



गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)
(A Central University established by the Central Universities Act, 2009)
Phone 07752-260207, fax 07752-260154 Website www.ggu.ac.in

Tender Notice No 01/Engg./2016,

Dt 08/08/2016

TENDER-FORM

निविदा प्रपत्र

कार्य का नाम – शैक्षणिक भवनों में स्पेशल मरम्मत एवं
लघु निर्माण कार्य।

कार्य की लागत– रु. 25.00 लाख

अमानत राशि – रु. 50,000/-

कार्य की अवधि– 05 माह

Name Of Contractor

Due date of receipt of Tender 23/08/2016

Up to 4.00 p.m.

(Only by Registered post/speed post)

Cost of Tender Form

Rs.3,000/-

(कृपया निविदाकर्ता प्रत्येक पृष्ठ पर सील लगावें एवं हस्ताक्षर करें)



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CERTIFICATE OF TENDER FORM

It is hereby certified that:

- 01- This tender form contains **75** of pages from s. no. 01 to 75 including this page.
- 02- The last date 19/08/2016 & time up to 6.00 pm for issue of the tender form to the eligible contractor according to notification 01/ Engineering/2016/dated 08/08/2016 of this tender form.
- 03- Sealed tenders should reach the office chamber of the under signed latest by 4.00 P.M. on 23/08/2016 and shall be opened on the same working day at 5.00 p.m.
- 04- No word /sentence is being corrected/inserted, omitted or overwritten in this tender documents.

UNIVERSITY ENGINEER(I/c)
Guru Ghasidas Vishwavidyalaya
Bilaspur (C.G.)

REGISTRAR (Acting)
Guru Ghasidas Vishwavidyalaya
Bilaspur (C.G.)



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निविदा सूचना

गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.) GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)				
NOTICE INVITING TENDER				
गुरु घासीदास विश्वविद्यालय (केन्द्रीय) बिलासपुर (छ0ग0) की ओर से निविदा क्रमांक 01/यॉंत्रिकी/निविदा/2016 दिनांक 08/08/2016 के माध्यम से निम्नलिखित कार्य हेतु दिनांक 23/08/2016 को 4.00 बजे तक रजिस्टर्ड/स्पीडपोस्ट के माध्यम से मुहरबंद निविदा आमंत्रित की जाती है। निविदा दिनांक 23/08/2016 को सायं 5.00 बजे प्रशासनिक भवन सभागार में खोली जावेगी।				
क्र	कार्य का नाम	ठेके की अनु. राशि	अमानत राशि	समय अवधि
01	स्पेशल लघु एवं रिपेयर कार्य— A) In Residential campus B) In Academic Buildings	(Rs.) 25.00 lakhs 25.00 lakhs	(Rs.) 50,000/- 50,000/-	05 Months 05 Months
The Tender forms & other details can be seen & Downloaded From the website www.ggu.ac.in				
आदेशानुसार कुलसचिव (कार्यवाहक)				



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निविदा आमंत्रण सूचना

NOTICE INVITING TENDER

Percentage rate tenders are invited on behalf of the Registrar, G.G.V.Bilaspur from the approved and eligible contractors of CPWD and those of approved list of BSNL, M.E.S., Railways and C.G.State P.W.D. and other PSUs under Govt Of India for the workOf : **शैक्षणिक परिसर में स्पेशल मरम्मत एवं लघु निर्माण कार्य।**

टेकेदारों का पंजीकरण निविदाओं की बिक्री की अंतिम तिथि को वैध होना चाहिए । यदि केवल निविदाओं की बिक्री की अंतिम तिथि बढ़ायी जाती है, तो टेकेदार का पंजीकरण निविदाओं की बिक्री की मूल तिथि को वैध होना चाहिए। यदि आवेदन प्राप्त की अंतिम तिथि एवं निविदाओं की बिक्री की तिथि, दोनों बढ़ायी जाती है, तो टेकेदार का पंजीकरण दोनों तिथियों में से कोई यानी निविदाओं की बिक्री की मूल तिथि या निविदाओं की बिक्री की बढ़ायी गई तिथि, को वैध होना चाहिए ।

The enlistment of contractors should be valid on the last date of sale of tender. In case only the last date of sale of tender is extended, the enlistment of contractor should be valid on the original date of sale of tenders. In case both the last date of receipt of application and sale of tenders are extended, the enlistment of contractor should be valid on either of the two dates i.e. original date of sale of tender or on the extended date of sale of tenders.

- 1.1 कार्य की अनुमानित लागत रु. 25.00 लाख है तथापि, यह अनुमानित लागत मोटे तौर पर एक मार्ग निर्देश मात्र है।

The work is estimated to cost Rs.25.00 lakhs this estimate, however, is given merely as a rough guide.

- 1.1.1 मिश्रित लागत वाली निविदा आमंत्रण सूचना को अनुमोदित करने वाला तथा मुख्य डिसिप्लिन का सक्षम प्राधिकारी, निविदाएं मंगवाने के लिए निविदा आमंत्रण सूचना का समेकन करेगा और वह उस यॉत्रिकी को भी नामित करेगा जो निविदाएं आमंत्रित करने से संबंधित सभी मामलों को डील करेगा। मिश्रित निविदा के मिश्रित अनुमान की लागत को दर्शाने के साथ-साथ प्रत्येक घटक की अलग-अलग अनुमानित लागत का उल्लेख भी किया जाए । निविदादाता की पात्रता, विभिन्न घटकों की लागत को मिलाकर मिश्रित अनुमानित लागत के अनुरूप होगी ।

The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the tenders. He will also



nominate Engg section which will deal with all matters relating to the invitation of tenders.

For composite tender, besides indicating the combined estimated cost put to tender, should clearly indicate the estimated cost of each component separately. The eligibility of tenderer will correspond to the combined estimated cost of different components put to tender.

- 1.2 Tender will be issued to eligible CPWD registered contractors. Non CPWD registered contractors and CPWD contractor registered in class II and PSU's under Govt. of India shall also be eligible provided they produce definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

three similar works each of value not less than **40% of estimated cost** or two similar works each of value not less than **50% of estimated cost** or one similar work of value not less than **80% of estimated cost** in the period of last seven years ending 31.03.2016 (Similar work' means 'Building repair & maintenance works with RCC framed structure with on without electrical works). The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of receipt of applications for tender.

2. सफल निविदाकारो के साथ, निर्धारित निविदाकार उक्त प्रपत्र जो करार का हिस्सा होगा, निविदाकार उक्त प्रपत्र जो करार का हिस्सा होगा के विभिन्न निबंधन एवंशर्तों के अनुसार अपनी दरें बतायेगा।

Agreement shall be drawn with the successful tenderer on standard form. Tenderer shall quote his rates as per various terms and conditions of the said form, which will be part of agreement.

3. दर की वैधता अनुबंध की तिथि से **18 माह** के लिये होगी।

validity of rate is for 18 months from date of agreement.

4. कार्य हेतु कार्य स्थल उपलब्ध है।

The site for the work is available.

अथवा Or

Seal & Signature of Contractor (Page 5 of 75)



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कार्य हेतु कार्यस्थल नीचे लिखे अनुसार भागों में उपलब्ध करा दिया जाएगा :-

The site for the work shall be made available in parts as specified below:-#

5. प्रपत्र जारी करने हेतु आवेदन दिनांक 19/08/16 (शाम 6.00 बजे तक) प्राप्त किए जाएंगे तथा निविदा दस्तावेज दिनांक 09/08/16 to 19/08/16 तक जारी किए जाएंगे। विष्वविद्यालय की वेब साइट से फार्म प्राप्त करने के लिये कोई अंतिम तिथि नहीं है, किन्तु भरे हुए टेंडर फार्म निर्धारित अवधि में निर्धारित शर्त अनुसार स्पीड/पंजीकृत डाक से विष्वविद्यालय में पहुँच जाना चाहिए।

Applications for issue of forms shall be received by 19/08/16 (6.00 PM) and tender documents shall be issued from 09/08/16 to 19/08/16 There is no last date for downloading the tender form from University website www.ggu.ac.in, but filled tender form should be reached in the University within stipulated time with terms by speed/registered post only.

6. रेखांक, विनिर्देश, कार्य के विभिन्न वर्गों के लिए मात्राओं की अनुसूची के सहित निविदा कागजात एवं ठेके की शर्तों का सेट जिनका उस ठेकेदार द्वारा अनुपालन किया जाना है, जिसकी निविदा स्वीकृत हो जाए तथा अन्य आवश्यक कागजात 09/08/16 से 19/08/16 तक रविवार एवं सार्वजनिक छुट्टियों को छोड़कर, प्रतिदिन कार्यालयीन दिवस के बीच विष्वविद्यालय, बिलासपुर के कार्यालय में देखे जा सकते हैं। मानक प्रपत्र को छोड़कर, निविदा कागजात उक्त कार्यालय से ऊपर निर्दिष्ट समय के दौरान निविदा की लागत के तौर पर रु. 3000/- की डी.डी. से भुगतान कर प्राप्त किए जा सकेंगे। वेबसाइट से डाउनलोड कर टेंडर भरने वाले ठेकेदारों को टेंडर फार्म की कीमत रुपये 3000/- DD के रूप में अर्नेस्टमनी (Earnest Money) वाले लिफाफा के साथ जमा करना होगा।

Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the University Engineer, Guru Ghasidas Vishwavidyalaya, Bilaspur(C.G.) between working hours (9.30am. to 6.00pm.) from 06/08/16 to 12/08/16 everyday except on Saturday/Sundays and Public Holidays. Tender documents, excluding standard form, will be issued from the office, during the hours specified above, on payment of Rs. 3000/-by draft as cost of Tender. **The contractor/firms who received tender form from downloaded the website, they shall be paid cost of tender form Rs. 3000/- in the form of demand draft with envelope of Earnest money.**

The tender and the earnest money shall be placed in separate sealed envelopes each mark “Tender” and “Earnest Money” respectively.

7. The contractor, whose tender is accepted, **will be required to furnish performance guarantee of 5% (five percent)** of the tendered amount within the period specified in

Seal & Signature of Contractor (Page 6 of 75)



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schedule 'F'. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at call receipt of any scheduled Bank / Banker's cheque of any scheduled Bank / Demand Draft of any scheduled Bank / Pay order of any scheduled bank (in case guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule "F" including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

8. कार्य का व्यौरा इस प्रकार है ।

The description of the work is as follows: : **शैक्षणिक परिसर में स्पेसल मरम्मत एवं लघु निर्माण कार्य ।**

निविदाकारों द्वारा जॉच के लिए कार्यों से संबंधित अन्य नक्शों तथा कागजातों की प्रतियां उपर्युक्त अधिकारी के कार्यालय में खुली रहेगी

Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the above mentioned officer.

निविदाकारों को सलाह दी जाती है कि वे निविदा प्रस्तुत करने के पहले कार्यस्थल एवं उसके आस पास की जगह, जमीन की प्रकृति एवं अनमृदा (जहां तक व्यवहार्य हो), कार्य स्थल का रूप एवं प्रकृति, कार्य स्थल तक पहुंचने के साधन, स्थान जो उन्हें चाहिए उसका निरीक्षण व जॉच करलें तथा जोखिम, आकस्मिकता एवं अन्य परिस्थितियों से, जो निविदा को प्रभावित कर सकती है, संबंधित आवश्यक जानकारी स्वयं प्राप्त कर, संतुष्ट हो ले। यह माना जायेगा कि निविदाकार को कार्यस्थल के बारे में पूरी जानकारी है, चाहे उसने इसका निरीक्षण किया हो या नहीं, तथा बाद में किसी भ्रॉति या अन्य बातों के लिए कोई अतिरिक्त प्रभार अनुमत नहीं होगा। कार्य निष्पादन हेतु सभी प्रकार की सामग्री, औजार एवं संयंत्र, जल, बिजली लाने के साधन, कामगारों के लिए सुविधाएं तथा अन्य अपेक्षित सेवाओं का प्रबन्ध करने तथा उनके रख रखाव का उत्तरदायित्व स्वयं निविदाकार का होगा, जब तक अन्यथा विशेष रूप से करार में इसका उल्लेख न किया गया हो। निविदाकार द्वारा निविदा प्रस्तुत करना यह सूचित करता है कि उसने इस सूचना एवं अन्य सभी करार-दस्तावेजों को पढ़ लिया है तथा उसे किए जाने वाले कार्य का अभिप्राय एवं विनिर्देशों, षर्तों व दरें जिन पर सरकार द्वारा उन्हें सामान, औजार एवं संयंत्र आदि दिए जाएंगे तथा स्थानीय स्थितियां और अन्य कारक जो कार्य में निष्पादन पर प्रभाव डालें, के बारे में पूरी जानकारी है ।

Seal & Signature of Contractor (Page 7 of 75)



Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant. etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

