

**HSCC (India) Limited**  
as Executing Agency on behalf of  
**MINISTRY OF HEALTH & FAMILY WELFARE,**  
Government of India, New Delhi

Dated: 10.11.2017

**AMENDMENT No. – 1**

**Project Name:** Tender for “Construction of Hospital & Academic Complex at All India Institute of Medical Sciences, Kalyani (West Bengal)”.

**Tender No.** HSCC/PMSSY/AIIMS/ Kalyani/H&A/2017, dated: 18.10.2017

The bidders may note the following amendments in the Tender Documents issued:

Clause Ref.	Existing Provision	May be read as
Clause No. 25 Volume II (General Conditions of Contract)	Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter: (i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge on any matter in connection with or arising out of the contract or carrying out of the work, to be	Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter: (i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge or if the Engineer in Charge considers any act or

	<p>unacceptable, he shall promptly within 15 days request the authority indicating in schedule 'F' (Reviewing Authority) in writing for written instruction or decision. Thereupon, the Reviewing Authority shall give his written instructions or decision within a period of one month from the receipt of the contractor's letter.</p> <p>If the Reviewing Authority fails to give his instructions or decision in writing within the aforesaid period or if the contractor is dissatisfied with the instructions or decision of the Reviewing Authority, the contractor may, within 15 days of the receipt of the Reviewing Authority's decision, appeal to the authority as indicated in schedule 'F' (Appealing Authority) who shall afford an opportunity to the contractor to be heard, if the latter so desires, and to offer evidence in support of his appeal. The Appealing Authority shall give his decision within 30 days of receipt of contractor's appeal.</p> <p>If the contractor is dissatisfied with the decision of the Appealing Authority, the contractor may within 30 days from the receipt of the Appealing Authority's decision, appeal before the Dispute Redressal Committee (DRC) along with a list of disputes with amounts claimed in respect of each such dispute and giving reference to the rejection of his disputes by the Appealing Authority. The Dispute Redressal Committee (DRC) shall give his decision within a period of 90 days from the receipt of Contractor's appeal. The constitution of Dispute Redressal Committee (DRC) shall be as indicated in Schedule 'F'.</p> <p>If the Dispute Redressal Committee (DRC) fails to give his decision within</p>	<p>decision of the contractor on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable and is disputed, such party shall promptly within 15 days of the arising of the disputes request the Director (E), HSCC India Ltd. who shall refer the disputes to Dispute Redressal Committee (DRC) within 15 days along with a list of disputes with amounts claimed if any in respect of each such dispute. The Dispute Redressal Committee (DRC) shall give the opposing party two weeks for a written response, and, give its decision within a period of 60 days extendable by 30 days by consent of both the parties from the receipt of reference from Director (E), HSCC India Ltd.. The constitution of Dispute Redressal Committee (DRC) shall be as indicated in Schedule 'F'. Provided that no party shall be represented before the Dispute Redressal Committee by an advocate/legal counsel etc. If the Dispute Redressal Committee (DRC) fails to give its decision within the aforesaid period or any party is dissatisfied with the decision of Dispute Redressal Committee (DRC) or expiry of time limit given above, then either party may within a period of 30 days from the receipt of the decision of Dispute Redressal Committee (DRC), give notice to the Director (E), HSCC India Ltd., in charge of the work for appointment of arbitrator on prescribed proforma under intimation to the other party.</p> <p>It is term of contract that each party</p>
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	<p>the aforesaid period or any party is dissatisfied with the decision of Dispute Redressal Committee (DRC), then either party may within a period of 30 days from the receipt of the decision of Dispute Redressal Committee (DRC), give notice to the Client for appointment of arbitrator on prescribed proforma as per Appendix XV, failing which, the said decision shall be final binding and conclusive and not referable to adjudication by the arbitrator.</p> <p>(ii) Except where the decision has become final, binding and conclusive in terms of Sub Para (i) above, disputes or difference shall be referred for adjudication through arbitration by a sole arbitrator appointed by the Designated Authority of the Executing Agency, If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.</p> <p>It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the rejection by the Appealing Authority of the appeal.</p> <p>It is also a term of this contract that no person, other than a person appointed by (Designated Authority of the Executing Agency), as aforesaid, should act as arbitrator and if for any reason that is not possible, the matter shall not be referred to arbitration at all.</p> <p>It is also a term of this contract that if the</p>	<p>invoking arbitration must exhaust the aforesaid mechanism of settlement of claims/disputes prior to invoking arbitration.</p> <p>The Director (E), HSCC India Ltd. shall in such case appoint the sole arbitrator or one of the three arbitrators as the case may be within 30 days of receipt of such a request and refer such disputes to arbitration. Wherever the Arbitral Tribunal consists of three Arbitrators, the contractor shall appoint one arbitrator within 30 days of making request for arbitration or of receipt of request by Engineer-in-charge to Director (E), HSCC India Ltd. for appointment of arbitrator, as the case may be, and two appointed arbitrators shall appoint the third arbitrator who shall act as the Presiding Arbitrator. In the event of</p> <p>a. A party fails to appoint the second Arbitrator, or</p> <p>b. The two appointed Arbitrators fail to appoint the Presiding Arbitrator, then Director (E), HSCC India Ltd. shall appoint the second or Presiding Arbitrator as the case may be.</p> <p>(ii) Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having sole arbitrator where Tendered amount is Rs. 100 Crore or less. Where Tendered Value is more than Rs. 100 Crore, Tribunal shall consist of three Arbitrators as above. The requirements of the Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory</p>
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	<p>contractor does not make any demand for appointment of arbitrator in respect of any claims in writing as aforesaid within 120 days of receiving the intimation from the Engineer-in-charge that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the Executing Agency shall be discharged and released of all liabilities under the contract in respect of these claims.</p> <p>The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) / The Jammu and Kashmir Arbitration and Conciliation Act, 1997 (35 of 1997) (as the case may be) or any statutory modifications or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause.</p> <p>It is also a term of this contract that the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000/-, the arbitrator shall give reasons for the award.</p> <p>It is also a term of the contract that if any fees are payable to the arbitrator, these shall be paid equally by both the parties.</p> <p>It is also a term of the contract that the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, of the</p>	<p>modifications or reenactment thereof and the rules made there under and for the time being in force shall be applicable.</p> <p>It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed, if any, in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the decision of the DRC. It is also a term of this contract that any member of the Arbitration Tribunal shall be a Graduate Engineer with experience in handling public works engineering contracts at a level not lower than Chief Engineer (Joint Secretary level of Government of India). This shall be treated as a mandatory qualification to be appointed as arbitrator.</p> <p>Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015. Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter claims if any can be directly filed before the arbitrator without any requirement of reference by the appointing authority, the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000/-, the arbitrator shall give reasons for the award. It is also a term</p>
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	<p>arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any, of the arbitrator) shall be in the discretion of the arbitrator who may direct to any by whom and in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.</p>	<p>of the contract that if any fees are payable to the arbitrator, these shall be paid as per the Act.</p> <p>The place of arbitration shall be New Delhi. In case there is no mention of place of arbitration, the arbitral tribunal shall determine the place of arbitration. The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties. Failing any such agreement, then the Arbitral Tribunal shall decide the venue.</p>
<p>Volume – I Notice Inviting Bids Clause 1.6(ii)</p>	<p>Architectural Drawings, Structure framing plan and general arrangement drawings shall be provided by HSCC. However detailed structure/architecture drawings shall be prepared by the Contractor. Contractor will also prepare detailed shop drawings based on the concept drawings given by client/ Executing Agency for all services e.g. Electrical, Plumbing, Fire fighting, fire detection, HVAC &amp; Plant layout etc. The contractor shall make all necessary co-ordination. The contractor shall get the structural drawings duly vetted from IIT and the expenditure incurred for IIT vetting will be reimbursed by HSCC.</p>	<p>The architectural drawings and structural drawings for the work is available</p> <p>Or</p> <p>The architectural drawings and structural drawings shall be made available in phase manner, as per requirement of the same as per approved programme of completion submitted by the contractor after the award of work.</p>
<p>Volume – I Section –III Scope of Work Clause 2</p>	<p>Architectural Drawings, Structure framing plan and general arrangement drawings shall be provided by HSCC. However detailed structure/architecture drawings shall be prepared by the Contractor. Contractor will also prepare detailed shop drawings based on the concept drawings given by Executing Agency for all services e.g. Electrical, Plumbing, Fire fighting, fire detection, HVAC &amp; Plant layout etc. The contractor shall make all necessary co-ordination.</p>	<p>Detailed engineering drawings including architectural drawings, structural drawings, drawings for all services, landscaping drawings, electrical services drawings, internal telecommunication and networking, fire detection and protection systems drawings (where required) &amp; drawings, drawings for water supply &amp; PHE etc will be supplied by HSCC.</p>

	The contractor shall get the structural drawings duly vetted from IIT and the expenditure incurred for IIT vetting will be reimbursed by HSCC	The contractor shall get the structural drawings duly vetted from IIT and the fee paid to IIT for vetting will be reimbursed by HSCC.
Volume – III Specific Conditions of Contract (SCC) Definitions & Interpretation Clause 4.1 Scope of Contract	Detailed architectural RFC Drawings for Architecture shall be provided by Executing Agency to the contractor. The Contractor will prepare, shop drawings based on the drawings given by Executing Agency for all services etc. Structural, Electrical, Plumbing, etc. based on the schematic drawings given by the Executing Agency, as required. The contractor shall make all necessary co-ordination	Detailed architectural RFC Drawings for Architecture and Structure shall be provided by Executing Agency to the contractor. The Contractor will prepare, shop drawings based on the drawings given by Executing Agency for all services etc. Electrical, Plumbing, etc based on the schematic drawings given by the Executing Agency, as required. The contractor shall make all necessary co-ordination.
Volume – III Specific Conditions of Contract (SCC) Definitions & Interpretation <b>Clause 5(d) Working Drawing/Shop Drawings/Design</b>	Architectural drawings, Structural Framing Plan and General Arrangement Drawings shall be provided by Executing Agency to the contractor. However, to ensure the uninterrupted progress of work, and timely completion, the contractor may be required to do further detailing as per the site requirement on his own. The detailed structure/architecture drawings shall be prepared by the Contractor based on the drawings given by the Executing Agency. The Contractor will prepare shop drawings based on the drawings given by client/ Executing Agency for all services eg. Electrical, Plumbing, fire fighting, fire detection, HVAC & Plant layout etc. The contractor shall get the structural drawings duly vetted from IIT at their own cost.  All drawings shall be signed by Contractor's authorised representative with name, seal and date before submission to Engineer-in-charge.  In case there is delay in any drawings and	Structural and Architectural drawings shall be provided by Executing Agency to the contractor. However, to ensure the uninterrupted progress of work, and timely completion, the contractor may be required to do further detailing as per the site requirement on his own.  The contractor shall get the structural drawings duly vetted from IIT and the fee paid to IIT for vetting will be reimbursed by HSCC.  The Contractor will prepare shop drawings based on the drawings given by client/ Executing Agency for all services eg. Electrical, Plumbing, etc.  All drawings shall be signed by Contractor's authorised representative with name, seal and date before submission to Engineer-in-charge.  In case there is delay in any drawings and design viz shop drawings, as made drawings etc. in preparation,

	design viz shop drawings, as made drawings etc. in preparation, design, quality, submission, etc. the Executing Agency may ask the Contractor to change their design consultant immediately or get the same done on risk and cost of the Contractor.	design, quality, submission, etc. the Executing Agency may ask the Contractor to change their design consultant immediately or get the same done on risk and cost of the Contractor.
Volume – I Clause 1.4.1 Similar Work	*“Similar Works” shall mean a Project comprising Construction of any Institutional multistoried RCC framed structure building minimum Five storeys above ground level (basement, machine room and mummy shall not be counted as a storey) including finishing works, internal water supply, sanitary installations, internal electrical installations, Fire Fighting Works and Centralized HVAC works, all executed under one composite agreement.	Similar Work Shall mean a Project comprising Construction of any Institutional multistoried RCC framed structure building like Hospitals, Hotels, Airports, Large offices, etc. minimum Five storeys above ground level (basement, machine room and mummy shall not be counted as a storey) including finishing works, internal water supply, sanitary installations, internal electrical installations, Fire Fighting works and Centralized HVAC works, all executed under one composite agreement.
Volume –I NIT Completion Period	18 Calendar Months for all buildings of the Academic Campus, including completion of all services (within the scope of this tender) required for making these buildings operational  22 Calendar Months for all other buildings and works	18 Calendar Months for all buildings of the Academic Campus, i.e., Medical College, Nursing College, Admin Block, Library, including completion of all services (within the scope of this tender) required for making these buildings operational  22 Calendar Months for all other buildings and works Completion Period:
Volume –II General Conditions of Contract Schedule F Clause 10 CA	Base price of all the materials covered under Clause 10CA (Base price to be mentioned valid at the time of last stipulated date of receipt of Tender including extension, if any.  *Cement- OPC Rs. 5300/- Tonne.	Base price of all the materials covered under Clause 10CA (Base price to be mentioned valid at the time of last stipulated date of receipt of Tender including extension, if any.  *Cement- OPC Rs. 4650/-

