

INDEX

Name of Work: Providing Complete Seating Arrangement for Main Auditorium Hall at AIIMS Bhopal.

Sl.No.	Description	Page
	Index Page	01
1.	Press Notice / Application for inviting open bids	02-04
2.	CPWD 6 for e-tendering	05-09
3.	CPWD Form 7	10-16
4.	Salient/Mandatory Requirements for the tenderer	17-18
5.	Quality Assurance of the work	19-21
6.	Additional Conditions	22-29
7.	General Conditions	30-31
8.	Special Conditions	32-33
9.	Additional Specifications	33-35
10.	Particular Specifications	36-37
11.	Mile Stones of the Contract	38
12.	Annexure-I : Performa for Bank Guarantee Bond	39-40
13.	Annexure-II: Performa for Affidavit	41
14.	Annexure-III to V: Integrity Agreement	42-49
15.	Schedule of quantities	50-52

This NIT contains Fifty Two (52) pages and Amounting to Rs. 88,22,308/- (Rs. Eighty Eight Lakh Twenty Two Thousand Three Hundred and Eight only) is approved.

NOTE: For e-tendering queries Contact Representative(ITI Ltd) - 9981783170

Press Notice/ Application for inviting open bid

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-tendering

The Executive Engineer (O), ABEU, AIIMS Bhopal on behalf of the Director, AIIMS Bhopal invites online Item rate bids from OEM specialized agencies, their authorized dealers, for the following work(s), having completed Three similar works each of value not less than Rs. 36 Lac OR two similar work each of value not less than Rs. 53 Lac OR one similar work of value not less than Rs. 71 Lac in last 7 years ending last day of the month of June' 2017:-

Sl. No.	NIT No.	Name of work & Location	Estimated cost put to bid	Earnest Money	Period of Completion	Last date & time of submission of bid	Period during which EMD, e Tender Processing Fee and other Documents shall be submitted by the lowest tenderer	Time & date of opening of bid
1	01/EE/ABEU/2017-18	Providing Complete Seating Arrangement for Main Auditorium Hall at AIIMS Bhopal.	Rs. 88,22,308/-	Rs. 1,76,450/- (To be returned after receiving performance guarantee)	01 (One Month)	On 31-07-2017 up to 3:00 PM	Within seven days after opening of bid	On 31-07-2017 up to 3:30 PM

- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- Information and Instructions for bidders posted on website shall form of bid document.
- The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.tenderwizard.com/AIIMSBHOPAL or www.aiimsbhopal.edu.in free of cost.
- But the bid can only be submitted after uploading the mandatory details of Demand Draft or Pay order or Banker's Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank towards cost of EMD **Rs 1,76,450/-** (To be returned after receiving performance guarantee) in favour of Director, AIIMS Bhopal and payment of Tender Processing Fee **Rs.8850/-** to be deposited on line to favour of ITI Limited at the and after uploading the mandatory scanned copies of documents as specified.
- Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details

ABEU		AIIMS Bhopal
------	--	--------------

available on the website.

6. The intending bidder must have valid class-III digital signature to submit the bid.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow colour.
10. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as “0”.
Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as “0” (ZERO).
11. The required documents meeting the criteria to qualify as “approved and Eligible OEM Specialized agency and its authorized Dealers” along with other required documents as mentioned under para “List of Documents to be scanned and uploaded within the period of bid submission” below. The EMD and documents uploaded by the agency shall be checked first, while opening the bid. The financial bid of only those agencies shall be opened who are found to be eligible agencies, as per this NIT.
12. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
13. If the agency is not having GSTN registration, he has to get register himself with concerned department before start of work.
14. List of Documents to be scanned and uploaded within the period of bid submission:
 - i. Treasury Challan /Demand Draft/Pay order or Banker`s Cheque /Deposit at Call Receipt/FDR/Bank Guarantee of any Scheduled Bank against EMD.
 - ii. The Specialized bidders should upload the **Experience certificate showing completion value of similar work, where Similar work mean “work of providing seating arrangement for Auditorium”. If the tender for which experience certificate is used is having wider scope than the value of work done for providing and fixing chairs shall be clearly marked in completion certificate, which will form the basis of acceptance criteria. The copy of bill of quantity/ final bill paid is also to be attached with the completion certificate to asses the value of relevant portion of similar work.**
 - iii. The authorization letter from the OEM specialized agency, authorizing the dealer participating in the bid for supplying the chairs for this particular work to the dealer within specified time frame. The dealer has to attach experience certificate in his own name. The experience certificate of OEM will not be counted towards qualification of dealer.

ABEU		AIIMS Bhopal
------	--	--------------

- iv. The bidders are required to upload scanned copy of their PAN Card and VAT Registration/ GST Registration.
- v. **An undertaking that “The Physical EMD shall be deposited by me/us with the EE calling the tender in case I/we become the lowest tenderer within a week of the opening of financial bid otherwise department may reject the tender and also take action to withdraw my/our enlistment or blacklist me for future tenders.”**
- vi. An undertaking by the bidder for not subletting work for which experience certificate is given for eligibility of qualification of this work, as required in CPWD 6 of this NIT.

Executive Engineer (O)
ABEU, AIIMS Bhopal

CPWD

CPWD-6 FOR e-TENDERING

1. Item rate bids are invited on behalf of Director AIIMS Bhopal from OEM specialized agencies, their authorized dealers, for the following work(s), having completed Three similar works each of value not less than Rs. 36 Lac OR two similar work each of value not less than Rs. 53 Lac OR one similar work of value not less than Rs. 71 Lac in last 7 years ending last day of the month of June' 2017 for the work of:

Providing Complete Seating Arrangement for Main Auditorium Hall at AIIMS Bhopal.

- 1.1 The work is estimated to cost **Rs. 88,22,308/-**. This estimate, however, is given merely as a rough guide.
- 1.2 Intending bidders is eligible to submit the bid provided he has 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:-

Criteria of eligibility for submission of bid documents**1.2.1 Conditions for Specialized Agencies contractors only.**

Similar work mean "work of providing seating arrangement for Auditorium". If the tender for which experience certificate is used is having wider scope than the value of work done for providing and fixing chairs only shall be clearly marked in completion certificate, which will form the basis of acceptance criteria. The copy of bill of quantity/ final bill paid is also to be attached with the completion certificate to assess the value of relevant portion of similar work.

1.2.2 Criteria of eligibility for non-CPWD/ specialized contractors.

Three similar works each of value not less than Rs. 36 Lac OR two similar work each of value not less than Rs. 53 Lac OR one similar work of value not less than Rs. 71 Lac in last 7 years ending last day of the month of June' 2017. 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 submission of bid.

1.2.3 To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in AIIMS Bhopal in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. **(Scanned copy to be uploaded at the time of submission of bid).**

- 1.2.4 When bids are invited from non CPWD contractors, it will be **mandatory for Non- CPWD contractors** to upload the **work experience certificate(s)** and the **affidavit** as per the provisions of clause 1.2.3 above.
- 1.2.5 Online financial bids submitted by intending bidders shall be opened only of those bidders, whose “Earnest Money Deposit, e-tender Processing Fee” and “other documents including eligibility documents as required as per this NIT” are uploaded and are found in order.
2. Agreement shall be drawn with the successful bidder on prescribed Form No. CPWD Form 8 which is available as a Govt. of India Publication. Bidder shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **01 (One Month)** from the date of start as defined in schedule ‘F’ or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website www.tenderwizard.com/AIIMSBHOPAL or www.cpwd.gov.com or www.eprocure.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. Earnest Money in the form of Treasury Challan or demand Draft or Pay order of Banker’s Cheque or Deposit at call Receipt or fixed Deposit receipt (drawn in favour of Director, AIIMS Bhopal, payable at Bhopal, shall be scanned and uploaded to the e-Tendering website within the period of bid submission.
- A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs. 20 lac, whichever is less, will have to be deposited in shape prescribed above, and balance in shape of Bank Guarantee of any scheduled bank which is to be scanned and

uploaded by the intending bidders.

The physical EMD of the scanned copy of EMD uploaded shall be deposited by the lowest tenderer within a week after opening of financial bid failing which the tender shall be rejected and enlistment of the agency shall be withdrawn by the enlisting authority.