9. विष्वविद्यालय न्यूनतम या किसी अन्य निविदा को स्वीकार करने के लिए अपने आप को आबद्ध करता है और प्राप्त हुए किसी भी निविदा या सभी निविदाओं को बिना कारण बताए अस्वीकार करने का अधिकार अपने पास सुरक्षित रखता है । ऐसी सभी निविदाओं को जिनमें विहित शर्तें पूरी नहीं की गई हों अथवा निविदाकार द्वारा सशर्त छूट दिए जाने सहित किसी शर्त को रखा गया हो, अस्वीकार कर दिया जाएगा ।
The GGV does not bind itself to accept the lowest or any other tender, and reserves to itself the authority to reject any or all of the tenders received without the assignment of any reason. All tenders, in which any of the prescribed conditions are not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected”.
10. निविदाओं के मामले में किसी भी प्रकार के प्रत्यक्ष या अप्रत्यक्ष प्रेरण का पूर्णतया निषेध है तथा उन ठेकेदारों की निविदाएं, जो प्रेरण का सहारा लेंगे, अस्वीकार कर दी जाएंगी ।



Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

11. विष्वविद्यालय पूरी निविदा या उसके किसी भाग को स्वीकार करने का अधिकार अपने पास सुरक्षित रखते हैं तथा निविदाकार, कथित दर पर निष्पादन के लिए बाध्य होगा।

The GGV on behalf of the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

12. ठेकेदार को विष्वविद्यालय में, (उद्यान / नर्सरी कैटेगरी के ठेकेदारों के लिये) जो ठेके देने और उसके निष्पादन के लिए उत्तरदायी है। जिसमें उसका नजदीकी रिश्तेदार विष्वविद्यालय में किसी भी हैसियत के अधिकारी के रूप में तैनात हो, कार्यों के लिए निविदा देने की आज्ञा नहीं होगी। यह उन व्यक्तियों के नामों को भी सूची देगा जो किसी भी हैसियत में उसके साथ कार्य कर रहे हों या जिन्हे उसके द्वारा बाद में भर्ती किया गया हो तथा जो विष्वविद्यालय में कार्यरत किसी राजपत्रित अधिकारी के नजदीकी रिश्तेदार हो। यदि ठेकेदार इस शर्त को भंग करेगा तो उसका नाम इस विभाग की ठेकेदारों की अनुमोदित सूची से हटा दिया जाएगा।

The contractor shall not be permitted to tender for works in the University (in case of contractor of Horticulture / Nursery category) responsible for award and execution of contracts in which his near relative is posted as an officer in the University. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the University. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

13. भारत सरकार के किसी इंजीनियरी विभाग में इंजीनियरी या प्रशासनिक कार्यों में लगे हुए राजपत्रित रैंक के किसी इंजीनियर को या किसी अन्य राजपत्रित अधिकारी को सरकारी नौकरी से सेवा मुक्त होने पर एक साल तक, भारत सरकार की पूर्व लिखित अनुमति बिना ठेकेदार की हैसियत से काम करने की अनुमति नहीं है। यदि किसी समय यह पाया गया कि ठेकेदार या उनका कोई कर्मचारी, ऐसा व्यक्ति है जिसने निविदा प्रस्तुत करने से पहले या ठेकेदार की सेवा में लगने के पहले भारत सरकार से अनुमति नहीं ली थी, तो यह ठेका रद्द किया जा सकता है।

No Engineer of gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of



India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. The contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.

14. कार्यों के लिए निविदा, निविदाओं के जमा होने की अंतिम तारीख से 90 दिन तक स्वीकृति हेतु खुली रहेगी। यदि निविदाकार उक्त अवधि के पहले या स्वीकृति पत्र जारी होने के पहले, जो भी पहले हो, से पहले अपनी निविदा वापिस ले लेता है या निविदा की शर्तों और निबंधनों में कोई संशोधन करता है जो विभाग को स्वीकार्य नहीं है, तो विश्वविद्यालय किसी अन्य अधिकार या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना ऊपर किए गए उल्लेख के अनुसार उक्त धरोहर राशि का 50 का प्रतिशत जब्त करने के लिए स्वतंत्र होगी। इसके अतिरिक्त, निविदाकार को पुनः निविदा प्रक्रिया में भाग लेने की अनुमति नहीं दी जाएगी।

The tender for the works shall remain open for acceptance for a period of Ninety days from the date of opening of Tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance which ever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the University shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further, the tenderer shall not be allowed to participate in the retendering process of the work.

15. यह निविदा आमंत्रण सूचना, करार दस्तावेज का एक हिस्सा होगी। सफल निविदाकार/ठेकेदार, स्वीकरकर्ता प्राधिकारी द्वारा निविदा स्वीकार किए जाने के बाद कार्य प्रारम्भ किए जाने की निर्धारित तिथि से 15 दिनों के भीतर निम्नलिखित को शामिल करते हुए संविदा पर हस्ताक्षर करेगा:-

This Notice inviting tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall within 15 days from the stipulated date of start of the work sign the contract consisting of :-



क) निविदा आमंत्रण सूचना, अतिरिक्त शर्तों सहित सभी कागजात, विनिर्देश एवं नक्शे, यदि कोई हों, जो निविदा आमंत्रण के समय निविदा के रूप में जारी किए गए हों तथा इस बारे में किए गए किसी पत्राचार सहित इसकी स्वीकृति।

a) The notice inviting tender, all the documents including Particular specifications & special conditions and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

ख) मानक प्रपत्र लागू होगा।

Standard format will be applicable.

मिश्रित संविदाओं के लिए

For Composite Tenders

16.1.1: The tender document will include following three components:

Part A :- NIT including schedule A to F for major component of the work, Standard General Conditions of Contract for CPWD 2008 or latest edition as applicable with all amendments / modifications.

Part B:- General/specific conditions, specifications and schedule of quantities applicable to major component of the work.

16.1.2 : The tenderer must associate with himself, agencies of the appropriate class eligible to tender for the minor components individually.

16.1.3 : The eligible tenderers shall quote rates for all items of major component as well as for all items of minor components of work. It will be obligatory on the part of the tenderer to sign the tender document for all the components (The schedule of quantities, conditions and special conditions etc.) in appropriate page % above/ at per/below of SOR.

16.1.4 : After acceptance of the tender by competent authority, the Registrar GGV shall issue on behalf of Vishwavidyalaya.

16.1.5: Entire work under the scope of composite tender including major and all minor components shall be executed under one agreement.



- 16.1.6 : Security Deposit will be worked out for estimated cost. The Earnest Money will become part of the security deposit of the major component of work.
- (a) DSR-2014 for civil
- (b) DSR-2014 for electrical
- 18 : **Deviation / Variation Extent and Pricing:** The Engineer Incharge shall have power (i) to make alteration in omissions from , addition to or substitutions for the original specification, drawings. Designs and instruction that may appear to him to be necessary or advisable during the progress of the work and (ii) to omit a part of the in case of non- availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the work in accordance with any instructions given to him in writing signed by the Engineer-in-charge and such originally. Omission. Addition or substitutions shall from part of the contractor as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified as part of the work, shall be carried out by the contractor on the same condition in all including price on which he agreed to do the main work except as hereafter provided.
- 18.1 The time for completion of the work shall, in the event of any deviations resulting in additional cost over the tendered value sum being order, be extended, if requested by contractor, as follows:
- i) In the proportion which the addition cost of the altered, additional or substituted work , bear to the original tendered value plus.
- ii) 25% of the time calculate in (i) above or such further additional time as may be considered reasonable by the Engineer-in-charge.
- 18.2 Rate of such altered, additional or substituted work shall be determined by Engineer-in-charge as follows:
- i) In the rate for altered, additional or substituted item of work is specified in the schedule or rate , the contractor shall carry out the altered, addition or substituted item at the same rate. Accepted tender rate shall be applied for it.
- ii) If the rate for any altered, additional or substituted item of work is not specified



- in the schedule of rate, the rate for that items shall be derived from the rate the nearest similar item specified therein. Accepted tender shall be applicable for it.
- iii) If the rate for any altered, additional or substituted item of work cannot be determined in the manner specified in sub- paras (i) & (ii) above, the contractor shall within 15 days of the date of receipt of the order to carry out the said work, inform the Engineer-in-charge of the rate which he proposed to claim for such item of work, supported by analysis method thereafter, after giving due consideration to the rate claimed by contractor, determines the rate on the basis of market rates. In the event of the contractor failing to inform the Engineer-in-charge within the stipulated period of time, the rate which he proposed to claim, the rate which he proposed to claim, the rate for such item shall be determined by the Engineer-in-charge on the basis of **market rates. Tender percentage rate shall not be applicable on this determined rate. The university authority has right to accept finally the above said rates based on the rate analysis as given.**
- 19 विष्वविद्यालय द्वारा वि०वि० हित में निविदा में दी गई नियम व शर्त में आषिक संशोधन करने, एवं किसी नियम/शर्त को षिथिल करने का पूर्ण विषेषाधिकार विष्वविद्यालय के पास सुरक्षित रहेगा एवं निविदाकर्ता पर बंधनकारी रहेगा।
- 20 कार्य की गुणवत्ता (Quality)केन्द्रीय लोक निर्माण विभाग के स्पेषीफिकेशन अनुसार होगी।
21. वि०वि० के पास यह अधिकार सर्वथा सुरक्षित रहेगा कि निविदा में उल्लेखित किसी भी कार्य को संपादित करावे अथवा बिना कोई कारण बताये वि०वि० हित में ऐसे किसी भी कार्य को कराने से मना कर देवे। साथ ही वि०वि० के पास यह भी अधिकार सर्वथा सुरक्षित रहेगा कि निविदा में उल्लेखित किसी भी कार्य को बिना कोई कारण बताये कराने से मना कर देवे।
- 22 किसी भी विवाद की स्थिति में पहली अपील कुलसचिव, गुरु घासीदास विष्वविद्यालय बिलासपुर (छ.ग.) को विवाद उत्पन्न होने की तिथि के एक सप्ताह के अंदर तथा द्वितीय अपील दो सप्ताह के अंदर कुलपति महोदय, को किया जा सकेगा। माननीय कुलपति, गुरु घासीदास वि०वि०, बिलासपुर (छ०ग०), निर्णय हेतु प्रकरण को किसी भी आर्बीट्रेटर के पास भेज सकेगे (आर्बीट्रेषन एक्ट के अनुसार)। ऐसे प्रकरण में कुलपति जी के स्वयं का निर्णय या आरबीट्रेटर का निर्णय सर्वमान्य होगा।
- 23 न्यायालयीन विवाद की स्थिति में बिलासपुर (छ०ग०) न्यायालय का क्षेत्राधिकार ही मान्य होगा।



गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)
(A Central University established by the Central Universities Act, 2009)
Phone 07752-260207, fax 07752-260154 Website www.ggu.ac.in

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- 24 यदि निविदा में किसी प्रकार का जोड़ना/हटाना या भूल सुधार किया जाता है तो यह केवल वेबसाइट (www.ggu.ac.in) में upload किया जावेगा।
- 25 समय-समय पर सक्षम अधिकारियों से प्राप्त आदेशानुसार/स्वीकृति अनुसार विभिन्न निर्माण कार्य शेड्यूल के आधार पर संपादित किया जाना है। कार्य का समय निर्धारण तत्समय ही किया जावेगा।
- 26 शेड्यूल के आइटम्स में परिवर्तन एवं कार्यों की मात्रा में परिवर्तन (वृद्धि या कमी) किसी भी सीमा तक की जा सकती है।
- 27 निविदा प्रपत्र में उल्लेखित नियम एवं शर्तों के अतिरिक्त जरूरत पड़ने पर अन्य नियम एवं शर्तों के लिए CPWD Manual मान्य होगा।
- 28 किसी भी विवाद की स्थिति में विश्वविद्यालय प्राधिकृत का निर्णय ठेकेदार के लिए मान्य एवं बंधनकारी होगा।

Terms & conditions other than laid down in this tender form CPWD manual will be followed an and when required.

In case of any disputes the decision of the University authority shall be final and binding at the bidder.

उपयंत्री

विश्वविद्यालय यंत्री (प्रभारी)

कार्यों के लिए प्रतिषत दर निविदा

Percentage Rate Tender & Contract for Works

(A) कार्य के लिए निविदा :

Tender for the work of - : शैक्षणिक परिसर में स्पेशल मरम्मत एवं लघु निर्माण कार्य।

Seal & Signature of Contractor (Page 14 of 75)



गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
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(i) क) दिनांक **23/08/16** को 4.00 बजे तक **कुलसचिव**, गुरु घासीदास विश्वविद्यालय, बिलासपुर में प्रस्तुत की जानी है।

To be submitted by 4.00 pm hours on **23/08/16** to Registrar GGV.Bilaspur
(C.G.) (time) (date)

(ii) ख) उन निविदाकारों के समक्ष खोली जाएगी जो दिनांक **23/08/16** को 5.00 बजे **कुलसचिव कार्यालय**, प्रशासनिक भवन सभागार **गुरु घासीदास विश्वविद्यालय, बिलासपुर** के कार्यालय में उपस्थित रहेंगे।

To be opened in presence of tenderers who may be present at –5.00 pm- hours on
23/08/16 in the office of the Registrar,(conference hall) Guru Ghasidas
Vishwavidyalaya, Bilaspur (C.G.)