	*Reinforcement Steel- Primary Manufacturer Rs.42525/-Tonne Structural Steel : Rs. 44940/-Tonne	Tonne(Excluding GST)  *Reinforcement Steel- Primary Manufacturer Rs.34500/- Tonne (Excluding GST) Structural Steel : Rs. 35500/- Tonne (Excluding GST)
BOQ Item No. 1.02 Description Of Item	Supplying and stacking of good earth at site including royalty and carriage up to 1 Km (earth measured in stacks will be reduced by 20% for payment).	Supplying and stacking of good earth at site including royalty and carriage (earth measured in stacks will be reduced by 20% for payment).
BOQ Item No. 5.47 Description Of Item	<b>Sensor Sliding Door</b> Providing and fixing automatic sliding door operator of approved brand and manufacture for a door of clear passage width ranging from 2500-3000 mm consisting of 6.25 mtr long operator with track profiles, glass clamping rails, floor guide, Radar eagle 6 sensors, 5 programme switch with knob, light barrier EM lock and cable for programme switch all complete of approved brand and quality, complete to the satisfaction of engineer in charge. nothing extra is payable if some civil work is required for fixing of the system.(Cost of door/ glass to be paid seperately)	<b>Sensor Sliding Door</b> Providing and fixing automatic sliding door operator of approved brand and manufacture for an opening of size 3.0x2.1 mtr (door made of 12 mm thick clear toughened glass with edge polished and holes for fixing fittings etc) consisting of 6.25 mtr long operator with track profiles, glass clamping rails, floor guide, Radar eagle 6 sensors, 5 programme switch with knob, light barrier EM lock and cable for programme switch all complete of approved brand and quality, complete to the satisfaction of engineer in charge. nothing extra is payable if some civil work is required for fixing of the system.

**Clause Reference: Schedule F (Milestone):** Following amendment may be noted.

Mile Stone No	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with- held in case of non - achievement of milestone.
1	Substantial Completion of Foundation	6 months	0.25% of Tendered value
2	Substantial Completion of RCC works upto Plinth Beam Level	9 months	0.25% of Tendered value
3	Substantial Completion of RCC works upto Floor 3 Level for Hospital Block	11 months	0.25% of Tendered value
4	Preparation of a sample Toilet	12 months	0.50% of Tendered value



5	Substantial Completion of all RCC works in Super Structure for the buildings of the Academic Campus	12 months	0.25% of Tendered value
6	Substantial Completion of Brickwork of the Buildings of Academic Campus	14 months	0.25% of Tendered value
7	Substantial Completion of all RCC works in Super Structure for the remaining buildings	14 months	0.25% of Tendered value
8	Substantial Completion of Brickwork of the Hospital Block	16 months	0.25% of Tendered Value
9	Substantial Completion of all buildings of the Academic Campus including Finishing and services	18 months	1% of Tendered value
10	Substantial Completion of finishing for all structures	21 months	1.00% of Tendered value
11	Substantial completion of project in all respect including testing and commissioning	22 months	0.75% of Tendered value

1. The reply to the queries raised by the bidders during the pre-bid meeting held at HSCC Corporate Office, Noida on 3<sup>rd</sup> November 2017 at 1645 hrs is enclosed at Annexure I.
2. The last date of submission and opening of bids has been extended as follows:  
 Last date to fill/upload the tender through e-tendering: **upto 1500 hrs on 22.11.2017**  
 Date of opening of bids: **on 22.11.2017 at 1530 hrs**
3. The validity of Bid Security/Earnest Money Deposit (EMD) to be submitted by the bidders with their bid in the form of Bank Guarantee (BG) shall be considered from the Original due date of submission, i.e., from 16.11.2017.
4. Addendum to Tender Drawings Vol.-VI is enclosed for the subject work as Annexure III. Bidders may take note accordingly.
5. The font errors have been observed in the B.O.Q. (Bill of Quantities) Vol.-V uploaded for the subject tender. Accordingly, the **corrected B.O.Q. (Bill of Quantities) - Vol.-V** has been uploaded on HSCC e-tender portal <http://www.tenderwizard.com/HSCC>.  
**Bidders are requested to quote their rates according to the corrected B.O.Q. (Vol.-V) only.**

6. It is again clarified that the following buildings form part of the Academic Campus and have a completion period of 18 months including completion of all services (within the scope of this tender) required for making these buildings operational:
- a. Medical College
  - b. Nursing College
  - c. Admin Block
  - d. Library

This amendment shall form integral part of bid document and should be submitted along with the bid.

All other terms & Conditions of the Tender shall remain unchanged.

Prospective bidders are advised to regularly scan through HSCC e-tender portal <http://www.tenderwizard.com/HSCC> and <http://www.hsccltd.co.in> as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement will not be made for this.

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Chief General Manager,  
HSCC (India) Ltd.,

## Construction of Hospital and Academic Campus at All India Institute of Medical Sciences, Kalyani, West Bengal

S.No	Clause, Section & Vol No/ Description	As per Bid Document	Bidder's Queries	Reply
<b>Bidder No. 1</b>				
<b>General &amp; Commercial</b>				
1	Clause 10 B (i), Vol II, GCC, Pg. 31 of 123 Secured Advance on Non Persihable Material		As per CPWD norms, Request to provide 90% of the assessed value of material as secured advance.	No change. Shall be as per tender conditions.
2	Clause 25, Vol II, GCC, Pg. 58 of 123 Settlement of Disputes & Arbitration	Except where the decision has become final, binding and conclusive in terms of Sub Para (i) above, disputes or difference shall be referred for adjudication through arbitration by a sole arbitrator appointed by the Designated Authority of the Executing Agency	We request you to modify the clause as follows: Arbitration shall be conducted by a tribunal headed by the arbitrator chosen by the nominated arbitrators of Employer and Contractor. Please confirm.	Please refer to Amendment No.1
3			We request you to provide us the following documents: 1) Soil Investigation report 2) Master Plan 3) Area Statement of Buildings for this package	1. The soil Investigation report shall be made available to the successful bidder/Contractor after award of work. However, Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender/bids. Please also refer to CLause 1.17 of Volume I, 2. The master plan is already a part of the tender drawings.
4	General Order of priority of documents	General	Request you to confirm the order of priority of documents in case of discrepancy among tender documents.	Shall be as per Tender Conditions
5	Volume I NIB & ITB / Page 19 List of specialized item / jobs for Electrical /HVAC/OT etc. work (As applicable)	1.26. This being a composite tender, the Bidder must associate with himself agencies otherwise eligible to tender for other components individually including specialized services for which an affidavit/undertaking as per format enclosed at Form H should be submitted along with the Technical Bid.	If the bidder himself is having experince of executing specialized works, we presume that in such case bidder need not submit Form - H for engaging speciist agencies. Kindly confirm. However, the bidder shall submit a documentary proof demonstrating his experience in specialized works.	No change. Shall be as per tender conditions.
6	Volume III SCC Page-7. Clause 5D Working drawings/ shop drawings/Design		We understand that detailed design for Structure, Architecture and MEP works post award is the scope of the contractor. Please confirm.	Please refer to Amendment No.1
<b>Civil and Structure</b>				
7	Vol V, BOQ Item No. 3.11, 3.12, 3.13		We request you to kindly specify the approved makes for expansion joints like Deevin/3R Solutions/Tristar / Kantaflex / Hercules / Sanfield	Work is to be carried out as per CPWD specifications and tender conditions.
8	Vol V, BOQ Item No. 5.07	Providing and fixing IS I marked flush door shutters conforming to IS :2202 (Part I) nondecorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:	Please specify the section of wooden frame to be considered.	Work is to be carried out as per CPWD specifications and tender conditions.
9	Vol V, BOQ Item No. 7.16	P/L 8mm thick (- N13329) HD- laminated wooden flooring including skirting of approved brand and manufacture(class use of 31/33 AC 4 plank size 1290 X 194 mm & groove construction with edge impregnate with seal to secure long lasting joints, secured together with the help of suitable glue, conforming to EN 13329 including the cost of 0.6 mil. PE Film and 2 mm PU Foam with accessories like Skirting, T Profile, beading, stair nose etc all complete.	We request you to kindly specify the approved makes for wooden flooring like Greenply / Pergo / Trott / Zylos	Work is to be carried out as per CPWD specifications and tender conditions.

