average annual financial turn over (in all classes of civil engineering building construction works only) amount in the last three years immediately preceding the year of application not less than Rs. 250 Lacs.
 - ii. Satisfactorily completed as a prime contractor at least one work of similarly nature with value not less than 100 Lacs in a year. immediately preceding last two year.
- B. Even though the applicants meet the above qualifying criteria, they are subject to the disqualification if they have:
- Made misleading or false representation in the form, statements and attachments submitted, or concealed.
- and / or

Records of poor performance such as abandoning the work, rescinding of contract for which the reasons are attributed to the non-performance of the contractor, consistent history of litigation awarded against the applicant or financial failure due to bankruptcy.

1.18 The Technical Bid shall be examined to ascertain whether the applications:

- (i) Meet the eligibility requirements.
- (ii) Have been properly prepared and signed.
- (iii) Contain all the details called for and are in proper formate.
- (iv) Are accompanied by required authorization, and
- (v) Are otherwise generally in order.

1.19 Methodology will be evolved for making assessment of the capability of the firms who have tendered for the work will also include the following items.

Structure and organization of the firm, the liquid assets plus bank loan, and the requirement of satisfactory completion (including enhancement factor) during the last five year of the work.

Resources of the firm in respect of personnel and equipment etc. and any other criteria as may be deemed necessary for particular work package sequencing of work and methodology obtain quality of work as per specification. Application who have been debarred by the Government Departments or whose contract has been rescinded during the last 3 years will not be considered for the tender. (Information regarding this aspect to be supplied by the applicants)

1.20 The following information is to furnished:

- (a) Technical staff available with the contractor indicating qualification and experience in the relevant field.
- (b) Bio-data of each personnel duly signed by the concerned person.
- (c) A certificate issued by the contractor or proprietor of the firm that the staff will be available for the project.
- (d) It should be stated clearly whether the staff is in employment or would be engaged for the job.
- (e) Other supporting staff.

- 1.21 The following enhancement factor will be used for the cost of works executed and the financial figures to a common base value for works completed in India. For works completed abroad the latest currency conversion rate will be applied.

Year before	Multiplying factor
One	1.10
Two	1.21
Three	1.33
Four	1.46
Five	1.61

In case the financial figures and value of completed works are in foreign currency, current market exchange rate will be applied for the purpose of conversion foreign current into Indian Rupees.

APPLICATION WILL INDICATE ACTUAL FIGURES OR COSTS AND AMOUNT IN THE SCHEDULE WITHOUT ACCOUNTING FOR THE ABOVE MENTIONED FACTORS.

QUESTIONNAIRE FORMS

(TO BE SUBMITTED ALONGWITH N.I.T. ENVALOP - I)

- 2.1 The following information is to be furnished:
- (f) Technical staff available with the contractor indicating qualification and experience in the relevant field.
 - (g) Bio-data of each personnel duly signed by the concerned person.
 - (h) A certificate issued by the contractor or proprietor of the firm that the staff will be available for the project.
 - (i) It should be stated clearly whether the staff is in employment or would be engaged for the job.
 - (j) Other supporting staff.

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SCHEDULE 'A'

STRUCTURE AND ORGANIZATION

1. Name of Applicant :
2. Head Office Address :
Telephone No:
FAX:
3. Registered Office Address:
(if any):
Telex No.:
Telephone No:
FAX:
4. Description of Applicant (e.g. General, Civil Engineering contractor, supplier of equipment etc. Also attach relevant excerpts form article or deed or other relevant document including the names of principals.)
5. Country and year incorporation (attach copy of certificate of registration)
6. Registration in Government Departments
A) Name of Department :
B) Details of Registration :
7. Name and address of Bankers:
8. Main lines of business:
 - (a) In own country.
 1. Since:
 2. Since:
 - (b) International
 1. Since:
 2. Since:

9. Name(s) and address(es) of Principals of companies to be associated in the project and whether parent/subsidiary etc.
10. Name and address of any associates in India having local experience in various aspects of the project.
11. Attached an organization chart showing the structure of the company including names and positions of Directors and key personnel.

Note: (1) Applicant covers Proprietary Firm, Partnership, Limited Company.

(2) Particulars for item 2,3,4,5,6,7,8, and 10 above should be furnished separately for each partner.

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SCHEDULE 'B'
(FINANCIAL STATEMENT)

(To be given separately for each constituent firm of Joint Venture/Consortium)

1. Name of Applicant (in case of Joint Venture/Consortium, the name of the constituent firms.)

2. Summary of assets and liabilities on the basis of the audited financial statement of the last of the three financial years, (Attach copies of the audited financial statement of the last three financial years)

	Particulars	Year Rs. Lacs	Year Rs. Lacs	Year Rs. Lacs
a.	Total assets			
b.	Current Assets			
c.	Cash, temporary investments and current receivable			
d.	Total liabilities			
e.	Current liabilities			
f.	Net Worth (a) - (b)			
g.	Working capital (b)-(e)			
h.	Authorized capital			
j.	Capital issued and paid up			
k.	Acid Test ratio (c)/(e)			
l.	Total liability to net work (d)/(f)			

3. Annual value of construction works, undertaken for each of the last five years and projected for current year.

(R.s in Lacs)

	Current year	1 year before	2 year before	3 year before	4 year before	5 year before
Home						
Abroad						

4. Net Profit before tax:

(a) Current (Year):

(b) During the last financial year :

(c) During each of the four previous financial years:

The profit and loss statements have been certified through

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5. Application specific financial arrangement (mention amount in Indian Rupees.)

(a) Own Resources:

(b) Bank Credit :

(c) Others (specify):

6. Credit Facilities:

(a) Name/address of First class/Nationalized Bank Bank providing credit line.

(b) Total amount of credit line (attach certificate form the bank)

7. Approximate value of works in hand.
8. Value of anticipate orders for next financial year:
Home:
Abroad:

- Note :
1. Details of item 7 and 8 are also to be given in Schedule D Working Experience.
 2. All items should be properly filled in
 3. Where any particular item is not applicable, it should be clearly mentioned as not applicable.

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SCHEDULE - "C"

PLANT AND MACHINERY FOR WORKS

A Building works

1. Concrete mixer with hopper of one cement Bag Mix capacity, minimum two on each site.
2. Platform Vibrator (Preferably Electrically operated – 1 Nos.)
3. Small Vibratory Earth Master for floor compaction etc. - 1 No .
4. Pin Vibrator - minimum 3 No. (Suitable for columns and other application)
5. Generator – minimum 20 KVA 1 No.
6. Pumps with leads etc for watering and curing - 2 Nos.
7. Other necessary plants and machinery with reference to nature of works etc.
8. Duly equipped field laboratories at each site for testing of : (i) Bricks (ii) Concrete (iii) Sand (iv) Mortar (v) Cement (vi) Metal. The tests shall be carried out as per relevant I.S. codes.
9. Auto level.
10. Water tanker and trolies.
11. Steel/Plywood shuttering minimum 1,000 Sqmt.
12. Steel scaffolding sufficient to cover 1,000 Sqmt.
13. Supporting T & P.

WORKING EXPERIENCE

Part – I Submit the details of previous completed relevant works in following format :

1. Name of work with location
 - a. Address & Tel. no. of concerning Department & officers :
 - b. Type of Work :
 - c. Project cost :
 - d. Date of Starting and Completion :
 - e. Detail of time extensions (if any) :
 - f. Brief details of project

Part – II Submit the details of works in hand :

1. Name of work with location
 - a. Address & Tel. no. of concerning Department & officers :
 - b. Type of Work :
 - c. Project cost :
 - d. Date of Starting :
 - e. Current Status of Work :
 - f. Scheduled & Probable date of Completion :
 - g. Detail of time extensions (if any) :
 - h. Brief details of project

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SCHEDULE 'E'

INFORMATION REGARDING CURRENT LITIGATION, DEBARRING/
EXPELLING OF TENDERER OR ABANDONMENT OF WORK BY TENDERER

1. (a) Is the Applicant currently involved in any litigation relation to the contract works
(b) If yes, give details

2. (a) Has the Applicant or any of its constituent partners been debarred/expelled by any Agency in India during the last 5 years.
(b) If yes, give details.

- 3 (a) Has the Applicant or any of its constituent partners failed to perform on any contract on any contract work during the last five years.

- 4 (a) Pending Claims of previous works
(b) If yes, give details.

Note: If any information in this schedule is found to be incorrect or concealment pre-qualification application will be summarily by rejected.

JIWAJI UNIVERSITY, GWALIOR

ENVELOP - II (PRIZE BID DOCUMENT)

1. NAME OF WORK : CONSTRUCTION OF EXAMINATION CENTER AT
JIWAJI UNIVERSITY, CAMPUS.

ISSUED TO : Name of Tenderor

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JIWAJI UNIVERSITY, GWALIOR(in Form A, **B** and C)**DETAILED NOTICE INVITING TENDERS**

Date of issue of N.I.T. *FJU /Engg./2009/1457* *Dt. 23-07-2009*
 Date of Receipt of Tender 14-08-2009 up to 03:00 P.M. By Speed/Regd. Post only
 Date of opening of Tender Ist envelopes (A) on 17-08-2009 on 3:00 pm

1. INTRODUCTION

1. Sealed tenders are invited on behalf of the **Registrar** for the following work in form “**B**” Item Rate Tender and will be received at the office of the Registrar / University Engineer up to 03:00 P.M. on 14/08/09 from the appropriate class of PWD/CPWD contractors.

(1) **Name of work : Construction of Examination Center at Jiwaji University, Campus.**

(2) Amount of estimate *Rs. 426 Lakhs*

(3) Probable amount of contract *Rs. Lakhs*

(4) Amount of earnest money . *Rs. 8.52 Lakhs*

(5) Time allowed for completion 10 Month including rainy season from the date of written order to commence the work.

1. 2. The electrical work shall be executed only through the contractors who posses proper valid electric license from the Chief Electrical Adviser to the Government. He should also attach a copy of the license, and waterproofing work shall be executed through the specialized contractor who has registered in appropriate department as specialized work of waterproofing treatment.
1. 3. Not more than one tender shall be submitted by a contractor/by a firm of contractors.
1. 4. Not two or more concerns in which in individual is interested as a proprietor and/or partner shall tender for the execution of the same work. If they do so all such tenders shall be liable to be rejected.
1. 5. The Registrar, Jiwaji university Gwalior_ shall be accepting officer hereinafter referred to as such for the purpose of this contract.
1. 6. Application for issue of tender documents shall be submitted to Registrar, Jiwaji university Gwalior so as to reach the office not later than 11-08-2009.
1. 7. Tender documents consisting of plans specifications, schedules, of quantities of the various classes of work to be done, the conditions of contract and other necessary documents together with addressed envelopes to be used for return of form and other documents, will be open for inspection and issued, for sale on payment of Rs._3000/- on or before 11-08-2009 and up to _3.00 P.M. from university website.
1. 8. The copies of other drawings and documents pertaining to the work assigned for the purpose of identification by the accepting officer or his accredited representative and

samples of materials to be arranged by the contractor will be open for inspection by tenderness at the following office during working hours between the dates mentioned in clauses – 1.7 above.

2. RATES :

2.1 The schedule of items :-

The schedule of main items of work to be executed is enclosed as Annexure – (F).

2.2 Item Rate tender in form “A” or “C”.

2.2.1. In respect of percentage rate tenders, contractor should quote his separate tender percentage rate above or below the following schedules of rates.

(a) **Building work** – The current schedule of rates issued by the E-in-C M.P. .P.W.D. Bhopal in force from 01-11-1999 and its amendments up to date issued up to date of N.I.T.

(b) **Electric fittings** – The current schedule of rates issued by the E-in-C M.P. .P.W.D. Bhopal in force from 01-04-2008 and its amendments up to date issued up to the date of issue of N.I.T.

(c) **Water supply and sanitary fittings** - The current schedule for rates issued by E -in-C M.P. .P.W.D. Bhopal in force from 01-11-1999 and its amendments up to date issued up to the date of issue of N.I.T.

(d) **Road works** - The current schedule of rate issued by the Engineer-in-chief M.P.P.W.D. Bhopal in force from 1st June 2000 and its amendments issued up to the date of issue of N.I.T.

2.2.2. (For Form “A” only). The percentage of tender above/below or at par with the relevant schedule rates inclusive of amendments and correction slips issued up to the date of the notice inviting tenders should be expressed on the tender form itself both in words and figures in such a way that interpolation is not possible and all over writing should be neatly scored out and rewritten and the corrections should be duly attested prior to the submission of tender. Tenders not specifying percentage in words will summarily be rejected.

2.2.3. Any amendments to the schedule of rates after the date of issue of this tender notice or the date of issue of any amendments to the N.I.T. specifically notifying the said amendment to the current schedule of rates, shall not apply to this tender.

2.2.4. The percentage tendered by the contractor will apply to those rates which find place in the current schedule of rates mentioned in clause 2.2.1. or have been derived from the said current schedule of rates and not to other items of work.

2.2.5. The percentage tendered by the contractor shall not be altered by the contractor during the terms of contract. The deduction or addition as the case may be of the percentage will be calculated on the amount of the bill for the work done, after deducting the cost of materials supplied departmentally at rates specified in the agreement.

2.3.1 Item Rate Tenders in form – “B”. In respect of item rate tenders, contractor should quote his rates for the items mentioned in the schedule of item in Annexure F of this N.I.T. Only rates quoted shall be considered. The rates should be expressed in figures as well as words and the unit should be as given by the Department. The contractor will not have the freedom to change the unit. No percentage above or below the schedule be quoted.

- 2.3.2 The rates quoted in the tender for the various items of work will not be altered by the contractor during the term of contract.
- 2.4. Lead and lift of water – No lead and lift for carting of water will be paid.
- 2.5 Lead and lift of materials – No lead and lift for carting of materials shall be payable to the contractor except in case of such items for which specific lead and lift are provided in the current schedule of rate mentioned in clause – 2.2.1. of the N.I.T. or in the schedule of items in respect of item rate tenders.
- 2.6 Non-schedule items of works – During the execution of the work there is likelihood of such items of work, which do not find place in the current schedule of rates, referred to above in respect of percentage rate contracts or such items which are given in the schedule of items in respect of item rate contracts, for which contractor has not quoted his rates. Contractor will have to carry out these items of work.

Rates of such items of work which do not find place in the current schedule of rates referred to above, in respect of percentage rate contracts or such items in respect of item rate contracts shall be decided by the University Engineer and the decision of the Register shall be binding on the contractor. The quantum of such work will not exceed 10% of amount of contract unless accepted by the department and the contractor.

3. SUBMISSION OF TENDER :

- 3.1 Earnest money - No tender will be received without a deposit of earnest money of Rs. 8.52 Lakhs which will be returned to the unsuccessful tenderness on the rejection of their tenders or earlier as may be decided by the competent authority and no production of a certificate of _____ that all tender documents have been returned, and will be retained from the successful tenders as part of the security deposit.
- 3.2 Form of Earnest Money.
- 3.2.1 Where the amount of Earnest money is more than Rs.500/- the same shall be accepted only in the shape of Bank drafts of any schedule Bank in favour of Registrar, Jiwaji University, Gwalior.
- 3.2.2 the intending tenderer from other states may remit E.M. in the from of the Bank draft of any schedule bank to the Registrar Jiwaji University Gwalior.
- 3.3 **Earnest Money is separate covers.** The Earnest Money in one of the prescribed forms should be produced/sent separately and not kept in the covers containing the tender and if the earnest money is not found in accordance with the prescribed mode in the tender will be returned unopened to the tenderer.
- 3.4 **Adjustment of Earnest Money** – Earnest money, which has been deposited for a particular work, will not, ordinarily, be adjusted towards the earnest money for another work, but if the tender of contractor for a work in the same division has been rejected and the earnest money has not been refunded to him due to any reason, it may be so adjusted by the University Engineer.
- 3.5 **Security Deposit** – (a) The Security Deposit shall be recovered from Running bills, @ 5.00 per cent as per clause –I of the agreement read with para 3.5 of the N.I.T.