The following undertaking in this regard shall also be uploaded by the intending bidders:-

“The Physical EMD shall be deposited by me/us with the EE calling the tender in case I/we become the lowest tenderer within a week of the opening of financial bid otherwise department may reject the tender and also take action to withdraw my/our enlistment or blacklist me for future tenders.”

Interested contractor who wish to participate in the bid has also to make following payments within the period of bid submission:

- (i) e-tender Processing Fee – As per details on tenderwizard website, shall be payable to M/s ITI Limited through their e-gateway by credit/debit card, internet banking or RGTS/NEFT facility or as specified on website.

Copy of Enlistment order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. **However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority.**

Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited e-Tender Processing Fee with M/s ITI limited and Earnest Money Deposit and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at **03:30 PM** on 31 July 2017.

10. The bid submitted shall become invalid an e-Tender Processing Fees shall not be refunded if:
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload all the documents as stipulated in the bid documents **including the undertaking about deposition of physical EMD of the scanned copy of EMD uploaded.**
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted **physically by the lowest tenderer** in the

office of tender opening authority.

- (iv) **The lowest bidder does not deposit physical EMD within a week of opening of tender.**

11. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the bided amount within the period specified in 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 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.
12. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids 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 bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder 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 bid by a bidder 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.
13. The competent authority on behalf of the Director AIIMS Bhopal, does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.

15. The competent authority on behalf of the Director AIIMS Bhopal reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in AIIMS Bhopal, if his near relative is posted in any official capacity at a level of Group C and above. 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 gazette officer in the AIIMS Bhopal or MoHFW. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. 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. This 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 bid or engagement in the contractor's service.
18. The bid for the works shall remain open for acceptance for a period of ninety (90) days from the date of opening of bids. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the AIIMS Bhopal shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidder shall not be allowed to participate in the rebidding process of the work.
19. This notice inviting Bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
 - a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b) Standard C.P.W.D. Form 8 or other Standard C.P.W.D. Form as mentioned.
20. If the agency is not registered with GST of MP State department earlier, he has to get register himself with concerned authorities of Tax Department as required in prevailing rules before start of work/ making them eligible for payment.

Executive Engineer (O)
ABEU, AIIMS Bhopal

ABEU		AIIMS Bhopal
------	--	--------------

CPWD-8

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BHOPAL

STATE	M.P.	CIRCLE	II
BRANCH	ABEU	DIVISION	Civil Division
ZONE		SUB-DIVISION	

ITEM RATE TENDER AND CONTRACT FOR WORKS

Tender for the work of: Providing Complete Seating Arrangement for Main Auditorium Hall at AIIMS Bhopal.

- i) **To be submitted by 3.00 PM on 31-07-2017 online on www.tenderwizard.com/ AIIMSBHOPAL.**
- ii) The Bid shall be opened in presence of tenderers who may be present at **3.30 PM on 31-07-2017** in the office of the: **Executive Engineer, ABEU, AIIMS Bhopal.**

TENDER

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.

I/We hereby tender for the execution of the work specified for the Director AIIMS Bhopal, 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.

We agree to keep the tender **open for ninety (90) days from the date of opening of bid** and not to make any modifications in its terms and conditions.

A sum of **Rs. 1,76,450/- (To be returned after receiving performance guarantee)** is hereby forwarded in Cash/Receipt Treasury Challan/Deposit at call Receipt of a Scheduled Bank/Fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by scheduled bank as earnest money. If I/we, fail to furnish the prescribed performance guarantee or fail to commence the work within prescribed period I/we agree that the said President of India or his successors in office shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail of commence work as specified, I/we agree that Director, AIIMS Bhopal or his successors in office 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, up to 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 & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

ABEU		AIIMS Bhopal
------	--	--------------

I/We undertake and confirm that eligible similar work(s) has/ have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in AIIMS Bhopal in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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 there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

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

_____)

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

- a) _____
- b) _____
- c) _____

For & on behalf of the Director, AIIMS Bhopal

Dated _____

Signature _____
 Designation _____

SCHEDULES

SCHEDULE 'A'

Schedule of Quantities (as per PWD-3) : **As per separate sheets attached**

SCHEDULE 'B'

ABEU		AIIMS Bhopal
------	--	--------------

Schedule of materials to be issued to the contractor:

S. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
-----NIL -----				

SCHEDULE 'C'

Schedule of Tools and Plants to be hired to the contractor :

S. No.	Description	Hire charges per day	Place of issue
1	2	3	4
-----NIL -----			

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any:

As attached in tender form

SCHEDULE 'E'

Reference to General Conditions of contract. : General Conditions of contract for Central PWD Works 2010 as amended/ modified up to 06.09.2013.

Name of Work:	Providing Complete Seating Arrangement for Main Auditorium Hall at AIIMS Bhopal.
Estimated cost of the work:	Rs. 88,22,308/-
Earnest money	Rs. 1,76,450/- (To be returned after receiving performance guarantee).
Performance Guarantee	5% (Five percent) of tendered value of the work.
Security Deposit	2.5% (Two Point Five percent) of tendered value or 2.5% of tendered value plus 50% PG for contracts involving maintenance of the building and services/any other work also.

SCHEDULE 'F'

General rules and direction

Officer inviting tender	Executive Engineer, ABEU, AIIMS Bhopal
Maximum percentage of quantity of items of work to be executed beyond which rates are to be determined in accordance with Clause 12.2 & 12.3	See at appropriate clause under definitions

Definitions :

2(v) **Engineer-in-Charge :**

**Executive Engineer, ABEU,
AIIMS Bhopal**

ABEU		AIIMS Bhopal
------	--	--------------

- 2(vii) **Accepting Authority :** **Superintending Engineer, Project Cell, MoHFW AIIMS Bhopal**
- 2(x) Percentage on cost of materials and labour to cover all overheads and profits : 15%
- 2(xi) **Standard Schedule of Rates:**
Civil Items of Work: **DSR 2016 and Market Rates** with up to date correction slips
- 2(xii) Department: ABEU, AIIMS Bhopal
- 9(ii) Standard CPWD contract Form: GCC 2014, CPWD Form 8 as modified & corrected up to **30 Jun 2017** (Whether corrections vide latest circulars are incorporated or not in this document).

- Clause 1**
- i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance 10 Days
- ii) Maximum allowable extension beyond the period as provided in i) above 5 Days
- Clause 2** Authority for fixing Compensation under Clause 2 **Superintending Engineer AIIMS Bhopal, Project Cell MoHFW, or successor thereof**
- Clause 2 A** Whether Clause 2A shall be applicable **No**
- Clause 5**
- i) Number of days from the date of issue of letter of acceptance for reckoning date of start **11 Days**
- ii) Time allowed for execution of work **01 (One Month)**

- Authority to decide**
- Extension of time** **Superintending Engineer AIIMS Bhopal, Project Cell MoHFW**
- Rescheduling of mile stone** **Superintending Engineer AIIMS Bhopal, Project Cell MoHFW, or successor thereof.**
- Shifting of date of start in case of delay in handing over of site** **Superintending Engineer AIIMS Bhopal, Project Cell MoHFW or successor thereof.**

Mile stone/Bar Chart(s)- **As per construction programme attached in bid**
Note:- In the event of not achieving the necessary progress as assessed from mile stone chart, 1% of the accepted tendered value of work will be withheld for failure of each mile stone.

Clause 6/ 6A Clause applicable : **Clause 6A**

Clause 7	Gross work to be done together with net payment/Adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Not Applicable
Clause 10A	List of testing equipment to be provided by the contractor at site lab.	Refer Page 17
Clause 10 B (ii), (iii)	Whether clause 10-B (ii) and 10-B (iii) shall be applicable.	No
Clause 10 C	Component of labour expressed as percentage of value of work	Not Applicable
Clause 10 CA	Materials covered under this clause.	NA Base price of all the materials covered under clause 10 CA
	1. Cement (PPC) 2. Steel	1. NA 2. NA
Clause 10 CC	Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	<u>Not applicable</u>
Clause 11	Specification to be followed for execution of work:	
For Civil items of work	CPWD Specifications 2009 Vol. 1 and Vol. 2 with up to date correction slips. (Hereinafter called CPWD specifications) and as per manufacturer's specification and recommendation.	
Clause 12	Type of Work	Original Work
12.2 & 12.3	Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work	30%
12.5 (i)	Deviation limit beyond which clause 12.2 & 12.3 shall apply for foundation work	30%
(ii)	Deviation limit for items in earth work sub head of DSR or related items	100%
Clause 16	Competent Authority for Deciding reduced rates:	
	For various items of work	Superintending Engineer AIIMS Bhopal, Project Cell MoHFW
Clause 18	List of mandatory machinery, tools & plants to be deployed by the contractor at site.	As per Bid Document
Clause 25	Standing committee for Dispute Redressal of AIIMS Bhopal	

ABEU		AIIMS Bhopal
------	--	--------------

(A) For total claims more than RS. 25.0 Lakhs.