10	Vol V, BOQ Item No. 10.05	Providing and fixing glass Reinforced Concrete (G.R.C ) Screens in approved size, pattern design, thickness and color of approved make...	We request you to kindly provide the drawings for GRC Screens.	Base rate of GRC screen shall be 380/- per sqft.(excluding GST ) FOR site. Work shall be carried out as per Tender conditions.
11	Vol V, BOQ Item No. 10.11	Providing and fixing Auditorium Chairs as per specification given below...	We request you to kindly specify the approved makes for auditorium chairs	Work is to be carried out as per tender conditions.
<b>PHE</b>				
12	Vol 5 & PHE BOQ, SL NO.1.03a Sanitary Fittings	White Vitreous China - Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Kindly provide us the model number for wash basin.	No change. Shall be as per tender conditions.
13	Vol 5 & PHE BOQ, SL NO.1.05 Sanitary Fittings	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	Kindly provide us the model number for wash basin.	No change. Shall be as per tender conditions.
14	Vol 5 & PHE BOQ, SL NO.1.22 Sanitary Fittings	P&E wall Soap Holder with brackets', complete fittings of roca or other equivalent approved make ( Jaquar or other equivalent model as per approved make)	Kindly provide us the model number.	No change. Shall be as per tender conditions.
15	Vol 5 & PHE BOQ, SL NO.1.24 Sanitary Fittings	Providing and fixing C P brass towel rail complete of approved quality and colour.(Jaquar or other equivalent make.)	Kindly provide us the model number.	No change. Shall be as per tender conditions.
16	Vol 5 & PHE BOQ, SL NO.1.26 Sanitary Fittings	providing & fixing double robe hook	Kindly provide us the model number.	No change. Shall be as per tender conditions.
17	Vol 5 & PHE BOQ, SL NO.1.28 Sanitary Fittings	Supply and installing of Grab Bar S type-304,18-gauge(1mm) stainless steel tubing with, satin-finish.1 -1/2"(25.4 mm) outside dia.Concealed mounting flanges- 18-8 S ,type-304, stainless steel plate: end flanges with two holes for attachments to wall. stainless steel with satin-finish. Each cover snaps over mounting flange to conceal mounting screws.make Euronics or equivalent-600 mm(L)	Kindly provide us the model number.	No change. Shall be as per tender conditions.
18	Vol 5 & PHE BOQ, SL NO.1.29 Sanitary Fittings	Providing & fixing S S body solid state fully hygienic no touch Hand Drier of approved make rated for continuous repeat usage with solid state time delay LS - protection, with independent ambient light level & seasonal control temperatures including providing necessary C .I./M.S . brackets painted with two or three coats of enamel paint of approved shade over a coat of primer, wiring cables from drier to plug, plug tops etc. complete including cutting and making good the walls wherever required.	Kindly provide us the model number.	No change. Shall be as per tender conditions.
19	Vol 5 & PHE BOQ, SL NO.3.32 Water supply	Providing and Fixing concealed Bath & Shower Mixer and diverter cutting and making good the wall complete as per instructions of the engineer-in-charge	Kindly provide us the model number.	No change. Shall be as per tender conditions.
20	Vol 5 & PHE BOQ, SL NO.3.33 Water supply	Providing and Fixing Over head shower 100 mm dia having aerators/flow restrictor to achieve the desired flowrate with Shower Arm complete as per instructions of the engineer-in-charge (Flowrate : 8.4 LPM at 45 Psi pressure)	Kindly provide us the model number.	No change. Shall be as per tender conditions.
21	Vol 5 & PHE BOQ, SL NO.3.34 Water supply	Providing and Fixing CP Bath spout with wall flange having aerators/flow restrictor to achieve the desired flowrate complete as per instructions of the engineer-in-charge or as per equivalent make. (Flowrate : 8.4 LPM at 45 Psi pressure)	Kindly provide us the model number.	No change. Shall be as per tender conditions.
22	Vol 5 & PHE BOQ, SL NO.5.01 Solar water heater	Providing and fixing G.I.fittings and clamps, i/c cutting and making good the walls etc.	We understand that this item is including GI Pipes & fittings. Kindly confirm.	Yes, it is pipe & fitting complete.

23	Vol 5 & PHE BOQ, SL NO.12.07, WTP & Pumps	Supplying, installing, testing and commissioning vertical on line multi stage centrifugal pumping set with mechanical seal C.I. volute and S S impeller & S S shaft connected to a T- - C induction motor of suitable HP for 415 volts, 3 phase, 50 cycles A.C . supply with 150 mm dia pressure gauge with S S /gunmetal isolation cock, vibration eliminating pads, base plate wiring upto panel and equipment for water level controller to start and stop the pump automatically at predecided levels of the water in the tank with provision of protection for dry run etc. complete in all respect. The efficiency of the pump shall be more than 60% (The shop drawing or the pumps along with its characteristics curves, model and technical data etc. are to be submitted for approval before purchase of pump).	Kindly confirm that the item is (1w+1s) or 1w only.	4 Set (2 W+2 S)
24	Vol 5 & PHE BOQ, SL NO.13.01, ETP	Providing and fixing packaged type Effluent treatment plant including design/shop drawing and obtain the approval from HS C C before erection, commissioning, construction of ETP including civil, mechanical, electrical, piping work complete in all respect on turnkey basis.The system should be fully automatic with level control,compact, odor free and shall consume low power. ETP will be placed near STP site of the building of suitable size for 100 K L D required to treat the effluent of lab, laundry, kitchen and hospital facilities by using suitable technology complete in all respect including oil and grease trap/chemical reaction with suitable chemical dosing such as entons reagent or any other suitable for effluent/mixer/settler/neutralisation chamberbdosing pump and agitator, holding tank, including multigrade filter stand by motor pump, blower etc. pumps and piping, filter, sludge holding tank, filter press, testing kit, electrical panel, air blower, R CC Equilisation tank/holding tank.Treated water transfer pump and sump of suitable art. ity	We presume that ETP capacity is 100 KLD and civil works are excluded. Kindly confirm. Also provide us the technical specification for ETP & STP	Civil works will be measured and paid under relevant items.
25	Vol 5 & PHE BOQ, SL NO.14.01, STP	Planning, Designing, Detailing, Supplying, Erection, Testing and Commissioning of Sewage treatment plant based on MBBR (Moving bed Bio Reactor)/- AB technology of average flow rate of 1000 cu.m/day (2 streams) for sewer including provision of recirculation of treated sewage/effluent for the use of horticulture/flushing/A/c purposes including design and execution of all civil,structural, electrical, mechanical, plumbing and processing, ancillary equipments and works etc required to complete the package, getting approval from state pollution control board and other statutory bodies as well as from consultant (consultant) /Client including the cost of STP building for electrical room, treated sewage under ground storage tank etc. STP shall be design in such a way that it has a provision to easy extension for phaseII load (appr. 500 KLD).The planning & designing has to carried out for phase-I & II, HOWEVER THE EXECUTION WILL BE CARRIED OUR FOR PHASE-1 ONLY.	We understand that each stream will have 500 cum/day. The capacity of STP is 500cum for phase 1 and 500 cum for phase 2. Hence, we can quote for 500 cum of phase 1 capacity alone . Kindly confirm. Also, we request you to confirm that civil works required shall be measured and paid under relevant items.	the capacity of STP is 1000 KLD in phase 1 & additional provision for future of 500 KLD has to be considered in design & planning. However the execution will be carried out for 1000 KLD only.
<b>FPS</b>				

26	S.No.1.43 of Fire Fighting System of Page 7 of 16 of Volume 5- BOQ  LT panel -CO2 Flooding System	Providing and fixing complete CO2 flooding system of approved make and model for main LT panel including two nos. 22 kg seamless cylinder required quantity of MS seamless pipe, manifold, NRV, high pressure flexible hose, weighing arrangement, pneumatic valve, CO2 nozzles including painting and MS support. The size of main LT panel will be as per Electrical scope of work. The shop drawing/datasheet of CO2 flooding system shall be provided by Agency for approval of HSCC before start of the work. The CO2 flooding panel shall also meet out the local Fire Officers latest requirement and anything extra or any modification required by Fire Officer shall be carried out by Agency without any extra cost.	Kindly provide us the dimension for LT Panel.	The size of LT panel will be as per approved shop drawing.
27	S.No.1.44 of Fire Fighting System of Page 8 of 16 of Volume 5- BOQ  HT panel -CO2 Flooding System	Providing and fixing complete CO2 flooding system of approved make and model for main HT panel including two nos. 45 kg seamless cylinder required quantity of MS seamless pipe manifold NRV, high pressure flexible hose weighing arrangement pneumatic valve CO2 nozzles including painting and MS support. The size of main HT panel will be as per Electrical scope of work. The shop drawing/datasheet of CO2 flooding system shall be provided by Agency for approval of HSCC before start of the work. The CO2 flooding panel shall also meet out the local Fire Officers latest requirement and anything extra or any modification required by Fire Officer shall be carried out by Agency without any extra cost.	Kindly provide us the dimension for HT Panel.	The size of HT panel will be as per approved shop drawing.
<b>Electrcial</b>				
28	Volume I NIB & ITB / Page 19  List of specialized item / jobs for Electrical /HVAC/OT etc. work (As applicable)	1.26. This being a composite tender, the Bidder must associate with himself agencies otherwise eligible to tender for other components individually including specialized services for which an affidavit/undertaking as per format enclosed at Form H should be submitted along with the Technical Bid.	In case of engagement of any specialised agencies, Form H shall be submitted after award of contract. Please confirm.	No change. Shall be as per tender conditions.
29	Vol-III SCC / ADDITIONAL SPECIFIC CONDITONS OF CONTRACT AND SPECIFICATIONS / Page 39  B) RELATING TO ELECTRICAL INSTALLATIONS	8.0 Drawings The Contractor shall submit six sets of working electrical drawings based on tender drawing including reflected ceiling plan coordinating other essential building services for the Executing Agency's approval.	We presume that coordination drawings for the services shall be provided by Client/consultant. However shop drawings shall be submitted by contractor for approval.	No change. Shall be as per tender conditions.
30	Vol-III SCC / ADDITIONAL SPECIFIC CONDITONS OF CONTRACT AND SPECIFICATIONS / Page 43  B) RELATING TO ELECTRICAL INSTALLATIONS	22.0 Completion Drawings (As Built Drawings) 22.1 On completion of the work and before issue of certificate of virtual completion, the Contractor shall submit to the Engineer completion plan drawn to a scale in tracing cloth with ink indicating the following, along with three blue print copies of the same:	Inspite of tracing cloth with ink, drawings printed in plain paper of standard size shall be submitted.	No change. Shall be as per tender conditions.
31	VOLUME – IV Technical Specification SPEC Page E-10 R0  4.0 L.T. SWITCHGEARS	4.1.8 TESTING Testing of each circuit breaker shall be carried out at the works as per IS 2516 and the original test certificate shall be furnished in triplicate. The tests shall incorporate at least the following. i. Impulse withstand test. ii. Power frequency withstand test. iii. Short circuit test. iv. Temperature - rise test under rated conditions.	Mentioned tests are falling under Type test.  For any type test, only type test report for test conducted on similar/higher rated breaker shall be submitted. Please confirm.	Shall be as per tender conditions
32	VOLUME – IV Technical Specification SPEC Page E-15 R0  5.00 BUS TRUNKING/ RISING MAINS	5.4 Construction: The enclosure will be made from 16 SWG GI/ CRCA sheet steel powder coated of approved shade.	Material for construction of Busduct shall be as per the approved manufacturers type tested design standards. Please confirm.	Shall be as per latest IS/CPWD specifications.

33	VOLUME – IV Technical Specification SPEC Page E-88 R0  LIST OF APPROVED MAKES FOR ELECTRICAL SYSTEM	37. LED light fitting & Fixture - Philips / GE/ Crompton Greaves.	Out of the approved makes furnished GE is not manufacturing or offering luminaries presently. Hence request to kindly provide additional makes for LED light fitting and fixture.	No change. Shall be as per tender conditions.
34	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 202/343  SUBHEAD 1: RISING MAINS	Supply installation testing and commissioning of plug in type indoor sandwich type with high conductivity Aluminium Conductor 415 V 3phase 4 wire vertical Aluminium Rising main Class B or better in following sizes including bends flexible provision of the tap off's as per requirement Adoptor boxes for cable connection if required are inclusive 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains end cover including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. 1.01 i) 400 A, 415 volts ii) 630 A, 415 volts ii) 800 A, 415 volts iii) 1000 A, 415 volts iii) 1600 A, 415 volts iii) 2000 A, 415 volts	Quantity for Rising main Accessories such as Bends, Flange Ends, End Covers, etc. are not provided in BOQ. Hence request to kindly furnish quantity for the following accessories. 1. Bends 2. Flange End 3. End Cover 4. Plug-in Tapoff provision per floor	Shall be as per actual requirement of site.
35	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 204/343  SUB HEAD 2: MV PANELS	2.01 MV Panel Section 1 & Section 2 ( Ground 1st 2nd 3rd 4th & 5th floor)  AUTO TRANSFER SWITCH (ATS)	Technical Specification for Auto Transfer Switch is not available as part of tender NIT. Request to kindly provide the same.	ATS must comply IEC 60947-6-1 standard having AC-33B utilisation category with inbuilt self controller switch and controller both should have 35 KA or more rating.
36	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 241/343  SUB HEAD 5: WIRING	5.01 Point wiring as mentioned above Group C	Request to kindly provide average wiring length to be considered for this line item.	Can be calculated from tender drawings.
37	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 242/343  SUB HEAD 5: WIRING	5.02 Wiring for twin control light points as mentioned above	Request to kindly provide average wiring length to be considered for this line item.	Can be calculated from tender drawings.
38	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 243/343  SUB HEAD 5: WIRING	5.16 Supply Installation Testing & Commissioning of 360 degree Ceiling recess mountable 360 degree multifunction sensor that combines motion detection (PIR) Infrared remote control reception (IR) and ambient light level detection (P-) into one device.	Model Nos. for the Sensor is not provided in BOQ line item description. Hence request to kindly furnish the model Nos. of sensor against each of the approved makes to be considered for this line item.	Shall be as per approved make list.