सेवा में प्रेषित Issued to : _____

(ठेकेदार)(Contractor)

कागजात जारी करने वाले अधिकारी के हस्ताक्षर :

Signature of officer issuing the documents _____ in _____ Designation
विश्वविद्यालय यंत्री, गुरु घासीदास विश्वविद्यालय, बिलासपुर

University Engineer Bilaspur

जारी करने की तारीख Date of Issue : _____

Registrar

GGV. Bilaspur (C.G.)

निविदा TENDER

मैंने/हमने कार्य के लिए निविदा आमंत्रण सूचना, अनुसूची क,ख,ग,घ, ङ, और च, लागू विनिर्देश, नक्शे एवं डिजाइन, सामान्य नियम एवं निर्देश ठेके के उपबंध, विषिष्ट शर्तें, दर अनुसूची एवं अन्य कागजात तथा ठेके की शर्तों में दिए गए नियम तथा निविदा कागजात में उल्लिखित अन्य बातों को पढ़ व जांच लिया है।



गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
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Dt 08/08/2016

I/We have read and examined the notice inviting tender, schedule, A,B,C,D,E & F, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

मैं/हम, एतत् द्वारा विश्वविद्यालय के लिए अनुसूची 'च' में विनिर्दिष्ट समय के भीतर विनिर्दिष्ट कार्य, यथा-मात्राओं की अनुसूची तथा सभी संबंधित विनिर्देशों, डिजाइनों, नक्शे के अनुरूप तथा सामान्य नियमावली के नियम-1 और ठेके की शर्तों के खंड-11 में उल्लिखित लिखित अनुदेशों एवं ऐसी सामग्रियों, जो प्रदान की जाती है और उसके संबंध में, ऐसी शर्तें जो लागू हों, के अनुरूप निष्पादन हेतु निविदा देता हूँ/देते हैं ।

I/We hereby tender for the execution of the work specified for the Vishwavidyalaya within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

हम निविदा को, इसके जमा होने की निर्धारित तारीख से 90 दिनों के लिए खुला रखा जाने के लिए सहमत हैं।

We agree to keep the tender open for Ninety (90) days from the due date of its opening.

₹. 50,000=00/-की धनराशि, धरोहर राशि के रूप में नकद/ ट्रेजरी चालान रसीद/अनुसूचित बैंक की मांग जमा रसीद/ अनुसूचित बैंक की सावधी जमा रसीद /अनुसूचित बैंक का डिमांड ड्राफ्ट/ अनुसूचित बैंक द्वारा जारी बैंक गारंटी के रूप में इसके साथ भेजी जा रही है। यदि मैं / हम निर्धारित निष्पादन गारंटी को निर्धारित समय अवधि में प्रस्तुत करने में असफल रहते हैं तो मैं/ हम यह मंजूर करते हैं कि गुरु घासीदास विश्वविद्यालय किसी अन्य अधिकार या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना उक्त धरोहर राशि जब्त करने के लिए पूर्णतया स्वतंत्र होंगे । इसके अलावा, यदि मैं/हम विनिर्दिष्ट कार्य प्रारंभ करने में असफल रहते हैं तो मैं/ हम यह मंजूर करते हैं कि गुरु घासीदास विश्वविद्यालय कानून में उपलब्ध किसी अन्य अधिकार या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना उक्त धरोहर राशि, तथा निष्पादन गारंटी जब्त करने के लिए पूर्णतया स्वतंत्र होंगे अन्यथा उक्त धरोहर राशि निविदा कागजात के अनुसार उसमें निहित शर्तों व निबंधनों के अनुसार कार्यों के निष्पादन एवं आदिष्ट विचलनों को अनुसूची 'च' में वर्णित प्रतिषत से अनधिक व निविदा प्रपत्र के खण्डों 12.2 व 12.3 में निहित प्रावधानों के अनुसार निषिद्ध की जाने वाली दरों पर उस सीमा से अधिक के विचलनों के करने के लिए उनके द्वारा प्रतिभूति-निपेक्ष के रूप में रोक ली जाएगी। इसके अतिरिक्त मैं/हम सहमत हैं कि बयाना राशि या बयाना राशि तथा उपर्युक्त निष्पादन गारंटी जब्त हो जाने के मामले में मुझे/हमें कार्य की पुनः निविदा प्रक्रिया में भाग लेने से रोक दिया जाएगा ।



गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)
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Phone 07752-260207, fax 07752-260154 Website www.ggu.ac.in

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Dt 08/08/2016

A sum of **Rs.50,000=00/-** is hereby forwarded in cash/receipt treasury challan / deposit at call receipt of scheduled bank / fixed deposit receipt of scheduled bank / demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money. If I/We fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said Guru Ghasidas Vishwavidyalaya shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that Guru Ghasidas Vishwavidyalaya shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/we agree that in case of forfeiture of earnest money or both earnest money and performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

मैं/हम एतत् द्वारा घोषणा करते हैं कि मैं/हम निविदा कागजातों, नक्शे और कार्य से संबंधित अन्य अभिलेखों को गुप्त/गोपनीय कागजात के रूप में रखेंगे और उनसे प्राप्त/ली गई जानकारी किसी अन्य को, जिन्हें मैं/हम सूचित करने के लिए प्राधिकृत हो, से भिन्न किसी को, नहीं बताएंगे या जानकारी को किसी ऐसे रूप में प्रयोग नहीं करेंगे जो राज्य की सुरक्षा के लिए प्रतिकूल हो।

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived therefrom to any person other than a person to whom I/We am/are authorised to communicate the same or use the information in any manner prejudicial to the safety of the State.

I/we have done myself/ourself fully satisfied to read & examine the notice inviting, general conditions and various clauses of contract, all annexures, specials conditions &



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specifications, applicable specifications, drawings, designs, applicable schedule of rates, descriptions, of the items of work, all the rules in respect of contract and all other contents in the tender documents and here by agreed for execution of the said specified work for the University Authority within the above time period in accordance with that at the rate (in figures).....

(in-ords).....

Percent below/at par/above of Delhi Schedule of Rates.

तारीख Dated.....

टेकेदार के हस्ताक्षर

Signature of Contractor

डाक का पता Postal Address

साक्षी Witness :

पता Address:

उपजीविका Occupation :

To be filled in by the contractor/witness as applicable

स्वीकृति

ACCEPTANCE

Seal & Signature of Contractor (Page 18 of 75)



गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
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मैं गुरु घासीदास विश्वविद्यालय, बिलासपुर की ओर से तथा उनके लिए रु.' (रूप
.....') की राशि के लिए उपर्युक्त निविदा (अधोलिखित पत्रों के
अनुसार परिवर्तित) स्वीकार करता हूँ।

The above tender (as modified by you as provided in the letters mentioned hereunder) is
accepted by me for and on behalf of the Registrar, GGV. Bilaspur for a sum of
Rs. _____

(Rupees _____)

नीचे दिए गए पत्र इस ठेका करार का हिस्सा होंगे।

The letters referred to below shall form part of this contract Agreement:-

a)

b)

c)

कुलसचिव(कार्यवाहक)

Registrar (Acting)

हस्ताक्षर Signature)

तारीख Dated

अनुसूचियां SCHEDULES

FOR MAJOR (CIVIL) COMPONENT

Seal & Signature of Contractor (Page 19 of 75)



गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
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अनुसूची 'क' SCHEDULE 'A'

मात्राओं की अनुसूची (संलग्न)

Schedule of quantities (Enclosed)

अनुसूची 'ख' SCHEDULE 'B'

ठेकेदार की निर्गत की जाने वाली सामग्रियों की अनुसूची

Schedule of materials to be issued to the contractor.

क्रम. सं. S.No.	विवरण Description of item	मात्रा Quantity	जिस दर पर सामग्रियां ठेकेदार को निर्गत होगी वह दर अंकों एवं पदों में Rates in figures & words at which the material will be charged to the contractor	निर्गत स्थान Place of Issue
1	2	3	4	5
----- NIL -----				

अनुसूची 'ग' SCHEDULE 'C'

ठेकेदार को भाड़े पर दिए जाने वाले औजार एवं संयंत्र

Tools and plants to be hired to the contractor

क्रम सं. Sl. No.	विवरण Description	भाड़ा प्रभार प्रतिदिन Hire charges per day	निर्गत स्थान Place of Issue
1	2	3	4
NIL			

अनुसूची 'घ' SCHEDULE 'D'

कार्य के लिए विशेष अपेक्षाएं/दस्तावेज, यदि कोई हों, की अतिरिक्त अनुसूची

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Extra schedule for specific requirements/documents for the work, if any.

-----Nil-----

अनुसूची (ड) SCHEDULE 'E'

मूल्य वृद्धि के लिए सीमेंट, इस्पात, अन्य सामग्री आदि के घटकों की अनुसूची

Schedule of component of other materials, Labour POL etc. for price escalation –

Note- No Escalation shall be given by GGV., Neither any claim for the escalation will be entertain.

Clause 10 CC --- This clause is not applicable.

Component of civil (Except materials covered under

clause 10 CA) /Electrical construction materials expressed

as percent of total value of work

Xm 30%

Component of labour expressed as percent of total value of work.

'Y' 25%

Component of P.O.L. expressed as percent of total value of work.

'Z' Nil%

अनुसूची 'च' SCHEDULE 'F'

टेके की सामान्य शर्तों का संदर्भ

Refrence to General Conditions of contract.

कार्य का नाम Name of work : - : शैक्षणिक परिसर में स्पेशल मरम्मत एवं लघु निर्माण कार्य ।

कार्य की अनुमानित लागत Estimated cost of work

:Rs. 25.00 lakhs

(i)धरोहर राशि Earnest money:

:Rs. 50,000=00

(ii)निष्पादन गारंटी Performance guarantee

:5% of tendered value.

निविदित मूल्य का 5 प्रतिशत

(iii)प्रतिभूति निक्षेप: Security Deposit:

5% of tendered value.

निविदित मूल्य का 5 प्रतिशत

सामान्य नियम एवं दिशानिर्देश:

General Rules & Directions:

निविदा आमंत्रण करने वाला प्राधिकारी Officer inviting tender -

Registrar GGV.

कार्य की मदों की मात्रा के लिए अधिकतम प्रतिशत जिससे अधिक

Seal & Signature of Contractor (Page 21 of 75)



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निष्पादित मर्दों के लिए दरों का निर्धारण खण्ड 12.2 और 12.3 के अनुसार होगा।

Maximum percentage for quantity of items of
work to be executed beyond which rates are to
be determined in accordance with Clauses
12.2 & 12.3.

see below

Definitions:

2(v) भारसाधक इंजीनियर

Engineer-in-Charge

For Civil: UE, GGV Bilaspur or his successor.

For Electrical : UE, GGV or his successor

2(viii) स्वीकारकर्ता प्राधिकारी

Accepting Authority

Registrar, GGV, Bilaspur.

2(x) अतिरिक्त और लाभों को पूरा करने के

लिए श्रम एवं सामग्रियों की लागत पर प्रतिषतता

Percentage on cost of materials and

labour to cover all overheads and profits.

15%

2(xi) दरों की मानक अनुसूची

Standard schedule of Rates For Civil:

**Delhi Schedule of Rates 2014(Civil) with correction
slips issued upto date of receipt of tender.**

For Electrical :

**Delhi Schedule of rate 2014 for Internal
Electrical works and schedule of rate 2014 for
External Electrical works.**

2(xii) विभाग Department

GGV, Bilaspur.

9(ii) विश्वविद्यालय मानक के ठेका फार्म Standard Form University Standard contract Form

खण्ड Clause 1

(i) स्वीकृति पत्र जारी होने की तारीख से निष्पादन

गारंटी के प्रस्तुतीकरण के लिए अनुमत समय

Time allowed for submission of

performance guarantee from the

date of issue of letter of acceptance

: 20 days दिन



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(ii) (उपर्युक्त प) में दी गई अवधि के पश्चात् अधिकतम
अनुमेय एक्स्टेंशन

Maximum allowable extension beyond

the period as provided in (i) above

: 10 days दिन

खण्ड Clause 2

खण्ड 2 के तहत प्रतिकार निश्चित करने वाला प्राधिकारी

Authority for fixing

Registrar/Building Committee

compensation under clause 2 / Competent Authority (GGV)

खण्ड Clause 2A

क्या खण्ड 2 क लागू होगा

Whether clause 2A shall be applicable

Yes

खण्ड Clause 5

कार्य आरंभ की तारीख की गणना के लिए स्वीकृति पत्र के जारी होने की
तारीख से दिनों की संख्या

No. of days from the date of issue of letter of
acceptance for reckoning date of start

22 days.