- | | |
|---|-------------------|
| a. Director, AIIMS Bhopal. | (Chairman) |
| b. Dy. Director, AIIMS Bhopal | (Member) |
| c. Financial Advisor, AIIMS Bhopal | (Member) |
| d. The SE in-Charge of the work shall present case before DRC but shall not have any part in decision making. | (Member) |

(B) For Total claims up to RS. 25.0 Lakhs.

- | | |
|---|-------------------|
| a. Dy. Director, AIIMS Bhopal | (Chairman) |
| b. Financial Advisor, AIIMS Bhopal | (Member) |
| c. Sr Administrative Officer, AIIMS Bhopal
OR Administrative Officer, AIIMS Bhopal | (Member) |
| d. The SE in-Charge of the work shall present case before DRC but shall not have any part in decision making. | (Member) |

Clause 36(i) Requirement of Technical Representative(s) and Recovery Rate

Sl. No.	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) Per person	
						Figures (` Per person)	Words (` Per person)
1	i) Graduate Engineer	Civil	Principal Technical Representative	5years	1 No	15,000/-pm	Fifteen Thousand

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Even if contractor (or partner in case of firm/company) is himself an Engineer/Overseer(s), it is necessary on part of contractor to employ Engineer(s) and/or/Overseer for the supervision of the work(s) as per stipulation.

Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with graduate engineers for the purpose of such deployment subject to the condition that such diploma holder should not exceed 50% of requirement of degree engineers.

For supervision of civil as well as electrical items of work, technical representatives of the respective disciplines will be required to be deployed.

ABEU		AIIMS Bhopal
------	--	--------------

- i) a) Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2016 printed by CPWD DSR-2016
- ii) **Variations permissible on theoretical quantities**
- a) Cement for works with estimated cost put to tender not more than Rs. 5 lakhs. **3% plus/minus**
For works with estimated cost put to Tender is more than Rs. 5 lakhs **2% plus/minus**
- b) Bitumen all works **2.5% plus only & nil on minus side.**
- c) Steel reinforcement and structural steel Sections for diameter, section and category. **2% plus/minus.**
- d) All other materials **Nil**

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl No	Description of items	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement (PPC)	N. A	Rs. 7,150/- Per MT
2.	Steel reinforcement (TMT Bars)		Rs. 56,595/- Per MT

SALIENT / MANDATORY REQUIREMENTS FOR THE TENDERER

Name of Work: Providing Complete Seating Arrangement for Main Auditorium Hall at AIIMS Bhopal.

- 1 The tenderer is advised to read and examine the tender documents for the work and the set of drawings available with Engineer-in-charge. He should inspect and examine the site and its surroundings by himself before submitting his tender.
- 2 ~~Separate schedule of quantity is included in this tender for civil and electrical items of work. If the tenderer wants to offer any unconditional rebates on their rates, the same should also be offered in the respective components of civil and electrical schedule separately. The contractor shall quote the percentage rates in figures and words accurately so that there is no discrepancy in rates written in figures and words.~~
- 3 Time allowed for the execution of work is **01 (One Month).**
- 4 The contractor(s) shall submit a detailed program of execution in accordance with the master programme/milestone within ten days from the date of issue of award letter.
- 5 Quality of the project is of utmost importance. This shall be adhered to in accordance with the provisions of CPWD specifications and guidelines given in the relevant paras.
- 6 The contractor (s) shall make his own arrangements for electricity and water required for the execution of work.
- 7 **Cement shall be arranged by the contractor himself.**
- 8 **Steel Reinforcement shall be arranged by the contractor himself.**
- 9 Contractor has to deploy required Plant and machinery on the project. Minimum number of plant and machinery to be deployed by him is indicated in this NIT. However, if any additional type and number of plants and machines are required at site, the same shall be deployed by the agency without any extra cost which shall be in order to adhere to the time schedule, as specified in this NIT. In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, he (Engineer-in-charge) shall be at a liberty to get the same deployed at the risk and cost of the contractor.
- 10 The contractor shall submit the running bills in the shape of the computerised MB in pages of A-4 size as per the standard format of department and shall act as per modified clause 6A of CPWD form 8.
- 11 Contractor has to provide reinforcement cover blocks made of approved proprietary pre packed free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemical India Ltd. or approved equivalent) of high early strength.

~~The contractor shall submit list of works which are in hand (progress) in the following form (For non CPWD Contractors for work upto 15 crores & for CPWD as well as non CPWD contractors for work beyond 15 crores.):~~

Name of work	Name and particulars of Divn. where work is being executed	Value of work	Position of works in progress		Remarks
			Stipulated	Actual	
1	2	3	4	5	6

- 12 The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.

- 13 In the case of any tender where unit rate of any item / items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation such a tender is liable to be disqualified and rejected.
- 14 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 Schedule "F".
- 15 The Contractor, whose tender is accepted, will also be required to furnish by way of Security deposit for the fulfillment of his contract, an amount equal to 5% of the tendered value of the work. The Security deposit will be collected by deductions from the running bills of the contractor at the rates mentioned above and the earnest money deposited at the time of tender, will be treated as a part of the security deposit.
- 16 On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-charge.
- 17 GST, purchase tax, turnover tax or any other tax on material in respect of this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same.
- 18 The contractor shall give a list of both Gazetted and Non-Gazetted CPWD employees related to him.
- 19 The tender for composite work includes in addition to building work all other works such as sanitary and water supply installations drainage installation, electrical work, horticulture work, roads and paths etc. The tenderer apart from being a registered contractor (B&R) of appropriate class, must associate himself with agencies of appropriate class which are eligible to tender for sanitary and water supply drainage, electrical and horticulture works in the composite tender.
- 20 The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Superintending Engineer/Executive Engineer may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

QUALITY ASSURANCE OF THE WORK

1. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.
2. The contractor shall get the source of all other materials, not specified elsewhere in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.
3. The contractor shall submit shop drawings of staging and shuttering arrangement, aluminum work, and other works as desired by Engineer In Charge for his approval before execution. The contractor shall also submit bar bending schedule for approval of Engineer –in – charge before execution.

4. Test Laboratories : (If required at site)

A). Laboratory at Site :

The contractor shall provide at site, the testing equipment and materials for the field tests mentioned in the list of mandatory tests given in CPWD specifications 2009 Vol. 1 & 2 at his own cost. Nothing extra shall be payable to him on this account. In all cases, cost of samples and to and fro carriage shall be borne by the contractor.

The representatives of the department shall be at liberty to inspect the testing facilities at site and conduct testing at random in consultation with Engineer in charge. The contractor shall provide all necessary facilities for the purpose. The laboratory shall be equipped, inter alia, with the following equipments:

- a) **Balances:**
 - i) 7 kg to 10 kg capacity, semi-self indicating type – Accuracy 10 gm.
 - ii) 500 gm capacity, semi-self indicating type Accuracy 1 gm.
 - iii) Pan Balance- 5 kg Capacity- Accuracy 10 gm.
- b) **Ovens-** Electrically operated, thermostatically controlled upto 1100C: Sensitivity 10C.
- c) **Sieves:** as per IS: 460
 - i) IS 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.
 - ii) IS Sieves – 200 mm internal dia (brass frame) consisting of 2.36 mm, 1.18 mm, 500 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
- d) Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly.
- e) Equipment for slump test- slump cone, steel plate, taping rod, steel scale, scoop.
- f) Equipment for concrete testing
 - i) Concrete cube moulds 15x15x15cm. 18Nos.
 - ii) Pruning Rods 2Kg weight length 40cm and ramming face 25mm 1 No.
 - iii) Extra Bottom plates for 15cm cube mould 6 Nos.
 - iv) Standard Vibration table for cubes 1 No
 - v) Dial gauges 25 mm travel- 0.01 mm/division Least count- 1 No.
 - vi) Compression testing machine of 100 tonne capacity. 1 No.