39	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 243/343  SUB HEAD 5: WIRING	5.17 Supply Installation Testing & Commissioning of Standalone Ceiling Mounted Motion PIR sensor 360 degree.	Model Nos. for the Sensor is not provided in BOQ line item description. Hence request to kindly furnish the model Nos. of sensor against each of the approved makes to be considered for this line item.	Shall be as per approved make list.
40	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 243/343  SUB HEAD 5: WIRING	5.18 Supply Installation Testing & Commissioning of Standalone Wall Mounted Motion PIR sensor 90 degree.	Model Nos. for the Sensor is not provided in BOQ line item description. Hence request to kindly furnish the model Nos. of sensor against each of the approved makes to be considered for this line item.	Shall be as per approved make list.
41	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 243/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (i) 1 x 20 W LED box type fluorescent light fixture (Philips BN108C LED 20S PSU CDL WH including Mounting Accessories with minimum system lumen 2100 or approved equivalent from list of Makes )(120b/ 120bw)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
42	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (ii) 2 x 20 W LED box type fluorescent light fixture (Philips BN108C LED 40S PSU CDL WH including Mounting Accessories with minimum system lumen 2100 or approved equivalent from list of Makes )(220b/ 220bw)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
43	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (iii) LED Recessed flush mounted light fixture (Full Glow (1200mm) Philips RC380B G2 LED 34S 6500 L120 W30 PSU OD or Crompton LCTLR-40-CDL as per requirement with minimum system lumen 3000 or approved equivalent from list of Makes)(R MSQ3b IC U)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
44	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (iv) LED recessed flush mounted light fixture (Full Glow (600mm) Philips RC380B G2 LED34S 6500 PSU OD WH or Crompton LCTLRN-36-FO-CDL per requirement with minimum system lumen 3000 or approved equivalent from list of Makes)(R MSQ3b IC U)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.



45	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (v) LED recessed flush mounted light fixture (Full Glow (600mm) Philips RC380B G2 LED34S-6500 PSD OD WH or per requirement with minimum system lumen 3000 or approved equivalent from list of Makes) ( FOR DALI )	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
46	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (vi) LED Surface mounted light fixture (Philips SP824P LED 29S 5000 GR OD or Crompton LCTLS-40-CDL as per requirement with minimum system lumen 3000 or approved equivalent from list of Makes)(236SM01)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
47	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (vii) 1 x 10 W Bulk Head light fixture (Philips WT202 W L-D 6S CW PSU S1 PC or approved equivalent from list of Makes)(BH)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
48	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (viii) 1 x 14 W Mirror top with diffuser in 2ft variant (Crompton Greaves LINNET # LCL-14-CDL or approved equivalent from list of Makes)(wtoilet)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
49	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (x) 1 x 15 W LED Surface mounted down light fixture (Philips DN170C LED 10S-6500 PSU WH or approved equivalent from list of Makes)(DL0-S)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
50	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (xi) LED Recessed flush mounted down light fixture (Philips DN194B LED 15S 6500 PSU WH or Crompton LCDD-18-CDL/TL/WW or approved equivalent from list of Makes)(DL 1)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.

51	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (xii) 1 x 18 W LED Surface mounted down light fixture (Crompton Greaves Pearl Round LCD SPL R-18-CDL or approved equivalent from list of Makes )	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
52	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (xiii) 1X 3 / 5 W LED Surface /Recessed flush mounted light fixture to be used as night lamp Ceiling mounted (NL CM)	Model Nos. for the Luminaire is not provided in BOQ line item description. Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
53	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (xiv) 1X 3 / 5 W LED Recessed flush mounted light fixture to be used as night lamp wall mounted (NL WM)	Model Nos. for the Luminaire is not provided in BOQ line item description. Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
54	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (xv) 1 x 10 W wall Bracket (Philips LED-1 x 10 W 45617/17 V ase or approved equivalent from list of Makes)(W B)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
55	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (xvi) 1X 36 LED Surface mounted down light fixture (Crompton Greaves Pensile LCSA1-36-CDL/S or approved equivalent ) (DL2)	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
56	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.01 (xvii) 1X 50 LED Recess mounted down light fixture (Crompton Greaves Prakhar LCDNR-50-CDL/WW or approved equivalent )	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.

57	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	Supply of following ceiling fans (BEE 5 Star Rated) complete with double ball bearing motor blades downrod canopies capacitor modular type electronic fan regulator suitable for operation on 230 voltsb 50 Hz. I) 1400mm Sweep III) 900mm Sweep	As per the approved Fan manufacturers confirmation, BEE-5 Star rating is available only for 1200mm sweep ceiling fan and is not available for 1400mm / 900mm sweep ceiling fans. Please confirm shall we consider fans without star rating for 1400mm and 900mm sweep ceiling fan as per market availability.	900/1400mm fan will be ISI marked.
58	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.03 Supply of 1380 RPM, 300 mm (Crompton Greaves Trans Air or approved equivalent) exhaust fan suitable for single phase 230 volts, 50 Hz., AC supply complete with motor, louvers/shutters etc. complete as required.	Request to kindly furnish the model Nos. of exhaust fan against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
59	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 244/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.04 Supply of 1250 RPM, 250 mm (Crompton Greaves Brisk Air or approved equivalent) exhaust fan suitable for single phase 230 volts, 50 Hz., AC supply complete with motor, louvers/shutters etc. complete as required.	Request to kindly furnish the model Nos. of exhaust fan against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
60	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 245/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.05 Supply of 400 mm sweep, Crompton greaves model high flow 16" wall mounted fan complete with double ball bearing, motor, blades, capacitor etc suitable for single phase 230 volts, 50 Hz., AC supply, complete as required.	Request to kindly furnish the model Nos. of wall mounted fan against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
61	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 245/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.10 Supply, installation, testing and Commissioning of LED Type Aviation light Philips XGP400 1xLED-K2/RD240V or approved equivalent including its wiring.	Luminaire model No. as specified is presently not available in Philips's manufacturing range. Hence request to kindly furnish the alternate model Nos. for the luminarie against each of the approved makes to be considered for this line item.	No change. Shall be as per tender conditions.
62	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 245/343  SUB HEAD 6: LIGHT FIXTURE AND FANS	6.10 Supply, installation, testing and Commissioning of LED Type Aviation light Philips XGP400 1xLED-K2/RD240V or approved equivalent including its wiring.	Please provide the average length of wiring to be considered for this line item.	Can be calculated from tender drawings.

63	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS KALYANI Page No. 264/343  SUB HEAD 19 :SPECIALIZED SERVICE OF AUDITORIUM	19.01 Supply Installation Testing & Commissioning of LED downlighter 24W , 2000 lumen , DALI Dimmbale same as Philips cat no: DN 395B LED20S-6500 PSR WH . Approved makes :Philips or approved equivalent.	Request to kindly furnish the model Nos. of luminarie against each of the approved makes to be considered for this line item.	Equivalent model of approved make will be accepted.
64	BILL OF QUANTITIES (B.O.Q.) OF HVAC WORKS FOR "HOSPITAL & ACADEMIC CAMPUS", AIIMS - KALYANI Page No. 329/343  D) Electrical 29. Cabling	29.1 Supplying, laying, effecting proper connections, testing & commissioning of following size of 1.1 kv XLPE insulated aluminium conducting armoured cables as per IS 7096 laid underground/cable tray/on surface of wall/hume pipe etc. & termination with brass double compression glands as required. Item NO. 29.1.1 to 20.1.16	As per BOQ description it is mentioned to include termination as part of cable supply and installation cost. But quantity for Nos. of terminations against each of cable size is not provided as part of BOQ line item. Hence request to kindly provide separate line item for cable termination.	No change. Shall be as per tender conditions.
<b>HVAC</b>				
65	Vol 5 BILL OF QUANTITIES FOR HVAC WORKS  Factory Witness Testing	Water Cooled Centrifugal Chillers with VFDs	We presume only factory witness testing has to be considered for only one Centrifugal Chiller per capacity & model. Kindly confirm.	<b>Clarification/Amendment:-</b> No witness testing. One randomly selected chiller shall be tested at 04 points mentioned in BOQ at tender conditions.
66	Vol 5 BILL OF QUANTITIES FOR HVAC WORKS  Factory Witness Testing	General	We presume only Centrifugal chiller has to be Factory Witness Tested and no other HVAC equipment require Factory Witness Testing. Kindly confirm.	No change. Shall be as per tender conditions.
67	Vol 5 BILL OF QUANTITIES FOR HVAC WORKS  2.0 WATER CIRCULATION PUMPS	Type of Pumps	Request you to provide us the liberty to choose the type of pump among end suction back pull out long coupled/short coupled, monoblock, vertical inline, horizontal split casing, vertical split casing for primary,secondary, tertiary and condenser water pumping applications.	<b>Clarification/Amendment:-</b> <b>Condenser water pump:</b> End suction back pullout. <b>Primary chilled water pump:</b> End suction back pull out. <b>Secondary chilled water pump:</b> Inline pump. <b>Tertiary chilled water pump:</b> Inline pump.
<b>Bidder No. 2</b>				
<b>F</b>				
68	Clause2.3.6 (A) II (b), NOTICE INVITING BIDS, Page 25, NIT  EARNEST MONEY	The EMD will be in the form of demand draft of a scheduled bank issued in favour of "HSCC (I) Ltd" payable at New Delhi/Noida or fixed deposit receipt or Banker's cheque or Bank Guarantee in favour of "HSCC (I) Ltd " as per Form B, having validity for six months or more from the last date of receipt of tenders. The Bank guarantees should be irrevocable and operative for a period of six months or more from the last date of receipt of tenders or any extension thereof.	As per RBI guidelines, following details are required in order to process Bank Guarantee : a. Name & full address of the beneficiary bank branch b. IFS code of the beneficiary bank branch. We request you to kindly provide us the same.  Please clarify the bank Guarantee will be in favour of "HSCC (India) Limited" or "HSCC (I) Ltd" .	The bank guarantee shall be in favour of HSCC (India) Limited  The Bank details are as given below: 1. Punjab National Bank, Sector 27, Noida 2. IFSC Code : PUNB0272600 3. Account No.: 2726001800000011
69	Page No. 41, NIT & ITB  FORMAT FOR EMD/ BID SECURITY BANK GUARANTEE	"We undertake to pay the Executing Agency any money so demanded by the Executing Agency notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceedings pending before any Court or Tribunal relating thereto, our liability under this present being absolute and equivocal."	As the bank is not accepting such condition, we request you to kindly omit this clause from the format of the EMD Bank Guarantee.	No change. Shall be as per tender conditions.
70	1.4.1. (b) NOTICE INVITING BIDS, Page 12, NIT  ELIGIBILITY CRITERIA	In case the work experience is of Private sector the completion certificate shall be supported with copies of Corresponding TDS Certificates.	Since TDS equivalent to value of the contract are not always available. We request you to kindly allow submission of TDS equivalent to 80% of the project value, as is generally accepted by Central government/state government and public sector enterprises.	No change. Shall be as per tender conditions.