लक्ष्य

नीचे दी गई सारणी के अनुसार

Milestone(s) : - as per Table given below

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लक्ष्य (मील-पत्थर) सारणी

Table of milestone(s)

1	1 st month of work value	20%	In the event of not achieving the necessary progress as assessed from the running payments, 1% of the tendered value of work will be withheld for failure of each milestone. Subject to maximum of 5% of tendered valued of the work.
2	2 nd month of work value	20%	
3	3 rd month of work value	20%	
4	4 th month of work value	20%	
5	5 th month of work value	20%	
	Total	100%	

कार्य निष्पादित करने के लिए अनुमत्य समय

Time allowed for execution of work **05 (five) month**

Authority to decide

(i) Extension of Time University Engineer, Guru Ghasidas University, Bilaspur (C.G.) with permission of authority.

(ii) Scheduling of mile stones- University Engineer/ Competent Authority (GGV)

खण्ड Clause 6, 6A

खंड लागू-(6 या 6 क) Clause applicable

6 A

खण्ड Clause 7

अंतरिम भुगतान के लिए पात्र होने के लिए अंतिम ऐसे भुगतान के बाद कुल भुगतान एकत्रित सामग्रियों के

अग्रिमों के समायोजन सहित किया जाने वाला कुल कार्य
Gross work to be done together with net

payment/adjustment of advances for Rs. 5.00 Lakhs (For Civil Component)

material collected, if any since the last

such payment for being eligible to interim payment

खण्ड 10 d Clause 10A

कार्यस्थल प्रयोगशाला में टेकेदार द्वारा उपलब्ध कराये जाने

परीक्षण उपकरण की सूची



गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
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List of testing equipment to be provided by the **See P 41 Para 11.0 (Part – B)**
 contractor at site lab.

खण्ड Clause 10B(ii)

क्या खण्ड 10 ख ;पपद्ध लागू होगा

Whether clause 10B (ii) shall be applicable

Yes / हाँ

खण्ड Clause 10C

Component of labour expressed as

25% (Twenty five per cent)

Material covered under this clause	Nearest materials (Other than cement, reinforcement bars and structural steel) for which All India Whole Sale Price Index is to be followed.	Base Price of all materials covered under clause 10 CA *
1 Cement	NA	1. Rs. 5000.00 per MT
2 Steel reinforcement	NA	2. Rs.31304.00 per MT
3 Structural steel	NA	3.Rs. 31009.00 per MT

Percent of value of work

खण्ड Clause 10CA

खण्ड Clause 10CC

: Not Applicable

खण्ड 10 गग उन संविदाओं पर लागू होगा जिसमें कार्य समापन की अवधि, अगले कालम में दर्शाई गई अवधि से अधिक अनुबंधित है।

Clause 10CC to be applicable in contracts with stipulated period of completion

exceeding the period shown in next column

18 months

खण्ड Clause 11

कार्य निष्पादन के लिए अनुपालन

For Civil :CPWD specification 2009, Volume-I & II

Specifications to be followed for execution of work with correction slips upto date of receipt of tender.

For Electrical :CPWD specification for electrical works Part-I

(Internal) 2005 and Part-II (external) 1994

– amended upto date of receipt of tender.

खण्ड Clause 12

12.2 & 12.3

विचलन सीमा जिसके परे खण्ड 12.2 तथा 12.3 भवन निर्माण कार्य के लिए लागू होंगे

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Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work **30%**

वह विचलन सीमा जिसके परे खण्ड 12.2 तथा 12.3 नीचे कार्य के लिए लागू होंगे

Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work **100%**

खण्ड Clause 16

घटी हुई दरे निर्धारित करने की लिए सक्षम प्राधिकारी

Competent Authority for deciding Registrar/Building committee.

Reduced rates.

खण्ड Clause 18

कार्यस्थल पर ठेकेदार द्वारा लगाये जाने वाली अनिवार्य

मशीनरी औजार एवं सयंत्रों की सूची :-

List of mandatory machines, tools and **See P 40 Para 9.0**

(Part – B) plants to be deployed by the contractor at site.

खण्ड Clause 36(i)

“Requirement of Technical Representative(s) and Recovery Rate

SNo	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
						Figures	Words
1	Graduate Engineer	CIVIL	Technical Representative	One years	One	Rs.25000/- PM.	Rupees twenty five Thousand Per Month each
2	Graduate Engineer Or Diploma Engineer	CIVIL	Technical Representative	Two years	Two	Rs.10000/- PM.	Rupees Ten Thousand Per Month each

सरकारी सेवा से सेवानिवृत्त वे सहायक अभियंता जो डिप्लोमाधारक हों, ग्रेजुएट अभियंता के बराबर माने जाएंगे ।

“Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.”

खण्ड Clause 42

I) क) सीमेन्ट और बिटुमन की अनुमानमूल केलोनिवि द्वारा मुद्रित दिल्ली दर अनुसूची 2014 के आधार पर मात्रा निर्धारित करने के लिए अनुसूची/विवरण

I) (a) Schedule/statement for determining on the basis of Delhi Schedule of Rates 2014 theoretical quantity of cement & printed by C.P.W.D.bitumen



II) अनुमानमूलक मात्राओं में अनुमत्य विचलन

Variations permissible on theoretical quantities.

क)सीमेन्ट जिन कार्यों के लिए निविदा में अनुमानित 3 प्रतिषत जमा/घटामूल्य रु. 5 लाख से अधिक न हो

a) Cement for works with estimated cost put to tender not more than Rs. 5 lakhs 3% plus/minus.

जिन कार्यों के लिए निविदामें अनुमानित मूल्य रु. 5 लाख से अधिक हो 2 प्रतिषत जमा/घटा

for works with estimated cost put to tender more than Rs. 5 lakhs 2 % plus/minus.

ख) बिटुमन सभी कार्यों के लिए 2.5 प्रतिषत केवल जमा और घटा के पक्ष में शून्य

b) Bitumen for all works 2.5% plus only & Nil on minus side.

ग) इस्पात प्रत्येक व्यास, कोट और श्रेणी के लिए पूर्णवर्लन और संरचनात्मक इस्पात काट 2प्रतिषत जमा/घटा

c) Steel Reinforcement and structural steel

sections for each diameter, section and category. 2% plus/minus

घ) सभी अन्य सामग्रियां शून्य

d) All other materials Nil.

अनुमत्य विचलन से अधिक की मात्राओं के लिए वसूली दरें

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

क्रम सं.	मद विवरण	अंको और षब्दों में वह दर जिस पर ठेकेदार से वसूली की जाएगी
Sl No.	Description of item	Rates in figures and words at which recovery shall be made from the Contractor
		अनुमत्य विचलन से अधिक उपयोग घटाया Excess beyond Less use beyond permissible variation the permissible variation
1.	Cement	NIL Rs.6000.00 per MT
2.	Reinforcement steel	NIL Rs. 50000.00 per MT
	----- Two items only -----	

PARTICULAR SPECIFICATION

&



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Tender Notice No 01/Engg./2016,

Dt 08/08/2016

SPECIAL CONDITIONS (CIVIL)

1. GENERAL

- 1.1 The contractor shall work according to the programme of work as approved by the Engineer-in-charge/Registrar/Building committee for the purpose, the contractor shall submit a tentative programme of the work within 15 days from the stipulated date of start of the work.
- 1.2 The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.
- 1.3 If as per municipal / GGV. rules the huts for labour are not to be erected at the site of work by the contractors, the contractors shall provide such accommodation at such locations as are acceptable to local bodies, for which nothing shall be payable.
- 1.4 Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account. However, payment for centering, shuttering, if required to be done for floor heights greater than 3.5m, shall be admissible at rates arrived at, in accordance with clause 12 of the agreement, if not already specified otherwise.
- 1.5 The working drawings appearing at para 8.1(iii) of conditions of contract in the form prescribed form shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.
- 1.6 Samples for particular items of work shall be prepared, for prior approval of the Engineer-in-charge before taking up the same on mass scale and nothing shall be payable on this account.
- 1.7 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction / instructions and nothing extra shall be payable on this account.
- 1.8 The contractor shall make his own arrangements for obtaining electric connections, if required, and make necessary payments directly to the University.
- 1.9 Other agencies may also be executing simultaneously on some other related works such as electrical cable laying, street lighting and horticulture works for the same project. The contractor shall extend necessary co-operation to them without any claim on this account.

Seal & Signature of Contractor (Page 28 of 75)



- 1.10 Cast iron pipes and fittings without ear shall be used. However, pipes and fittings with ears may be accepted without any extra payment. In such cases, clamps are not required and no extra payment shall be made for fixing the pipes in a different manner.
- 1.11 Any cement slurry added over base surface for bond or for continuation of concreting, its cost shall be deemed to have been included in the respective items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.
- 1.12 Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required shall have to be done by the contractor at his own cost.
- 1.13 No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.
- 1.14 The items other than the schedule will be taken from DSR-2014 applicable in CPWD with tender rate if required.

2.0 WATER PROOFING TREATMENT

The water proofing items shall be got done through the firms approved by University or other wise as directed by University.

2.1 GUARANTEE FOR WATER PROOFING TREATMENT

The contractor shall give Ten years performance guarantee in the prescribed proforma for the water proofing treatment. In addition 10% (Ten percent) of the cost of these items shall be retained as security, to watch the performance of the work executed. However, half of this amount (withheld) shall be released after five years, after the completion of the work, if no defect comes to notice. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within Seven days and, if not attended to, the same shall be got done through other agency at the risk and cost of the contractor. In any case the guaranteeing firms during the guarantee period shall inspect and examine the treatment once every year and make good any defect observed. However, the 10 % security deposit referred above can be replaced with bank guarantee of equivalent amount for relevant period.

3.0 ACP CLADDING AND STRUCTURAL GLAZING.



3.1 scope of work :

The scope of work includes structural analysis and design, preparation of shop drawings, setting out, lubrication, supply, installation, aligning, fixing and protection of the curtain glazing and aluminium composite panel cladding etc. It also includes performance testing and guarantee for the works as described above, for the system, materials and performance requirements, for a period of **not less than** 10 years from the date of completion of the work.

The **rates of work under this section** includes cost of all inputs of labour, materials including wastages, T&P, equipments, cranes or cradles, scaffolding, other enabling temporary structures and services and all other incidental charges, if any, not specifically mentioned here, but as required for complete design, engineering, fabrication, assembling, delivery, anchorage, installation, protection of curtain glazing, aluminium composite panel cladding etc. and making the curtain glazing, aluminium composite panel cladding etc. water tight, all complete, and all in accordance with the true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown in the drawings and/or described in the specifications provided that the same can be reasonably inferred therefrom.

The curtain glazing, aluminium composite panel cladding shall have framing which shall be structurally and mechanically designed to achieve the architectural elevations as well as performance parameters specified herein. Anchorage shall include all supporting bracket & anchor fasteners, as required to rigidly secure the structural framing to the RCC/Masonry/structural steel members of the building.

STANDARDS :

3.2 Materials and workmanship shall, in general, comply with the latest editions of the following standards as a minimum.

ANSI	Z97.1	Safety Glazing materials used in Buildings
ASTM	C1036	Specification for float glass
ASTM	C1172	Specification for Laminated Architectural Glass
ASTM	C864	Specification for compression Seal Gaskets
ASTM	C1115	Specification for Silicone Rubber Gaskets



ASTM	C920	Specification for Sealants
ASTM	C509	Specification for sealing material
CPSC16	CFR 1201	Specification for Safety Glass
BSCP 118		Structural use of Aluminium
AS 1664		--Do--

3.3 International Standards

In general, the Contractor shall follow the latest Indian/International Standards issued by BIS. Other specification relevant to this item of work like ASTM, SAA, AAMA, BSS, ISO& SSIR can also be adopted if particular standards are not available in BIS codes. The contractor shall also state reasons for adopting particular standards/codes. Nothing in this clause shall relieve the contractor of his obligations to provide high standard of quality and workmanship as required.

3.4 The contractor shall also submit guarantee in the enclosed format for replacement of glass during the guarantee period of not less than 10 years from the date of completion of work. **All the Guarantees shall be submitted before final payment is released after the date of the completion of work and shall not in any way limit any other rights, which the Engineer-in-Charge may have under the Contract.**

3.5 If any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of issue of notice to the contractor, (at least temporarily if it requires specialized materials and equipment for such rectification works which may entail some more time), to the satisfaction of the Engineer-in-Charge, till the permanent rectification of the defects/replacement of defective materials is carried out by the contractor, in maximum four months period.

If not attended to, the same shall be got done by the Engineer-in-Charge through other agency at the risk and cost of the contractor and the cost, which shall be final and binding on the contractor, shall be recovered from the amount withheld towards the guarantee as mentioned above or any other amount due to the contractor.

3.6 Scope of Shop Drawings

a) Shop drawing shall incorporate scaled and dimensioned plans, elevations, sections and complete size details for all the works.



- b) The shop drawings shall indicate the required dimensional profiles and modules, function, design and performance standards and in general cover all dimensions and details required to fabricate and install the curtain wall at site.
- c) The contractor shall verify and co-ordinate the shop drawings with all applicable and inter-related trades, drawings and specifications.
- d) All dimensions/modules, etc. shall be field checked and the drawings shall be modified, if required, based on actual measurements at site.
- e) Details shall show and specify all metal sections, types of finishes, areas to be sealed and sealant materials, gaskets, applicable construction materials including fasteners and welds, all anchorage assemblies and components, fabrication and erection tolerances for the work.
- f) All details shall be subject to the approval of the Engineer-in-Charge, after incorporating all the modifications as suggested by the Engineer-in-Charge or otherwise.