- (b) The amount of the E.M. shall not be adjusted when value of work done reaches the limit of the amount of Contract of exceeds the Probable amount of the contract.
- 3.6 **Implication of submission of Tender** – Tenderers are advised to visit site sufficiently in advance of the date fixed for submission of the tender. A tenderer shall be deemed to have full knowledge of the relevant documents, samples, site, etc whether he inspects them or not.
- 3.7 The submission of a tender by a contractor implies that he has read the notice, conditions of tender and all other contract documents and made himself aware of the standard and procedure, in this respect, laid down in the National Building Code of India 1970/Indian Standards the scope and specification of the work to be done and the conditions and rates at which stores tools and plant etc. will be issued to him by the university has seen the quarries with their approaches, site of work etc, and satisfied himself regarding the suitability and availability of the materials at the quarries. The responsibility of opening new quarries and construction and maintenance of approaches there to shall lie wholly with the contractor / Tenderes.
- 3.8 **Income Tax Clearance Certificate** – A tenderer purchasing tender documents for works exceeding Rs. 200 lacs shall submit either an Income Tax Clearance Certificate in the form printed as Annexured or a certificate from the Income Tax authority that the assessment is under consideration. No tender documents can be issued/sold to him unless such certificate is submitted.
- 3.9 **List of work in progress** - Tenders must be accompanied by a list of Contract already held by the tenderer at the time of submitting the tender, in the Department and elsewhere showing therein-
- a. the amount of each contract.
 - b. Balance of work remaining to be done, and .
 - c. The amount of solvency certificate produced by him at the time of enrolment in the concerning department
 - d. detail of work where he with draw his offer or did not.
- 3.10 **Relationship** - The contractor shall not be permitted to tender for works in the university (responsible for award and Execution of contract) in which his near relative is posted in university. He shall intimate the names of his near relative working in university. He shall also intimate the name of persons who are working with him in any capacity or subsequently employed by him and who are near relatives to any gazette officer in the university. Any breach of this condition by the contractor would render himself liable to be removed from the approved list of contractors of the P.W.D.
- Note** – By the term near relative is meant wife, husband, parents and son, grand son, brothers, sisters, brother-in-laws, father-in-law and mother-in-law.
- 3.11 The tender for the works shall witnessed by a contractor. Failure to observe this condition shall tender the tender of the contractor liable to rejection.

4. **OPENING AND ACCEPTENCE OF TENDER :**

- 4.1 **Place and Time of opening** - The tender shall be opened at time and place stated in para 1. by the U.E. in the presence of the tenderer or their duly authorized agent who may choose to attend. The U. Engineer under unavoidable circumstance, may deput another officer in his absence to receive and open tenders on his behalf.

- 4.2 Powers of University Engineer -** The U. Engineer does not bind himself to accept or recommend for the acceptance to the Registrar or other higher authority, the lowest or any tender or to give any reasons for his decision.
- 4.3 Conditional Tender -** Conditional tender are liable to be rejected.
- 4.4 Canvassing –** Canvassing for support in any form for the acceptance of any tender is strictly prohibited. Any tenderer doing so will tender himself liable to penalize which may include removal of his name from the register of approved contractors or penal action under section –8 of the M.P. Vinirdishtta Bhrasta Acharan Nivaran Vidheyak 1982.
Execute the agreement, as well as where this contractors were rescinded in format in the duly certified by the concerned department
- 4.5 Unsealed Tender -** The tenders shall be rejected, if not properly sealed.
- 4.6 Authority of University Engineer –** The authority competent to accept a tender reserve the right of accepting the tender for the whole work or for a distinct part of it, or distributing the work between one or more tenderers.
- 4.7 Validity of offer –** Tender shall remain open upto four months from the date of receipt of tender and in the event of the tenderer withdrawing the offer before the aforesaid date, for any reason whatsoever, earnest money deposited with the tender shall be forfeited by the U.E.

5. SPECIFICATIONS :

- 5.1 Brief Specification –** A brief note on construction and specifications of the work is enclosed in Annexure – E.
- 5.2 Material of Construction –** The materials of construction to be used in the work shall be governed by the provision of part-V of the National Building code of India, 1970 and the relevant Indian Standard specification with amendments and revisions issued up to the date of tender notice.
- 5.3 Workmanship-**The work shall be carried out according to the specification referred to herein after and according to sound engineering practice. The decision of the U. Engineer, in respect of workmanship will be final.
- 5.4 Specification for Building Works –** (Including water supply and sanitary fittings.)
- 5.4.1.** The Contractor shall execute the work in conformity with the standards and procedure laid down in the Morth National Building Code of India, 1970, and C.P.W.D. specification for works in force, or special specification whenever enclosed separately, and in accordance with the approved drawing.
- 5.4.2.** Concrete – All concrete shall be mixed in hopper concrete mixers with mearushing Boxes and compacted by mechanical Vibrators, Slump test shall be carried out during concreting and sample test cubes prepared and tested in due course the testing will be carried out by t he Department.

The results of the tests shall conform with the required standard and if the Engineer-in-Charge considers that a structural test in necessary the same shall be carried out as instructed by the Engineer-in Charge at the contractor's expense and should the result of this be unsatisfactory the contactors, will be bound to take down and reconstruct the particular portion of work which has given unsatisfactory test results.

5.4.3 Bricks – The contractor should use the bricks manufactured on the metric measures as far as possible. In case of non availability of metric size bricks in particular time area the British size bricks shall be allowed by but mode of measurements and payment shall be made considering metric size bricks and extra brickwork shall be at the cost of contractor.

5.4.4 All timber used in the wood for all new works must be properly seasoned. In case of important building mechanical seasoning should be done in good seasoning plant.

In case the contractor does not procure good seasoned wood, he may be asked to get it seasoned in plant at his own expense but no certificate is required where an additional rate is paid.

5.4.5 Maintenance of Roofs – Subject to the provision in the agreements, it will be the responsibility of the contractor to see that the building does not leak, during the period of the fittest rainy season in respect of tile and sheet roofing and two consecutive rainy seasons in respect of lime concrete and cement concrete terrace roof, after its completion and he will make good and replace all the defective work on this account.

5.5 Specification of Electrical Works.

5.5.1. The work will be carried out as per the approved drawing and as directed by the U.E.

The work will be governed by “General Specification” for the Electrical Works in Government buildings in Madhya Pradesh in force from 1972. and CPWD department specification.

5.5.2. All samples of electrical accessories should be got approved from the Engineer-in-charge. Contractor will have to arrange and afford all facilities for their inspection and rectify the defects pointed out by them. A list of accessories is enclosed as Annexure – E.

5.5.3. The period of testing and refund of deposit will be 3 year after completion of work.

5.5.4. In case of supply of ceiling fan, table fan, exhaust fan, cabin fan, tube light fixtures will be made by the University as mentioned in the C.S.R. As such labour rates only as per C.S.R. will be paid for fitting such items in position as per C.S.R.

5.5.5. the contractor should submit wiring diagram on tracing cloth showing the point position of switch, length of point, position of D.B. and main switch circuit No. in which points fall at the time of final bill. Otherwise deduction of ½ percent (half percent) will be made from the bill.

5.6 Specification of works.

(Excluding bridges and culverts)

The road work and collection of materials for road works shall be carried out according to C.P.W. P.W.D. specifications, as adopted for the work or specification enforce, or special specifications wherever enclosed separately, or the relevant specification published by the Indian Road Congress.

5.7 Contradictions or amendments – In the event of contradictions between the stipulations of the current schedule or rates (vide part of this N.I.T.) and aforesaid specification vide para – 5.1 to 5.7 above the stipulations of the current schedule of rates shall gain

precedence. In the event of contradictions, if any between different specifications and or codes of practice, referred to above, the decision of the U.E. shall be final subject to appeal in case of dispute before Registrar of University within one month of U.E.'S decision.

6. SUPPLY OF MATERIALS :

6.1 Material supplied by the Department – The following materials will be supplied by the department.

	Name of materials	Rate	Place of delivery
(1)	Cement _____ Rs. _____ (Including cost of containers).	Per bag.	_____
(2)	_____		_____
(3)	_____		

6.1.1 The Contractor shall be liable to return unused cement bags after due allowance of limit of variation prescribed in the C.S.R. to the stores of the University failing which cost of unused cement bags shall be recovered from contractor at double the agreement rates/issue rate which ever is more.

6.2 Return to Empty Cement Bags – It shall be compulsory on the part of the contractor to preserve and return empty cement bags in sound conditions to the extent of at least 75 percent of the bags issued to him, to the _____ engineer in charge of work at the place of issue for which no transportation will be payable. The rebate for such bags will be as per rates fixed by D.G.S.&D. from time to time. In case the empty bags are not required by the University the contractor will have to sell these to the authorized collecting agents at the price fixed by the D.G.S. &D. from time to time and produce receipts in support.

6.3 Penalty for Non-Return of Bags- For each bag not so returned to the extent of issues, in sound condition a rate of Rs. _____ per bag will be charged. The decision of the Engineer-in-charge whether or not a bag is in sound conditions shall be final.

6.4 In case of the departmental supply of Iron/Steel to the contractor the labour rate will be paid for cutting, banding and placing with binding wire as provided in C.S.R. (with due allowance for the percentage above or below C.S.R. tendered and accepted).

6.5 **Delay in Supply** – If the materials are not supplied in time, the contractor will not be allowed any claim for any loss, which may be caused to him, but only extension of time will be given at the discretion of the University Engineer and Registrar if applied for by the contractor before the expiry of the contract.

7. MISCELLANEOUS CONDITIONS :

7.1 **Subletting** – The contractor shall not, without the prior approval of the competent authority in writing, sublet or assign to any other party or parties, the whole or any portion of the work under the contract. Where such approval is granted, the contractor shall not be relieved of any obligation or duty or responsibility which he undertakes under the contract.

Taxes – All dues regarding taxes, including the sales tax, other duties etc. levied on the contractor's work by Government and local bodies or private individual is will be payable by the contractor. The University Engineer will grant a certificate for the quantities actually used on the work but will not entertain any claim on this account. But University deducted the royalty of material as per M.P.P.W.D. rules.

- 7.2 Minerals extracted for works carried out on behalf of the Government of India from the quarries in possession of and controlled by the State Government is subject to payment of Royalty by the contractor to whom it shall not be refundable. The University Engineer shall not also issue nay certificate in respect of such materials extracted for Government of India work (Applicable to Government of India works only).
- 7.3 **Rules of Lab our Camps** – The contractor will be bound to follow the Madhya Pradesh Model rule relating to lay-out, water supply and sanitation on lab our camps (vide Annexure –A) and the provisions of the National Building Code of India, in regard to constructions and safety.
- 7.4 **Fair Wages** – The contractor shall pay not less than fair wages to labourers engaged by him on the works (rules enclosed vide annexure-B).
- 7.5 **Work in the Vicinity-** The University Engineer reserves the right to take up departmental work or to a work award on contract in the vicinity without prejudice to the terms of contract.
- 7.6 **Best quality of construction materials** – Material's of the best quality will be used as approved by the University Engineer:
- 7.7 **Removal of undesired person-** The contractor shall on receipt of the requisition from the University Engineer at once remove any person employed by him on the work who, if in the opinion of the University Engineer is unsuitable or undesirable
- 7.8 **Amount due from Contractor** – Any amount due to University from the contractor on any account concerning work may be recovered from him as arrear of land revenue.
- 7.9 **Tools and Plants** – The contractor shall arrange at his own cost tools and plant required for the proper execution of the work. No extra cost will be paid for such T&P however.
- 7.10 **Right to increase or decrease work** – The competent reserves the right to increase or work.
- The competent authority reserves the right to increase or decrease any item of t he work during the currency of the contract and the contractor will be bound to comply with the order of the competent authority without any claim for compensation.
- 7.11 **Time Schedule** – The work shall be done by the contractor according to the time schedule fixed by the competent authority. Contractor shall furnish the programme of construction for execution of work within the stipulated time schedule together with methodology of construction of each type of work and obtain appovel of engineer incharge prior to the execution / commitment of work.
- 7.12 **Time of contract** – Time allowed for carrying out the work as entered in the N.I.T. shall be strictly observed by the contractor and shall be reckoned from the date of work order to commence the work.

- 7.13 **Payment by Cheques** – The payment will be made by cheques on the Scheduled Bank (Central Bank of India) only. No Bank commission charges on realizing such payments will be done by the University.
- 7.14 **Transport of Materials** – The contractor shall made his own arrangement for transport of all materials. The University is not bound to arrange for priority in getting wagon or any other materials though all possible assistance by way of recommendation will be given if it is found necessary in the operation by the Engineer in charge. If it proves to be in effective, the contractor shall have no claim for any compensation on that account.

8. SPECIAL CONDITIONS :

To be inserted in the N.I.T. of a particular work if found necessary in the interest of the work.

8.1 Agreement :-

- 8.1.1 Execution of agreement :- The tenderer whose tender has been accepted here in after referred to as the contractor, shall produce an appropriate solvency certificate is so required by the U.Engineer and will execute the agreement in the prescribed form within a fortnight of the date of communication of the acceptance of his tender by competent authority. Failure to be so will result in the earnest money being forfeited to University and tender being cancelled.
- 8.1.2. (a) The contractor shall employ the following Technical Staff during the Execution of work :-
- (i) One Graduate Engineer when the work to be executed is more than Rs.5 Lakhs.
 - (ii) One diploma Holder, Sub-Engineer when the cost of work to be executed is from Rs.2 lakhs or more but not more than Rs. 5 lakhs.
- (b) The Technical Staff should be available at site whenever required by the Engineer-in charge to take instructions.
- (c) In case the contractor fails to employ the technical staff as aforesaid, the U.E. shall have the right to take suitable remedial measures.
- (d) The contractor should give the names and other detail of the Graduate Engineer/Diploma Holder, Sub-Engineer whom he intends to employ or who is under employment on the work at the time he commences the work.
- (e) The contractor should give a certificate to the effect that the Engineer/Diploma holder, Sub-Engineer is exclusively in his employment.

Provided that :-

- (i) An Engineer or Sub Engineer may look after more than one work in the same locality but the total value of such work under him should not exceed Rs. 25 lakhs in the case of in Engineer and Rs. 5 lakhs in the cash of a Sub-Engineer.
- (ii) It is not necessary for the contractor's partners in case of firm/company who is himself an Engineer, Sub-Engineer to employ another Engineer, Sub-Engineer for the Supervision of work.

- (iii) The Retired Assistant Engineer who is holding a Diploma may be treated at par with a Graduate Engineer are for the operation of the above clause.

In case the contractor fails to employ the Technical staff as aforesaid he shall be liable to pay the University sum of Rs.10,000 for each month of defaults in the case of graduate and Rs. 5000/- for each month of default in the case of Diploma Holder Sub-Engineer.

- 8.2 **Conditions Applicable for Contract** – All the conditions of the tender notice will be binding on the contractors in addition to the conditions of the contract in the prescribed form:-

Following documents annexed with this N.I.T. shall form a part of the contract.

Annexure – “A” Model Rules relating to lab our, water supply etc.

Annexure – “B” Contractor’s lab our regulations.

Annexure – “C” Sources of materials (not applicable for building work).

Annexure – “D” Form of Income Tax Clearance Certificate. (applicable to works costing more than Rs. 2.00 lakhs)

Annexure – “E” Brief specifications.

Annexure – “F” Schedule of items.