71	1.4.1. (b) NOTICE INVITING BIDS, Page 12, NIT  ELIGIBILITY CRITERIA	Similar Works shall mean a project comprising of any Institutional multistoried RCC framed structure building	Since the scope of work under this tender is "Hospital and Academic Campus", we presume that works of Educational Institution and Hospital shall only be considered as Similar Works.	Shall be as per tender conditions and amendments.
72	1.4.1. (b) NOTICE INVITING BIDS, Page 13, NIT  ELIGIBILITY CRITERIA	Profit / loss : The Company should have a positive Net Worth and should have incurred loss (Profit after tax should be positive) in not more than Two years during the last Five years ending 31st March 2017	Eligibility Criteria cannot specify such requirement (loss making). It appears it's a typo. Kindly review the sentence.	No change. Shall be as per tender conditions.
73	Clause 4.1.1, Page SCC-P-5 & SCC-P-6 (Page 14 & 15 of PDF), SCC  Operation & Maintenance During Defect Liability Period	The contract comprises the construction, completion, remedying the defect of the works operation & Maintenance during defect liability period and expect in so far as the contract otherwise stipulates, the provision of all labour, materials, constructional plant, machinery temporary works and everything, whether of a temporary or permanent nature required in and for such construction, completion and maintenance so far as necessary for providing the same as specified in or reasonably to be inferred from the contract.	Kindly specify the detailed scope of operation and maintenance during defect liability period.	No change. Shall be as per tender conditions.
74	Clause ii, Form A Appendix, Page 39, NIT & ITB  DATE OF COMMENCEMENT OF WORK	15 days from letter of award or 15 days after handing over of site whichever is later.	We request you to kindly consider the date of commencement as 15 days from the latest of the following: 1. The Letter of Acceptance containing all the essential information to execute the work. 2. The handing over of complete construction site without encumbrances. 3. Issuance of construction drawings released for at least three months' work as per drawing release schedule agreed at start of the project.	No change. Shall be as per tender conditions.
75	Page 2 & 3, NIT & ITB & Clause 1.5, Page 13, NIT & ITB  DURATION OF CONTRACT	1) 18 Calendar Months for all buildings of the Academic Campus, including completion of all services (within the scope of this tender) required for making these buildings operational. 2) 22 Calendar Months for all other buildings and works.	Kindly clarify which buildings are required to be completed and handed over within 18 months.	18 Calendar Months for all buildings of the Academic Campus, i.e., Medical College, Nursing College, Admin Block, Library, including completion of all services (within the scope of this tender) required for making these buildings operational  22 Calendar Months for all other buildings and works
76	Page 2, NIT & ITB & Page 17 & 18, NIT & ITB  SCOPE OF WORK	Civil & Finishing Works, Internal Electrification, HVAC, PHE, Fire-fighting, Fire Alarm System, CCTV System, Nurse Call System, Lifts, AV System, PA System, Access Control System, Gas Plant, Incinerator, Laundry Equipment, Gas Pipe Line, Oxygen Generation Plant, External Development etc. and their Maintenance during Defect Liability Period.	1. Kindly clarify the scope of maintenance works during DLP. 2. We could not find BOQ items related to following works in the BOQ: a. Gas Plant b. Incinerator c. Laundry Equipment d. Gas Pipe Line e. Oxygen Generation Plant Kindly clarify.	The items to be executed are detailed in the Bill of Quantities (Volume V)
77	Clause v, Form A Appendix, Page 39, NIT & ITB  DEFECT LIABILITY PERIOD	12 months from the date of issue of "Taking-over certificate".	We understand that the Taking over Certificate shall be issued as soon as the structures are handed over to the Client. Kindly confirm. Also, our understanding is that Taking over Certificate of buildings in the academic campus shall also be issued soon after handing over of the same to the Client followed by commencement of defect liability period of the academic campus. Kindly confirm. Further, please clarify the co- relation between taking over certificate and completion certificate.	No change. Shall be as per tender conditions.

78	Clause 1.6.ii, page 13, NIT & ITB  DRAWINGS / ENGINEERING BY CONTRACTOR	Architectural Drawings, Structure framing plan and general arrangement drawings shall be provided by HSCC. However detailed structure/architecture drawings shall be prepared by the Contractor. Contractor will also prepare detailed shop drawings based on the concept drawings given by client/ Executing Agency for all services e.g. Electrical, Plumbing, Fire fighting, fire detection, HVAC & Plant layout etc. The contractor shall make all necessary co-ordination. The contractor shall get the structural drawings duly vetted from IIT and the expenditure incurred for IIT vetting will be reimbursed by HSCC. The architectural and structural drawings should as per requirement of the same as per approved programme of completion submitted by the Contractor after award of the work.	As it is an item rate contract, we presume that: 1. All architectural, structural & finishing detailed drawings shall be provided by you to the Contractor, 2. All MEP drawings shall be provided by you to the Contractor except shop drawings, 3. All required approvals / vetting of drawings shall be done by you. Kindly confirm.	This is Percentage rate contract. Please refer amendment No. 1 for clarification regarding drawings.
79	Clause 4, Scope of Work, Page 32, NIT & ITB & Clause 4, SCC P-4 & 5 (Page 13 & 14 of PDF)  SUBMISSION / PREPARATION OF COMPLETION DRAWINGS / SPECIFICATIONS / VENDOR LIST	The activities to be carried out for the completion of the Project shall include the following and any additional activities incidental to these: iv. Submission of the completion (i.e. 'as-built') drawings and other related documents, both a hard copy and the soft copy in Auto CAD or any other IT application used for the purpose. v. Preparation of specifications and vendor list (in case not already provided) for all equipment wherever necessary and called upon to do so and getting these approved from client.	We request you to kindly exclude these from the scope of the Contractor and keep the same in the scope of the Client.	No change. Shall be as per tender conditions.
80	Clause 2.3.7, Page 24 & 25, NIT & ITB  TAXES	These percentage rate/prices should include taxes, charges, levies, cess, VAT, GST, Service Tax etc. excluding PF & ESI till the date of submission of bids or any extension thereof. In case Government levies/modifies any tax subsequently the same will be adjusted plus/minus as the case may be.	The two clauses mentioned here contradict each other in respect of adjustment of prices in case of change in taxation / imposition of new taxes due to Govt. legislation. We understand that the same will be adjusted accordingly. Kindly confirm.	No change. Shall be as per tender conditions.
81	Clause 37, Clauses of Contract, Page 68 of 123 (Page 69 of PDF), GCC  TAXES	Sales Tax/VAT (including Service Tax and/or GST), Building and other Construction Workers Welfare Cess or any other tax or Cess in respect of this contract shall be payable by the contractor and Government shall not entertain any claim whatsoever in this respect.		No change. Shall be as per tender conditions.
82	Clause 10Bii, Clauses of Contract, Page 31 of 123 (Page 32 of PDF), GCC; Clause 10Biv, Clauses of Contract, Page 32- 33 of 123 (Page 33- 34 of PDF), GCC & Schedule F, Section- 7, Annexure- 3, Page 110 of 123 (Page 111 of PDF), GCC  MOBILISATION ADVANCE	Mobilization advance (bearing simple interest @ 10% p.a.) not exceeding 10% of the tendered value may be given, if requested by the contractor in writing within 1 month of the order to commence the work. Such advance shall be in 2 or more instalments to be determined by the Engineer-in-Charge at his sole discretion. Before any instalment of advance is released, the contractor shall execute a Bank guarantee Bond from scheduled Bank for the amount equal to 110% of the amount of advance valid for the Contract Period.	We request you to kindly provide us mobilisation advance @10% of Contract Value in single instalment against submission of Bank Guarantee of equivalent amount. Also, we request you to calculate interest on the mobilisation advance upto the date of submission of the bill by the Contractor.	No change. Shall be as per tender conditions.
83	Clause 10Bi, Clauses of Contract, Page 31 of 123 (Page 32 of PDF), GCC  SECURED ADVANCE	Up to 75% of the assessed value of non-perishable, non-fragile and non-combustible materials brought on the site. The amount of such advance shall be recovered/ deducted from the next payment made. Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-Charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc.	We request you to recover secured advance in proportion to the consumption of the material against which advance shall be provided.	No change. Shall be as per tender conditions.

84	Page 110 (Page 111 of PDF), Schedule F, GCC ESCALATION (AS PER CLAUSE 10CA)	Base price of materials: • OPC (including cement component used in RMC brought at site from outside approved RMC plants, if any )- Rs. 5300/- per Tonne • Reinforcement Steel: Primary Manufacturer- Rs.42525/- per Tonne • Structural Steel : Rs. 44940/-per Tonne	Kindly confirm if the base prices mentioned here are inclusive of taxes, transportation and unloading cost.	Please refer to Amendment No.1
85	Clause 7, Clauses of Contract, Page 24 & 25 of 123 (Page 25 & 26 of PDF), GCC SUBMISSION OF INTERIM BILLS	The interim or running account bills shall be submitted by the contractor on or before the date of every month fixed for the same by the Engineer-in-Charge.	Kindly confirm to whom we shall submit our interim bills for certification and who will be the paying authority.	No change. Shall be as per tender conditions.
86	Clause 7, Clauses of Contract, Page 24 & 25 of 123 (Page 25 & 26 of PDF), GCC PAYMENT OF INTERIM BILLS	The amount admissible shall be paid by 10th working day after the day of presentation of the bill. In the case of works outside the headquarters of the Engineer- in-Charge, the period of 10 working days will be extended to 30 days.	Kindly specify the time period between the date of submission of the bill by the Contractor and the date of presentation of the bill.	No change. Shall be as per tender conditions.
87	Schedule F, Section- 7, Annexure- 3, Page 110 of 123 (Page 111 of PDF), GCC MINIMUM BILL VALUE FOR PAYMENT OF INTERIM BILLS	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.: Rs. 12.5 Crore.	We request you to pay us the value of the interim bills irrespective of the bill value.	No change. Shall be as per tender conditions.
88	Clause 9, Clauses of Contract, Page 27 of 123 (Page 28 of PDF), GCC PAYMENT OF FINAL BILL	Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within 6 months from the date of receipt of the bill by the Engineer-in-Charge or his authorized Engineer.	We request you to pay us the final bill amount within 60 days from the date of submission of the final bill by the Contractor.	No change. Shall be as per tender conditions.
89	Clause 32.3, SCC P-31 (Page 40 of PDF) LABOUR CAMP	The Contractor shall make his own arrangement at his own expense for labour camp / accommodation of his labour and their conveyance to Site as no workers shall unless with the specific approval of the Engineer be allowed to stay within the Site.	We request you to kindly provide us land inside or near the site premises free of cost for constructing labour hutments.	No change. Shall be as per tender conditions. Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender/bids. Please also refer to CLause 1.17 of Volume I
90	Clause 32.5, SCC P-31 (Page 40 of PDF), SCC CONSTRUCTION WATER	The Contractor shall make his own arrangement for water supply at Site for drinking as well as construction purposes at his own cost.	We request you to kindly provide us construction water at at least three points within the site premises free of cost. Necessary arrangements for distribution of the same shall be done by us.	No change. As per tender conditions only.
91	Clause 32.5, SCC P-31 (Page 40 of PDF), SCC CONSTRUCTION POWER	The Contractor shall make his own arrangements for power supply at Site for construction, testing & commissioning of all services and general use at his own cost.	We request you to kindly provide us construction power at at least one point within the site premises free of cost. Necessary arrangements for distribution of the same shall be done by us.	As per tender conditions only.
92	Clause 32.6, SCC P-32 (Page 41 of PDF) SITE OFFICE AND INFRASTRUCTURE	A reasonably furnished site office and transit accommodation having a sample room, A.C. meeting room, A.C. staff rooms with file storage facility along with computers & printers and its consumables, a telephone with STD facility, Fax Machine, internet and toilets & pantry and a vehicle (Swift Dzire or equivalent) complete with driver, fuel and consumables shall be provided for Executing agency / HSCC by the Contractor at his own cost for the duration of the Contract. Electricity & drinking water for the site office will have to be provided by the contractor at his own cost for the site office. In case suitable existing building / accommodation is available at site, the same may be furnished as above with the consent of the Executing Agency.	Kindly provide us the capacity of the site office and transit accommodation.	Area of site office shall be approx 300sqm. All other details shall be as per tender conditions.