4.0 Stainless Steel Railing/Handrails

- 4.1 Supply and installation of satin finish stainless steel railing (Ozone or equivalent) having 50 mm dia OZBF-SS-ACC-HR-50-SS-P (PIPE) 1.6 mm thick tube handrail modular and component based system having unified stem keys as connector, centre rod 12 mm @ 300 c/c including a)end caps for railing & centre rod, SS balustrade OZBF –WS-11 members to be fixed on top of stair steps or floor edge at a minimum distance of 3000 mm to be complete with all necessary bends and joints and erected with chemical grouts of approved make or equivalent as per drawing and instruction of Engineer-in-Charge (Height 3000 mm as per sketch)

4.2 GENERAL

The contractor shall apply all materials, labour, tools, ladders, scaffolding and other equipments necessary for the completion and protection of all stainless steel work.

4.3 MATERIAL

All stainless steel pipes and plates shall conform to AISI 304 in 18/8 composition 18 will be chromium and 8 will be Nickel and carbon content will be 0.03 maximum and the relevant clauses associated with this grade of steel to be followed.

4.4 SURFACE FINISH

Surface finish of all the stainless steel materials will be in 240 grit satin finish / matt finish.

4.5 ACCESSORIES



Fixing will be done by stainless steel expansion bolts of approved size and make as per Engineer-in-charge and welding to be done by using organ welding rods and the surface being duly finished and cleaned by K2 passivation, which is nitric acid plus florid acid solution treatment by which the chances of corrosion will be eliminated and any burn out makes on the metal will also be eliminated.

4.6 COATING MASS

All stainless steel material will have to be coated by a solution of Inox to avoid finger in prints and avoidance of settlement of environment / atmospheric dust.

4.7 MEASUREMENT

All the stainless steel finished parts shall be weighed correct to a gram and paid on weight basis.

4.8 RATE

The rate shall include the cost of all the materials, machinery and labour involved in all the operations described above including cartage, lifts and all taxes like Sales Tax / VAT, Excise duty, Octroi etc. as applicable.

Any incidental additional requirements for execution of this item to the satisfaction of Engineer-in-charge shall also be treated as included in the item and shown in attached drawing and nothing extra will be paid for such extra work.

5.0 PAINT BROUGHT BY THE CONTRACTOR

5.1 The contractors shall bring sufficient quantity of paint of brand & shade approved by Engineer-in-charge prior to the commencement of work & keep it in his stores at site of work under double lock & key.

5.2 The paint shall be issued to the contractor from time to time according to requirements for the work in the same manner as followed for issue of cement

5.3 Empty containers shall not be removed without the written permission of the Engineer-in-charge.

6.0 CONDITION FOR CEMENT:-

6.1 The Contractor shall procure 43 grade Ordinary Portland cement (conforming to IS : 8112) or Portland slag cement (conforming to IS : 455) or Portland Pozzolana Cement (PPC) (Fly ash



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based) – conforming to IS : 1489 (Part-I) as required in the work, from reputed manufactures of cement, having a production capacity of one million tonnes or more, such as ACC, L&T, JP REWA, Vikram, Shri Cement, Birla Jute, Prism, Ambuja, Lafarge and Cement corporation of India etc. i.e. agencies approved by Ministry of Industry, Government of India, and holding license to use ISI certification mark for their product. The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves the right to accept or reject name(s) of cement manufacture(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufactures, given by the tenderer, fully or partially. Supply of cement shall be taken in 50 Kg bags bearing manufacture's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got issue in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the Contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the Contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.

If Portland Pozzolana cement or Portland slag cement is used, suitable modification in deshuttering time etc. shall be done if need be as per specifications and standards and as directed by Engineer – in – charge and nothing extra shall be payable on this account.

No extra payment / deduction shall be made from the payment to the contractor for using any of the above type of cement.

- 6.2 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer - in - charge.
- 6.3 For each grade / type, cement bags shall be stored in two separate godowns, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at his own cost as per sketch shown in General conditions of contract for Vishwavidyalaya with weather proof roofs and walls. The size of the cement godown is indicated in the sketch for guidance only. The actual size of godown shall be as per site requirements and as per the direction of the Engineer in charge and nothing extra shall be paid for the same. The decision of the Engineer-in-charge regarding the capacity required/needed will be final. However, the capacity of each godown shall not be less than 30 tonnes. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with CPWD Engineer-in-charge or his authorized person and that of other lock



with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both the parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed Proforma and signed daily by the contractor or his authorized agent in token of its correctness.

- 6.4 The cement shall be got tested by Engineer –in –charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor / Department in the manner indicated below :-.
- (a) By the contractor, if the results show that the cement does not conform to relevant BIS codes.
(b) By the Department, if the results show that the cement conforms to relevant BIS codes.
- 6.4.1 All other charges of sampling, packing and transportation of sample shall also be borne by the contractors.
- 6.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained separately for each type of cement, as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 42 of the contract and shall be governed by conditions laid therein. However, for consumption lesser beyond permissible theoretical variation recovery shall be made in accordance with conditions of contract at Schedule A to F (CPWD-8), without prejudice to action for acceptance of work/item at reduced rate or rejection as the case may be.
- 6.6 For non-schedule items, the decision of the University Engineer regarding theoretical quantity of cement, which should have been actually used, shall be final and binding on the contractor.
- 6.7 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-charge.

7.0 CONDITIONS FOR REINFORCEMENT STEEL :-



7.1 The contractor shall procure TMT bars of Fe415 grade as per BIS 1786 – 2008 from primary producers such as SAIL or TISCO or RINL as approved by Ministry of Steel. In case of non-availability of steel from primary producers, Superintending Engineer, Bhopal Central Circle may permit use of TMT reinforcement bars procured from secondary producers.

- a. The secondary producers must have valid BIS licence to produce HSD bars conforming to IS 1786 : 2008. In addition to BIS licence, the secondary producer must have valid licence from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.
- b. The TMT bars procured from primary producers shall conform to manufacture's specifications.
- c. The TMT bars procured from secondary producers shall conform to the specifications as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be.
- d. TMT bars procured either from primary producers or secondary producers, the specifications shall meet the provisions of IS 1786 : 1985 pertaining to Fe 415 grade of steel as specified in the tender.

Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para (c) & (d) above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.

In case contractor is permitted to use TMT reinforcement bars procured from secondary producers then:

- (i) The base price of TMT reinforcement bars as stipulated under schedule 'F' shall be reduced by Rs. 6000/- MT.
- (ii) The rate of providing & laying TMT reinforcement bars as quoted by the contractor in the tender shall also be reduced by Rs. 7.35 per kg.

7.2 The steel reinforcement shall be brought at site in bulk supply of 25 tonnes or more as decided by the Engineer in charge.

7.3 The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.



- 7.4 For checking nominal mass tensile strength bend test re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

Dia of bar	For consignment below 100tonnes	For consignment above 100tonnes
Under 10 mm	One sample for each 25 tonnes or part thereof	One sample for each 40tonnes or part thereof
10 mm to 16mm	One sample for each 35 tonnes or part thereof	One sample for each 45tonnes or part thereof
Over 16mm	One sample for each 45 tonnes or part thereof	One sample for each 50tonnes or part thereof

- 7.5 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor / Department in the manner indicated below :-
- (a) By the contractor, if the results show that the steel does not conform to relevant BIS codes.
- (b) By the Department, if the results show that the steel conforms to relevant BIS codes.
- 7.6 All other charges of sampling, packing and transportation of sample shall also be borne by the Contractor.
- 7.7 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein.
- 7.8 Steel brought to site and remaining unused shall not be removed from site without the written permission of Engineer-in-Charge.
- 7.9 (i) Reinforcement including authorized spacer bars and lappages shall be measured in length of different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
- (ii) The standard sectional weights referred to shall be as in Table 5.4 in para 5.3.4 in CPWD specifications 2009 will be considered for conversion of length of various sizes of TMT bars in to standard weight.
- (iii) Record of actual sectional weights shall also be kept dia wise and lot wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer in charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of



steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.

- (a) If the derived weight as in sub-para (iii) above is less than the standard weight as in sub-para (ii) above, then the Derived Actual Weight shall be taken for payment.
- (b) If the derived actual weight is found more than the standard weight, than standard weight as worked out in sub para (ii) above shall be taken for payment nothing shall be paid extra for the difference in Derived/ Actual Weight and standard weight.

7.10 TMT bars of Fe 500 grade as per BIS : 1786: - 2008 from primary producer may also be permitted by Engineer – in – charge for which neither deduction shall be made nor extra shall be paid to the contractor. However, every care should be taken to avoid mixing different types of grades of bars in the same structural members as main reinforcement to satisfy relevant clause of IS: 456. In case of buildings, wherever the situation necessitates, the change over shall be made only from any one level onwards. In case of foundations, all foundation elements (footings and grade beams) shall have the same kind of steel. In the case of columns, all structural elements up to the level of change, where the change over is taking place should have the same kind of steel as those in columns.

7.11 The reinforcing steel brought to site of work shall be stored as per CPWD specification 2009.

8.0 REINFORCED CEMENT CONCRETE WORK

- 8.1 To ensure proper cover, only factory made round type cover blocks will be used to avoid displacement of bars in any direction.
- 8.2 For the execution of centering and shuttering, the contractor shall use propriety "Reebole" chemical mould release agent of "FOSROC" or equivalent as shuttering oil as recommended by the manufacture and nothing extra shall be paid on this account.

8.3 DESIGN MIX CONCRETE

- 8.3.1 The RCC work shall be done with Design Mix Concrete unless otherwise specified. In the nomenclature of items wherever letter M has been indicated, the same shall imply for the Design Mix Concrete. For the nominal mix in RCC, CPWD Specifications shall be followed. The Design



Mix Concrete will be designed based on the principles given in IS: 456-2000. The contractor shall design mixes for each grade of concrete indicating that the concrete ingredients and proportions will result in concrete mix meeting requirements specified. In case of use of admixture and or white cement, the mix shall be designed with these ingredients as well. The specification mentioned here-in-below shall be followed for Design Mix Concrete.

8.3.2 The concrete mix design will be carried out by the contractor through one of the following laboratories / Test houses and ready mix concrete shall conform to accepted design mix.

1. NIT, Raipur.
2. G.E.C., Bilaspur.
3. MANIT Bhopal
4. G.E.C. Ujjain
5. MITS Gwalior.
6. National Council for Cement & Building materials, Ballabgarh.

8.3.3 In the event of all the above laboratories being unable to carry out the requisite design / testing the contractor shall have to get the same done from any other laboratory with prior approval of the Engineer-in-charge.

8.3.4 The contractor shall submit the mix design report from any of above approved laboratories for approval of Engineer-in-charge within 45 days from the date of issue of letter of acceptance of the tender. No concreting shall be done until the mix design is approved.

In case of white Portland cement and the likely use of admixtures where CC/RCC is done with concrete pumps in concrete with ordinary Portland/white Portland cement, the contractor shall design and test the concrete mix by using trial mixes with white cement and /or admixtures also, for which nothing extra shall be payable.

In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted at laboratory established at site shall be submitted by the contractor as per the direction of the Engineer-in-Charge.

The Mix shall be designed to produce the grade of concrete having required workability and characteristic strength not less than as specified.

The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ck} = F_{ck} + 1.65 s$

Where,



F_{ck} = Characteristic compressive strength at 28 days.

S= Standard deviation

The standard deviation for each grade of concrete shall be calculated separately.

The degree of quality control for this work is “Good” for which the standard deviation (s) obtained for different grades of concrete shall be as follows:-

Grade of Concrete	For “Good” quality of control
M 20	4.0
M 25	4.0
M 30	5.0
M 35	5.0

Out of the six specimen of each set, three shall be tested at seven days and remaining three at 28 days. The preliminary tests at seven days are intended only to indicate the strength to be attained at 28 days. All cost of mix designing and testing connected therewith including charges payable to laboratory shall be borne by the Contractor.

- 8.3.5 The samples of cement, aggregate (fine & coarse) to be sent to the laboratories shall be sealed in the presence of the Engineer in charge and shall have his signature and cost of packaging, sealing, transportation, loading, unloading, cost of samples and the testing charges for Mix design in all cases shall be borne by the contractor.
- 8.3.6 Notwithstanding the approval granted by engineer-in-charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.
- 8.3.7 The Engineer-in-charge reserves the right to exercise control over the : ingredients, water and admixtures, purchased, stored and to be used in the concrete including conducting of tests for checking quality of Materials fit or unfit for use in production of mix.
- 8.3.8 The Contractor shall submit the test data of the material used for concrete mix-design in the laboratoroies, so the material being used at site be compared with those data / size etc.
- 8.3.9 In case of change of parameters of ingradients (sand, cement, coarse aggregate) fresh concrete mix-design to be done as mentioned in para 8.3.2 above and got approved from the Engineer-in-charge before execution.