Annexure – “G” Form of Bank Guarantee,

8.3 **Test of Material and Methodology**

ANNEXURE "A"

**MODEL RULES RELATING TO LABOUR, WATER SUPPLY AND
SANITATION IN LABOUR CAMPS**

Note – These model rules are intended primarily for labour camps which are not of a permanent nature. They lay down the minimum desirable standard which should be adhered to. Standard in permanent or semi permanent labour camps should not obviously be lower than those for temporary camps.

1. **Location**- the camp should be located in elevated and well drawing ground in the locality.
2. **Labour huts** to be constructed for one family of 5 person each. The lay out to be shown in the prescribed sketch.
3. **Hutting**-The huts to be built of local materials . Each hut should provided at least 20 sq. meters of living space.
4. **Sanitary facilities** – Latrines and urinals shall be provided at least 15 meters away from nearest quarters separately for man and woman and specially to market on the following scale.
5. **Latrine** – Pit provided at the rate of 10 users or two families per seat, urinals as required as the privy can also be used for this purpose.
6. **Drinking water** – Adequate arrangements shall be made for the supply of drinking water. If practicable filtered and chlorinated supplies be arranged, when supplies is from intermittent sources overhead storage tank shall be provided with a capacity of five litres a person per day. Where the supply is to be made from a well it shall conform to the sanitary standard laid down in the report of the Rural Sanitation committee. The well should be at least 30 metres away from any latrine or other source of pollution. If possible hand pump should be installed for drawing the water from well. The well should be effectively disinfected once every month and the quality of the water should be got tested at the Public Health Institution between each work of disinfecting.
7. **Bathing and washing** – Separate bathing and washing place shall be provided for men and women for every 25 persons in the camp. There shall be one gap and space of 2 sq. metres for washing and bathing. Proper drainage for the waste water should be provided.
8. **Waste disposal** – Dustbin shall be provided at suitable places in camp and the residents shall be directed to throw all rubbish into those dustbins. The Dustbins shall be provided with cover. The contents shall be removed every day and disposed off trenching.
9. **Medical facilities** – (A) Every camp where 1,000 or more persons reside shall be provided with whole time doctor and dispensary. If there are women in the camp a whole time nurse shall be employed.
- (B) Every camp where less than 1,000 but more than 250 person reside shall be provided with dispensary and a part time nurse/midwife.
- (C) If there are less than 250 persons in any camp a first aid kit shall be maintained in charge of the worker, if any, free of cost.

All the medical facilities mentioned above shall be for all residents in the camp including a dependent of the worker, if any, free of cost.

Sanitary Staff – For each lab our camp there should be qualified sanitary inspector and sweepers should be provided in the following scales:-

- (1) For camps with strength over 200 but not exceeding 500 persons one sweeper for every 75 persons above the first 200 for which 3 sweepers shall be provided.
- (2) For camps with a strength over 500 persons one sweeper for every 100 person above first 500 for which 6 sweepers should be provided.
- (3) All payment as per rule to pay EPF & ESI of labour shall be paid by contractor.

ANNEXURE “B”**CONTACTOR’S LABOUR REGULATIONS**

The contractor shall pay not less than fair wage to labourers engaged by him in the work.

Explanation – (a) “Fair wages” means wages whether for time or piece work as notified on the date of inviting tenders and where such wages have not been so notified the wages prescribed by the S.E.P.W. department for the circle in which the work is done.

(b) The contractor shall notwithstanding the provisions of any contract to the contrary, cause to be paid a fair wage to laborers indirectly engaged on the work including in labour engaged by his subcontractors in connection with the said work as if laborers had been immediately employed by him.

(c) In respect of all labour directly or indirectly employed on the works or the performance of his contract, the contractor shall comply with or cause to be complied with the Labour Act in force.

(d) The University Engineer shall have the right to deduct from the money due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers, non payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of regulations.

(e) The contractor shall be primarily liable for all payments to be made under and for the observance of the regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.

(f) The regulations aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.

(g) The contractor shall obtain a valid license under the Contract (Regulation and Abolition) Act, in force and rules made there under by the competent authority from time to time before commencement of work, and continue to have a valid license until the completion of the work.

Any failure to fulfill this requirement shall attract the penal provisions of this contract arising out of the resulted non-execution of the work assigned to the contractor.

ANNEXURE “C”**STATEMENT SHOWING THE LEAD OF MATERIALS**

S.NO.	DESCRIPTION	LEAD
1.	_____	
2.	_____	
3.	_____	
4.	_____	
5.	_____	

Note – This statement is only for guidance of the contractor. The tenderer should satisfy himself regarding the availability of the required quality and quantity of materials.

ANNEXURE “D”**FORM OF CERTIFICATE IN INCOME TAX TO BE SUBMITTED BY CONTRACTOR****TEDNERING FOR WORKS CONSTING Rs. 2.00 LAKHS OR MORE**

- (i) Name and style (of the company, firm H.U.F. or individual) in which the applicant assessed to income tax and address for purpose of assessment.
- (ii) The Income Tax Circle/Ward/ District in which the applicant is assessed of income-tax.
- (iii) Following particulars concerning the last income tax assessment made:-
 - (a) Reference No. or (G.I.R.NO.) of the assessment.
 - (b) Assessment year and accounting year.
 - © Amount of total income assessed.
 - (d) Amount of tax assessed I.T., S.T.,E.P.T., B.P.T.
 - (e) Amount of tax paid I.T., S.T., E.P.T., B.P.T.
 - (f) Balance being tax not yet paid and reasons for such arrears .
 - (g) Whether any attachment or certificate proceedings pending in respect of the arrears.
 - (h) Whether the company of firm of H.U.F. on which the assessment was made has been or is being liquidated, would up, dissolved, partitioned or being declared insolvent, as the case may be.

- (i) the position about later assessments namely, whether returns submitted under section 22 (1) or (2) of the income tax act and whether tax paid under section 18-A of the act and the amount of tax so paid or in arrears.
- (iv) In case there has been no income tax assessment at all in the past whether returns submitted under section 21 (1) or (2) and 18-A (3) and if so the amount of income tax returned or tax paid and the income tax circle/ward/District concerned.
- (v) The name and address of branch (es) verified the particulars set out above and found correct subject to the following remarks.

Dated _____

Signature of I.T.O.
Circle/Ward/District

ANNEXURE “E”

Specification for the work of construction of Work

University Engineer

ANNEXURE “F”**SCHEDULE OF ITEMS TO BE EXECUTED**

S.NO.	Particulars of items	Unit
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ENCLOSED

University Engineer**ANNEXURE “G”****GUARANTEE BOND**

(To be used by approved scheduled banks)

1. In consideration of the Jiwaji University Gwalior (hereinfter called the University) having agreed to exempt _____ (hereinafter called the said contractors) from the demand under the terms and conditions of an agreement dated _____ made between _____ and _____ for _____ herein after called the said Agreement) of earnest money deposit for the due fulfillment by the said contractor(s) of the terms and conditions contained in the said agreement on production of a Bank Guarantee for Rs. _____ (Rs. _____ Only). We _____ Bank Limited (hereinafter referred to as “The Bank”) do hereby undertake to pay to University an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the University by the reason of any breach by the said contractor(s) of any terms or condition contained in the said agreement.

2. We _____ Bank Limited, do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the University stating that the amount calimed is due by way of loss or damage caused to or suffered by the University by reason of any breach by said Contractor (s) of any of the terms or conditions contained in the said agreement or by reason of the contractor(s) failure to perform the said agreement. Any such demand made on the Bank shall be conclusive as regard the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ .

ANNEXURE “H”**Special Condition**

1. The Tenderer of/supplier should have a place of business in the state of M.P. from where the goods would be supplied to various destinations in the state and also should hold a registration Certificate under the M.P. Vanijayack Kar Adhiniyam.

2. The Tenderer/supplier shall also submit the Clearance Certificate as provided under section 36 of the MP Vanijayak Kar Adhiniyam.
3. Work Programme and Methodology of Construction - Contractor shall furnish his programme of construction for execution of the work within due stipulated time schedule together with methodology of construction of each type of work and obtain approval of the Engineer - in - Charge prior to execution/commencement of work
4. Revised programme of work in case of sleep page - In case of sleep page from the approved work at any stage, the contractor shall furnish revised programme to make up the sleep page within the stipulated time schedule and obtain approval of Engineer-in-charge to the revised programme.

8.4 Test of Material and Methodology

1. The materials of the construction shall be got tested by the contractor as per specified test relevant ISI Codes under mandatory tests (as per list enclosed Annexure-JA) and frequency of testing. The frequency of the test shall be governed as specified therein. These tests shall have to be invariably carried out by contractor at his cost in under guidance of Engineer-in-charge.
2. The machinery normally required for different types of work is specified in Annexure-JB. Use of specified machinery and plant shall be compulsory for the work. The machinery in good working condition shall have to be possessed or arranged by the contractor. No Extra payment shall be admissible therein is payable for use of machinery.
3. Steel centering and shuttering materials for buildings work shall have to be used on the work. The quality of centering and shuttering shall be approved by the Engineer - in Charge. The contractor shall have the ensure arrangement of minimum number of says required for staging and shuttering as required for works and as directed by Engineer - in - charge.

4. Watering and Curing

Pumps in good working condition with leads for curing purposes of the work shall to be as per directions of the Engineer-in-charge of work to ensure continuous curing required for the works.

- (i) Rates include the element of testing of samples of various materials brought by the contractor for use on the work as per list of **Mandatory Test** attached herewith. Frequency of such tests to be carried out shall not be less than the prescribed frequency. Contractor shall also have a establish a field laboratory at site to be approved by the Engineer-in-Charge. The list of the Equipments and for field-testing laboratory is attached in Annexure - JC and JD respectively. The tests shall have to be conducted by the contractor's material under the supervision of Engineer-in-charge or his authorized representative. A record of such tests shall be submitted to Divisional Office along with running account bills. The original register shall also be submitted along with the final bill. Failure to conduct any of the test of not upto the prescribed frequencies would invite following Consequences.

The Engineer-in-charge may reject work, but in his opinion the work can be accepted despite the aforesaid shortcomings, then he may do so subject to a recovery of Rs. 250/- for each default and simultaneously inform the Registrar, Jiwaji University. However, it would be optional for the contractor to se up his own laboratory if the amount of contract (inclusive of tender premium) does not exceed Rs. 5.00 Lakhs.

- (ii) As regards steel reinforcement:

- (a) Mild steel and medium tensile steel bars shall conform to IS"433 (Part-I)
- (b) Hot rolled deformed bars hall conform to IS:1139
- (c) Cold Twisted bars shall conform to IS:1786
- (d) Hard drawn steel wire fabric shall conform to IS:1566, and
- (e) Rolled steel made from structural steel shall conform to IS:226

All reinforcement shall be free from loose mill scales, loose rust and coats of paints, oil mud or other coatings which may destroy or reduce bond.

Only such steel as is obtained from main producers of steel e.g. SAIL, IISCO, TISCO or such steel rolling mills as are having license from the BIS to manufacture steel for reinforcement shall be allowed to be used in the work.

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The contractor shall have to produce Test Certificate in the proforma prescribed/approved by BIS from the manufacturer for every batch of steel brought to site of work by the contractor, the Engineer-in-Charge shall arrange to get samples tested for nominal mass, tensile strength, bend test and rebound test from any laboratory of his choice at the cost of contractor. The selection of test specimens and frequency shall be as per relevant IS: Specification of steel to be used.

- (iii) Only ISI marked cement to be arranged by the contractor for all work himself of relevant IS standard specifications as mentioned in M.P.P.W.D. SOR 01.11.1999 shall be allowed to be used

in the work subject to the following test. The arrangement for necessary equipment and testing shall have to be made by the contractor himself at a site to be decided by the Engineer-in-Charge. All expenses shall be borne the contractor. Any lot of cement bought to site by the contractor would be permitted to be used in the work under the supervision of the Engineer-in-charge or his authorized representative as hereinafter. The record of the tests shall be maintained in the register referred in subsequent para.

Type of Test required on work	Frequency	Minimum Qty. required on work.
(a) Test for initial and final/setting time as per IS: 3536-1966	1 test for 10 tonne or part thereof	10 tonne
(b) Test for determination of compressive strength of cement as per IS : 3536-1966	1 test for 50 tonne or part thereof	50 tonne

A duplicate register as per format hereunder shall be maintained at sit of work. Extract Certified copies of the entries for each month shall be submitted to the Engineer-in-Charge by the contractor. The original register shall also be submitted to the Engineer-in-charge on completion of the work by the contractor.

S.N	Date of receipt of cement	No. of bags	Name and address of firm, from whom purchased	Signature of contractor or his authorized representative	Signature of authorized representative of Engineer - in - charge	Result of test for initial and final setting time	Results of test for compressive strength of cement	Remark
1	2	3	4	5	6	7	8	9

Nominal mix would be adopted for cement concrete m-7.5, M-10, M-15 and M-20, Design mix shall have to be adopted fro concrete of higher strengths.

- (iv) if any item of work is found to be substandard but the Engineer-in-Charge is of the opinion that the same is structurally adequate and can be accepted at a reduced rate, then in such cases, the Engineer-in-charge shall have to submit proposals for appropriate reduction of rates supported by an analysis, in justification thereof, through a DO letter to the Registrar, Jiwaji University to obtain his approval expeditiously ordinarily within 15 days. The approved analysis alongwith orders of the Registrar, Jiwaji University shall have to be appended to the bills of the contractor.
- (v) The contractor shall have to be provided a ruled duplicate register at site named "Site Order Book" It shall be in the custody of departmental supervisory staff. The Engineer-in-charge or his authorized representative may record their instructions in this book. which shall be noted by the contractor or his authorized representative for compliance.

ANNEXURE - JA

LIST OF MANDATORY TEST

Material	Test	Relevant is cods of testing	Field / Laboratory Test	Minimum quantity of material work out test	Frequency of testing
Sand	a) Silt content	IS:2386 Part-I	Field	20 cum	Every 20 cum or part thereof more or more frequently as decided by the engineer-in- charge
Stone Aggregate	a) Percentage of soft or deleterious material	IS: 2386 Part- II	Generally visual Inspection laboratory test where required by the engineer-in- charge	45 cum	a) As required by Engineer-in- - charge
	b) Particle size distribution	IS: 2386 Part - I			b) For every 45 cum or part thereof as decided by the Engineer-in- Charge
	c) 10% fine value	IS:2386 Part IV	Laboratory	45 cum	b) Intial test and subsequent test as and when required by Engineer- in-charge.
	d) Aggregate impact value of Los Angles abrasion value	-do-	-do-	-do-	As above
Cement Concrete reinforced cement concrete (not)	Slump test	IS:1199	Field	15 Cum	15 cum or part thereof or more frequently as required by

leaner than M-15					Engineer-in-charge.
Reinforced Cement Concrete	Cube Strengths	IS:456	Field	As per Annexure - C enclosed	
Steel arranged by the contractor	a) Tensile Strength b) Bend test	IS:1608	Laboratory	As per Annexure C enclosed	Every 20 tonne or part Thereof confirming to IS:1786-1985
Cement arranged by contractor	a) Test for initial and final setting times. b) Test for Determination of compressive strength of Cement	IS:4031	Field	50 tonne	IS: 3031-1988
Brick	Testing of Brick a) Dimension b) Water absorption & efflorescence c) Compressive strength	IS:1077 IS:3495 IS:3495	Laboratory / Field Laboratory Laboratory	Bk. design 100 50000 100 50000 751 501100000 351	
Brick tiles	a) Compressive strength & dimensions b) Water Absorption	IS:3495	Laboratory	50,000	For every 50, or part Thereof. One test for source of manufacture.
Marble	a) Moisture Absorption b) Mohr's scale hardness test	IS:1130	Laboratory	Cost of Marble work Rs. 10,000/-	Rs. 10,000/- or part thereof if required by Engineer-in-charge.
Timber	a) Moisture Contents	IS:11215	(By moisture meter field / laboratory test in case of dispute as required by Engineer - in charge	1 cum	Every one cum or part thereof
Flush door	a) Emersion Test b) Knife test c) Adhesion	IS:2191 and 22021	Laboratory		For testing of shutters discretion of engineer-in charge may be adopted however a certificate from

					the manufacture may be taken for the quality of the product if required necessary testing may be done as per IS: Code.
Aluminum door or windows fittings	Thickness of Anodic Coating	IS: 1948	Laboratory	If the cost of fitting exceed Rs. 3.000/-	Rs. 5,000/- or part thereof required by the engineer- in-charge
Mortise Lock	Testing of Spring		Laboratory	50 Nos.	100 or part thereof.
Terrazo Tiles	a) Transverse Strength b) Water absorption c) Abrasion Test	IS:1237	Laboratory	2000 tiles	2000 tiles of part thereof
White Glazed	a) Water Absorption b) Crazing Test c) Impact Strength test	IS: 777	Laboratory	3000 Nos.	3000 Nos. Or part thereof

ANNEXURE - JB**Plant and Machinery for work**

1. Concrete mixer of one cement bag mix capacity one in working condition and other standby 1 Nos. with measuring box for concreting.
2. Pin vibrator (preferably electrically operated 2 Nos.)
3. Platform vibrator 1 No.
4. Small vibratory earth master for floor filling compaction etc. 1 No. if necessary.
5. Pumps with leads etc. for watering and curing 2 Nos.
6. Other necessary plants and machinery with reference to nature of works etc.