All test which can be performed in the site lab with above equipments shall be done at site except that at least 10% testing of materials shall be got done from external laboratories. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation. The testing charges shall be born by the Contractor / Department in the manner described in Para-B below.

B) Other Laboratories :

The contractor shall arrange carrying out of all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including fee for testing. The said cost of tests shall be borne by the contractor/department in the manner indicated below.

- i) By the contractor, if the results show that the test does not conform to relevant CPWD Specifications / BIS code or specification mentioned elsewhere in the documents
- ii) By the department, if the results conform to relevant CPWD Specifications / BIS code or specification mentioned elsewhere in the documents.

However, no testing charges will be payable by the contractor for the tests conducted in CPWD laboratories.

If the tests, which were to be conducted in the site laboratory, are conducted in other laboratories for whatever the reasons, the cost of such tests shall be borne by the contractor.

5. Sampling of Materials :

Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.

6. The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge.
7. BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate or test certificate from approved testing laboratory to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and/or the work done.
8. The contractor shall procure all the materials at least in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.
9. All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
10. The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.

11. QUALITY & QUARRIES OF STONE AGGREGATE & SAND

The Stone aggregate/stone shall be brought from quarries as approved by the Engineer-in-charge, as shown below against each or any other quarry. The materials shall however confirm to CPWD specifications.

ABEU		AIIMS Bhopal
------	--	--------------

Stone/Sand	From
Stone aggregate 40mm nominal size and above	Material to be obtained from the bonafide Quarries and matching to the CPWD Specifications and terms and conditions of this agreement.
Stone aggregate 20mm nominal size and below	-- Do --
Stone for soling	-- Do --
Coarse sand of fineness modulus 2.5 to 3.5 and confirming to CPWD specifications 2009.	-- Do --
Fine sand of fineness modulus 1.2 to 1.6 and confirming to CPWD specifications 2009.	-- Do --

12. The contractor shall provide approved type of supports for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings. Spacer blocks of required shape and size, MS chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. Spacer blocks shall be cast well in advance with approved proprietary pre-packed free flowing mortars (conbextra as manufactured by M/s Fosroc Chemicals India Ltd. or approved equivalent) of high early strength. Blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-Charge. Rate of item of steel reinforcement is inclusive of cost of such cover blocks.

ADDITIONAL CONDITIONS

1. Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same. Extra payment for centering/shuttering, if required to be done for heights greater than 3.5 m shall however be admissible at the rates arrived at in accordance with clause 12 of the agreement, if not already specified.
2. The contractor shall make his own arrangement for obtaining electric connection(s) if required and make necessary payments directly to the department concerned.
3. Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.
4. 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 restrictions/instructions and nothing extra shall be payable on account of the same.
5. The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality and abide by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.
6. The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
7. The work of water supply, internal sanitary installations and drainage etc. shall be carried out as per the bylaws of the Municipal Corporation or any other local body and the contractor shall produce necessary completion certificates from such authority after completion of work.
8. All water tanks, taps, sanitary, water supply and drainage pipes fittings and accessories etc. shall conform to the bylaws and specifications of the Municipal Body/Corporation where CPWD specifications are not available.
9. The contractor shall engage licensed plumbers for the work and the materials (fixtures/fittings) tested by the local Municipal Body/Corporation wherever required at his own cost. Nothing extra shall be paid/reimbursed for the same.
10. The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, electricity etc. and nothing extra whatsoever shall be payable for the same.
11. If as per local Municipal regulations, huts for labour are not to be erected at the site of work, the contractor shall be required to provide such accommodation at a place as is acceptable to the local body and nothing extra shall be paid on this account.
12. The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.
13. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.
14. Samples of various materials required for testing shall be provided free of charges by the contractor. Testing charges, if any, unless otherwise provided shall be borne by the department.

All other expenditure required to be incurred for taking the samples; conveyance, packing etc. shall be borne by the contractor himself.

15. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been in-built in the items and nothing extra shall be payable (or) extra cement considered in consumption on this account.
16. For the purpose of recording measurements and preparing running account bills, the abbreviated nomenclature indicated in the publications Abbreviated Nomenclature of Items of DSR 2007 shall be accepted. The abbreviated nomenclature shall be taken to cover all the materials and operations as per the complete nomenclature of the relevant items in the agreement and relevant specifications.

In case of items for which abbreviated nomenclature is not available in the aforesaid publication and also in case of extra and substituted items for which abbreviated nomenclature are not provided for in the agreement, full nomenclature of item shall be reproduced in the measurement books and bill forms for running account bills.

For the final bill, however, full nomenclature of all the items shall be adopted in preparing abstract in the measurement books and in the bill forms.
17. The contractor shall have to make approaches to the site, if so required and keep them in good condition for transportation of labour and materials as well as inspection of works by the Engineer in charge. Nothing extra shall be paid on this account.
18. No payment will be made to the contractor for damage caused by rains, or other natural calamities during the execution of the works and no such claim on this account will be entertained.
19. The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked/collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.
20. Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.
21. It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
22. In case the supply of timber/steel frames/shutters for doors, windows etc. is made by some other agency, the contractor shall make necessary arrangements for their safe custody on the direction of the Engineer-in-charge till the same are fixed in position by him & nothing extra shall be paid on this account.
23. The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
24. The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc. collected by him for execution of the work, directly to the Revenue authority or authorized agents of the State Government concerned or the Central Government, as the case may be.
25. Various factory made materials shall be procured from reputed and approved manufacturers or their authorized dealers. Decision of Engineer in charge in this regard shall be final and binding.
26. It must be ensure that all materials to be used in work bear BIS certification mark. In cases where BIS certification system is available for a particular material/product but not even a single producer has so far approached BIS for certification the material can be used subject to the condition that it should confirm to CPWD specification and relevant BIS codes. In such case written approval of the Technical sanctioning Authority may be obtained before use of such material in the work.

27. Contractor shall have to execute a Guarantee Bond in respect of Water Proofing works as per Performa attached in this N.I.T. He shall also have to execute guarantee bonds for water supply and sanitary installations work on the Performa attached in this NIT..
28. The terms machine batched, machine mixed and machine vibrated concrete used elsewhere in agreement shall mean the concrete produced in concrete batching and mixing plant and if necessary transported by transit concrete mixers, placed in position by the concrete pumps, tower crane and vibrated by surface vibrator /needle vibrator / plate vibrator, as the case may be to achieve required strength and durability.
29. Wherever work is specified to be done or material procured through specialized agencies, their names shall be got approved well in advance from Engineer in charge. Failure to do so shall not justify delay in execution of work. It is suggested that immediately after award of work, contractor should negotiate with concerned specialist agencies and send their names for approval to Engineer in charge. Any material procured without prior approval of Engineer in charge in writing is liable to be rejected. Engineer in charge reserves right to get the materials tested in laboratories of his choice before final acceptance. Non standard materials shall not be accepted.
30. Doors and frames shall be procured from specialist firms and name of such agencies shall be got approved from the Engineer in charge well in advance.
31. The construction joints shall be provided in predetermined locations only as decided by Engineer in charge. The cost of shuttering for these construction joints shall be included in item of Concrete work / RCC work and nothing extra shall be payable on this account to the contractor.
32. The gradation of fine sand to be used in plaster work shall be strictly as per CPWD Specifications 2009, conforming to IS 1542-1977. The plastered surface shall be fairly smooth without any undulation of any kind for applying paint/white wash.
33. No chase cutting/dismantling of plaster/RCC/CC shall be allowed, so contractor has to execute the electrical work accordingly.
34. The contractor shall invariably prepare the samples of finishing items i.e. flooring of different types, external & internal finishing i/c colour scheme of paint, tiles in dado, flooring in platforms & staircase, water supply & sanitary fittings and any other item as per direction of Engineer-in-charge. The contractor shall proceed with further finishing items only after getting the samples of these items approved in writing from Engineer-in-charge. In case of construction of residential quarters, one sample quarter complete in all shape for each category, shall be prepared by the contractor and got approved from Engineer-in-charge in writing. The contractor shall be allowed to proceed with further quarters only after getting the sample quarters approved in writing from Engineer-in-charge No extra claim whatsoever beyond the payments due at agreement rates will be entertained from the contractor on this account.
35. The contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case, he or his authorized representative is not present or does not associate him, the results or such tests and consequences thereon shall be binding on the contractor.
36. The contractor shall get the water tested with regard to its suitability of use in the works and get written approval from the Engineer in charge before he proceeds with the use of same of execution of works. If the tube-well water is not suitable, the contractor shall arrange Municipal water or from any other sources at his own cost and nothing extra shall be paid to the contractor on this account. The water shall be got tested at frequency specified in latest CPWD specifications/BIS code.
- 37. Departmental Issue of Materials:**
- 37.1 The materials shall be issued to the contractor at the place of delivery as mentioned in the Schedule-B during the working hours as per the rules of CPWD stores in force from time to time. If these are delivered at any other place, adjustments on accounts of the difference in cost of cartage shall be affected as per the terms of clause 12 of the contract agreement. The contractor shall however have to cart the materials to the site of work at his cost as soon as these are issued.