93	Clause 2, Clauses of Contract, Page 14 & 15 of 123 (Page 15 & 16 of PDF), GCC  LIQUIDATED DAMAGES:	@ 1.5% of tendered value per month of delay to be computed on per day basis provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the Tendered Value of work.	We request you to kindly consider the maximum amount of liquidated damages as 5% of the tendered value as bonus clause is also having 5% cap.	No change. As per tender conditions only.
94	Schedule F, Section- 7, Annexure- 3, Page 109 of 123 (Page 110 of PDF), GCC  MILESTONE LD	As per the milestone schedule mentioned in Schedule F, Section- 7, Annexure- 3, Page 109 of 123 (Page 110 of PDF), GCC.	We request you to kindly waive off milestone liquidated damages and to consider liquidated damages on total completion only.	No change. As per tender conditions only.
95	Clause 12.2, Clauses of Contract, Page 42- 43 of 123 (Page 41- 422 of PDF), GCC Page 111 (Page 112 of PDF), Schedule F, GCC  QUANTITY VARIATION	1. Deviation Limit for building work: 30%. 2. Deviation Limit for foundation work (except earth work): 30%. 3. Deviation Limit for items in earth work subhead of DSR or related items:100%  In the case of contract items, substituted items, contract cum substituted items, which exceed the limit, the contractor may within 15 days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work. the Engineer-in-Charge shall within 60 days of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.	We request you to kindly consider the deviation limit as (+/-) 20% for all items beyond which item rates shall be revised.	No change. As per tender conditions only.
96	Clause 20.e, SCC P-18 (Page 27 of the PDF), SCC  QUANTITY VARIATION	The contractor shall make no such variations without an order in writing by the Executing Agency, provided that no order in writing shall be required for increase up to 30% or decrease in the quantity of any work where such increase or decrease is not the result of an order given under this Clause, but is the result of the quantities exceeding or being less than those stated in the schedule of items.	We request you to kindly consider the deviation limit as (+/-) 20% for all items beyond which item rates shall be revised.	No change. As per tender conditions only.
97	Clause 12.2, Clauses of Contract, Page 41 of 123 (Page 42 of PDF), GCC  EXTRA ITEMS	In the case of extra item(s), the contractor may within 15 days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Engineer-in-charge shall within prescribed time limit of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.	We request you to pay us for extra items on the basis of (actual cost incurred for material cost, labour cost, plant & machinery hire charges & subcontractor cost) + (15% towards Contractor's profit & overheads) + (all applicable taxes at actual).	No change. As per tender conditions only.
98	Clause 12.2, Clauses of Contract, Page 41 of 123 (Page 42 of PDF), GCC  DEVIATION, SUBSTITUTED ITEMS AND PRICING	In the case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para. (a) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted). (b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).	We request you to pay us for such substituted items on the basis of (actual cost incurred for material cost, labour cost, plant & machinery hire charges & subcontractor cost) + (15% towards Contractor's profit & overheads) + (all applicable taxes at actual).	No change. As per tender conditions only.



99	<p>Clause 15, Clauses of Contract, Page 45 &amp; 46 of 123 (Page 46 &amp; 47 of PDF), GCC</p> <p>SUSPENSION OF WORK</p>	<p>(ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above, (a) the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract. (b) If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds 30 days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in-Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses provided the contractor submits his claim supported by details 15 days of the expiry of the period of 30 days.</p>	<p>We request you to compensate us on mutual discussion if the suspension accumulates to a duration of more than 7 days.</p>	<p>No change. As per tender conditions only.</p>
100	<p>Clause 15.iii, Clauses of Contract, Page 46 of 123 (Page 47 of PDF), GCC</p> <p>Clause 11.b.ii, Page SCC-P-12 (Page 21 of PDF), SCC</p> <p>PROLONGED SUSPENSION</p>	<p>If the works or part thereof is suspended on the orders of the EIC more than 3 months at a time, except when suspension is ordered for any fault of the Contractor, the contractor may after receipt of such order serve a written notice requiring permission within 15 days from receipt by the EIC of the said notice, to proceed with the work. If such permission is not granted within that time, the contractor, if he intends to treat the suspension, as an abandonment of the works, shall within 10 days of expiry of such period of 15 days give notice in writing of his intention to the EIC. In this case, he shall have no claim to payment of any compensation on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the EIC may consider reasonable, adding to the total thereof 2% to cover indirect expenses provided the contractor submits his claim supported by details to the EIC within 30 days of the expiry of the period of 3 months.</p> <p>In the event of the effect of force majeure continuing beyond the period of 180 days, the parties shall mutually decide whether or not to terminate this Contract. In the event of termination of contract the contractor shall be paid for the work done and which has been accepted and certified by the Executing Agency and shall not assert any additional claims against the Client.</p>	<p>We request you to compensate us at actual on account of loss of business, idling of resources if such suspension and subsequent abandonment is due to no fault of or beyond the control of the Contractor.</p>	<p>No change. As per tender conditions only.</p>
101	<p>Clause 3A, Clauses of Contract, Page 18 of 123 (Page 19 of PDF), GCC</p> <p>ABANDONMENT OF CONTRACT DUE TO NON- COMMENCEMENT OF WORKS</p>	<p>In case, the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons.. In such eventuality, the Performance Guarantee of the contractor shall be refunded within the following time limits:  (i) If the tendered value of work is upto Rs.45 lac : 15 days  (ii) If the tendered value of work is more than Rs.45 lac &amp; upto Rs.2.5Crs. : 21 days  (iii) If the tendered value of work exceeds Rs.2.5 crore : 30 days  Neither party shall claim any compensation for such eventuality. This clause is not applicable for any breach of the contract by either party.</p>	<p>We request you to compensate us at actuals on account of loss of business, idling of labour &amp; machineries etc. in such cases.</p>	<p>No change. As per tender conditions only.</p>

102	Clause 13, Clauses of Contract, Page 42 & 43 of 123 (Page 43 & 44 of PDF), GCC  FORECLOSURE OF CONTRACT DUE TO ABANDONMENT OR REDUCTION IN SCOPE OF WORK	The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works. The Contractor shall be paid any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks. Reasonable compensation shall be paid to the Contractor for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable. Reasonable compensation shall be paid to the Contractor for repatriation of contractor's site staff and imported labour to the extent necessary. The reasonable amount as mentioned above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure.	We request you to compensate us at actual on account of loss of business, idling of resources in such eventualities.	No change. As per tender conditions only.
103	Clause 6.b, SCC P-8 (Page 17 of PDF)  FAILURE OF EXECUTING AGENCY TO ISSUE DRAWINGS / INSTRUCTIONS	If by reason of any failure or inability of the Executing Agency to issue within 4 weeks any drawing or instruction for which notice has been given by the Contractor in accordance with Sub-clause 1) and the contractor suffers delay, then the Engineer-in-charge, shall on the request of the Contractor recommend to the Client any extension of time under respective clause. Notwithstanding anything stated above, the Contractor shall not be eligible for any financial compensation arising out of the above.	We request you to compensate us at actual on account of loss of business, idling of resources in such eventualities.	No change. As per tender conditions only.
104	Clause 31.10.viii, SCC P-28 (Page 37 of PDF)  NO COMPENSATION CLAUSE	No idling charges or compensation shall be paid for idling of the contractor's labour, staff or P&M etc. on any ground or due to any reason whatsoever.	We request you to compensate us at actual on account of loss of business, idling of resources if the idling is due to no fault of or beyond the control of the contractor.	No change. As per tender conditions only.
105	Clause 43, Clauses of Contract, Page 71 of 123 (Page 72 of PDF), GCC  COMPENSATION DURING WARLIKE SITUATIONS	Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operations (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. Officers or the Engineer-in-Charge (b) for any material etc. not on the site of the work or for any tools, plant, machinery, scaffolding, temporary building and other things not intended for the work.	Kindly clarify how Contractors can take precautions against air raids.	No change. As per tender conditions only.
106	Clause 31.8, SCC P-27 (Page 36 of PDF)  CUTTING OF TREES	Permission of cutting of trees if required will be obtained by Contractor.	We request you to keep the scope of obtaining required permissions / approvals for cutting of trees with you. Kindly confirm.	No change. As per tender conditions only.

107	Clause 25, Clauses of Contract, Page 57- 59 of 123 (Page 58- 60 of PDF), GCC  ARBITRATION	Except where the decision has become final, binding and conclusive, disputes or difference shall be referred for adjudication through arbitration by a sole arbitrator appointed by the Designated Authority of the Executing Agency. If the contractor does not make any demand for appointment of arbitrator in respect of any claims in writing as aforesaid within 120 days of receiving the intimation from the Engineer-in-charge that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the Executing Agency shall be discharged and released of all liabilities under the contract in respect of these claims. The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) / The Jammu and Kashmir Arbitration and Conciliation Act, 1997 (35 of 1997) (as the case may be) or any statutory modifications or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding.	We request you to kindly modify and incorporate the arbitration clause as follows: Any disputes or differences arising out of this contract which cannot be amicably settled, shall be referred for arbitration to a panel of three arbitrators- one appointed by each parties and the third/ presiding arbitrator to be appointed by the two arbitrators so appointed. The arbitration proceedings shall conform to Indian Arbitration and Conciliation Act, 1996 or any statutory modification/ re-enactment thereof.	Please refer to Amendment No.1
108	Clause 4, Page 32, NIT & ITB  Clause 4, Page 32- 33, NIT & ITB & Clause 4.1.1, Page SCC-P-5 (Page 14 of PDF), SCC  STATUTORY APPROVALS	The activities to be carried out for the completion of the Project shall include the following and any additional activities incidental to these: <input type="checkbox"/> Getting all approvals / permissions / planning permits of the statutory / local / governmental agencies as required incidental to construction/ completion. <input type="checkbox"/> Obtaining occupancy certificate and related NOC's from statutory/ local/governmental agencies. Statutory payment on this account will be reimbursed by the client at actuals on production of payment receipts  The Contractor shall obtain all necessary approvals except pre-construction from Municipal and other local bodies including Municipal bodies, Water supply agencies concerned, Electric Supply and inspectorate. Agencies concerned, Police and Security Agencies, Chief Controller of Explosives, Fire Department, Civil Aviation Department, concerned in accordance to prevailing rules, Building Bye-Laws, tree cutting etc., as the case may be with related to/ required for Construction/Completion. All expenditure on this account will be borne by the contractor. The approvals shall include the following in addition to any other approval which may be required for the project. <input type="checkbox"/> Construction Permit if required <input type="checkbox"/> NOC from Chief Fire Officer <input type="checkbox"/> NOC from Lift Inspector where lifts are provided <input type="checkbox"/> Occupancy certificate <input type="checkbox"/> GRIHA Certification (Minimum 3 Star) HSCC may, at the written request of the Contractor, assist him in obtaining the approvals from relevant authorities. However any such request by the Contractor shall not bind HSCC in any manner.	We request you to exclude obtaining statutory approvals/ NOCs from the scope of the Contractor and keep the same in the scope of the Client.	No change. As per tender conditions only.
108	Page 2, NIT & ITB  LAST DATE OF SUBMISSION OF TENDER	16.11.2017 upto 15:00 hrs	Considering the nature & magnitude of the project, we request you to kindly extend the last date of tender submission up to 01.12.2017.	Please refer to Amendment No.1
<b>Technical Queries: Civil &amp; Finishing Works</b>				
109	Clause 3, SCOPE OF WORK, Page 32, NIT & ITB  SITE PLAN, MASTER PLAN & GEOTECHNICAL INVESTIGATION REPORT	The surveyed site plan and Master plan along with the report of geotechnical investigation are available and will be made available to finally selected Contractor.	We request you to kindly provide us the surveyed site plan & master plan in CAD format along with the geotechnical investigation report at tender stage.	No change. As per tender conditions only.