Road Works

1. Water tanker with spraying arrangement.
2. Camber Plants.
3. Traffic control signals boards etc.
4. Stacking boxes.
5. Screens of required grades for metal grading
6. Thermo meter, brooms wire and jute pleasures, templates.
7. Ropes or angle iron for edging as required
8. Mixture mashing.
9. Tar boiler with sprayer if asphaltting work or in surface dressing, premix carpet with seal coat etc. is to be done.
10. Field test equipment necessary for the work.
11. Other necessary required plants and machinery with reference to nature of work.

In Case of macadam work wet mixed with hot laid works add the following:

1. Hot mix plant and pavement finisher with equipment as per clause 404.3.4.4, and 404.3.5 of Most specification, needed.
2. Road roller of required capacity.
3. Tar boulders with pneumatic sprayers etc.
4. Dumpers or carries etc.
5. Field test equipments for testing of grading of Asphaltic Mix, bituminous content. Thermo meters for recording and checking temperature etc.
6. Other equipment is needed for this work as per specifications.

ANNEXURE - JC**List of equipment for field Testing Laboratory****A. For Building Work**

1. Balance -
 - (i) 7 kg. to 10 Kg. capacity, Semi self indicating type - Accuracy to 10 gm.
 - (ii) 500 gm. capacity, semi self indicating type - Accuracy 1 gm.
 - (iii) Pan Balance - 5 Kg. capacity - Accuracy 10 gm.
2. Ovens Electrically operated. thermostatically controlled upto 110 Deg. C. Sensitivity loc.
3. Sieves : as per IS:460:
 - (i) IS Sieves - 450mm internal dia of sizes 100mm, 80mm, 63mm, 50mm, 25mm, 20mm, 2.5mm, 10mm, 6.3mm, 4.75mm, complete with lid and pan.

- (ii) IS Sieve - 200mm internal dia (brass frame) on consisting of 2.36mm, 1.18mm, 500 microns, 425 microns, 300 microns, 212 micron, 150 microns, 90 microns, 75 micron with lid and pan
- 4. Sieve shaker capable of 200mm and 300mm dia sieve, manually operated with timing switch assembly.
- 5. Equipment for slump test - Slump Cone, Steel Plate, tamping rod, steel scale, scoop.
- 6. Dial gauges 25mm travel - 0.01mm/division least count - 2 Nos.
- 7. 100 tonne compression testing machine, electrical - cum - manually operated.
- 8. Graduated measuring cylinders 200 ml capacity - 3 Nos.
- 9. Enamel trays (for efflorescence test for bricks) -
 - (i) 300mmX250mmX40mm - 2 Nos.
 - (ii) Circular Plates of 250mm dia - 4 Nos.

B For Road Works

- 1. Balance -
 - (i) 7 kg. to 10 Kg. capacity. semi self indicating type - Accuracy 10 gm.
 - (ii) 500 gm. Capacity, semi self indicating type Accuracy - 1 gm.
 - (iii) Chemical balance, 100 gm capacity - Accuracy 0.1 gm.
 - (iv) Pan Balance - 5 Kg. capacity, with 10 gm. Accuracy.
 - (v) Platform scale 300 Kg. capacity.
- 2. Ovens - electrically operated, thermostatically controlled -
 - (i) Upto 200 Deg. C for determination of loss on heating of bitumen.
- 3. Sieves as per IS:460-1962
 - (i) IS Sieves - 450mm of internal dia of sizes 100mm, 80mm, 40mm, 25mm, 20mm, 12.5mm, 10mm, 6.3mm, 1.75mm, complete with lid and pan.
 - (ii) IS: Sieves - 200mm internal dia (brass frame) consisting of 2.36mm, 1.18mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns and 75 microns with lid and pan.
- 4. Sieves shaker capable for shaking 200mm and 300mm dia sieves, electrically operated with timer.
- 5. Dial gauge -
 - (i) 25mm travel - 0.01mm/division.
- 6. Load frame - 5 tonnes capacity electrically operated with speed control.
- 7. Aggregate impact test, apparatus as per IS:2386 - Part IV - 1963
- 8. Compaction apparatus (Proctor) as per IS:2780 - Part -VII-1974
- 9. Modified ASHO compaction apparatus as per IS:2720 - Part - III - 1974
- 10. Sand pouring cylinder with control funnel and tube complete as per IS:2720 - Part-XXVIII - 1974.
- 11. Sampling tins with rods 100mm dia x 50mm ht. 1/2 Kg.. capacity and miscellaneous items like moisture tins. etc.
- 12. Constant temperature bath for accommodating bitumen test, specimen electrically operated and thermostatically controlled.
- 13. Penetrometer with automatic time controller and with adjustable weight accessories and needless as per IS:1958
- 14. Oxllet extraction apparatus complete with extracextraction thimbles etc.
- 15. Laboratory meter about 0.20 cum. capacity electrically operated with heating jacket.
- 16. Hubbard field stability test apparatus complete.
- 17. Marshall compaction apparatus as per AMT 1559-62T and complete with electrically operated leading unit compaction pedestal bearing head assembly dial micrometer and bracket for flow measurement, load transformer bar, specimen mould (4 inch dia) with baseplate, columns, mould (4 inch dia) with base plate, collars, specimen extracted Compaction hammer 4.53 Kg. (10 Ib) x457mm (18 inch) fall.

18. Distant reading thermometers.
19. Graduated cylinder 100 ml. capacity
20. Enamel Tray.

ANNEXURE - JD

List of Instruments for Field Testing Laboratory

Field Testing Instruments.

1. **Steel tapes - 3m.**
2. **Vernier calipers**
3. **Micrometer screw 25mm gauge.**
4. **A good quality plumb bob.**
5. **Spirit level minimum 30cm long with 3 bubbles for horizontal vertical.**
6. **Wire guage (circular type) disc.**
7. **Foot**
8. **Long nylon thread.**
9. **Rebound hammer for testing concrete.**
10. **Dynamic penetrometer.**
11. **Magnifying glass.**
12. **Screw driver 30cms long**
13. **Ball Pin hammer 100 gms.**
14. **Plastic bags for taking samples.**
15. **Moisture meter for timber.**
16. **Earth Resistance tests for I**
17. **Meggar I Electrical Division**

ANNEXURE - JE

The minimum frequency of sampling of concrete or each grade shall be in accordance with the following.

Quantity of concrete in the work Cum	Number of Samples
1-5	1
6-15	2
16-30	3
31-50	4
51 and above	Plus one additional sample for each additional sample for each additional 50 cum on part thereof.

Note: -

At least one sample shall be taken from each shift. Where concrete is produced at Continuous production unit, such as ready mixed concrete plant, supplier and purchasers may agree upon frequency of sampling mutually.

APPENDIX 2.14
(See Paragraph 2.091)

FORM "B"

JIWAJI UNIVERSITY, GWALIOR

ITEM RATM TENDER AND CONTRACT FOR WORKS

General Rules and Direction for the Guidance of Contractor

1. All works proposed for execution by contract will be notified in a form of invitation to tender, posted in public places and signed by the University Engineer.

This form will state the work to be carried out as well as the date for submitting and opening tenders and the time allowed for carrying out the work: also the amount of the earnest money to be deposited with the tender and the amount of the security deposit to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. It will also state whether refund of quarry fees, royalties, octroi duties and ground rents will be granted. Copies of specifications, drawings and a schedule of quantities and rates of the various descriptions of work and any other documents required in connection with the work, signed for the purpose of identification by the University Engineer shall also be open for inspection by the contractor at the office of the University Engineer during office hours.
2. In the event of the tender being submitted by a firm, it must be signed separately by each member thereof, or in the event of the absence of any partner it must be signed on his behalf by a person holding a power of attorney authorizing him to do so. Such power of attorney should be produced with the tender and it must disclose that the firm is duly registered under the Indian Partnership Act.
3. Any person who submits a tender shall fill up the usual printed form stating at what rate he is willing to undertake each item of work. Tenders which propose any alteration in the work specified, in the said form of invitation to tender, or in the time allowed for carrying out the work or which contain any other conditions of any sort, will be liable to rejection. No single tender shall include more than one work but contractors who wish to tender for two or more Works shall submit a separate tender for each, tender shall have the name and number of the work to which they refer written outside the envelope.
4. The University Engineer or his duly authorized assistant, Will open tenders in the presence of any intending contractor(s) who may be present at the time and will enter amounts of the several tenders in a comparative statement in a suitable form. Receipts for earnest money will be given to all tenderers except those whose tenders are rejected and whose earnest money is refunded on the day that the tenders are opened.
5. The office competent to dispose of the tenders shall have the right of rejecting all or any of the tenders.

6. The receipt of a clerk for any money paid by the contractor will not be considered as any acknowledgement of payment to the University Engineer and the contractor shall be responsible for seeing that he procures a receipt signed by the University Engineer or any other person duly authorized by him.
7. The memorandum of work tendered for, and the schedule of material to be supplied by the University, and their issue rates shall be filled in and completed, in the office of the University Engineer before the tender form is issued, if a form issued to an intending tenderer without having been so filled in and completed, he shall request the office to have this done before he completes and delivers his tender.

TENDER FOR WORK

I/We hereby tender for execution for the V.C., of Jiwaji University Gwalior of the work specified by in the under written memorandum within the time specified in such memorandum at the rates specified therein and in accordance in all respects with the specifications. designs, drawings and instructions in writing referred to in rule I here of and in clause 12 of the annexed condition, and with such materials as are provided for by and in all other respects in accordance with such conditions so far applicable.

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MEMORANDUM

1. (2) *(a) General Description: **Construction of Examination Center at Jiwaji University, Campus.**
- (b) Estimated cost *Rs. 426 Lakhs*
- (c) Earnest Money *Rs. 8.52 Lakhs*
- ** (d) Security deposit 5 %
- *** (e) Percentage if any, to be deducted from bills 5 %
- (f) Time allowed for the completion of work from the date of written order - **10 months** including rainy season.

Item No.	Item of work	Unit	Per	Rate Tender in figures	Rate tendered in words.
(1)	(2)	(3)	(4)	(5)	(6)
Separate list of description of work attached					

Should this tender be accepted I/We hereby agree to abide by and fulfill all terms and provisions of the said conditions of contract annexed hereto so far as applicable, or in default thereof to forfeit and pay to the V.C. of Jiwaji University, Gwalior or his successor in office the sums of money mentioned in the said conditions.

The sums of Rs. 1*(.....) is, herewith, forwarded in currency notes as earnest money (a) 2* the full value of which is to be absolutely forfeited to the V.C. of Jiwaji University, Gwalior. or his successors in office, should I/We not deposit the full amount of security deposit specified in the above memorandum, in accordance with clause 1 (A) of the said condition of contract, otherwise the said sum of Rs. Shall be retained by Government as on account of such security deposit as aforesaid, or (b) 3* full value of which shall be retained by Government on account of the security deposit specified in clause 1

(B) of the said condition of contract. Dated the19.....

Signature of Contractor before
Submission of tender

Name & Address
.....
.....

4* Name of Witness
Occupation
Address

The above tender is hereby accepted by me on behalf of V.C. of Jiwaji University, Gwalior
Dated day of199

Signature of the Registrar
by whom tender accepted.

-
- * If several sub-works are included, they should be detailed in a separate list.
 - ** This deposit will vary from 1 percent to 10 percent of the estimated cost of the work according to the requirements of the case.
 - *** This percentage where no security deposit is taken, will vary from 5 percent to 10 percent according to the requirements of the case. Where security deposit is taken, see note to clause 1 of the condition of contract.
 - 1.* Give particulars and numbers:
 - 2.* Strike out (a) if no cash security deposit is to be taken.
 - 3.* Strike out (b) if any cash security deposit is taken.
 - 4.* Signature of witness to contractor's signature.

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 contract include his heirs executors, administrators, representatives and assigns) shall 4* (A) (within one day for a contract of Rs. 1000/- or less, two days or one of Rs. 2000/- or less, and so on up to a limit of ten days of the receipt by him of the notification of the acceptance of his tender) deposit with the University Engineer in cash. or Government securities endorsed to the University Engineer (if deposited for more than 12 months) a sum sufficient with amount of the earnest money deposited by him with his tender to make up the full security deposit specified in the tender) or* (B) (permit V.C. at the time with of making any payment to him of work don under the contractor to deduct such sum as will (with the earnest money deposited by him) amount to* percent of all moneys so payable. such deductions. be held by V.C. by way of security deposit), provided always that in the event of the contractor depositing a lump sum by way of security deposit as contemplated at (A) above. Than and in such case if the sum so deposited shall not amount to *** percentage of the total estimated cost of the work, it shall be lawful for V.C. at the time of making any payment to the contractor for work done under the contract to make up the full percentage of Percent by deducting a sufficient sum from every such payment as last aforesaid. All compensation or other sums of money payable by the contractor to V.C. under the terms of his contract may be deducted from or paid by the sale of sufficient part or his security, or form the interest arising their form, or from any sum which may be due or may become due to the contractor by V.C. on any account whatsoever, and in the event of his security deposit being reduced by reason of any such deduction of sale as aforesaid, the contractor shall within ten days thereafter make good in cash or Government 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. The security deposit referred to when paid in cash, May, at the cost of the depositor, be converted into interest bearing securities provided that the depositor has expressly desired this in writing.

Note: Any sum deposited in cash by the contractor under (A) or amount of deductions made under (B) may if the contractor so desires, be converted into one of the recognized forms of interest bearing securities to be approved by the officer sanctioning the contract, provided the amount to be converted is not below Rs. 1000/- (One Thousand) and the period of contract warrants such conversion. Such securities should be endorsed to the University Engineer.

The security deposit would also be converted in the shape of Bank Guarantee in recognized. form with prior approval of the authority sanctioning the contract.

* Strike out "A" or "B" as that case may be

** This will be same percentage as that in the tender at (C)

*** This percentage (not exceeding 10 percent) will be fixed in every case to suit requirements, e.g. if it is fixed at 8 percent and the security deposit only amounts to 5 percent of the estimated cost of the work, than 3 percent should be deducted from every payment. If the percentage is fixed at

10 percent and the security deposit only amount to 6 percent then 4 percent should be deducted and so on.