ABEU		AIIMS Bhopal
------	--	--------------

- 37.2 Materials like reinforcing bars, flats, tees, angles, sheets, CI and SCI pipes etc., if contemplated to be issued shall be issued in available sizes and lengths and the contractors shall bear the cost of cutting and shaping them according to the requirements of work. No claim for the wastage on this account shall be entertained.
- 37.3 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by the departments and shall construct suitable godowns, yards at the site of work for storing all materials as to be safe against damage by sun, rain, dampness, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose, at his own cost. Materials to be charged directly to work and stipulated for issue free of cost shall also be issued to the contractor as soon as those are received at site or at the stipulated place of issue. The provision of this para shall apply equally and fully to those as well.
- 37.4 All materials obtained from the Govt. stores or otherwise on receipt shall be got checked by the Engineer-in-charge of the work or his representations before use.
- 37.5 Registers for the materials to be issued by the department shall be maintained as required by the Engineer-in-charge and these shall be signed by the contractor or his authorized agent and representative of Engineer-in-charge on each day of transactions.
- 37.6 Cement bags shall be stored in separate godowns to be constructed by the contractor at his own cost as per sketch (which is only indicative and actual size will depend on the site requirements) given in CPWD specifications with weather proof roofs and walls. Each godown shall be provided with a single shutter door with two locks. The key of one lock shall remain with Engineer-in-charge or his authorized representative and that of the other lock with the authorized agent of the contractor at the site of work so that the cement is issued from the godown according to the daily requirements with the knowledge of both parties and proper account for the same is maintained in the standard proforma.

**PROFORMA FOR THE CEMENT REGISTER
PARTICULARS OF RECEIPT**

Date of receipt	Quantity received	Progressive total	Date of issue	Quantity issued	Items of work for which issued
1	2	3	4	5	6

PARTICULARS OF ISSUE

Qty. returned at the end of the day	Total issued	Daily balance in hand	Contractor's initial	JE's initial	Remarks (AE/EE's periodical check)
7	8	9	10	11	12

Separate cement registers showing the receipt of the OPC and PPC shall be maintained at site. The contractor shall construct separate godowns for storage of OPC & PPC at site and nothing extra on this account shall be payable.

- 37.7 Cement issued shall be for consumption at site only. No cement for factory made items and those not manufactured at site shall be issued.

38. CONDITIONS FOR CEMENT PROCURED BY THE CONTRACTOR:

- 38.1 The contractor shall procure **Portland Pozzolana Cement** (conforming to IS: 1489 -Part-I), as required in the work, from reputed manufacturers of cement, having a production capacity of one million tones or more, such as A.C.C., Ultratech, J.P., Vikram, Shri cement, Birla Jute 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 right to accept or reject name(s) of cement manufacturer(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 manufacturers, given by the tenderer, fully or partially.
- 38.2 Supply of cement shall be made in 50 kg. bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of the relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS code 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. 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 test does not conform to relevant CPWD Specifications / BIS code or specification mentioned elsewhere in the documents.
 - b) By the department, if the results conforms to relevant CPWD Specifications / BIS code or specification mentioned elsewhere in the documents.
- 38.3 The cement shall be brought at site in bulk supply of approximately 30 tonnes or as directed by the Engineer-in-Charge.
- 38.4 The cement godown of the capacity to store a minimum of 1000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.
- 38.5 Double locks provision shall be made to the door of cement godown. The keys of the one lock shall remain with the Engineer-in-Charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godowns so that the cement is removed from the godowns according to the daily requirement with the knowledge of both the parties and proper account maintained in standard Performa. The contractor shall facilitate the inspection of the cement godowns by the Engineer-in-Charge or his authorized representatives at any time.
- 38.6 The cement shall be got tested by Engineer-in-charge and shall be used on 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.
- 38.7 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained 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. In case the cement consumption is less than theoretical consumption including variations, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to made.
- 38.8 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.
- 38.9 Damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in written from Engineer-in-Charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the contractor.
- 38.10 Wet curing period shall be enhanced to a minimum of 10 days or its equivalent. In hot & arid regions, the minimum curing period shall be 14 days or its equivalent.
- 38.11 Till the time, BIS makes it mandatory to print the %age of fly ash on each bag of cement, the certificate from the PPC manufacturer indicating the same shall be obtained and permission obtained from Engineer-in-Charge before use of such cement in works.

38.12 The contractor may use OPC in place of PPC only after written permission of Engineer-in-Charge. In such case, no extra payment shall be made in any form to the contractor by the Department.

39. CONDITIONS FOR STEEL REINFORCEMENT FOR RCC WORKS PROCURED BY THE CONTRACTOR:

39.1 The contractor shall procure TMT bars of **Fe 500D** grade from primary producers such as **SAIL or TISCO or RINL** as approved by Ministry of Steel. The TMT bars procured from primary producers shall conform to manufacture's specifications.

39.2 TMT bars procured from primary producers, the specifications shall meet the provisions of IS 1786: 2008 pertaining to **Fe 500D** grade of steel.

39.3 The contractor shall have to obtain vouchers and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.

39.4 Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in the 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 1.1 and 1.2 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 of written orders from the Engineer-in-charge to do so.

39.5 The steel reinforcement shall be brought to the site in bulk supply of 20 tonnes or more or as directed by the Engineer-in-charge.

39.6 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion & 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.

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

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

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.
- 39.8 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 the conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
- 39.9 The steel brought to the site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 39.10 Steel bars brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
- 39.11 If the quantity of steel actually used in the work is found to be more than the theoretical quantity of steel including authorised variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that after the completion of the work the quantity of steel used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in clause 42). The cost of quantity of steel so less used shall be recovered from the contractor at rate as specified in schedule 'F'. Decision of the Engineer-in-Charge in regard to theoretical quantity of steel which should have been actually used and recovery of the rate specified shall be final and binding on the contractor.
- 39.12 In case the contractor brings surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.
- 39.13 Reinforcement including authorised spacer bars and lappages shall be measured in length of different diameters, as actually (not more than as specified in the drawing) used in the work, nearest to a centimeter. Wastage and unauthorised overlaps shall not be measured.
- 39.14 The standard sectional weights referred to as in Table 5.4 under para 5.3.4 in CPWD specifications for works 2009 Vol. 1 will be considered for conversion of length of various sizes of MS bars, Tor steel bars and TMT bars into standard weight.
- 39.15 Records of actual sectional weight shall also be kept dia-wise & 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.
- 39.16 If the derived weight as in para 39.15 above is lesser than the standard weight as in para 39.14 above, the derived actual weight shall be taken for payment.

If the derived actual weight is found more than the standard weight then the standard weight as worked out in para 39.14 above shall be taken for payment. In such case nothing extra shall be paid for the difference between the derived actual weight and the standard weight.

39.17 Mixing of different type of steel/different grades of steel shall not be allowed in the same structural members as main reinforcement to satisfy clause 26.1 of IS:456.