- 8.3.10 The contractor shall make arrangement to install a mini laborarory at site for accelerated testing of design mix concrete as per IS : 9013. The department reserves right to take samples of design mix concrete from the mass production of the concrete for testing and compare with the laboratory's results.
- 8.3.11 Nothing shall be paid extra for installation and cost of batching plant and other arrangement for making necessary test of desing mix concrete.
- 8.3.12 The rate for item of design mix cement concrete shall be inclusive of all the ingredients including admixtures if required, labour, machinery T & P etc. (except shuttering which will be measured & paid for separately) required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net & nothing extra shall be payable on account of change in quantities of concrete ingredients like cement and aggregates and admixtures etc. as per the approved mix design. **Cost adjustment at the rate of Rs. 600/- per quintal shall be made for less use of cement in design mix than specified in the item.**
- 8.3.13 Concrete shall be handled from the place of mixing to the place of final deposit / placement by methods, which prevent segregation, or loss of any ingredients and contamination.
- 8.3.14 Where concrete is conveyed by chutes, the chute shall be made of metal or fitted with metal lining. The approval of the Engineer-in-charge shall be obtained for the use of chutes in excess of 3 metres length and in such cases the concrete shall be remixed if so required by the Engineer-in-charge or closed bottom buckets shall be used. If concrete is placed by pumping, the conduit shall be primed properly. Once pumping is started, it shall not be interrupted as far as possible. Concrete shall not be dropped into place from a height more than 1.5m.
- 8.3.15 Concreting of any portion of the work shall be done in presence of the representative of the Engineer-in-charge and shall be done only after approval of the Engineer-in-charge.
- 8.3.16 Concreting shall be carried out continuously between constructions joints shown on the drawings or as agreed by the Engineer-in-charge. The contractor shall closely follow the sequence of concreting where it is specified in the drawings. If concreting is interrupted before reaching the predetermined joint an approved construction joint shall be provided. Construcion joints shall be minimized as far as possible. These shall be set at right angles to the general direction of the member. The surface film of the first places concrete should preferably be removed while the concrete is still green to expose the aggregate and leave a sound irregular surface. However care shall be taken not to disturb the concrete already laid.



8.3.17 **Admixtures** : Wherever required, admixtures of approved quality shall be mixed with concrete as specified. The admixtures shall conform to IS: 9103. The chloride content in the admixture shall satisfy the requirements of BS: 5075. The total amount of chlorides in the admixture mixed concrete shall also satisfy the requirements of IS 456-2000.

8.3.18 Use of ready mixed concrete (RMC) may also be permitted, with prior approval of Engineer –in – charge, without any extra payment. Separate account of design mix concrete and RMC shall however be kept. The ready mixed concrete shall conform to the requirement of durability, workability and strength laid down for design mix concrete.

8.3.19 9.0 EQUIPMENTS AND PLANTS (Refer Clause 18 of Schedule ‘F’)

9.1 The contractor should capable of deploying necessary tools & plants as when required in appropriate as below required numbers to ensure smooth & timely execution of work, at his own cost & risk as per the requirement of work at different stages. The decision of Engineer-in-Charge shall be final regarding use of particular T&P(s) at a particular time(s) & the contractor has to adhere the same strictly:

I.	Steel centering and shuttering.	500 Sqm.
II	Excavator Cum Loader.	1 No.
III	Builders Hoist / Tower crane	1 No.
IV	Concrete mixer with hopper. (Diesel + Elect.)	1 Nos.
V	Needle Vibrator. (Diesel / Petrol + Elect.)	3 Nos.
VI	Bar Bending Machine.	1 No.
VII	Bar Cutting Machine.	1 No.
VIII	Truck / Tipper	1 Nos.
IX	Floor grinding machine	2 Nos.
X	Welding machine	1 No.
XI	Chase cutter.	2 Nos.
XII	Water Pump	1 Nos.
XIII	DG set (Diesel)	1 No.
XIV	Pile rig for 300 mm dia pile	1 No.



- 9.2 To achieve the progress of work as per programme the contractor must bring at site the shuttering materials required for cement concrete and RCC work etc. within 7 days from the date of start of work. Work shop facilities for fabrication/addition and alterations, and other allied works shall be arranged by the contractor at his own cost.
- 9.3 In addition to these, machinery / equipment as required shall be arranged by the contractor in case the requirement at any stage exceeds as per the programme finalized at his own cost and nothing extra whatsoever on this account shall be paid.
- 9.4 All the equipment, T&P and machinery shall be kept in good condition.

10.0 SAFETY MEASURES AT CONSTRUCTION SITE

In order to ensure safe construction, following shall be adhered for strict compliance at the site:-

- (i) The work site shall be properly barricaded.
- (ii) Adequate signages indicating 'Work in Progress – Inconvenience caused is Regretted' or Diversion Signs shall be put on the sites conspicuously visible to the public even during night hours. These are extremely essential where works are carried out at public places in use by the public.
- (iii) The construction malba at site shall be regularly removed on daily basis.
- (iv) All field officials and the workers must be provided with safety helmets, safety shoes and safety belts.
- (v) Proper MS pipe scaffoldings with work – platforms and easy-access ladders shall be provided at site to avoid accidents.
- (vi) Necessary First-Aid kit shall be available at the site.

The above provisions shall be followed in addition to the provisions of General Condition of Contract, CPWD safety code and CPWD specifications for which nothing extra shall be paid except otherwise provided.

11.0 LIST OF EQUIPMENT FOR SITE LABORATORY(Ref. Clause 10A of Schedule 'F')

A. Laboratory testing instruments.

- (1) Balances
 - i. 7 Kg. to 10 Kg. capacity, semi-self indicating type – accuracy 10 gm.-1 No.
 - ii. 500 gm. Capacity, semi-self indicating type – accuracy 1 gm.- 1 No.
 - iii. Pan balance – 5 Kg. capacity – accuracy 10 gms.-1 No.
- (2) Sieves : as per IS 460 – 1962.



- i. I.S. sieves – 450 mm internal dia, of sizes 100 mm, 80 mm, 63 mm, 50 mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm, complete with lid and pan. – 1 Set
- ii. I.S. sieves - 200 mm internal dia (brass frame) consisting of 2.36 mm, 1.18 mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan. – 1 Set
- (3) Equipment for slump test – slump cone, steel plate, tamping rod, steel scale, scoop.- 2 Nos.
- (4) Graduated measuring cylinders 200 ml capacity – 2 Nos.

B. Field testing instruments.

- (1) Steel tapes – 3 m. – 2 Nos
- (2) Vernier Calipers. - 1 Nos.
- (3) Micrometer screw 25 mm gauge. – 1 Nos.
- (4) A good quality plumb bob. – 2 Nos.
- (5) Spirit level, minimum 30 cms long with 3 bubbles for horizontal vertical.- 2 Nos.
- (6) Wire gauge (circular type) disc. – 1 Nos.
- (7) Foot rule – 2 Nos.
- (8) Long nylon thread – 2 Nos.
- (9) Magnifying glass – 1 Nos.
- (10) Screw driver 30 cms long – 1 Nos.
- (11) Ball pin hammer, 100 gms. – 1 Nos.
- (12) Plastic bags for taking samples – 1 Nos.

12.0 SPECIFICATIONS FOR CEMENT BASED FLY ASH BRICKS

12.1 Quality of Raw Materials

- 12.1.1 **ASH** :Fly ash shall meet the requirement of Grade 2 of IS : 3812. Fly ash should preferably be collected form 1st / 2nd field of ESP.
- 12.1.2 **Sand / Stone dust** :Deleterious materials such as clay and silt in sand / stone dust shall not be more than 5%.
- 12.1.3 **Cement** : Portland cement conforming to IS : 269, IS : 8112 or IS : 12269 (latest revision) shall be used.



12.1.4 **Storage** :All raw materials shall be stored in covered sheds and suitably protected from the rains.

12.1.5 **Proportioning of raw materials** : The following mix proportion shall be adopted for manufacturing fly ash, sand and cement bricks

Fly ash	50-60%
Sand / Stone dust	32-40%
Cement	08-10%

12.1.6 **ACCEPTANCE CRITERIA :**

12.1.6.1 **Compressive Strength** : Minimum average compressive strength of brick shall not be less than 7.5 N/sq.mm when tested as per IS -3495 (Part-I) : 1976. The compressive strength of any individual brick shall not fall below the minimum average compressive strength by more than 20%. In case any test result of compressive strength exceeds 10.0 N/sq.mm, the same shall be limited to 10.0 N/sq.mm for the purpose of averaging.

12.1.6.2 **Water absorption** : The bricks when tested in accordance with the procedure laid down in Is : 3495 (Part-2) : 1976 after immersion in cold water for 24 hours, shall have water absorption not more than 20%.

12.1.6.3 **Drying Shrinkage** : The average drying shrinkage of the bricks, when tested by the method described in IS : 4139 : 1989 being the average of the three units, shall not exceed 0.15 percent.

12.1.6.4 **Efflorescence Test** : The bricks when tested in accordance with the procedure laid down in IS : 3495 (Para-3) : 1976 shall have the rating of efflorescence not more than 'Moderate'.

Sampling and Criteria for conformity: Sampling and criteria for conformity of the bricks shall be as given in IS : 5454 : 1976.

13. No Escalation shall be given by the University neither any claim for the escalation will be entertain..



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14. The tenderer shall be required to submit the tender in two envelop system. Envelop A should contain the earnest money through bank draft of any scheduled bank payable to the Registrar GGV, Bilaspur (C.G.) Envelop B should contain the rate quoted by the contractor/firm of contractors in the prescribed tender form.
15. Envelop 'A' & 'B' will be sealed and then again put in the third envelop which also should be in sealed envelop. It should be clearly mentioned on the top of the envelop that it contains the tender invited by GGV wide tender number 01/Engg./2016 dated 08/08/2016.
16. The GGV reserves the right to award the work order to the 2nd lowest tenderer incase of the first lowest tenderer fails to execute monthly work progress report by canceling the work order given the 1st lowest tenderer.
17. The GGV reserves the right to place the order complete or part of work.
18. The GGV reserves the right to alter. Add or delete any term(s) & condition(s) in the interest of the University without any prenotice and no suit shall lie on the University for the same.
19. Validity of accepted Quoted rates will be for 18 months from the date of agreement. University will give separate order for separate works time to time for some specified time and specified works in the interest of the University.
20. The vanue of arbitration shall be the court at Bilaspur (C.G.)
21. Any other information releted to the tender may be obtained from office of the University Engineer, GGV, Bilaspur during working houres.

LIST OF APPROVED MATERIALS & SPECIALIZED AGENCIES (CIVIL)

Note :

1. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material or engaging any of the specialized agencies.
2. Wherever applicable, the Engineer-in-charge may approve any material equivalent to that specified in the tender subject to proof being offered by the Contractor for equivalence to his satisfaction.



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3. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature, in the particular specifications and in the list of approved materials attached in the tender, shall be used in the work.
4. In case of non availability of the brand specified in the contract or ISI marked materials, the Contractor shall be allowed to use alternate equivalent brand of the material subject to submission of documentary evidence of non-availability of the specified brand. Necessary cost adjustments on account of above change shall be made for the material, if required.

MATERIALS:

BRAND/MAKE

1.	White Cement	JK, Birla or equivalent.
2.	Super plasticizer	MC Baucheme, Sika, Fosroc
3.	Water Proofing Compound (Liquid)	Pidiproof Ltd., Cico, Impermo
4.	Stainless Steel	Jindal Stainless Steel, Salem Steel
5.	Galvanized/Stainless Steel Anchor Fasteners	Shakti, Arrow, Hilti, Fischer
6.	PVC Tiles	Arm Strong, LG or equivalent.
7.	Ceramic Tiles	Kajaria, Somany, Nitco, Orient, Bell Ceramic, Johnson
8.	Vitrified /Porcelain Tile	Marbonite, Euro, Somany, diamond of Naveen Granamite of Bell ceramic, Granito, Kajaria, Marbita.
9.	Terrazzo tiles	Mehtab, Nitasha, Nitco, Raj-yesh, Bharat
10.	Chequered tiles	Mehtab, Nitasha, Nitco, Raj-yesh, Bharat
11.	Acid/Alkali Resistant Tile	Somany, Nitco, Kajariya, Bell Granamite Group, Johnson
12.	Polymer Modified Cementitious grout	Bal Endura, Pidilite or equivalent.
13.	Glass Mosaic Tile	Bissazza, Saon or equivalent.
14.	Hardner	Hard crete of Snowcem India, MC Deritop F.H.
15.	Flush Doors	Kutty flush door, Anchor, Kanara, Kitlam, National, Swastic
16.	FRP Shutters	Fibre Glass Engineers, Raipur, Aashoo Model
17.	PVC Shutter	Rajshri, Sintex or equivelent.
18.	Ply Wood	Archid, Kitply, Green ply, Century
19.	Pre-laminated Particle Board	Novapan, Kitlam or equivelent.
20.	Melamine Polish	Melamine of Asian Paint, Wudfin of pidilite Industries Timbertone of ICI Dullex.