Compensation for Delay

Clause 2. - The time allowed for carrying out the works as entered in the tender shall be Strictly observed by the contractor and shall be reckoned from the date on which the order to commence work is given to the contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence (time being deemed to be of the essence of the contract on the part of the contractor) and the contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Engineer may decide on the amount of the estimated cost of the whole work as shown by the tender for every day that the work remains uncompleted. or unfinished, after the proper dates. And further, to ensure good progress during the execution of the work, the contractor shall be bound. in all cases in which the time allowed for any work exceeds on month to complete on fourth of the whole of work before one fourth of the whole time allowed under the contract has elapsed: one half of the work before one half of such time has elapsed and three fourth of work, before three fourth of such time has elapsed. In the event of the contractor failing to comply with this condition he shall be liable to pay compensation an amount equal to one percent or such small amount as the University Engineer / V.C. may decide on the said estimated cost of the whole work for every day that the due quantity of work remains incomplete. Provided always that the entire amount of compensation be paid under the provision of this clause shall not exceed eight percent on the estimated cost of the work as shown in the tender

3. Action when the contractors becomes liable for levy penalty.

Clause 3 - In any case in which under any clause or clauses of this contract the contractor shall have rendered himself liable to pay compensation amounting to the whole of the security deposit (whether paid in one sum or deducted by installments) or committed a breach of any terms contained in clause 24 or in the case of abandonment of the work owing to the serious illness or death of the contractor or any other cause. U.E. on behalf to the V.C. Jiwaji University, Gwalior shall have power to adopt any of the following courses, as he may deem best suited to the interest of University.

(a) To rescind the contract, (of which recession notice in writing to the contractor under the hand of the University Engineer shall be conclusive), and in which case the security deposit of the contractor shall stand forfeited, and be absolutely at the disposal of University.

(b) To employ labour paid in the P.W.D. or by employing department machinery and to supply materials to carry out work, or any part of the work, debiting, the contractor with the cost of the labour of hire charge of departmental machinery and the price of the materials (of the amount of which cost and price a certificate of the U.E. shall be final and conclusive against the contractor) and crediting him with the value of the work done. in all respects in the same manner and the same rates as if it had been carried out by the contractor under the terms of this contract, or the cost of the labour and the price of the materials as certified by the U.E. which ever is less, the certificate of the U.E. as to the value of the work done shall be final and conclusive against

the contractor. This does not qualify the contractor to any refund if the work is carried out at lower rates than the rates quoted by contractor, saving, if any, will go to the University.

(c) To measure up the work of the contractor, and to take such part there of as shall be unexecuted out of his hands, and to give it to another contractor to complete in which case any expense which may be incurred in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him (of the amount of which excess the certificate in writing of the U.E. shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by University under the contract or otherwise, or from his security deposit or the proceeds of sale thereof, or a sufficient part there of, if the work is carried out at lower rates to contractor shall not be entitled for any refund. on the account saving, if any which shall go to the University.

In the event of any of the above courses being adopted by the U.E. The contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any material or entered into any engagements or made advances on account of, or with a view to the execution of the work or the performance of the contract. And in case the contract shall be rescinded under the provisions aforesaid, the contractor shall not be entitled to recover or to be paid any sum for any work theretofore actually performed under this contract, unless and until the U.E. will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only be entitled to be paid the value so certified.

Contractor remains liable to pay compensation if action not taken under clause 3

Clause 4 - In any case in which any of the powers conferred upon the U.E. by clause 3 hereof, shall have become exercisable and the same shall not constitute a waiver of any of the condition hereof and such power shall notwithstanding be exercisable in the event of any further case of default by the contractor for which by any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit, and the liability of contractor for past and future compensation shall remain unaffected.

In the event of the U.E. putting in force either of the power either of the power under clause (a) or (c) vested in him under the preceding clause he may, if he so desires, take possession of all or any tools, plant, materials, and stores, in or upon the work, or the site thereof or belonging to the contractor, or procured by him and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates, or in case or these not being applicable, at current market rates to be certified by the U.E. whose certificate thereof shall be final, otherwise the U.E. may by notice in writing to the contractor or his clerk of the clerk of the works., foreman or other authorized agent require him to remove such tools, plant, materials or stores from the premises (within a time to be specified in such notice).

Power to take possession of or require removal of or sell contractor's plant. In the event of the contractor failing to comply with any such requisition, the University Engineer may remove them at the contractor's expense or shall them by auction or to private sale on account of

the contractor and at his risk all respects and the certificate of the U.E. as to the expenses of any such removal and the amount of the proceeds and expense of any such sale shall be final and conclusive against the contractor.

Clause 5 - Extension of time - If the contractor shall desire an extension of the time for completion of the work on the grounds of his having been unavoidably hindered in its execution or any other ground he shall apply in writing to the U.E. within thirty days of the date of the hindrance and prior to due date of completion on account of which he desires such extension as aforesaid, and the U.E. shall, if in his opinion (which shall be final) reasonable grounds, be shown therefore authorizes such extension for a period not exceeding three months. Any further extension of time shall be subjected to the previous sanction of the Registrar.

Clause 6 - Final certificate - On completion of the work, the contractor shall be furnished with a certificate by the U.E. (hereinafter called the Engineer-in-charge) of such completion: but no such certificate shall be given. nor shall the work be considered to be completed until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials and rubbish and cleaned off the dirt from all wood work, doors, windows, walls, floors or other part of any building or structure in upon or about which the work is to be executed. or of which he may have had possession for the purpose of the execution thereof nor until the work shall have been measured by the Engineer-in-charge / University Engineer whose measurement shall be binding and conclusive against the contractor. If the contractor shall fail to comply with the requirements of this clause as to removal of scaffolding, surplus material and cleaning of dirt on or before the date fixed for the completion of the work the Engineer-in-charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish and dispose of 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. and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realised by the sale thereof.

Payment of intermediate certificate to be regarded as advance.

Clause 7 - No payments shall ordinarily be made for work estimated to cost less than rupee one thousand till after the whole of the work shall have been completed and a certificate of completion given; but if intermediate payment during the course of the execution of works is considered desirable in the interest of work, the contractor may be paid at the discretion of the Engineer-in-charge But in the case of works estimated to cost more than rupees one thousand, the contractor shall on submitting the bill thereof be intimated to receive a monthly payment proportionate to the part thereof than approved and passed by the Engineer-in-charge whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor, But all such intermediated payments shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed. and shall not preclude the requiring of bad, unsound, and imperfect or unskillful

work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the due performance of the contract or any part thereof, in any respect or the accruing of any claim, nor shall it conclude. Determine or effect, in any way. the powers of the Engineer-in-charge under these condition or any of them as to the final settlement and adjustment of the account or otherwise any other way very or effect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for completion of the work otherwise the Engineer-in-charge's certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on all parties.

Bill to be submitted monthly

Clause 8 - A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer-in-charge for all work executed in the previous month and the Engineer-in-charge shall take or cause to be taken the requisite measurements for the purpose of having the smae verified, and the claim as far as admissible, adjusted, if possible before the expiry of ten days from the presentation of the bill.

If the contractor dies not submit the bill within the time fixed, as aforesaid, the Engineer-in-charge may depute a subordinate to measure up the said work in the presence of the contractor whose countersignature to the measurement list will be sufficient warrant, and the Engineer-in-charge may prepare bill from such list which shall be binding on the contractor in all respects.

Bill to be in Printed Forms

Clause 9 - The contractor shall submit all bills on the printed forms to be had on application at the office of the Engineer-in-charge. and the charges in the bills shall always be entered at the rates specified in the tender or in the case of any extra work ordered in pursuance of these conditions, and not mentioned or provided for in tender and the rates hereinafter provided for such work.

Receipt to be signed by partners or persons having authority to do so.

Clause 10 - Receipts for payment made on account of a work when executed by a firm must also be signed by the several partners except where the contractors are described in their tender as a firm. in which case the receipts must be signed in the name of the firm by one of the partners. or by some other person having authority to give effectual receipts for the firm.

Store Supplied by (Government) the University

Clause 11 - If the specification or estimate of the work provides for the use of any special description of materials to be supplied from the Engineer-in-charge's store or if it is required that the contractor shall use certain stores to be provided by the Engineer-in-charge (such materials and stores, and the prices to be charged thereof as hereinafter mentioned being so for as practicable for the convenience of the contractor, but not so as in any way to control the meaning or effect of this contract specified in the schedule of memorandum, hereto annexed, the

contractor shall be supplied with such materials and stores as required from time to time to be used by him for the purposes of the contract only and the value of the full quantity of materials and stores so supplied at the rates specified in the said schedule or memorandum may be set off or deducted from any sums then due, or thereafter to become due to the contractor under the contract or otherwise; or against or from the security deposit or the proceeds of sale thereof; if the same is held in Government securities the same or sufficient portion thereof being in this case sold for the purpose.

All materials supplied to the contractor shall remain the absolute property of University, and shall not on any account be removed from the site of the work, and shall at all times be open to inspection by the Engineer-in-charge. Any such materials unused and in perfectly good condition at the time of the completion or determination of the contract shall returned to the Engineer-in-charge's store, if by a notice in writing under his hands he shall so require; but the contractor shall not be entitled to return any such materials unless with such consent, and shall have no claim for compensation account of any such material so supplied to him as aforesaid being unused by him, or for any wastage in or damage to any such materials.

Works to be executed in accordance with specifications

Drawings Orders etc.

Clause 12 - The contractor shall execute the whole and every part of work in the most substantial and workman like manner and both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also confirm exactly, fully and faithfully to the designs, drawing and instructions in writing relating to the work as signed by the Engineer-in-charge and lodged in his office, and to which the contractor shall be entitled to have access at such office or in the site of the work for the purpose of inspection of during office hours, and the contractor shall if he so requires, be entitled at his own expense to make or cause to be made copies of the specifications, and of all such design, drawings and instruction as aforesaid.

Alteration in Specification and Designs

The Engineer-in-charge shall have power to make any alteration in, omissions from additions to or substitution for, the original specifications, drawings, designs 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 instruction which may be given to him signed by the Engineer-in-charge and such alterations omissions, additions or substitutions shall not invalidate the contract and any altered, additional or substituted 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 condition, in all respects on which he agreed to do the main work and at the same rates as are specified in the tender for the main work.

Extension of time in consequence of alterations - The time for the completion of the work shall be extended in the proportion that altered, additional of substuted work bears to the original

contract work and the certificate of the Engineer-in-charge shall be conclusive as to such proportion.

Rates for works not in estimate of schedule of rate of the district. - And if the altered additional or substituted work includes any class of work, for which no rate is specified in this contract, then such class of work shall be carried out at the rates entered in the schedule of rates of the district, which was in force at the time of the acceptance of the contract, and if such class of work is not entered in the said schedule of rates then the contractor shall within seven days of the date of his receipt of the order to carry out the work inform the Engineer-in-charge of the rate which it is his intention to charge for such of work; and if the Engineer-in-charge does not agree to this rate he shall, by notice in writing be at liberty to cancel his order to carry out as he may consider advisable, provided always that if the contractor shall commence work or incur any expenditure in regard there to before the rates have been determined as lastly hereinbefore mentioned then and in such case he shall only be entitled to be paid in respect of the work, carried out or expenditure incurred by him prior to the date of the determination of the rates as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-charge. In the event of a dispute the decision of the Registrar/VC (Superintending Engineer of the Circle) shall be final.

**No claim to any payment or compensation for
Alteration in or restriction of work**

Clause 14 - If at any time after execution of the contract documents the Engineer-in-charge shall for any reason whatsoever require the whole or any part of the work as specified in the tender, to be stopped for any period or shall not require the whole or part of the work to be carried out at all or the be carried out by the contractor he shall give notice in writing of the fact to the contractor who shall thereupon suspend or stop the work totally or partially as the case may be. In any such case, except as provided hereunder, the contractor shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not so derive in consequence of the full amount of the work not having been carried out, or on account of any loss that he may be put to on account of materials purchased or agreed to be purchased, or for unemployment of labour recruited by him. He shall not also have any claim for compensation by reason of any alterations having been made in the original specifications, drawings, designs and instructions which may involve any curtailment of the work as originally contemplated. Where, however, materials have already been purchased or agreed to be purchased by the contractor before receipt by him of the said notice, the contractor shall be paid for such materials at the rates detraigned by the Engineer-in-charge provided they are not in excess of requirements and are of approved quality and/or shall be compensated for the loss, if any that he may put to, in respect of materials agreed to be purchased by him, the amount of such compensation to be determined by the Engineer-in-charge whose decision shall be final. If the contractor suffers any loss on account of his having to pay labour charges during the period during which the stoppage of work

has been ordered under this clause the contractor shall, on application, be entitled to such compensation on account of labour charges as the Engineer-in-charge whose decision shall be final may consider reasonable, provided the contractor shall not be entitled to any compensation on account of labour charges if, in the opinion of the Engineer-in-charge the labour could have been employed by the contractor elsewhere for the whole or part of the period during which the stoppage of the work has been ordered as aforesaid,

Time limit for unforeseen claims

Clause 15, - Under no circumstance whatsoever, shall the contractor be entitled to any compensation from Government, on any account unless the contractor shall have submitted a claim in writing to Engineer-in-charge within one month of the cause of such claim occurring.

Action and compensation payable in case of bad work

Clause 16 - If at any time before the security deposit is refunded to the contractor it shall appear to the Engineer-in-charge or his subordinate in charge of the work that any work has been executed with unsound imperfect, or unskillful workmanship or with materials of inferior quality, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or are otherwise not in accordance with the contract it shall be lawful for the Engineer-in-charge to intimate this fact in writing to the contractor and than 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 works so specified in whole or in part, as the case may required, or if so required shall remove the materials or articles so specified and provided other proper and suitable materials or articles at his own proper charge and cost; and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in the written intimation aforesaid, the contractor shall be liable to pay compensation at the rate of one percent the amount of the estimate for every day not exceeding ten days, during which the failure so continues and in the case of any such failure the Engineer-in-charge may rectify or remove and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor should the Engineer-in-charge consider that any such inferior work or materials as described above may be accept or made use of it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.

Contractor liable for damage done and for imperfections for three months after certificate.

Clause 17 - If the contractor or his work people. or servants shall break, deface; injure or destroy any part of building in which they may be working or any building, road curbs fences, enclosures, water pipes, cables, drains, electric or telephone posts or wires, trees, grass or grass-land or cultivated ground contiguous, the premises on which the work or any part of it, is being executed or if any damage shall happen to the work, while in progress, from any cause whatever,

or any imperfections become apparent in it within three months (six month in the case of a road work) after a certificate final or its completion shall have been given by the Engineer-in-charge as aforesaid, the contractor shall make the same good at his own expense or in default the Engineer-in-charge may cause the same to be made good by other work-men and deduct the expense (of which the certificate of the Engineer-in-charge shall be final) from any sums that may be then or at any time thereafter may become, due to the contractor or from his security deposits of the proceeds of sale thereof, or of a sufficient portion thereof.

The contractor hereby also covenants that it shall be his responsibility to see that the buildings constructed under this contract do not leak during the period of two consecutive rainy seasons after its (their) completion and if any defects are pointed out to him by the Engineer-in-charge during the said periods the same shall be removed by him at his own expense or in default the Engineer-in-charge may get them removed and deduct the expenses thereof from any sum that may be then due or may become due to the contractor or from the security deposit of the contractor an amount equal to 20% cost of the roof shall, not with standing and anything contained in this clause, be retained, till the roofs are tested during two consecutive rainy seasons as aforesaid and the defects are fully removed if any amount still remains due to this account after making deductions as aforesaid the same may be recovered from him as an arrear of land revenue/cash security. The security deposit of the contractor deposit of the contractor to the extent of 50% shall be refunded on his getting the completion certificate provided that all the recoveries outstanding against him are realised. 25% of the amount shall be refunded on maintenance period being over, even if the final bill is not passed, balance 25% shall be refunded after the final bell is passed.