39.18 Tolerances on Nominal Mass (individual sample) shall be as under:-

Sl. No.	Nominal size mm	Tolerances on the Nominal Mass, percente
1	Upto and including 10	-8%
2	Over 10 upto & including 16	-6%
3	Over 16	-4%

GENERAL CONDITIONS

1. The contractor (s) shall inspect the site of work before tendering and acquaint himself with the site conditions and no claim on this account shall be entertained by the department.
The contractor (s) shall get himself acquainted with nature and extent of the work and satisfy himself about the availability of materials from kiln or approved quarries for collection and conveyance of materials required for construction.
2. The contractor (s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters of site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.
3. The tenderer shall see the approaches to the site. In case any approach from main road is required by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost. No payment shall be made on this account.
4. The contractor (s) shall give to the Municipality, Police and other authorities all necessary notices etc. that may be required by law and obtain all requisite Licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be leviable on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain light and other illumination on for cautioning the public at night.
5. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night speed limit boards red flags, red lights and providing barriers. He shall be responsible for all dangers and incidents caused to existing / new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work.
6. The contractor shall provide at his own cost suitable weighing surveying and levelling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
7. Contractor shall provide permanent bench marks and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings
8. On completion of work, the contractor shall submit at his own cost four prints of "as built" drawings to the Engineer-in-Charge with in 30 days of completion of work. These drawings shall have the following information:
 - a) Run of all piping and their diameters including soil waste pipes & vertical stacks.
 - b) Ground and invert levels of all drainage pipes together with locations of all manholes and connections upto outfall.
 - c) Run of all water supply lines with diameters, location of control valves, access panels etc.

If above said drawings are not submitted by the contractor within the above specified time then final bill will not be paid and Security Deposit shall not be released.
9. The contractor shall submit for the approval of Engineer-in-Charge names of specialised agencies of repute along with their technical capacity proposed to be engaged by him for executing specialized works, who must have executed satisfactorily works of value as specified in mandatory conditions.
10. The works shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available there of is complete and unambiguous. The discrepancy, if any shall be brought to the notice of the

Engineer-in-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage executing by the commencement of work on the basis of any erroneous and or incomplete information.

11. The contractor shall take all precautions to avoid accidents by, exhibiting caution boards day and night, speed limit boards, red flags, red light and providing necessary barriers and other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.
12. Other agencies will also simultaneously execute and install the works of electrification, air conditioning, lifts, fire-fighting etc. for this work and the contractor shall provide necessary facilities for the same. The contractor shall leave such recesses, holes openings etc. as may be required for the electric, air-conditioning and other related works (for which inserts, sleeves, brackets, conduits base pinion, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work & brick work, if required and nothing extra shall be payable on this account.
13. All materials obtained from Govt. stores or otherwise shall be get checked by the Engineer-in-Charge or his any authorized supervisor staff on receipt of the same at site before use.
14. The contractor shall conduct work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
15. All Architectural drawings given in the tender other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fixings involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Engineer-in-Charge.
16. **PROGRAMME CHART**
 - i) The contractor shall prepare an integrated programme chart for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfilment of the programme within the stipulated period or earlier as indicated in the mile stones under clause 5 of the contract and submit the same for approval to the Engineer-in-Charge within ten days of the award of the contract.
 - ii) The programmes chart should include the following:-
 - a) Descriptive note explaining sequence of various activities.
 - b) Net work (PERT/CPM/BAR CHART)
 - c) Programme for procurement of materials by the contractor
 - d) Programme of procurement of machinery/equipment's having adequate capacity commensurate with the quantum of work to be done within the stipulated period by the contractor.
19. If appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved programme referred above the contractor shall produce a revised programme showing the modifications to the approved programme to ensure completion of the work within the stipulated time for completion .
20. The submission for approval by the Engineer-in-Charge of such programme or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.
21. If the work is carried out in more than one shift or during night no claim on this accounts shall be entertained.

22. Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
23. The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
24. The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the Jr. Engineer-in-Charge of work and which shall be duly signed by the contractor or his authorised representative.
25. The contractor shall render all help and assistance in documenting the total sequence of this project by way of photography, slides, audio-video recording etc. Nothing extra shall be payable to the contractor on this account. However cost of photographs, slides, audio/videography etc shall be born by the department.
26. The contractor shall be fully responsible for the safe custody of materials brought by him issued to him even though the materials are under double lock key system.
27. The rate of items of flooring is inclusive of providing sunk flooring at bath rooms kitchen etc. and nothing extra on this accounts is admissible.
28. No payment shall be made to the contractor for any damage caused by rain, snowfall, floods, earthquake or any other natural causes whatsoever during execution of work. The damages of the work will be made good by the contractor at his own cost and no claim on this account shall be entertained.
29. For construction works which are likely to generate malba/rubbish to the tune of more than a tempo/truck load, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at their own cost to the notified/specified dumping ground and under no circumstances these shall be stacked/dumped, even temporarily outside the construction premises.
30. The Plinth Level of Building is to be kept as per Architectural drawings. All the items of works such as PCC, RCC, Brickwork and shuttering etc. in foundation upto this plinth level will be measured and paid as the work done upto plinth level. Nothing extra due to higher plinth will be paid and contractors' rates quoted for all these items shall, therefore, be deemed to cater for extra height of plinth.
31. In case of AR & MO works, the agency shall get the sample prepared for each type of finish before hand and the same shall be got approved by the Engineer-in-charge, which shall be kept intact till completion of work or till the time it is found appropriate by the engineer-in-charge.
32. The work shall be executed strictly as per sample approved.
33. All the materials shall be procured in lots of size as per approval of the engineer-in-charge. All procurements shall be handed over to the engineer-in-charge or his authorized representative. The materials required on day to day basis shall subsequently be issued by the representative of the engineer-in-charge to the agency.
34. The site shall be made available to the agency in consonance to the quantity of materials brought at site and handed over to the department. Any delay on this part shall be on account of the agency. In order to avoid any delay on this account, agencies are advised to bring big lots of materials so that there is no delay on this account.
35. Sample of all the materials of all lots shall be got tested independently by the engineer-in-charge at his discretion.
36. The empty containers/ drums of full quantity of materials shall be kept intact by the agency till the maintenance period is over and release of security deposit, whichever is later.

Special Conditions

1. The work is to be executed with in the premises of 'All India Institute of Medical Sciences Bhopal'. The contractor has to abide by the restriction imposed by the Institute authorities regarding working hours, labour movement and material movement etc. If contractor has to suspend the work due to such restriction imposed, nothing extra shall be payable on this account.
2. The contractor shall provide view cutter/barricades of appropriate type all around the work to segregate work site from general public. Nothing extra shall be payable on this account unless provision has been made in the agreement elsewhere.
3. The contractor shall execute the work in such away so that minimum possible dust pollution/Noise pollution is caused.
4. The contractor shall be allowed to load/unload the construction material only during the non-working hours i.e. between 1800 hrs. to 0800 hrs. inside the academy premises.
5. The contractor has to strictly/follows the norms regarding labour safety and safe work practices.
6. The contractor has to provide following personal safety equipments to each worker employed on the work.
 - (i) Helments of appropriate colour (yellow for labour, blue for supervisor and purple for contractor's Engineer) shall be provided to each worker.
 - (ii) Safety shoes of appropriate quality to each worker.
 - (iii) Safety belts with rope for working on heights.These shall be in addition to the provision made in CPWD safety code provided in GCC 2014.
7. The contractor has to provide appropriate safely net if there is possibility of spilling of debris etc.
8. The contractor has to arrange space for labour huts etc. at his own and it will not be obligation on department to provide space for labour huts.
9. Any damage to existing facilities or property of AIIMS Bhopal shall be suitably rectified by the contractor at his own cost and nothing extra shall be payable to the contractor. The Contractor shall make all necessary arrangement to protect the laid carpet and paneling in auditorium hall as per directions of Engineer in charge and for this nothing extra shall be paid.
10. All ward and watch of all material till handing over shall be responsibility of the bidder.

ADDITIONAL SPECIFICATIONS

1. The work in general shall be executed as per the description of the item, specifications and conditions attached and CPWD specifications 2009, Vol I & II with up-to-date correction slips and instructions of Engineer-in-Charge.
2. The order of preference in case of any discrepancy as indicated in condition No. 8.1 under “Conditions of Contract” give in standard CPWD contract form may be read as the following:
 - i) Nomenclature of items as per schedule of quantities.
 - ii) Additional conditions, General Conditions, Additional Specification and Particular Specifications attached with the tender document.
 - iii) CPWD Specifications 2009, Vol I & II with up-to-date correction slips..
 - iv) Architectural Drawings.
 - v) Indian standard specifications of B.I.S.
 - vi) Sound Engineering Practice.
 - vii) Decision of Engineer-in-charge.