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21.	Laminate	Marino, Greenlam, Decolam, Century, Formica
22.	Aluminium Composite Panel	Alpolic, Aluco Bond, Reynobond, Euro bond, Al-strong
23.	Stainless Steel Screws	Kundan, Arrow or equivalent.
24.	Aluminium Extrusions	Hindalco, Indalco, Jindal
25.	Hydraulic Floor spring	Hardwyn, Godrej or equivalent.
26.	Hydraulic Door Closer	Hardwyn, Godrej or equivalent.
27.	Annealed Float Glass	Saint Gobain, Modi Guard, Hindustan Pilkington
28.	Synthetic Enamel Paints	ICI(Dulux),Asian (Apolite),Berger (Luxol),Nerolac (NST)
29.	Structural Silicon Sealant	Dow Corning, Wacker, GE, Du-pont
30.	Epoxy Primer & Paints	Berger, Pidilite or equivalent.
31.	GI Pipe	Tata, Zenith, Jindal
32.	GI fitting	Unik, ICS or equivalent.
33.	Centrifugally Cast Iron Pipe & Fittings	Neco, RIF, SKF
34.	Polyester Powder Coating	Nerolac, Berger, J&N
35.	Gun Metal Gate Valve	Zoloto, Leader, SAINT
36.	PVC Rain Water Pipe & Fitting	Finolax, Classic of Kisan or equivalent.
37.	Primer	Asian, ICI, Berger, Nerolac
38.	Oil Bound Distemper	Asian(Tractor), ICI (Maxi lite),Berger(Bison),Nerolac (NAD)
39.	Acrylic Emulsion Paint	Asian (Royale), ICI (Velvet), Berger (Luxol Silk), Nerolac (Allscapes)
40.	Structural steel section	TATA, SAIL, RINL
41.	Curtain Carrier	Vista levlor or equivalent.
42.	Drapery Rod	Vista Levlor or equivalent.
43.	VitreousChinaWashBasin Rectangular without Pedestal	Hindware / Perryware or equivalent.
44.	VirtuososChinaWashBasin Oval	Hindware / Perryware or equivalent.
45.	Vitreous China Pedestal for WashBasin	Pedstal of Perryware / Hindware
46.	Vitreous China Floor Mounted European W.C. without cistern	Perryware / Hindware or equivalent.



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47.	Vitreous China Floor moulded European with Cistern Compote	Perryware / Hindware or equivalent.
48.	Vitreous China Wall hung W.C. without Cistern.	Perryware / Hindware or equivalent.
49.	Vitreous China Wall Hung W.C. with vitreous Cistern (component)	Perryware / Hindware or equivalent.
50.	Orissa Pan	Perryware / Hindware or equivalent.
51.	Vitreous China Low Level Cistern for European W.C.	Hindware / Perryware or equivalent.
52.	Low Level PVC Cistern Single flush	Sleek model Cistern of PVC of Hindware or Slimline deluxe model of Perryware JINDAL.
53.	Dual Flush	Sleek Dual flush PVC cistern of Hindware or Slimline dual of Perryware.
54.	Vitreous China Half stall Urinal	Model No. 6002 Urinal flat back large of Hindware or magnum of Perryware.
55.	Flush Valve	Aquel, Marc or equivalent.
56.	Solid Plastic Seat Cover for EWC	EWC standard seat cover white of Perryware/Hindware
57.	Jet Assembly for EWC	Perryware, Kamal (Mahendra)
58.	Float Glass	Modi Float, Saint Gobain, Asahi, Sejal
59.	CP Brass Bibcock, Pillarcock, Stopcock, Angle Valve, Concealed Stop Cock.	Marc (oriental series) Jaquar (continental series), Parko, Nova
60.	Plastic Connection Pipe	Perryware/Kamal Delux or equivalent.
61.	CP Waste Coupling	Kamal/Jaquar/Mark/Nova/Parko
62.	CP Bottle Trap	Perryware / Hindware or equivalent.
63.	Waste Pipe	Kamal with brass checknut/Viking
64.	Stainless steel Sink with or without Draining board.	Nirali, Hindware, Frankee, Cobra
65.	Towel Ring/Towel Rod/Towel Rack	Kamal, Marc or equivalent.
66.	Fibre Glass Shelf	Kamal, Bath King or equivalent.
67.	Vitreous China laboratory Sink	Hindware / Perryware or equivalent.
68.	Aluminum Sections	Jindal, Hindalco, Indalco
69.	Textured Exterior wall	Berger, Unitile, Spectrum, Oikos
70.	Non asbestos high impact polypropelene reinforced Cement sheet	Everest or equivalent



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Name of work Special repair & small construction work

Location In Academic Buildings

As per CPWD DSR 2014

ITEM NO	D.S.R ITEM NO	ITEM DESCRIPTION	QTY	UNIT	RATE	Total value
1	2.8	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sum on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	96.98	cum	157.5	15274.35
2	2.26	Extra for every additional lift of 1.5 m or part thereof in.				
	2.26.1	All kinds of soil.	97.85	cum	157.50	15411.00
	2.27	Supplying and filling in plinth with Local sand under floors including, watering, ramming consolidating and dressing complete.	47.65	cum	910.25	43373.00
4	4	CONCRETE WORK				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				
	4.1.4	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).	16.27	cum	5335.25	86805.00
	4.1.5	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	9.55	cum	4834.30	46168.00
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centring, shuttering and finishing :				

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	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	3.00	cum	6450.00	19350.00
	4.3	Centring and shuttering including strutting, propping etc. and removal of form work for :				
	4.3.1	Foundations, footings, bases for columns.	27.49	SQM	196.25	5395.00
	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses plinth and string courses fillets etc.	7.58	SQM	157.50	1194.00
		<u>REINFORCEMENT CEMENT CONCRETE</u>				
5	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :				
	5.1.2	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	11.58	cum	6230.20	72146.00
6	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement				
	5.2.2	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	4.78	cum	7074.30	33815.00
	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	5.41	cum	6778.20	36670.00
7	5.9	Centring and shuttering including strutting, propping etc. and removal of form for :				
7 i	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	10.22	Sqm	196.45	2008.00
7 ii	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	12.54	Sqm	453.35	5685.00



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7 iii	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	20.59	Sqm	332.15	6839.00
7 iv	5.9.13	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards.	23.87	Sqm	587.35	14020.00
7 v	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	16.24	Sqm	401.65	6523.00
7 vii	5.9.19	Weather shade, Chajjas, corbels etc., including edges.	17.23	Sqm	492.35	8483.00
7 viii	5.9.7	Stairs, (excluding landings) except spiral-staircases.	8.00	Sqm	395.65	3165.00
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.6	Thermo-Mechanically Treated bars.	1000.00	kg	68.10	68100.00
		<u>BRICK WORK</u>				
	6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	12.36	cum	4677.25	57811.00
10	6.4	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	23.41	cum	5426.15	127026.00
11	6.12	Half brick masonry with F.P.S. brick of class designation 75 in foundations and plinth in :				
	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	16.52	Sqm	584.75	9660.00
13	6.13	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level.				
	6.13.1	cement mortar 1:4 (1 cement : 4 coarse sand)	10.23	sqm	692.80	7087.00
	6.15	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry (with F.P.S. bricks).	11.00	sqm	69.50	765.00



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<u>WOOD & PVC WORK</u>						
	9.14	Extra for providing ISI marked Stainless Steel butt hinges instead of black enamelled M.S. butt hinges with necessary screws. (Shutter area to be measured).	10.57	sqm	253.50	2679.00
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	10.85	sqm	2606.45	28280.00
	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured) Over item no. 9.20 and 9.21.	23.60	sqm	365.85	8634.00
	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	21.33	sqm	365.85	7804.00
14	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete.				
	9.48.1	Fixed to steel windows by welding.	124.00	kg	109.00	13516.00
	9.55	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :				
	9.55.1	125x65x2.12 mm	10.00	each	33.65	337.00
	9.55.2	100x58x1.90 mm	10.00	each	25.80	258.00
	9.55.3	75x47x1.70 mm	11.00	each	20.80	229.00
	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	11.00	each	85.70	943.00
	9.83	Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete.	10.00	each	753.75	7538.00
	9.96	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :				



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9.96.1	300x16 mm	21.00	each	229.65	4823.00
9.96.2	250x16 mm	20.00	each	189.00	3780.00
9.97	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
9.97.1	300x16 mm	20.00	each	112.10	2242.00
9.97.2	250x16 mm	20.00	each	95.25	1905.00
9.100	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
9.100.1	125 MM	11.00	each	69.80	768.00
9.100.2	100 MM	11.00	each	55.10	606.00
9.100.3	75 MM	10.00	each	46.95	470.00
9.118	Providing and fixing to existing door frames.				
9.118.2	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a UPVC hollow section of size 60x30 mm and wall thickness 2 mm \pm 0.2 mm with inbuilt decorative moulding edging on one side. The styles and rails mitred and joined at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm \pm 0.1 mm wall thickness. The lock rail made up of 'H' section, a UPVC hollow section of size 100x30 mm and 2 mm \pm 0.2 mm wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm \pm 0.1 mm wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	15.47	sqm	2834.75	43854.00



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9.119	Providing and fixing factory made P.V.C. door frame 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.	21.33	sqm	458.95	9789.00
	<u>STEEL WORK</u>				
10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia, steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	4.68	sqm	5291.30	24763.00
10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces.	7.86	sqm	3073.85	24160.00
10.10	Fixing standard steel glazed doors, windows and ventilators in walls with 15x3mm lugs 10 cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws (only steel windows with lugs, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.)	7.86	sqm	2906.35	22844.00



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10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bent to shape as per standard drawing.	8.00	each	142.95	1144.00
	<u>FLOORING</u>				
11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.				
11.3.1	40mm thick with 20mm nominal size stone aggregate.	23.87	sqm	353.35	8434.00
11.4	52 mm thick cement concrete flooring with concrete hardener topping under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume .hardening compound is mixed @ 2 litre per 50kg of cement or as per manufacturers specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	20.00	sqm	535.25	10705.00
11.36	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sum including pointing in white cement mixed with pigment of matching shade complete.	25.98	sqm	836.65	21736.00



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11.39	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours White, Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	25.63	sqm	950.05	24350.00
11.41	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.				
11.4.2	Size of Tile 60x60 cm	140.00	sqm	1405.95	196833.00
	<u>ROOFING</u>				
12.1	Providing corrugated G.S. sheet roofing including vertical/ curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
12.1.3	0.63 mm thick with zinc coating not less than 275gm/m ²	3.76	sqm	743.45	2795.00



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	12.29	Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087 finished with a coat of aluminium primer on both sides & edges and two coats of synthetic enamel paint of approved quality on exposed face fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T-sections 35 x15x1.5 mm size main runners and cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats. The suspenders shall be placed 600x 1200 mm centre to centre including fixing to the frame with C.P brace screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately.)	42.36	sqm	650.15	27540.00
15	12.41	Providing and fixing on wall face Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes				
	12.41.1	75 MM Diameter	27.56	meter	145.70	4015.00
	12.41.2	110 MM Diameter	51.23	meter	231.65	11867.00
	12.42	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	12.42.1	COUPLER				
	12.42.1.1	75 MM Diameter	9.00	each	108.65	978.00
	12.42.1.2	110 MM Diameter	9.00	each	138.30	1245.00
	12.42.3	Single tee with door				
	12.42.3.1	75*75*75 mm	9.00	each	222.00	1998.00
	12.42.3.2	110*110*110 mm	9.00	each	306.60	2759.00
	12.42.4	Single tee without door				
	12.42.4.1	75*75*75 mm	8.00	each	195.30	1562.00
	12.42.4.2	110*110*110 mm	8.00	each	248.55	1988.00



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	12.42.5	Bend 87.5°				
	12.42.5.1	75 mm bend	12.00	each	113.25	1359.00
	12.42.5.2	110 mm bend	12.00	each	161.55	1939.00
	12.42.6	Shoe (Plain)				
	12.42.6.1	75 mm Shoe	8.00	each	167.35	1339.00
	12.42.6.2	110 mm Shoe	8.00	each	295.10	2361.00
	12.45	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with :				
	12.45.1	12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I,	19.00	sqm	907.10	17235.00