Work to be open for inspection: contractor or responsible agent to be present

Clause 18 - All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer-in-charge and his subordinates and they shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the works shall have been given to the contractor, either himself be present to receive orders and instructions, or have a responsible agent duly accorded in writing present for that purpose. Orders given to the contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

Notice to be given before work is covered up

Clause 19 - The contractor shall give not less than five days notice in writing to the Engineer-in-charge or his subordinate in-charge of the work before covering up or otherwise placing beyond the reach of measurement, any work in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up placed beyond the reach of measurement, any work without the consent in writing of the Engineer-in-charge or his

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

Contractor to Supply plant, ladder scaffoldings etc.

Clause 20 - The contractor shall supply at his own cost materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in-charge's store), plant, tools appliances, implements, ladders, cordage, tackle, scaffolding and temporary works requisite or proper for the proper execution of the work, whether original, altered or substituted, and whether included in the specification, or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-charge as to any matter as to which under these condition he is entitled to be satisfied, or which he is entitled to require together with 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 work, and counting weighing and assisting in the measurement or examination at any time and from time to time of the work or materials. Failing his so doing the same may be provided by the Engineer-in-charge at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof, or of a sufficient portion, thereof.

The contractor is liable for damages arising from non-provision of lights, fencing etc.

The contractor shall also provide at his own cost, except when the contract specifically provides otherwise and except for payment due under clause 13 all necessary fencing, and lights required to protect the public from accident, and shall be bound to bear the expenses of defense of every suit, action, or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and costs which may be awarded in any such suit, action or proceedings to any such person or which may with the consent of the contractor be paid to compromise any claim by any such person.

Compensation under section 12 sub-section (1) of the workmen's compensation Act 1923

Clause 21 - In every case in which by virtue of the provisions of section 12, sub-section (1) of the workmen's compensation Act, 1923, V.C. is obliged to pay compensation to a workman employed by the contractor in execution of the work, V.C. will recover from the contractor the amount of the compensation so paid; and, without prejudice to the rights of Government under section 12, sub-section (2) of the said Act, V.C. shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by V.C. to the contractor whether under this contract or otherwise V.C. shall not be bound to contest any claim made against them under section 12, sub-section (1) of the said Act, except on the written

request of the contractor and upon his giving to V.C. full security for all costs for which V.C. might become liable in consequence of contesting such claim.

Labour

Clause 22 - No female labour shall be employed within the limits of cantonment

Labourers below the age of twelve years

Clause 23 - No labourer below the age of twelve year shall be employed on the work.

Fair Wage

Clause 24 - The contractor shall pay not less than fair wage to labourers engaged by him on the work.

Explanation :

(a) "Fair wage" means wage whether for time or piecework notified at the time of inviting tenders for the work and where such wages have not been so notified, the wages prescribed by the work Department for the division in which the work is done.

(b) The contractor shall notwithstanding the provisions of any contract to the contrary, cause to be paid a fair wage to labourers indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labours had been immediately employed by him.

(c) In respect of all labour directly or indirectly employed on the works for the performance of the contractor's part of this agreement, the contractor shall comply with or cause to be complied with the labour Act in force.

(d) The university Engineer shall have the right to deduct, from the moneys due to the contractors, any sum required or estimated to be required for making good the loss suffered by a workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers non-payment of wages or of deductions made from his or their wages, which are not justified by the terms of the contract or non-observance of the regulations.

(e) The contractor shall be primarily liable for all payments to be made under and for the observance of the regulation aforesaid without prejudice to his right to claim indemnity from his sub-contractors.

(f) The regulation aforesaid shall be deemed to be a part of the contract and any breach thereof shall be deemed to be a part of the of the contract and any breach thereof shall be deemed to be a breach of this contract.

Work Not to be Sublet

Clause 25 - The contract shall not be assigned or sublet without the written approval of the U.E. And if the contractor shall assign or sublet his contract, or attempt so to do, or become insolvent, or commence any insolvency proceedings or make any composition with his creditors, or attempt so to do, or if any bribe gratuity, gift, loan perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly be given, promised or offered by the contractor, or any of his servants or agents to any public officer or person in the employ of university 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 U.E. 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 V.C. and the same consequences shall ensue 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 performed under the contract.

Sum payable by way of compensation to be considered as reasonable compensation without reference to actual loss

Clause 26 - All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of V.C. without reference to the actual loss or damage sustained, and whether or not any damage shall have been sustained.

Changes in the constitution of firm

Clause 27 - In the case of a tender by partners any change in the constitution of the firm shall be forthwith notified by the contractor to the Engineer-in-charge, for his information.

Works to be under the direction of University Engineer

Clause 28 - All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the University Engineer for the time being who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

Disputes relating to specifications, designs etc.

Clause 29 - Except where otherwise specified in the contract the decision of the Registrar of University for time being shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs, drawings and instructions here in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever, in any way arising out of, or relating to the contract, design, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof, provided that the Registrar shall before giving the decision in the matter give an opportunity of being heard to the contractor.

Stores of European or American manufacture to be obtained from Government

Clause 30 - The contractor shall obtain from the stores of the Engineer-in-charge all stores and articles of European or American manufacture which may be required for the work or any part thereof or in making up articles required therefore or in connection there with unless he has obtained permission in writing from the Engineer in charge to obtain such stores and articles elsewhere. The value of such stores and articles as may be supplied to the contractor by the Engineer-in-charge will be debited to the contractor in his account at the rates shown in the schedule attached to the contract and if they are not entered in the schedule, they will be debited at cost price which, for the purposes of this contract, shall include the cost of carriage and all of

other expense whatsoever, which shall have been incurred in obtaining delivery of the same at the stores aforesaid.

Lump Sums in Estimates

Clause 31 - When the estimate on which a tender is made includes lump sums in respect of part of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of the work in question is not, in the opinion of the Engineer-in-charge, capable of measurement, the Engineer-in-charge, may at his discretion pay the lump sum amount entered in the estimate, and the certificate in writing of the Engineer-in-charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provision of this clause.

Action where no specification

Clause 32 - In the case of any class of work for which there is no such specification as is mentioned in rules, such work shall be carried out in accordance with the specification approved by University Engineer, for application to work in the district, and in the event of there being no such specification, then in such case the work shall be carried out in all respect in accordance with the instruction and requirements of the Engineer-in-charge.

Definition of work

Clause 33 - The expression "works" or "work" where used in these conditions, shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works or by virtue of the contract contracted to be executed, whether temporary or permanent, and whether original, altered, substituted, or additional.

Claim for quantities entered in the tender or estimate

Clause 34 - Quantities shown in the tender are approximate and no claim shall be entertained for quantities or work executed being either more or less than those entered in the tender or estimate.

Clause 35 - No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land, or in the case of clearance works, on account of any delay in according sanction to estimates. No compensation shall be allowed for any type escalation.

Employment of Scarcity Labour

Clause 36 - If Government declare a state of scarcity or famine to exist in any village situated within 16 km. 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 University Engineer or by any

person to whom the University Engineer may have delegated this duty in writing, to be in need of relief and shall be bound to pay such persons wages not below the minimum which Government may have fixed in this behalf. Any dispute which may arise in connection with the implementation of this clause shall be decided by the University Engineer whose decision shall be final binding on the contractor.

Refund of quarry fees and Royalties

Clause 37 - All quarry fees, royalties, octroi duties and ground rent for stacking materials, if any, should be paid by the contractor, and deduced from their RA bill as per rule who will, however be entitled to a refund, of such of the charges as are permissible under the rules on obtaining a certificate from the Engineer-in-charge that the materials were required for use of University work.

Breach of contract

Clause 38 - On the breach of any term of condition of this contract by the contractor the said University shall be entitled to forfeit the security deposit or the balance thereof, that may at that time be remaining, and to realise and retain the same as damages and compensation for the said breach but without prejudice to the right of the said University to recover any further sums as damages from any sums due or which may become due to the contractor by V.C. or otherwise whosever.

Note : - If there is any difference between the amount of words and figures written in the tender forms by the contractor the lesser amount will be treated as valid. If the contractor is not ready to accept the amount so fixed in the above manner and declines to do the work, earnest money deposit of the contractor shall be forfeited.

IN CASE OF VARIANCE THE FOLLOWING ORDER OF PRECEDENCE SHALL PREVAIL.

- i) Conditions of Tender Notice (as mentioned on Page no. 1 to 19)
- ii) Conditions of detail N.I.T. (as mentioned on Page no. 20 to 46)
- iii) Condition of Form B (as mentioned on Page no. 47 to 64)

NOTICE TO THE CONTRACTOR TO START WORK

Your contract for the **Construction of Extension Administrative Building at Jiwaji University, Gwalior** has been accepted by me/U.E./Registrar/V.C. on behalf of the Jiwaji University Gwalior.day of 200..... and you are hereby ordered to commence the work.

Registrar

The notice to the contractor (s) to start work from the day of 200..... was issued, vide this office memorandum No. dated the200

Registrar

Completion Certificate

In pursuance of clause 6 of the Agreement in form B dated the between the Contractor Shri and the Registrar of Jiwaji University, it is hereby certified that the said contractor has duly completed the execution of the work undertaken by him there under on the day of

Signature of contractor

Signature of Engineer-in-charge

Registrar

Schedule Showing (approximately) materials to be supplied by the Department under clause II and 30 for work contracted to be executed and the rates at which they are to be charged for.

Particulars (1)	Rates at which the material will be charged to the contractor (2)	Place of delivery (3)
No material provided by the department		

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

.....
Signature of the Contractor

.....
Signature of University Engineer

**DETAILS OF SCHEDULE OF QUANTITY AND COST FOR THE CONSTRUCTION OF PROPOSED BUILDING FOR EXAMINATION CENTER
AT JIWAJI UNIVERSITY, GWALIOR**

A - CIVIL WORK

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
1	Excavation in all types of soils for all types and sizes of foundations and drains including disposal of excavated stuff up to a lift up to 1.5m including dressing and leveling of pits and disposed stuff as directed by Engineer in charge.	4431	Cum			
2	Add extra for every additional lift of 1.5 M or part there of in soils. 1.5 M to 3M.	2007	Cum			
3	Filling available excavated earth (Excluding rock) in trenches, plinth sides of foundations etc. in layers not exceeding 20m in depth, consolidating each deposited layer by ramming and watering lead up to 50 m and lift up to 1.5m.	3863	Cum			
4	Providing and filling in plinth With sand/ crusher dust and hard moorum (as specified in drawing) under floor, including watering ramming, consolidation ,dressing and cost off all labour, materials, T&P etc. complete required for the work.	420	Cum			
5	Providing and laying mechanically mixed/ cement concrete with crushed stone aggregate excluding cost of centering and shuttering in foundation & plinth in M-7.5 [1:4:8(1cement: 4 sand :8graded stone aggregate 40mm nominal size) aprox .	608	Cum			
6	Providing and laying damp proof course 50m thick with concrete designation M-15 with 20mm nominal size graded stone aggregate (Crushed) mechanically mixed i/c formwork	20	Sqm			
7	Providing and laying mechanically mixed/ vibrated reinforced cement concrete excluding cost of centering and shuttering & reinforcement in foundations, plinth and in super structure up to 5th floor in M-20	2980	Cum			
8	Providing and placing in position cold twisted steel and hot rolled deformed steel reinforcement for R.C.C. work including cutting, bending, binding etc. complete as per drawings including cost of binding wire and including all wastage etc. complete.	372500	Kg			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
9	Hard drawn steel wire fabric	1050	Kg			
10	Applying cement slurry on R.C.C. slab or cement concrete work using 2.75 Kg/Sqm. for receiving cement concrete floor including roughening cleaning etc, complete	8589	Sqm			
11	Providing and fixing formwork i/c centering, shuttering strutting, staging, propping bracing etc. complete and including its removal for:					
	A) Foundations , footings, base of columns and plinth beam in any shape and size up to plinth level:	1611	Sqm			
12	Providing and fixing formwork i/c centering, shuttering staging, propping bracing etc. complete and including its removal up to 5th floor, all heights.					
	i) Rectangular beams, lintels,cantilevers, walls, horizontal & vertical fins.	6735	Sqm			
	ii) Columns- rectangular , square or circular in shape	3244	Sqm			
	iv) Stair cases of all types including risers & landings	169	Sqm			
	vi) folded plates	28	Sqm			
	viii) arches domes and likes up to 6M span	28	Sqm			
	ix) Suspended floors, roofs and balconies	7553	Sqm			
13	Brick work with well burnt chimney bricks in bulls patent trench kiln crushing strength not less then 25 kg/cm ² and water absorption not more than 20% in foundation and plinth.					
	d) Cement mortar 1:6 (1 cement:6 sand)	897	Cum			
14	Extra for brick work in superstructure above plinth level for every additional floor	1393	Cum			
15	Brick work, 10cm. thick with well burnt chimney bricks in bulls patent trench kiln manufactured by Ghol Process crushing strength not less then 40kg/cm ² and water absorption not more than 15% in superstructure up to 4m height above plinth level.					