A reference made to any Indian Standard specification in these documents, shall imply to the latest version of that standard. Including such revision/amendments as issued by the bureau of Indian standard upto last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian standard applicable to the work at site.

3. The proposed building is a prestigious project and quality of work is paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like stone masonry & stone cladding works, stone flooring, structural glazing, PVDF coating aluminium composite panel and other specialised flooring work, Wood work will specially require engagement of skilled workers having experience particularly in execution of such items.
4. Samples of all materials and fittings to be used in the work in respect of brand manufacturer and quality shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work. Articles bearing BIS certifications mark shall only be used unless no manufacturer has got BIS mark for the particular material. Any material/fitting whose sample has not been approved in advance and any other unapproved material brought by the contractor shall be immediately removed as soon as directed.
5. The rates for all items of work shall unless clearly specialized otherwise include cost of all labour, material tools and plants and other inputs involved in the execution of the item.
6. The contractor (s) shall quote all inclusive rates against the items in the schedule of quantities and nothing extra shall be payable for any of the conditions and specifications mentioned. In the tender documents unless specifically specified otherwise.
7. Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping/baling out water, if necessary, for which no extra payment shall be made. Those conditions shall be considered to include water from any source such as inflow of flood, surface and sub-soil water etc. and shall apply to the execution in any season.
8. The rate for all items in which the use of cement is involved is inclusive of charges for curing.
9. The foundation trenches shall be kept free from water while works below ground level are in progress.
10. The work shall be executed and measured as per metric dimensions given in the schedule of quantities, drawings etc. (FPS units wherever indicated are for guidelines only).
11. Payment for items of “RCC work”, brick work and concrete work above different floor shall be made at the rates provided for those items. For operation of these rates, the floor level shall be considered as top of the main structural slab in that floor viz. top of RCC slab in main room and not top of any sunk or depressed floor for lavatory slabs.
12. The rate of items of flooring is inclusive of providing sunk flooring in Bath-rooms, kitchen, etc. and nothing extra on this account shall be payable.

ABEU		AIIMS Bhopal
------	--	--------------

13. The SCI/CI pipes and GI pipes wherever necessary shall be fixed to RCC columns, beams etc. with rawl plugs and nothing extra shall be paid for this.
14. The contractor shall be responsible of the protection of the sanitary and water supply fittings and other fittings and fixtures against pilferage and breakage during the period of installation and thereafter until the building is handed over.

PARTICULAR SPECIFICATIONS

1. Auditorium Chairs:

- i) The chairs shall be spring free, gravity type TIP-up, with rocking mechanism.
- ii) It shall be supported with central Pedestal.
- iii) Structure: Centre Pedestal Stand (all dimensions in mm) – The chair to have center pedestal made out of 50x5mm and 63x5mm. The 63x5mm MS Flat to have 2 holes with free cutting material studs of 16mm diameter. The first stud to facilitate the tip-up and the second stud to act as a stopper. The back to be made of 50x5mm MS Flat having 4 oblong holes to receive the back. The center pedestal to have base plate of 100x6 supported with CRCA tubular structure of 60x60x4 of the required height.
- iv) Tip – Up movement supported by 200 x 75 x 6 mm M.S. Flat with M.S. twin support 12 mm in Dia.
- v) Chairs shall be fully upholstered with Wooden Laminated Back on one (back) side.
- vi) The Chairs shall be of sufficient width having placement 580 mm center to center. Height of back should be 1020 (+/- 20) mm.
- vii) Seat Bracket to be 12 x 25 x 100 mm M.S. Flat welded to a plate of 80 x 100 x 3 mm.
- viii) Rocking mechanism with 2 fiber glass plates of 80 x 230 x 8 mm.
- ix) Rocking Bracket: 3 angled bracket of 300 x 50 x 6 mm supported by plate of 130 x50 x 5 mm in 2 sets. Fiberglass bracket of size 50 x 70 x5 mm with M.S stopper of size 9 mm Dia. Bent plate to be of size 160 x 50 x 5 mm supported by rubber washer for noise free rocking.
- x) Chair Seat Size to be 460 x 490 mm with thickness of min. 139 mm. Seat – 19 mm plywood for 460 x 490seat, embedded in PU minimum 120 mm thickness, fully upholstered. all bolts to be received by Dash nuts CNC milled threaded and nailed of size – 20 x 10mm.
- xi) Chair Back: – Back shall be of size 470x730x120 mm upholstered. The Back is supported using 19 mm Ply having curve. Top of back to be 90 mm, tapering to 110 mm and then to 120mm creating Ergonomic lump in the lower part of the seat.
- xii) The back side of the chair-back is covered with laminated ply of 12 mm thickness. The laminate shall be minimum 1.0 mm thick of required shade, finish and design. The back of chair should have provision of seat number and same will be provided by the chair supplier.
- xiii) Side Panels – All side panels to be of 12mm plywood covered with fabric and fused with foam, side panel to cover all metal parts. All internal/ central side panels shall also be covered in similar way so that metal support structure of sides is not easily visible. The end panel of row should have row number indicator with light.
- xiv) Arm rest – Wooden (Teak) Handles To be of size 425 x 25 x 65 mm, duly melamine polished in required shade.
- xv) Polyurethane foam:
 - Seat Density: $50 \pm 5 \text{ kg/m}^3$

- Backrest density: $48 \pm 5 \text{ kg/m}^3$
 - Molded Polyurethane Foam manufactured in certified ISO 9001 facility to ensure consistency in density for longevity.
- xvi) All exposed Metal parts shall be Powder Coated with 7 Tank process of minimum 50 Micron.
- xvii) Rigid PVC cover shall be used to hide all dash-fasteners and Nut bolts used in chair.
- xviii) Fabric: The Fabric shall be inherent FR Fabric, 100% Polyester Stretchable Circular knit Fabric, treated with Methyl Phospholene, of approved shade and design of minimum 400 GSM, Make Banswara Syntax / Comrade/ RSWM, quilted with foam bonded fabric of 7.5 mm. The Shade and quality need to be finalized by Engineer in charge.
- xix) The chair shall be installed using minimum 125 mm dia. anchor fasteners. The installer should ensure that no chair shall be loose and necessary correction if required in floor shall be done by him free of cost.
- xx) The Complete prototype sample of chair shall be got approved by Engineer in charge before making mass production. No additional time shall be given for this.
- xxi) The left & right alley of the auditorium will have some gap at change of angle of placement. This gap shall be filled as per BOQ item no. 2 and will be paid in respective item.
- xxii) The ply and laminate shall be ISI marked and of Century, Green, Kitply, Marino or equivalent.
- xxiii) The Dash fasteners shall be of Hilti or equivalent.
- xxiv) The complete installation shall have warranty for minimum 3 years for free replacement on account of any manufacturing defect.
- xxv) The Defect liability period shall be one year and security deposit will be released after successful completion of defect liability Period.

ABEU		AIIMS Bhopal
------	--	--------------

Mile stones of the Contract

Sl. No.	Description of mile stone	Period for completion from date of start in days/months	Withheld amount for non achievement of mile stone.
1	Submission of all samples as per Boq items, requiring approval from Engineer I charge and total financial value of work under this M.S. shall not be less than Rs. 5.0 lacs excluding secured advance.	07 days	1% of the accepted tendered value.
2	Total financial value of work under this M.S. shall not be less than Rs. 40 lacs excluding secured advance. This mile stone also include supply of all chairs at site.	21 days	1% of the accepted tendered value.
3	All work completed as per agreement including cleaning of site.	01 (One Month)	1% of the accepted tendered value.

BANK GUARANTEE BOND

In consideration of the Director AIIMS Bhopal, (hereinafter called “ the AIIMS”) having agreed under the terms and conditions of agreement No. _____ dated _____ made between _____ and _____ (hereinafter called “the contractor(s)”) _____ for the work _____ (hereinafter called “the said agreement”) having agreed to production of a irrevocable Bank Guarantee for Rs. _____ (Rupees _____ only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement, we

(hereinafter referred to as “the Bank”) hereby undertake to pay to the

(Indicate the name of the Bank)

Government an amount not exceeding Rs. _____ (Rs. _____ only) on demand by the Government.