110	CAD DRAWINGS	Not provided.	We request you to kindly provide us the structural and architectural drawings in CAD format.	The tender drawings in pdf format have already been uploaded as Volume VI - Tender drawings																						
111	Tender Drawings ELEVATIONAL & SECTIONAL DRAWINGS OF STRUCTURES	Elevational & sectional drawings of following structures are not available: 1. Hospital block 2. Nursing college 3. Medical lab 4. Medical offices 5. Logistics block 6. Ayush block 7. Utility Block 1 & 2 8. Market Place 9. STP	We request you to kindly provide us the elevational & sectional drawings of the structures mentioned here.	Tender drawings are already provided. Addendum to tender drawings is enclosed at Annexure III.																						
112	Tender Drawings CONFIGURATION OF STRUCTURES	<table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Name of Structure</th> <th colspan="2">Configuration of Structure</th> </tr> <tr> <th>As per Master Plan</th> <th>As per Floor Drawings</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dharamshala</td> <td>G+4</td> <td>G+2</td> </tr> <tr> <td>2</td> <td>Auditorium</td> <td>G+2</td> <td>G+4</td> </tr> <tr> <td>3</td> <td>Nursing College</td> <td>G+3</td> <td>G+4</td> </tr> <tr> <td>4</td> <td>Hospital Block</td> <td>Not mentioned</td> <td>G+5</td> </tr> </tbody> </table>	Sl. No.	Name of Structure	Configuration of Structure		As per Master Plan	As per Floor Drawings	1	Dharamshala	G+4	G+2	2	Auditorium	G+2	G+4	3	Nursing College	G+3	G+4	4	Hospital Block	Not mentioned	G+5	Kindly confirm the configuration of the structures mentioned here.	As per tender drawings.
Sl. No.	Name of Structure	Configuration of Structure																								
		As per Master Plan	As per Floor Drawings																							
1	Dharamshala	G+4	G+2																							
2	Auditorium	G+2	G+4																							
3	Nursing College	G+3	G+4																							
4	Hospital Block	Not mentioned	G+5																							
113	BUILT UP AREA STATEMENT	Not provided.	We request you to kindly provide us the built up area statement.	As per tender drawings.																						
114	Clause 1.07, Page 2 (Page 3 of PDF), Technical Specifications CEMENT	Grade of cement used shall be OPC 43 Grade unless otherwise specified explicitly.	Kindly confirm if we can use PPC instead of OPC with fly ash for this project as the availability of OPC in the eastern part of the country is poor.	No change. As per tender conditions only.																						
115	Clause XV, Additional Specific Conditions of Contract relating to Environmental Clearance & "GRIHA Rating of Integrated Habitat Assessment (GRIHA Rating System)", SCC P-55 (Page 64 of PDF) CEMENT	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on August, 2003.	Kindly confirm if we can use PPC instead of OPC with fly ash for this project as the availability of OPC in the eastern part of the country is poor.	No change. As per tender conditions only.																						
116	Point No. 16, List of Approved Makes for Civil Works, Page 19 (Page 20 of PDF), Technical Specifications LIST OF APPROVED MAKES: WOODEN FIRE CHECK DOORS	Navair, Pacific	We request you to kindly incorporate Sukriti in the list of approved makes for this item.	No change. As per tender conditions only.																						
117	Point No. 19, List of Approved Makes for Civil Works, Page 19 (Page 20 of PDF), Technical Specifications LIST OF APPROVED MAKES: CERAMIC TILES	Kajaria, Somany, Naveen	We request you to kindly incorporate Johnson in the list of approved makes for this item.	No change. As per tender conditions only.																						
118	Point No. 33, List of Approved Makes for Civil Works, Page 20 (Page 21 of PDF), Technical Specifications LIST OF APPROVED MAKES: VITRIFIED TILES	Kajaria, Somany, Naveen	We request you to kindly incorporate Johnson in the list of approved makes for this item.	No change. As per tender conditions only.																						

119	Point No. 58, List of Approved Makes for Civil Works, Page 20 (Page 21 of PDF), Technical Specifications  LIST OF APPROVED MAKES: FIRE RATED GLASS	Saint Gobain, Pilkington, Schott	We request you to kindly incorporate AIS Glass and Modiguard in the list of approved makes for this item.	As per tender conditions only.
120	Item No. 3.14- 3.16, BOQ Page 10 to 12 (Page 11- 13 of PDF)  EXPANSION JOINT SYSTEM		We request you to provide the List of Approved Makes for Expansion Joint System.	work shall be carried out as per tender condition
121	Item No. 4.07, BOQ Page 15 (Page 16 of PDF)  TOILET CUBICLE	Providing & fixing Classique Invincible Toilet Cubicle of approved make of sizes as per drawing...	Kindly mention the size and height of the toilet cubicles.	work shall be carried out as per tender condition
122	Item No. 6.05, BOQ Page 30 (Page 31 of PDF)  STAINLESS STEEL RAILING	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc.....	Kindly provide us the drawing of the stainless steel railing system.	work shall be carried out as per CPWD specification / tender condition
123	Item No. 7.08, BOQ Page 32 (Page 33 of PDF)  P&F CERAMIC GLAZED WALL TILES	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer)	Kindly mention the size and thickness of the tiles.	work shall be carried out as per CPWD specification / tender condition
124	Item No. 7.09, BOQ Page 33 (Page 34 of PDF)  P&L RECTIFIED GLAZED CERAMIC FLOOR TILES	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer)...	Kindly mention the size and thickness of the tiles.	work shall be carried out as per CPWD specification / tender condition
125	Item No. 7.10, BOQ Page 33 (Page 34 of PDF)  P&L VITRIFIED FLOOR TILES	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer)... a) Size of Tile 600x600 mm	Kindly mention the thickness of the tiles.	work shall be carried out as per CPWD specification / tender condition
126	Item No. 7.11, BOQ Page 33 (Page 34 of PDF)  P&L VITRIFIED TILES	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer).... a) Size of Tile 600x600 mm	Kindly mention the thickness of the tiles.	work shall be carried out as per CPWD specification / tender condition
127	Item No. 7.12, BOQ Page 33 (Page 34 of PDF)  P&F ACID- ALKALI RESISTENT TILES	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding...	Kindly mention the size of the tiles.	work shall be carried out as per CPWD specification / tender condition
128	Item No. 7.16, BOQ Page 35 (Page 36 of PDF)  HDF LAMINATED WOODEN FLOORING	P/L 8mm thick (EN13329) HDF laminated wooden Flooring including skirting of approved brand and manufacture...	Kindly clarify if only floors shall be measured for payment purpose or both floors and skirting shall be measured.	area of floor and skirting shall be measured for payment
129	Item No. 7.21, BOQ Page 36 (Page 37 of PDF)  PVC VINYL FLOORING / SKIRTING	Providing & fixing 2 mm thick homogeneous jointless, scratch resistant, chemical resistant, anti fungal and anti bacterial class A clean room certified, Pthalate free PVC Vinyl flooring and skirting/ coving good for laboratories of approved quality...	Kindly clarify if only floors shall be measured for payment purpose or both floors and skirting shall be measured.	area of floor and skirting shall be measured for payment
130	Item No. 10.04, BOQ Page 59 (Page 60 of PDF)  SS CLAMPS FOR DRY STONE CLADDING	Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer...	Kindly mention the grade of stainless steel.	grade of stainless steel shall be 304

131	Item No. 10.18, BOQ Page 69 (Page 70 of PDF) RETRO REFLECTIVE OVERHEAD SIGNAGE BOARD	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet... Overhead informatory road signage	Kindly mention the size of the signage and height of the same from ground / floor / road level. Also please mention where the same shall be required.	work shall be carried out as per tender condition
132	Item No. 3.09, Page 7- 8 (Page 8- 9 of PDF), BOQ POST TENSIONED STEEL	Providing, cutting, fixing grouting high tensile steel reinforcement strands including all accessories complete in all respect 5-5 and 5-4 or as per design tendon units comprising 13 mm diameter, class 2 conforming to IS: 14268:1995 low relaxation strands with a tensile strength of 1860 N/mm2...The weight of strands provided shall be measured for payment.	Kindly provide us the following details: 1. Areas of application of post tensioning (block- wise & floor- wise) 2. Detailed drawing of post tensioning work 3. Block-wise quantity bifurcation of post- tensioned steel	Tender drawings are already provided. Addendum to tender drawings is enclosed at Annexure III.
133	Item No. 8.12.a, Page 50 (Page 51 of PDF), BOQ P&F POLYCARBONATE SHEETS	Providing and fixing 10mm thick clear multi wall solar control polycarbonate sheets of approved quality and shade in desired shape in roofing...For Dome Structure	The item description states that the area of application of polycarbonate sheet shall be in dome structure. We could find polycarbonate sheet roofing in Ayush Block only, which seems to be a pyramid shaped dome structure. Kindly confirm and provide us detailed drawing of the same.	work shall be carried out as per tender condition
134	Item No. 11.14, Page 79 (Page 80 of PDF), BOQ SUPPLYING & STACKING SLUDGE	Supplying and stacking sludge at site including royalty and carriage complete (sludge measured in stacks will be reduced by 8% for payment).	Since sludge and manure is not available in the market presently, we request you to kindly delete these two items and add item of vermi-compost.	no change. As per tender conditions only.
135	Item No. 11.15.a, Page 79 (Page 80 of PDF), BOQ SUPPLYING & STACKING MANURE	Supplying and stacking at site dump manure from approved source, including carriage complete (manure measured in stacks will be reduced by 8% for payment). Screened through sieve of I.S. designation 16 mm	Since sludge and manure is not available in the market presently, we request you to kindly delete these two items and add item of vermi-compost.	no change. As per tender conditions only.
136	Page 202- 273, BOQ ELECTRICAL BOQ	Item rates are not mentioned.	Kindly provide us the item rates.	The BOQ Volume V is reuploaded. Please refer to Amendment No.1
137	HVAC BOQ Serial No-A-Equipment-1.1-S HVAC-CHILLER	The IKW/TR < 0.65 (inclusive of all losses) at duty conditions	Please consider IKW/ TR < 0.68- 0.69 KW/ TR (including all losses)- since the condenser water temperature is higher & 6.3 COP chiller will deliver 0.68-0.69 KW/ TR at site conditions.	COP mentioned is min, higher COP machine may be provided. IkW/TR < 0.67 is acceptable.
138	HVAC BOQ Serial No-A-Equipment-1.1-f HVAC-CHILLER	1 No.- ASME stamped matching shell and tube flooded type chiller of M.S. shell and integrally finned copper tubes with marine boxes. Maximum head loss 5 m water head.	Please consider the pressure drop in evaporator side of 8m.	Evapotrator side 8 m pressure drop is acceptable.
139	HVAC BOQ Serial No-A-Equipment-1.1-u HVAC-CHILLER	u. Automatic tube cleaning system designed for automatic continuous cleaning of heat exchangers with injector, ball trap, drain valves, injection valves, manual ball valves, check valve, drain valve etc.	Quantity of ATCS is not mentioned. Kindly mention the same.	Each chiller will have separate ATCS mechanism . Only controller may be the same fpr 03 chillers.
140	Water Chiller Units, Sub Clause 1.1 HVAC-Chiller	Supply, Installation, Testing and Commissioning of water cooled centrifugal type Water chiller machines ( ARI Certified ) each having a capacity of 1000 TR (actual) at chilled water inlet/outlet temperature of 54°F /44°F with chilled water circulation rate of 2400 USGPM and condenser water inlet/outlet temperature of 91°F /101°F with circulation rate of 3000 USGPM , suitable for operation on refrigerant R134a each comprising of the following complete as per specification and as required.	Kindly note Trane don't have suitable Centrifugal Chillers to offer with R-134a refrigerant. However, Trane can offer R-514A & R-1233zd (E) chillers with a Global Warming Potential of less 2 to offer for your prestigious project. Kindly note that R-514A & R-1233zd (E) are also included in National Building Code 2016 released on 15th March, 2016 and also approved by CPWD via office memorandum number. DG/AMENDMENT SPECIFICATIONS (E&M)/01 DATED 10.10.2017. These refrigerants are also approved in multiple government projects like, World Trade Centre (10,800 TR), Nauroji Nagar (NBCC), Delhi; ITPO, Pragati Maidan (9475 TR), Delhi; 2400 Seater Auditorium (1900 TR), Kolkata; Dwarka Convention Centre (14,000 TR). Delhi. Request you to kindly incorporate R-514A & R-1233zd (E) in your project.	Acceptable subject to its cost effective availability in india by the manufacturer at the time of submission of data sheet. AHRI selection sheet with the proposed refrigerant shall also be made available as per tender conditions.