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
	b) Cement Mortar 1:4 (1 cement : 4 sand)	633	Sqm			
16	Add extra for 10cm. thick brick work with hopping 25mm x 1.60mm or equivalent reinforcement at every third course embedded in cement mortar.	633	Sqm			
18	Moldings and cornices with brick masonry using bricks of crushing strength not less than 40kg/cm and water absorption not more than 15% in cement mortar 1:4(1cement :4sand) including cement plaster 15mm thick (1:4) 10cm. projected, 20cm. deep (40cm. girth) any floor	170	Mtr			
19	6mm cement plaster to ceiling of mix 1:4(1 cement 4sand)	7553	Sqm			
20	12mm thick cement plaster in mix 1:5 (1cement:5 sand)	6737	Sqm			
21	15mm cement plaster on the rough side of single or half brick wall in cement mortar 1:5 (1cement :5sand)	6737	Sqm			
22	20 mm thick plaster in C.M.1:5	28	Sqm			
23	Neat cement Punning	101	Sqm			
24	Providing sand faced texture plaster to concrete or brick masonry surface in all position in two coats, base coat of 13mm thick cement plaster in C.M. 1:4, cleaning the surface by combing it thoroughly and finishing coat of 8mm thick in C.M. of 1 cement :3sand & the surface taking out grains by mechanical arrangement cost of all material & labour all leads & lifts and scaffolding etc. complete	806	Sqm			
25	Cement concrete flooring with 1:2:4 concrete (1 cement: 2 Sand: 4 Graded stone aggregate 20mm nominal size) finished with H6 floating coat of neat cement i/c cost of glass strip of size 40x4mm for panels in flooring not exceeding 2.0Sqm area.					
	A) 40mmthick	1060	Sqm			
26	Cement plaster skirting up to 30 cm. height with cement mortar 1:3 (1cement: 3 sand) finished with a floating coat of neat cement including rounding of junction with floor.a.18mm thick in two layers of 12mmx6mm	275	Sqm			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
27	Providing and laying 6mm. To 7mm. Thick ceramic tiles in white or any shade, manufactured by M/s Spartic / M/s H and R Johnson / M/s Kajaria / Nitco / Orient. Or equivalent make in sizes as approved by the Engineer-inCharge for flooring or dado with & on a bed of 13mm thick cement mortar 1:4 including neat cement float filling joints with neat white cement or pigment of any required shade mixed with cement slurry, curing, cleaning etc. including cost of all material, T&P and labour etc. complete.	728	Sqm			
28	10mm thick Granite tiles work in C.M. 1:3 (1 cement : 3 sand) including pointing with cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the stone shade. i) Granite stone black.	248	Sqm			
29	Kota stone slabs/ cuddapah stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (Average) thick cement mortar 1:3 (1 cement: 3 sand) and jointed with gray cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the height of skirting/dado with a minimum length of 1.0 M)	553	Sqm			
30	Providing, laying and fixing 30mm thick kota stone slab flooring in pattern with other stones up to 10% as per architect on 20mm average thickness of cementmortar1:4 laid over and jointed with gray cement slurry mixed with pigment to match the shed of the slab including rubbing Grinding and polishing etc. complete. (Area of tiles to be over.3 Sqm and upto 0.50 Sqm)	6709	Sqm			
31	Add extra for nosing in steps and treads of kota stone slab	574	R. mtr.			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
32	<p>Providing and fixing 20mm thick jaisalmer stone flooring in any pattern over & including 20mm thick cement mortar bedding in C.M 1:6 including cement float and filling joints with white neat cement slurry mixed with pigment to match</p> <p>the shad of stone with all wastage of all material including grinding, finishing polishing and cleaning etc. complete. (edges and joints of stone are cut neatly so that thickness of joints to be not more than 1.50mm) and i/c charges of all machineries required for the work at all heights.</p>		6 Sqm			
33	<p>Providing and fixing in position collapsible steel shutters with vertical channels 20x45x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles i/c applying priming coat of red lead paint.</p>		32 Sqm			
34	<p>Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel section conforming to ISI038. 1968 and ISI1977:1969 without intermediate horizontal glazing bars joints mitered and welded with 16x3.15mm lugs 10 cm long embedded in cement concrete block 15x10x10 cms size of 1:3:6 cement concrete with 20mm graded metal of nominal size or with wooden plugs and screws or rawl plugs and screws, or with fixing clips or with bolts and nuts including providing and fixing of projecting hinges, handles, pegs, stays, rolling devices, locking arrangements, spring catch etc., as required complete and providing and fixing of 5mm thick glass panes with steel glazing clips special metal sash putty of approved make i/c applying a priming coat of steel primer red oxide zinc chromate etc. complete.</p>					
b)	Steel doors, windows & ventilators fixed.		62 Sqm			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
35	<p>Providing and fixing aluminum anodized partly fixed and partly openable door/window made out of extruded aluminum section conforming to IS 733, IS 1285 & IS 1868 with outer frame of size 63.50 mm x 38.1mm x 1.80mm weighing 1.148 Kg/M and shutter frame top and vertical style of aluminum standard section size 47.62x41.45x1.90mm weighing 0.976 Kg/M bottom and lock rail are made from aluminum section 101.60 mm x 44.4mm x 1.90mm weighing 1.64 Kg/M including jointing with extruded aluminum cleats, neoprene weather striping gasket, beveled edge beading, screws and 5mm thick float glass sheet of good quality and make including all fittings of superior quality</p> <p>(decorative type) such as door handles, tower bolts, hinges etc. complete and applying a coat of lacquer as per direction of Engineer in charge duly fixed in walls with 16mmx3.15mm lugs 10 cm long embedded in c.c. blocks 15x10x10 cm size in c.c. 1:3:6 or with wooden plug and screws or with rawl plugs and screws or with fixing clips or with bolts and nuts as required.</p>	269	Sqm			
36	<p>Providing and fixing aluminum anodized sliding window made out of extruded aluminum section conforming to IS 733, IS 1285 IS 1868 with outer frame size 63.50x38.10x1.80mm weighing 1.148 Kg/M and the track frame of 'H' section size 41.23mmx2.50mm weighing 0.639 Kg/M and shutter frame of aluminum Z-section size 41.50mmx29.29mmx1.50mm weighing 0.636 Kg/M neullian of Aluminum standard section</p> <p>63.27mm x40mmx 1.50mm weighing 0.933 Kg/M duly fixed with outer frame including ball bearing rollers of superior quality, guides locks, neoprene weather strips and 5mm thick float glass of good quality and make including all fittings of superior quality (decorative type) such as Door handles, tower bolts, hinges etc. complete including applying a coat of lacquer as per direction of Engineer-in-charge duly fixed in walls with 16x3.15mm lugs 10 cm long embedded in c.c. blocks 15x10x10 cm size in c.c. 1:3:6 or with bolts and nuts as required.</p>	417	Sqm			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
37	Steel work welded in built-up section, trusses and framed work i/c cutting, hoisting and fixing in position and applying a priming coat of red lead paint.					
	a) In Flat Iron, Tees, Angles, Channels and M.S. Square rectangular bars .	25760	Kg			
	b) In Flat Iron, and M.S. Square/ rectangular / holo pipes & sheets.	2450	Kg			
38	Steel work in single section i/c cutting, hosting, fixing in position and applying a priming coat of red lead paint.					
	b) In Flat Iron, Tees, Angles, Channels and M.S. Square/round bars.	350	Kg			
39	Providing & fixing flush door Shutters interior grade commercial type core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains or cross bands and face veneers on both faces of shutters i/c: M.S Butt hinge sand screws.					
	b) 35mm thick	416	Sqm			
40	Providing and fixing M.S. sliding door bolts bright finished Bright Polished nickle plated with nuts screws etc. complete.					
	b) 250x16mm	255	Each			
41	Providing and fixing M.S. Bright Polished nickle plated pull bolt lock with necessary nuts and screws complete 85x12mm.					
	a) 300x16x5mm	97	Each			
42	Providing and fixing M.S. tower bolts (Barrel type) Bright Polished nickle plated with necessary screws.					
	a) 300x10mm	326	Each			
	b) 250x10mm	326	Each			
43	Providing and fixing M.S. handle Bright Polished nickle plated with necessary screws complete.					
	a) 125mm	326	Each			
	b) 100mm	326	Each			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
44	Providing and fixing G.I. Pipe hand rail to wall i/c cutting chases and repairing the same to original condition (such as in ramps, stair cases) (b) 40mm dia (weighing 4.43Kg/m).	182	Rmt.			
45	Providing and laying 150mm thick average integral cement based water proofing treatment on roof terraces laying slurry coat consisting of neat cement admixed compound to penetrate into crevices and fill up the porosities in the slab surface.					
(i)	Laying a layer of well burnt brick bats in cement mortar 1:4 with required gradient.					
(ii)	After curing the brick bat layer for 3 days, providing a coat of cement slurry admixed with water proofing compound to fill in the joints and finishing the top smooth average 25mm thick layer of cement mortar 1:4 (1 cement: 4 fine sand) admixed with proprietary water proofing compound and making 300mmx300mm false square including extending the water proofing treatment upto 300mm height of parapet wall etc., where required and founding of joints between slabs & walls.					
(iii)	Proprietary water proofing compound shall conform to IS 2646-1976 and shall be admixed in the ratio as recommended by the specialist firm (Treatment to carry 10 years performance guarantee).	3856	Sqm			
46	Providing precast cement concrete jali 1:2:4(1cement: 2sand :4stone aggregate 6 mm nominal size)reinforced with 1.6mm dia mild steel wire including roughening cleaning fixing and finishing in cement mortar 1:3(1cement :3sand)etc.complete including plastering of jambs, sills and soffits.					
A)	40-50 mm Thick	45	Sqm			
47	White washing on new work (Three or more coats) to give an even shade. (a) With lime	7553	Sqm			
48	Finishing walls with water proofing cement paint of required shade on new work. (Three or more coats) to give an even shade	4742	Sqm			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
49	Distempering (Two or more coats) with oil bound washable distemper of required shade on new work over and including a priming coat with cement primer to give an even shade.	8732	Sqm			
50	Providing and applying Birla wallcare (or as approved by architect) putty base two coats i/c sand papering for making the surface smooth, suitable for applying vinyle/acrylic paint including the cost of labour and all materials of paint & putti etc. complete. b) Without cement primer	8732	Sqm			
51	Applying priming coat with ready mixed primer. a) On wood work	231	Sqm			
	b) On steel work	416	Sqm			
52	Painting (two or more coats) with enamel paint in any shade on new work to given an even shade.	647	Sqm			
53	Providing 50 x 15mm plastring drip and moulding to RCC chajja and balconies in 1:4 cement mortar.	1120	R.mtr.			
54	Providing and laying 27mm thick grit finish plaster in two coats under layer 15mm thick base coat plaster in cement mortar 1:4 (1 Cement : 4 Sand) finished rough top layer 12mm thick cement concrete 1:1 (1 Cement : 1 Marble and stone chips (any color) by weight, as desired by the Engineer-in-charge) of 5 to 8mm nominal size mixed and laid in 0.50x0.50m. panels of sunk bands of size 1 cm. x 1cm. (grooving) and brushing the surface to expose the aggregate including cement slurry curring scaffolding etc. complete.	1613	Sqm.			
55	12mm thick plain cement mortar band in cement mortar 1:4 (1 Cement : 4 Sand) Sunk Band/Raised Band	11200	Cm/M			
56	Add extra for lining over plaster to imitate stone or concrete block walling.	1400	Sqm.			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
57	Preconstruction curative cum preventive antitermite treatment to the building under construction by providing (i) surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @ 5.0 liters/ Sqm. (ii) Pumping the emulsion in plinth masonry on filling side at floorjunction @ 7.5 liters/Sqm. (iii) Pumping the emulsion from outer side of the plinth below ground around the masonry @ 5.0 liters/Sqm as per I.S. 8944 Emulsion. (1Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area).					
		3856	Sqm.			
58	30mm thick red sand stone shelves (chiesel dressed) supported on 40 x 40 x 6mm. "T" or angle iron brackets 0.75 M. apart fixed on 15x10x10 cm. blocks of cement concrete 1:3:6 (1 Cement : 3 Sand : 6 Stone aggregate 20 mm size nominal size)					
		4550	Sqm.			
59	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.					
		749	Sqm			
60	Providing and fixing factory made P.V.C. door frame manufactured by M/s Rajshri or equivalent of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.-					
		49	Sqm			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
52	Providing and fixing 30mm thick factory made PVC rigid foam panelled door shutters manufactured by M/s. Rajshri or equivalent made from M.S. tube of 19 gauge thickness, size 19x19mm for styles and 15x15mm for top and bottom rails, covered with heat moulded PVC "C" channel of 5mm thick sheet and 30x50mm wide to form styles and 5mm thick and 75mm wide PVC sheets for top rail, lock rail and bottom rail on either side and 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail and bottom rail, panelling of 5mm thick PVC sheet fitted in the M.S. frame welded/sealed to the styles and rails with 5x30mm PVC sheet beading on either side and joined together with solvent cement adhesive etc., complete as per manufacturers specification and direction of Engineer-in-Charge fixed to frames with 4 Nos. M.S. powder coated butt hinges (For W.C. and bathroom shutters)	49	Sqm			
61	P/F wooden door stopper swinging type of 35X35X100 with suitable hinges at mid height of door	193	Nos			
62	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with Armourcrete of M/s The Structural Water Proofing Company Pvt. Ltd. or Tapecrete of M/s CICO Engg. Service consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with Armourcrete or Tapecrete @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with Armourcrete or Tapecrete @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. / The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. Note: Rendering/plastering as protective layer, if required will be paid separately	470	Cum			
63	Providing and laying cement concrete upto floor two level in string or lacing courses, parapets, copings, bed blocks, anchor blocks, plain window sills and the like and finished smooth with 6 mm thick cement plaster 1:3 (1cement :3 sand) on exposed surfaces including cent-ring and shuttering etc: 1:2:4 (1cement :2sand :4graded stone aggregate 20mm nominal size)	14	Cum			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
64	Finishing walls with textured exterior paint ""Sandtex Matt"" of M/s Snowcem India Ltd., or equivalent of required shade New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint ""Snowcem Plus"" or equivalent applied @2.20kg/10 sq	315	Sqm			
65	Providing and applying minimum 2 mm thick acrylic based texture paint of aproved quality, pattern and shade on cement plastered / steel surfaces including the preperation of surface using aproprate putty, primer etc. on exteriors & interiors including 7 years performance guarantee against fading/ deformity/ fungal & algi growth etc. complete including scaffolding etc. (creating immitation of stone surface or as directed by the Architect)	3226	Sq.Mt.			
66	Providing and fixing & polishing stainless steel (304 grade) railing in pipes and bars in any shape and design including nut, bolts, and making arrangements for proper fixing etc. complete as per instructions of university engineer .	450	Kg			
67	Providing and laying for floor vitrified glazed tiles 600 mm.x 600mm. Size. Thickness not less than 10mm. Or as specified by the manufacturer. Of 1st quality such as JOHBSON MARBONITE/BELL MARBO GRANITE or make aproved by architect of any Color. Any texture and any shade land on 10mm./20mm. thick bed of cement mortar 1:4 (1 cement : 4 course sand equivalent in quality to Narmada sand and pointing the joints with cement and matching color pigment etc. complete.	120	Sqm			

Total =

Note :

1. Contractor should quote the rate with proper care so that quoted rates in any case should not be more than 25% of the actual costing of the item. If found so university reserve the right to revise those rates and contractor will have binding to accept those rates.
2. Work will have to be in confirmation of BIS / NBC / CPWD guidelines. In case contractor found to be violating the guidelines responsibility and subsequent consequences will be borne by the contractor.

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
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**DETAILS OF SCHEDULE OF QUANTITY AND COST FOR THE CONSTRUCTION OF PROPOSED EXAMINATION CENTER
AT JIWAJI UNIVERSITY, GWALIOR
(INTERNAL WATER SUPPLY SANITARY FITTINGS)**

C - Internal Water Supply & Sanitary Fittings

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
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1 Providing and fixing white vitreous china type water closet pedestal (European Type W.C. pans) with seat and lid with C.P. brass hinges and rubber buffers, 10.0 liters PVC flushing cistern with fittings and brackets, galvanized steel telescopic/PVC flush pipe with fittings and couplings, 20mm G.I. overflow pipe with specials off approved design complete including fittings, cutting and making good the walls and floors, where required. (hindware/cera/periware make.)

40 Nos

2 Providing and fixing white vitreous china water closet /squatting pan (Indian Type W.C. pans) size 580 mm with 100 mm sand cast iron "P" or "S" trap, 10.0 liters PVC flushing cistern with fittings and brackets, galvanized steel telescopic/PVC flush pipe with fittings and couplings, 20mm G.I. overflow pipe with specials off approved design complete including fittings, cutting and making good the walls and floors, where required. Orissa pattern W.C. pan. (Hindware/Cera/Periware make.)

a W.C. pan with white plastic seat and lid

24 Each

3 Providing and fixing white vitreous china ware wash basin with R.S. or C.I. brackets painted white 15 mm C.P. brass pillar taps and C.P. brass pillar taps and C.P. brass chain with rubber plubs, 32 mm C.P. brass waste of standard pattern 332 mm diameter C.P. brass trap and unions complete including cutting making good the walls where required. Flat back wash size 550x400 with 15 mm C.P. brass pillar 8 taps. (all of approved quality) make of Johnson/ Parryware/ Hindware.