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12.50	Supply & installation of pre-coated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	31.22	sqm	622.00	19419.00
	<u>FINISHING</u>				
13.1	12 mm cement plaster of mix :				
13.1.1	1:4 (1 cement : 4 fine sand)	56.47	sqm	163.50	9233.00
13.1.2	1:6 (1 cement : 6 fine sand)	197.84	sqm	149.50	29577.00
13.2	15 mm cement plaster on rough side of single or half brick wall of mix :				
13.2.1	1:4 (1 cement : 4 fine sand)	60.00	sqm	189.40	11364.00
13.2.2	1:6 (1 cement : 6 fine sand)	60.00	sqm	172.80	10368.00
13.5	15 mm cement plaster on rough side of single or half brick wall of mix :				
13.5.2	1:6 (1 cement : 6 course sand)	96.00	sqm	183.45	17611.00
13.8	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :				
13.8.2	1:6 (1 cement : 6 fine sand)	33.00	sqm	229.30	7567.00
13.18	Neat cement punning:	201.00	sqm	41.40	8321.00
13.16	6 mm cement plaster of mix :				
13.16.1	1:3 (1 cement : 3 fine sand)	55.00	sqm	134.70	7409.00
13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	51.23	sqm	110.95	5684.00



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	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
	13.41.1	New work (two or more coats) over and including priming coat with cement primer.	120.00	sqm	89.70	10764.00
	13.48	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sum over an under coat of primer applied @ 0.80 ltr/ 10 sum of approved brand or manufacture	11.33	sqm	90.00	1020.00
	13.50	Applying priming coat :				
	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	19.84	sqm	27.00	536.00
	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	51.44	sqm	106.25	5466.00
	13.68	French spirit polishing :				
	13.68.1	Two or more coats on new works including a coat of wood filler.	29.65	sqm	193.95	5751.00
	13.69	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :				
	13.69.1	New work	22.00	sqm	85.15	1873.00
		REPAIR WORK				
	14.1	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50metres lead :				
	14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	190.00	sqm	247.80	47082.00
	14.1.2	With cement mortar 1:4 (1 cement : 4 coarse sand).	190.00	sqm	259.15	49239.00
	14.5	Renewing glass panes, with putty and nails wherever necessary:				
	14.5.1	Float glass panes of thickness 4 mm	87.45	sqm	690.70	60402.00

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	14.45	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :				
	14.45.1	Old work (one or more coats)	900.00	sqm	32.00	28800.00
	14.46	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	99.00	sqm	9.90	980.00
	14.47	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
	14.47.1	Old work (one or more coats)	111.00	sqm	40.55	4501.00
		<u>DISMANTLING & DEMOLISHING</u>				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.				
	15.2.1	1:3:6 or richer mix	18.00	cum	892.70	16069.00
	15.2.2	1:4:8 or leaner mix	11.00	cum	550.50	6056.00
	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	18.00	cum	1302.30	23441.00
	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
	15.7.4	In cement mortar	16.00	cum	754.10	12066.00
	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
	15.12.1	Of area 3 sq. metres and below	18.00	each	141.25	2543.00
	15.12.2	Of area beyond 3 sq. metres	26.00	each	193.85	5040.00
	15.14	Dismantling wood work in frames, trusses, purlins and rafters upto 10 metres span and 5 metres height including stacking the material within 50 metres lead:				
	15.14.2	Of sectional area below 40 square centimetres.	35.44	meter	6.85	243.00



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	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	15.23.1	For thickness of tiles 10 mm to 25 mm	78.62	sqm	28.20	2217.00
	15.28	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of:				
	15.28.1	G.S.SHEET	75.00	sqm	62.80	4710.00
	15.28.2	ASBESTOS SHEET	79.68	sqm	29.50	2351.00
	15.42	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :				
	15.42.1	75 to 80 mm dia pipe.	33.63	meter	27.70	932.00
	15.42.2	100 mm dia pipe	54.00	meter	28.60	1544.00
	15.42.3	150 mm dia pipe	39.45	meter	29.45	1162.00
	15.44	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
	15.44.1	15 mm to 40 mm nominal bore	39.45	meter	57.85	2282.00
	15.44.2	Above 40 mm nominal bore	26.33	meter	62.25	1639.00
	15.52	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	23.00	each	354.45	8152.00
	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	22.20	sqm	20.05	445.00
	15.57	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	30.11	sqm	21.85	658.00

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<u>SANITARY INSTALLATIONS</u>						
17.1		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
17.1.1		White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	9.00	each	3392.80	30535.00
17.2		Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
17.2.1		W.C. pan with ISI marked white solid plastic seat and lid	5.00	each	3317.30	16587.00
17.3		Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
17.3.1		W.C. pan with ISI marked white solid plastic seat and lid.	5.00	each	4784.60	23923.00
17.5		Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required :				



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17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	14.00	each	6591.10	92275.00
17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	4.00	each	2010.35	8041.00
17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
17.10.2	Kitchen sink without drain board				
17.10.2.1	610x510 mm bowl depth 200 mm.	3.00	each	4343.45	13030.00
17.11	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the wall wherever required :				
17.11.2	Size 600x450x200mm	2.00	each	3162.75	6326.00
17.17	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet:				
17.17.1	250x130x30 mm	20.00	pair	163.15	3263.00
17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
17.18.1	10 litre capacity - White	11.00	each	865.05	9516.00
17.19	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.				



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	17.19.1	10 litre (full flush) capacity-white	6.00	each	1604.10	9625.00
	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
	17.28.2.2	40 mm dia	70.00	each	76.75	5373.00
	17.34	Providing and fixing toilet paper holder :				
	17.34.1	C.P. brass	12.00	each	415.90	4991.00
	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
	17.69.2	Waste coupling 38mm of 83mm length and 77mm breadth, weighing not less than 60gms.	18.00	each	144.15	2595.00
		<u>WATER SUPPLY</u>				
	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall				
	18.10.1	15 mm dia. nominal bore	36.23	meter	215.10	7793.00
	18.10.2	20 mm dia. nominal bore	26.54	meter	249.30	6616.00
	18.10.3	25 mm dia. nominal bore	25.66	meter	304.15	7804.00
	18.11	Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall.				
	18.11.1	15 mm dia. nominal bore	30.56	meter	306.05	9353.00
	18.11.2	20 mm dia. nominal bore	20.36	meter	333.85	6797.00
	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work :				



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18.12.1	15 mm dia. nominal bore	51.33	meter	186.25	9560.00
18.12.2	20 mm dia. nominal bore	12.00	meter	209.95	2519.00
18.12.3	25 mm dia. nominal bore	24.00	meter	257.30	6175.00
18.12.4	32 mm dia. nominal bore	12.00	meter	281.05	3373.00
18.12.5	40 mm dia. nominal bore	9.00	meter	334.15	3007.00
18.12.6	50 mm dia. nominal bore	16.65	meter	399.50	6652.00
18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
18.13.1	25 to 40 mm nominal bore	6.00	each	367.75	2207.00
18.13.2	50 to 80 mm nominal bore	9.00	each	761.10	6850.00
18.15	Providing and fixing brass bib cock of approved quality :				
18.15.1	15 mm nominal bore	9.00	each	260.60	2345.00
18.16	Providing and fixing brass stop cock of approved quality :				
18.16.1	15 mm nominal bore	23.00	each	260.60	5994.00
18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
18.17.4	50 mm nominal bore	5.00	each	750.75	3754.00
18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
18.18.1	15 mm nominal bore	23.00	each	288.50	6636.00
18.18.3	25 mm nominal bore	18.00	each	449.95	8099.00
18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
18.19.2	32 mm nominal bore				
18.19.2.1	Horizontal	4.00	each	553.30	2213.00
18.19.2.2	Vertical	4.00	each	634.60	2538.00



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	18.19.4	50 mm nominal bore				
	18.19.4.1	Horizontal	3.00	each	988.70	2966.00
	18.19.4.2	Vertical	2.00	each	1209.40	2419.00
	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.21.1.1	15 mm nominal bore	12.00	each	60.10	721.00
	18.32	Constructing masonry Chamber 30x30x50 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design :				
	18.32.1	With F.P.S. bricks	2.00	each	1157.75	2316.00
	18.33	Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :				
	18.33.1	With F.P.S. bricks	1.00	each	6754.30	6754.00



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18.34	Constructing masonry Chamber 90x90x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :				
18.34.1	With F.P.S. bricks	1.00	each	11672.35	11672.00
18.35	Constructing masonry Chamber 120x120x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :				
18.35.1	With F.P.S. bricks	1.00	each	16095.10	16095.00
18.36	Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :				
18.36.1	With F.P.S. bricks	1.00	each	6431.70	6432.00



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18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)				
18.46.1	15 mm nominal bore	23.00	each	165.25	3801.00
18.46.2	20 mm nominal bore	6.00	each	188.25	1130.00
18.46.3	25 mm nominal bore	22.00	each	200.10	4402.00
18.46.4	32 mm nominal bore	5.00	each	240.75	1204.00
18.46.6	50 mm nominal bore	6.00	each	392.40	2354.00
18.47	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :				
18.47.1	15 mm nominal bore	9.00	each	360.50	3245.00
18.47.3	25 mm nominal bore	9.00	each	395.30	3558.00
18.47.4	32 mm nominal bore	7.00	each	436.00	3052.00
18.47.6	50 mm nominal bore	9.00	each	658.60	5927.00
18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931				
18.49.1	15 mm nominal bore	30.00	each	459.50	13785.00
18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
18.50.1	15 mm nominal bore.	30.00	each	796.70	23901.00
18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
18.51.1	15 mm nominal bore.	20.00	each	610.65	12213.00
18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				



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18.52.1	15 mm nominal bore.	15.00	each	619.75	9296.00
18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
18.53.1	15 mm nominal bore.	15.00	each	507.70	7616.00
18.56	Providing and fixing PTMT pillar cock of approved quality and colour .				
18.56.2	15mm nominal bore, 125mm long foam flow. Weighing not less than 120 gms.	12.00	each	298.40	3581.00
18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.				
18.62.1	15 mm nominal bore, 105 mm long. Weighing not less than 138 gms.	12.00	each	232.75	2793.00
18.62.3	25 mm nominal bore, 152mm long. Weighing not less than 440 gms.	12.00	each	554.50	6654.00
18.74	Providing and fixing Unplasticised P.V.C. connection pipe with PTMT Nuts collar and bush of approved quality and colour.				
18.74.1	15 mm nominal bore with 30cm length.	11.00	each	62.54	688.00
18.74.2	15 mm nominal bore with 45 cm length.	6.00	each	74.70	448.00
18.75	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.				
18.75.1	15 mm nominal bore. Weighing not less than 32 gms.	6.00	each	44.15	265.00
18.75.3	25mm nominal bore. Weighing not less than 62 gms.	6.00	each	51.15	307.00
18.77	Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.	6.00	each	193.00	1158.00



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		<u>DRAINAGE</u>				
	19.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
	19.1.1	100 mm diameter	22.00	meter	206.55	4544.00
	19.1.2	150 mm diameter	22.00	meter	314.35	6916.00
	19.1.4	230 mm diameter	21.44	meter	696.50	14933.00
	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
	19.2.1	100 mm diameter S.W. pipe	15.22	meter	592.60	9019.00
	19.2.2	150 mm diameter S.W. pipe	16.00	meter	724.70	11595.00
	19.2.4	230 mm diameter S.W. pipe	11.00	meter	977.00	10747.00
	19.5	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps:				
	19.5.1	100 mm diameter	11.00	meter	32.50	358.00
	19.5.2	150 mm diameter	11.00	meter	35.90	395.00
	19.5.4	230 mm diameter	11.00	meter	40.50	446.00



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	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
	19.21.1	For pipes 100 to 230 mm diameter	18.88	meter	364.60	6884.00
	19.24	Dismantling of manhole including R.C.C. top slab, C.I. cover with frame including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 m lead :				
	19.24.1	Rectangular manhole 90x80 cm and 45 cm deep	3.00	each	937.25	2812.00
	19.24.2	Rectangular manhole 120x90 cm and 90 cm deep	4.00	each	1645.75	6583.00
	19.26	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :				
	19.26.1	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LD - 2.5	4.00	each	1597.15	6389.00
	19.26.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	4.00	each	2503.55	10014.00
	19.33	Constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	4.00	each	2082.45	8330.00
		<u>PILEWORK</u>				



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	20.3	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 35 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
	20.3.1	300 mm dia piles.	9.00	meter	2123.15	19108.00
	20.4	Extra over item No. 20.3 for providing additional bulb in under reamed piles, under specified diameter (Only the quantity of extra bulbs are to be paid).				
	20.4.1	300mm dia piles.	9.00	meter	1474.95	13275.00
		<u>ALUMINIUM WORK</u>				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately) :				
	21.1.1	For fixed portion.				
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	100.00	kg	348.50	34850.00



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	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).				
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	96.32	kg	435.75	41971.00
	21.2	Providing and fixing 12mm thick Pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
	21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	33.23	kg	1040.95	34591.00
	21.3	Providing and fixing glazing in aluminum door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item) :				
	21.3.2	With float glass panes of 5.50 mm thickness	20.00	kg	1054.20	21084.00
		<u>HORTICULTURE LANDSCAPING</u>				
	23.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.	1000.00	100 SQM	2402.55 (DSR 2012)	24025.50
		Qty will be changed as per direction of engineer-in-charge & as per site condition				
TOTAL AMOUNT						2500340.85

Note: The items other than the above schedule will be taken from DSR-2014 applicable in CPWD.

Sub Engineer

University Engineer(I/c)

Seal & Signature of Contractor (Page 75 of 75)