2. We _____ do hereby undertake to pay the amounts due and payable

(Indicate the name of the Bank)

under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only).

3. We, the said bank further undertake to pay to the government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the contractor(s) shall have no claim against us for making such payment.

4. We _____ further agree that the guarantee herein contained shall

(Indicate the name of the Bank)

remain in full force and effect during the period that would be taken for performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.

5. We _____ further agree with the Government that the Government

(Indicate the name of the Bank)

shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the government against the said contractor(s) and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We _____ lastly undertake not to revoke this guarantee except with _____

(Indicate the name of the Bank)

the previous consent of the Government in writing.

8. This guarantee shall be valid up to _____, unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. _____ (Rs. _____ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated: the _____ day of _____
for _____

(Indicate the name of the Bank)

ABEU		AIIMS Bhopal
------	--	--------------

Annexure-II

AFFIDAVIT

I / We have submitted a bank guarantee for the work _____

(Name of work)

Agreement No. _____

Dated _____ from _____

(Name of the Bank with full address)

to the Executive Engineer _____ with a view

(Name of the Division)

to seek exemption from payment of performance guarantee in cash. This Bank guarantee expires on _____ I / We undertake to keep the validity of the bank guarantee intact by getting it extended from time to time at my / our own initiative up to a period of _____ months after the recorded date of completion of the work or as directed by the Engineer in charge.

I / We also indemnify the Government against any losses arising out of non-encasement of the bank guarantee if any.

(Deponent)
Signature of Contractor

Note : The affidavit is to be given by the Executants before a first class Magistrate.

ABEU		AIIMS Bhopal
------	--	--------------

Annexure-III

To,
.....,
.....,
.....

Sub: NIT No. 01/EE/ABEU/2017-18 for the work:

Providing Complete Seating Arrangement for Main Auditorium Hall at AIIMS Bhopal.

Dear Sir,

It is here by declared that AIIMS Bhopal is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the AIIMS Bhopal.

Yours faithfully

Executive Engineer

Annexure-IV

To,

Executive Engineer,
ABEU, AIIMS Bhopal

Sub: Submission of Tender for the work :

Providing Complete Seating Arrangement for Main Auditorium Hall at AIIMS Bhopal.

Dear Sir,

I/We acknowledge that AIIMS Bhopal is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by AIIMS Bhopal. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, CPWD shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent / authorised to sign the relevant contract on behalf of AIIMS Bhopal.

INTEGRITY AGREEMENT

This Integrity Agreement is made at on this day of 20.....

BETWEEN

President of India represented through Executive Engineer,
(Name of Division)

AIIMS Bhopal, (Hereinafter referred as the
(Address of Division)

‘**Principal/Owner**’, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....
(Name and Address of the Individual/firm/Company)

through (Hereinafter referred to as the
(Details of duly authorized signatory)

‘**Bidder/Contractor**’ and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner has floated the Tender (NIT No. ---/EE/MPD/2014-15) (hereinafter referred to as “**Tender/Bid**”) and intends to award, under laid down organizational procedure, contract for

.....
(Name of work)

hereinafter referred to as the “**Contract**”.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as “**Integrity Pact**” or “**Pact**”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

- 1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
 - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose (with each tender as per proforma enclosed) any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof,**

with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

- 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**
- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of Indian Penal code (IPC)/Prevention of Corruption Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 01 (One Month) after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, CPWD.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Head quarters of the Division** of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.

- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this **Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.**

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Principal/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.
(signature, name and address)

2.
(signature, name and address)

Dated:

Place.:

Schedule of Quantity						
Name of Work:- Providing complete seating arrangement for main Auditorium hall at AIIMS Bhopal.						
S.NO.	DSR NO.	DISCRIPTION	UNIT	Qty.	Quoted Rate	AMOUNT
1	MR	<p>Providing and Fixing in position, Heavy Duty ergonomically designed chairs of Wipro/ Godrej/ Krishna Quinette/ Penworker/ Theater Solution/ Amardeep. The gravity type, spring free TIP-up, rocking Auditorium Chairs with central Pedestal shall be fully upholstered with Wooden Laminated Back on one (back) side, conforming to the specifications and similar to sample laying at AIIMS Bhopal Engineering Unit. The Chair shall be fixed as per approved layout, which is to be submitted by the bidder based on actual dimensions of Auditorium steps measured at site and approved by the Engineer in Charge. The Chairs shall be of sufficient width having placement 580 mm centre to centre. Height of back should be 1020 (+/- 20) mm having following specifications:-</p> <p>Structure: Centre Pedestal Stand (all dimensions in mm) – The chair to have centre pedestal made out of 50x5mm and 63x5mm. The 63x5mm MS Flat to have 2 holes with free cutting material studs of 16mm diameter. The first stud to facilitate the tipup and the second stud to act as a stopper. The back to be made of 50x5mm MS Flat having 4 oblong holes to receive the back. The centre pedestal to have base plate of 100x6 supported with CRCA tubular structure of 60x60x4 of the required height.</p> <p>Tip – Up movement supported by 200 x 75 x 6 mm M.S.Flat with M.S. twin support 12 mm in Dia. Seat Bracket to be 12 x 25 x 100 mm M.S. Flat welded to a plate of 80 x 100 x 3 mm. Rocking mechanism with 2 fibre glass plates of 80 x 230 x 8 mm. Rocking Bracket : 3 angled bracket of 300 x 50 x 6 mm supported by plate of 130 x50 x 5 mm in 2 sets. Fibreglass bracket of size 50 x 70 x5 mm with M.S stopper of size 9 mm Dia. Bent plate to be of size</p>				

160 x 50 x 5 mm supported by rubber washer for noise free rocking. Chair Seat Size to be 460 x 490 mm with thickness of min. 139 mm. Seat – 19 mm plywood for 460 x 490 seat, embedded in PU minimum 120 mm thickness, fully upholstered. all bolts to be received by Dash nuts CNC milled threaded and nailed of size – 20 x 10mm.

Back: – Back shall be of size 470x730x120 mm upholstered. The Back is supported using 19 mm Ply having curve. Top of back to be 90 mm, tapering to 110 mm and then to 120mm creating Ergonomic lump in the lower part of the seat. The back side of the back is covered with laminated ply of 12 mm thickness. The laminate shall be minimum 1.0 mm thick of required shade, finish and design. The back of chair should have provision of seat number and same will be provided by the chair supplier.

Side Panels – All side panels to be of 12mm plywood covered with fabric and fused with foam, side panel to cover all metal parts. All internal/ central side panels shall also be covered in similar way so that metal support structure of sides is not easily visible. The end panel of row should have row number indicator with LED light.

Arm rest -
Wooden Handles To be of size 425 x 25 x 65 mm depending on the ctc of the chair.

Polyurethane foam:

- Seat Density : 50 ± 5 kg/m³
- Backrest density : 48 ±5 kg/m³
- Moulded Polyurethane Foam manufactured in certified ISO 9001 facility to ensure consistency in density for longevity.

All exposed Metal parts shall be Powder Coated with 7 Tank process of minimum 50 Micron.

Rigid PVC cover shall be used to hide all dash-fasteners and Nut bolts used in chair.

		<p>Fabric: The Fabric shall be inherent FR Fabric, 100% Polyester Stretchable Circular knit Fabric, of approved shade and design of minimum 400 GSM, quilted with foam bonded fabric of 7.5 mm. The Shade and quality need to be finalized by Engineer in charge.</p> <p>The chair shall be installed using minimum 125 mm dia. anchor fasteners. The installer should ensure that no chair shall be loose and necessary correction if required in floor shall be done by him free of cost. The Complete prototype sample of chair shall be got approved by Engineer in charge before making mass production. No additional time shall be given for this. The left & right alley of the auditorium will have some gap at change of angle of placement. This gap shall be filled as per BOQ item no. 2 and will be paid in respective item.</p>				
		TIP UP CHAIR	each	1000		
	9.18	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II, exterior grade IS : 12823 marked, in shelves with screws and fitting wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).				
		25mm	Sqm	17.1		
		TOTAL				