24 Nos

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
4	Providing and fixing Kitchen sink with R.S.or C.I. brackets, C.P.brass chain with rubber plug 40 mm C.P. brass chain with rubber plug 40 mm C.P. brass trap with necessary unions complete including painting the fittings, cutting and making good the walls, where required. White vitreous china sink size, 600x450x250 mm.(9b/140).					
			1		Nos	
5	Providing and fixing white vitreous flat back or wall corner type lipped front, urinal basin of half stall size respectively with automatic flushing cistern with fittings R.S. or C.I. brackets standard size, galvan-ized steel flush pipe and spreaders with brass unions and G.I. clamps complete, including painting of cistern and fittings cutting and making good the walls and floors where required. (Make of Johnson/ Parryware/ Hindware)					
	i) One urinal basin with 5 lit. PVC automatic flushing cistern		6		Nos	
	ii) Three urinal basin with 10 lit. PVC automatic flushing cistern		18		Nos	
6	Providing and fixing 600x450 mm bevelled edge mirror of superior glass approved quality complete with 6 mm thick asbestos sheet ground fixing to wooden cleats ground fixing to wooden cleats with C.P. brass screws and washers.					
			24		Nos	
7	Providing and fixing C.P. brass towel rail complete with C.P. brass brackets fixed to wooden cleats with C.P. brass screws. 750 X 20mm size					
			6		Nos	
8	Providing and fixing liquid soap container with C.P. brass lid and brackets fixed to wooden cleats with C.P. brass screws. Plastic Container.					
			6		Nos	

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
9	Providing and fixing G.I. pipes (Medium grade) complete with G.I. fittings and clamps, including cutting and making good the walls etc. (for Internal work). including painting. 15mm Nominal Bore. (Make TT Swastik/TATA/Surya)					
		280	M			
	20 mm Nominal bore	490	M			
	25 mm Nominal bore	308	M			
	32 mm Nominal bore	224	M			
10	Providing and fixing G.I. Pipes (Medium grade) complete with G.I. fittings and clamps, including cutting and making good the walls etc. (for external work).& internal works including enamel painting. (Make TT Swastik/TATA/Surya)					
	ii) 20 mm dia	224	M			
	iii) 25 mm dia	336	M			
	iv) 40 mm dia	392	M			
	v) 50 mm dia	168	M			
11	Making connections of G.I. distribution branch with G.I. main 25 mm to 50 mm nominal bore by providing and fixing tee including cutting and threading the pipe etc. complete on existing line.					
		4	Nos			
12	Providing and fixing brass bib cock of approved quality.15 mm nominal bore not less then.4kg.					
		14	Nos			
13	Providing and fixing brass stop cock of approved quality.					
	15 mm nominal bore not less than 0.40 Kg.	28	Nos			
	20 mm nominal bore not less than 0.75 Kg.	14	Nos			
	25 mm nominal bore not less than 1.25 Kg.	6	Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
14	Providing and fixing brass full way valve with C.I. wheel, of approved quality.					
a)	20 mm Nominal bore		6 Nos			
b)	25 mm nominal bore.		6 Nos			
15	Providing and fixing square mouth S.W. gully trap gully trap grade "A" complete with C.I. garating brick masonry chamber with well burnt bricks crushing strenght not less than 25 kg/cm ² water absorption not move than 20% and water tight C.I.cover with frame of 300x300 mm size(inside) as per standard design including cement concrete 1:2:4 all-round and 1:5:10 in base.					
	125x100mm .-P or Q or S type.		28 No.			
16	Constructing brick masonry manholes with well burnt chimney bricks crushing strength not less than 25Kg/cm ² and water absorption not more than 20% R.C.C. in Cement mortar 1:5 (1Cement:5 sand) R.C.C. TOP SLAB WITH 1:2:4(1 Cement :4 sand: 8 graded Stone aggregate 40 mm nominal size) inside plastering 12 mm thick with Cement mortar 1:3 (1 Cement : 3 sand) finished with a floating coat of neat cement making channels in cement concrete 1:2:4 mix (1 Cement :2 sand 4 graded Stone aggregate 20 mm nominal size) neatly finished complete as per 2 standard design.					
(a)	Inside size 90x80 cm 45cm. deep including C.I. cover with frame light duty, 455x610mm internal dimensions total weight of cover and frame to be not less than 38kg, weight of cover 23kg and weight of frame 15kg.		7 Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
(c)	Inside size 120x90cm. and 90cm. deep including C.I. cover with frame medium duty, 500mm internal diameter total weight of cover and frame to be not less than 116kg, weight of cover 58kg and weight of frame 58kg.		4 Nos			
17	Providing mild steel foot rest including fixing and painting in man holes with 20x20x10 cm. Cement concrete blocks 1:3:6 1 Cement :3 sand : 6 blocks graded Stone aggregate 20 mm nominal size)as per standard design. With 20x20 mm rond bar. 25Nos 88.00/Each 2200.00 (13 a/154)		7 Nos			
18	Providing laying and jointing glazed Stone ware pipes grade A" with stiff mixture of Cement in the proportion of 1:1 (1 Cement :1 fine sand) including testing of joints etc. complete.					
	100 mm dia.		168 M.			
	150 mm dia.		140 M.			
19	Providing and fixing PVC - SWR pipes (6Kg. grade) soil, waste and vent pipes. ringfit or selfit type including necessary approved clamping etc. complete. (Confirming to IS: 13592) of make (Make Finolex, Supreme, Prince)					
a)	100 mm dia.		210 M.			
b)	75 mm dia.		140 M.			
20	Providing and fixing PVC - SWR (6Kg. grade) trap of self cleaning design with hinged grating of C.P. or approved type with or without ventarm complete. Including cost of cutting and making good the walls and floors. (Make Finolex, Supreme, Prince)					
	100mm inlet and 75mm outlet.		28 Nos			
	100mm inlet and 50mm outlet.		17 Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
21	Providing and fixing PVC - SWR (6Kg. grade) multi floor trap (with 3 additional openable inlets) of self cleaning design with hinged grating of C.P. or approved type with or without ventarm complete. Including cost of cutting and making good the walls and floors. (Make Finolex, Supreme, Prince)					
	110mm inlet and 75mm outlet.	28	Nos			
22	Providing and fixing PVC - SWR (6Kg. grade) P-trap of self cleaning design with or without hinged grating of C.P. or approved type with or without ventarm complete. Including cost of cutting and making good the walls and floors. (Make Finolex, Supreme, Prince)					
	100mm inlet and 100mm outlet.	14	Nos			
23	Providing and fixing PVC - SWR single equal Junction of required degree. (Make Finolex, Supreme, Prince)					
	100 X 100 X 100 mm.	25	Nos			
	75 X 75 X 75 mm	25	Nos			
24	Providing and fixing PVC - SWR plain bend of required degree. (Make Finolex, Supreme, Prince)					
	100 mm	28	Nos			
	75 mm	26	Nos			
25	Providing and fixing PVC - SWR senitory bend approved type. (Make Finolex, Supreme, Prince)					
	100 mm	28	Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
	75 mm		17 Nos			
26	Providing and fixing PVC - SWR single plain Junction of required degree with access. door,insertion of rubber washer etc. complete. (Make Finolex, Supreme, Prince)					
	100 X 100 X 100 mm		34 Nos			
	75 X 75 X 75 mm		22 Nos			
27	Providing and fixing PVC - SWR double unequal Junction of required degree with access. door,insertion of rubber washer etc. complete. (Make Finolex, Supreme, Prince)					
	100 X 100 X 75 X 75mm.		42 Nos			
	100 X 100 X 50 X 50mm.		30 Nos			
	75 X 75 X 50 X 50 mm		11 Nos			
28	Providing and fixing PVC - SWR single equal plain invert branch of required degree. (Make Finolex, Supreme, Prince)					
	100 X 100 X 100 mm.		28 Nos			
	75 X 75 X 75 mm.		25 Nos			
29	Providing and fixing PVC - SWR Collars. (Make Finolex, Supreme, Prince)					
	100 mm		62 Nos			
	75 mm		56 Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
30	Providing and fixing PVC - SWR offset. (Make Finolex, Supreme, Prince)					
	100 mm 100 mm projection	56	Nos			
	75 mm 100 mm projection	22	Nos			
31	Providing and fixing PVC - SWR vent Cows					
	100 mm	22	Nos			
	75 mm	17	Nos			
32	P/F best aproved quality SWR PVC pipe(HDPE) for rain water pipe with all necessary specials such as bend, collar, shoe, tee etc. with ringfit jointing and holder bat clamps if necessary complete. 100 mm dia.(6kg/sq cm) of make Finolex, Supreme, Prince					
	200 mm	340	M			
	100 mm	500	Nos			

Note :

- Contractor should quote the rate with proper care so that quoted rates in any case should not be more than 25% of the actual costing of the item. If found so university reserve the right to revise those rates and contractor will have binding to accept those rates.
- Work will have to be in confirmation of BIS / NBC / CPWD guidelines. In case contractor found to be violating the guidelines responsibility and subsequent consequences will be borne by the contractor.

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
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**DETAILS OF SCHEDULE OF QUANTITY AND COST FOR THE CONSTRUCTION OF PROPOSED EXAMINATION CENTER
AT JIWAJI UNIVERSITY, GWALIOR
Estimate of Quantity & Cost of Internal Electric Installations**

B - Internal Electric Installation

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
1	Point wiring with 1.5 sq.mm. PVC insulated cable with copper conductor of ISI or equivalent in concealed rigid steel conduit of suitable size as required as per specification for:					
	A Light point /Exhaust fan point.					
	1 Short Point	254	Nos			
	2 Medium Point	634	Nos			
	3 Long Point	380	Nos			
	B Ceiling Fan point.					
	1 Short Point	170	Nos			
	2 Medium Point	422	Nos			
	3 Long Point	254	Nos			
	C Call bell/buzzer Point					
	1 Medium Point	8	Nos			
	2 Long Point	8	Nos			
2	Point Wiring for 3 pin 5 amp socket out let with 2.5 sqm. PVC insulated cable with copper conductor ISI or equivalent in concealed rigid steel conduit of suitable size with required materials as per specification.					
	A On Same Board	1048	Nos			
	B On Separate Board					
	1 Short Point	148	Nos			
	2 Medium Point	106	Nos			
	3 Long Point	64	Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
3	Wiring for circuit wiring with PVC insulated cable stranded or solid 2.5 sq.mm. copper conductor ISI or equivalent in concealed rigid steel conduit of suitable size as required					
	1 2x4.0 Sqmm. size copper conductor	4914	M			
	2 4x4.0 Sqmm. copper conductor	3024	M			
	3 2x6.0 Sqmm. size copper conductor	3405	M			
	4 4x6.0 Sqmm. size copper conductor	1890	M			
4	Point wiring for 3 pin 15amp socket outlet point with 4 sq.mm. PVC insulated cable with copper conductor 15 amp.PB switch etc. of ISI marked in suitable size rigid steel conduit including 6 sqm. GI earth continuity conductor in concealed conduit wiring system as per specification					
	A One separate Board					
	1 Short Point	23	Nos			
	2 Medium Point	35	Nos			
	3 Long Point	31	Nos			
	4 Extra Long I Point	16	Nos			
	5 Extra Long II Point	8	Nos			
	6 Extra Long III Point with 6 sqmm	8	Nos			
5	Wiring for sub mains with PVC insulated cable with solid/stranded copper conductor ISI or equivalent in recessed concealed rigid steel conduit of suitable size including connection etc. as required as per specification.					
	A 2 wire sub mains					
	1 2x6 Sqmm copper wire	1618	M			
	2 2x16 Sqmm copper wire	1058	M			
6	Supply and Laying of under ground cable armoured as per specification in air with approved type of iron clamps complete					
	3-1/2 core cable 100 mmsq	378	M			
	3-1/2 core cable 50 mmsq	284	M			
	3-1/2 core cable 35 mmsq	189	M			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
7	Supplying and installation GI pipe for protection of under ground cable fixed on wall support in trench/fixed with beam or existing rigid support for fan, protection of earthing/lightening conductor, down strip/over head service line etc. with necessary iron work complete excluding cost of excavation and dismantling and other masonry etc					
	A For "B" class pipe ISI marked					
	1 19.0 mm dia. Pipe	170	M			
	2 50.0 mm dia. Pipe	94	M			
8	Fixing of house service meter on suitable size of T.W., board with necessary materials connection and testing etc. complete as per specification					
	A Three phase meter	1	Nos			
9	Supplying and fixing as per specification brass batton Kay/Dewas holder/angle holder of approved make with necessary materials complete heavy gauge	265	Nos			
10	Supplying and fixing as per specification bulk head fittings of approved make suitable for 100 watt lamp with necessary materials complete					
	A Ordinary type	95	Nos			
11	Supplying and fixing as per specification call bell/buzzer of approved make with necessary materials complete					
	A 230 Volts AC deluxe/Ding Dog musical	19	Nos			
12	Supplying and fixing as per specification socket outlets of approved make with necessary materials complete					
	1 5 Amp, 250 volts 3 pins piano type ISI marked	114	Nos			
	2 15 Amp, 250 volts 3 pins piano type ISI marked	114	Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
13	Earthing with copper earth plate 600x600x6 mm thick including accessories and providing masonry enclosures and G.I. watering pipe 20 mm dia. 2.7 m long etc. including salt and charcoal/coke as per required including excavation and refilling					
			16 Nos			
14	Providing and laying earth continuity conductor including fixing with copper clamps and necessary materials as per specification along the run of conduit					
	A copper earth continuity conductor					
	1 1x10 Sqm mm.		1890 Mt.			
15	Providing and laying earth continuity conductor of 4 sq. mm. aluminium along the run of final sub circuit in PVC conduit in an approved manner					
			9450 Mts.			
16	18 Earth work in all soils except soft rock /hard rock including all lead and .5m.lifts with dressing/staking etc. as required and refilling of excavated soil in trench pit to ground level					
			16 Cum			
17	Supplying of angle / channel flat iron head lines such as cross arms, clamps brackets etc. including bolts and nuts required holes welding and other necessary materials as per specification					
			330 Kg			
18	Collection and filling of sand in the excavated trench/ pit complete with dressing (for laying under ground cable)					
			80 cum			
19	Supplying and laying of 2nd class TM chimney burnt brick for protection of cable directly laid in prepared trench					
			8505 Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
20	supplying of ISI marked and accepted standard double door of moulded case circuit breaker (MCCB) suitable for 3 phase 3 pole 50 HZM, 415 volts AC supply with respective AC interrupting capacity (K.A.) at 415 volts cited against their range standered confirming to IS- 8828 of make Havells/MDS/					
	A MCCB with AC interrupting capacity KA 25 at 415 volts. TPN					
	i Rated current setting 10 to 100 Amps		8 Nos			
	ii Rated current setting 100 to 225 Amps		8 Nos			
21	Supplying and installing of current operated earth leakage circuit breaker (ELECT-MCB) combination of ISI marked for protection against shock, fire etc.complete as per IS standard confirming to IS 8828 including enclosure connection on T.W. board of size 200 X 250 mm as per specification					
	A 4 pole 415 / 500 v.50 cycles 30 M. sensivity (ELCB-MCS)					
	1 100 Amp		16 Nos			
22	supplying ISI marked of accepted standard miniature circuit breakers suitable for 240/415 Volts 50 cycles (7.5 to KA value) AC supply but without enclosures					
	A Single pole and neutral					
	1 SPN 6 to 32 Amps		23 Nos			
	2 SPN of 40 Amp		23 Nos			
	B Single pole 6 to 32 Amp		227 Nos			
23	Supply of approved make accepted standard sheet steel enclosure (dust protected) powder painted distribution board sleek consumer unit (double door) type inclusive of bus-bar and neutral bar, earth bar and 80 Amp. rating isolator etc. complete as per specification (exclusive of MCB) of make Havells/MDS/					
	A Single phase and neutral LB enclosure with 40 Amps.isolator for					
	1 9 to 12Nos MCBS		6 Nos			

S. No.	Item	Quantity	Unit	Rate in Figures	Rate in Word	Amount
	B For three phase DB with 80 to 100 amp rating isolator for single phase/ three phase outgoing MCB					
	1 9 to 12Nos MCB per pole		6 Nos			
24	Labour charges for fixing sheet steel enclosures MC, SLB surface mounting type as per accepted practice on 25X5mm flat iron clamp duty exided on watt cable connection etc. complete					
	1 100 Amp TP or TPN or 100 Amp charges over switch/100 Amp 415 isolators		38 Nos			
	2 MCB enclosures of 5 to 8 nos		38 Nos			
	3 MCB / Isolators Sp/Dp in sheet steel enclosures i/c cable connection.		38 Nos			

Note :

- Contractor should quote the rate with proper care so that quoted rates in any case should not be more than 25% of the actual costing of the item. If found so university reserve the right to revise those rates and contractor will have binding to accept those rates.
- Work will have to be in confirmation of BIS / NBC / CPWD guidelines. In case contractor found to be violating the guidelines responsibility and subsequent consequences will be borne by the contractor.