140	Water Chiller Units, Sub Clause 1.1 (f)	Maximum head loss 5 m water head.	The approved pressure drop requirements for centrifugal chilling units for both evaporator and condenser as per 2017 CPWD general specifications for heating, Ventilation and air-conditioning (HVAC) works 2017 is 10 mts. ( Reference - Page no. 36 , Head – 2.1.2 Design Parameters , Sub Head 2,1.2.1 Chilling Unit ). Accordingly, we would request you to kindly accept pressure drop upto 8 mt. as the allowable limit for evaporator also.	Pressure drop upto 8 m acceptable.
142	Technical Specification - HVAC page no-9 Serial No 1.1 (Centrifugal Compressors); 1.1.1. Type	Centrifugal compressor shall be open/ semi-sealed/ totally sealed type. It shall be working on refrigerant 134a.	Kindly note Trane don't have suitable Centrifugal Chillers to offer with R-134a refrigerant. However, Trane can offer R-514A & R-1233zd (E) chillers with a Global Warming Potential of less 2 to offer for your prestigious project. Kindly note that R-514A & R-1233zd (E) are also included in National Building Code 2016 released on 15th March, 2016 and also approved by CPWD via office memorandum number. DG/AMENDMENT SPECIFICATIONS (E&M)/01 DATED 10.10.2017. These refrigerants are also approved in multiple government projects like, World Trade Centre (10,800 TR), Nauroji Nagar (NBCC), Delhi; ITPO, Pragati Maidan (9475 TR), Delhi; 2400 Seater Auditorium (1900 TR), Kolkata; Dwarka Convention Centre (14,000 TR). Delhi. Request you to kindly incorporate R-514A & R-1233zd (E) in your project.	Acceptable subject to its cost effective availability in india by the manufacturer at the time of submission of data sheet. AHRI selection sheet with the proposed refrigerant shall also be made available as per tender conditions.
<b>Bidder No. 3</b>				
143	General	Tender Submission Date:	Please extend the submission date of tender at least 21 working days of current submission date	No change. As per tender conditions only
144	General	Autocad Drawings	We request you to kindly provide us the Autocad drawings.	Tender drawings in pdf format are already provided as Volume VI of the tender documents
145	General	BOQ	kindly provide us BOQ in excel format.	BOQ has already been provided in pdf Format as Volume V of the tender documents
146	General	Area Statement	Kindly provide us the building wise and floor wise area statement.	tender drawings are already provided as Volume VI.
147	General	Mobilization Advance	We request you to consider 10% <b>interest free</b> mobilization advance against Bank Guarantee in two equal installments.	No change. As per tender conditions only
148	General	Retention: Cash retention	We request to consider the retention money against Bank Guarantee to have smooth cash-flow at site.	No change. As per tender conditions only. Please refer to Clause 1 of the GCC.
149	General	DSR Rates in tender	We presume that DSR rates are including GST. Kindly confirm the same.	shall be as per tender conditions only.
150	General	Flyash	Kindly provide us percentage of flyash can be used at concrete.	shall be as per CPWD specifications and Tender Conditions.
151	General	Excavation	Request you to provide designated disposal yard for all surplus & non serviceable material within near proximity.	Contractor has to make his own arrangement. Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender/bids.
152	General	Hardware fittings of approved make	Kindly provide us series/Model number as per make for lock & bolt as there is large variation in price.	Shall be as per tender Conditions.

153	General Basic cost	FLOORING :Basic Rate for Tiles,Kota,Granite,Marble	We request to provide basic rate for All types of Granite, vitrified Tiles ,ceramic tile, kota stones, marble , colour glazed tiles etc as per the BOQ flooring items as according to colour , texture & sizes which we presume are not finalised yet , we request you to provide us the base rate for each of the aforesaid items to bring all the bidders in the same platform.	Work is to be carried out as per CPWD specifications and tender conditions.
154	General Layout Drawing	Layout Drawing	We request you to provide the layout drawing of the entire project for better understanding the project in a better way & also enable us to understand where the site office,batching plant,stores,godowns to be set.	Master Plan is already a part of Tender Drawing. Please also refer to Amendment No.1
155	General UPVC Windows & doors	UPVC Windows & doors	Request you to kindly provide the drawings since it is specialized work or request you to provide the sizes .	Work is to be carried out as per CPWD specifications and tender conditions.
156	General Soil Investigation report	Soil Investigation report	We request you to provide the soil investigation report along with the bore log data for better understanding of soil characteristics.	1. The soil Investigation report shall be made available to the successful bidder/Contractor after award of work. However, Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender/bids. Please also refer to Clause 1.17 of Volume I,
157	BOQ Use of Cement	NOTE- (1) Cement content considered in this item is @ 330 kg/cum.Excess/ less cement used as per design mix is payable/ recoverable separately. (2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement to be ensured in accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in the items of BMC and RMC.	We presume 330kg/cum is cementitious content including flyash. Kindly confirm.	As per BOQ 330 kg/cum is cement content and not cementitious content
158	BOQ Item No:5.55 Automatic Sliding Door	Providing and fixing automatic sliding door operator of approved brand and manufacture for a door of clear passage width ranging from 2500-3000 mm consisting of 6.25 mtr long operator with track profiles, glass clamping rails, floor guide, Radar eagle 6 sensors, 5 programme switch with knob, light barrier EM lock and cable for programme switch all complete of approved brand and quality, complete to the satisfaction of engineer in charge. nothing extra is payable if some civil work is required for fixing of the system.(Cost of door/ glass to be paid separately)	The Price of Doors varies according to the width. Hence , please provide us the exact size of the door to arrive at exact costing.	Work is to be carried out as per tender conditions.
159	BOQ Toilet Cubical	Providing & fixing Classique Invincible Toilet Cubicle of approved make of sizes as per drawing which includes 600 mm door size width made of heat, bacteria, water, chemical ,scratch, impact and anti bacterial resistant 12 mm thick solid compact laminate panels (tested by Shiram Test House or equivalent approved laboratory). Finish of the compact laminate should be Suede/*Raw Silk or as approved by the engineer in charge, which includes door, pilasters & intermediate panels finished with approved texture/shade as per the details drawings & as per IS 2046 (Indian Standard ) and as per fire retardant BS-476/97 Standard.	Kindly provide the drawings for toilet cubicles.	Work is to be carried out as per tender conditions.



160	BOQ Polycarbonate Sheet	Providing and fixing 10mm thick clear multi wall solar control polycarbonate sheets of approved quality and shade in desired shape in roofing including the cost of EPDM gaskets , sealing tape , aluminium profile and all necessary accessories complete as per architectural drawings and as directed by Engineer incharge. The item includes designing the complete system and supplying & getting approved from client and / or reputed engineering institute like IIT etc. The detailed shop drawings including supplying structural design calculations based on relevent codal provisions and carrying out water penetration test as per standards followed in India.	We request you to provide the drawing for the same to asses the radius of curvature which will help us to arrive at exact costing.	Work is to be carried out as per tender conditions.
161	FLOORING- BOQ 7.01	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.	Kindly specify whether groove cutting and sealent filling is required or not.	work shall be carried out as per CPWD specification and tender condition
162	Technical specification- Approved Make list Ordinary Portland Cement 43 Grade	ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K.Cement	Kindly add "Penna, Ramco," cement also in the list	No change. Shall be as per tender Conditions.
163	Technical specification- Approved Make list Reinforcement Steel	SAIL, RINL, TISCO	Kindly add "JSW, also in the list	No change. Shall be as per tender Conditions.
164	Technical specification- Approved Make list Structural Steel Sections:Beams, Channels, Tees, Flats, Angles Bars (Round, Square, Hexagonal).	TATA, SAIL, RINL	Kindly add VSP	No change. Shall be as per tender Conditions.
165	Technical specification- Approved Make list Ceramic Tiles /Glazed Tiles	Kajaria, Somany, Naveen	Kindly add RAK	No change. Shall be as per tender Conditions.
166	Technical specification- Approved Make list RMC	ACC, Ultratech, L&T, Lafarge	Kindly add IJM,ACC	No change. Shall be as per tender Conditions.
167	Technical specification- Approved Make list Shuttering Ply	Greenply, Kitply, Merino, Duro, Century	Kindly add Punjab Ply Industries, Black Cobra brand	No change. Shall be as per tender Conditions.
168	Technical specification- Approved Make list Flush door shutters	Greenply, Duro, Kitply, Century	Kindly add "Black Cobra / Kitply "	No change. Shall be as per tender Conditions.
169	Technical specification- Approved Make list Laminate	Greenlam, Merino, Formica, Kitply, Century	Kindly add Associate, virgo	No change. Shall be as per tender Conditions.
170	Technical specification- Approved Make list Float Glass	Saint Gobain, Asahi, Pilkington, Glaverbel, Modi Guard	Kindly add Hindustan National Glass (HNG)	No change. Shall be as per tender Conditions.

171	Technical specification- Approved Make list Metal ceiling/Grid Ceiling	Armstrong, Durlum, Saint Gobain	Kindly add <b>New Age</b>	No change. Shall be as per tender Conditions.
172	Technical specification- Approved Make list Aluminium	Hindalco, Jindal, Indal	Kindly add <b>Bhuruka</b>	No change. Shall be as per tender Conditions.
173	Technical specification- Approved Make list Epoxy flooring	Fosroc, BASF, STP, Sika, Dr Beck	Kindly add <b>Cipy polyurethane</b>	No change. Shall be as per tender Conditions.
174	Technical specification- Approved Make list PU Paint	Fosroc, Pidilite, Cico, BASF, Sika, Berger, Nerolac	Kindly add <b>Asian paints</b>	No change. Shall be as per tender Conditions.
175	Technical specification- Approved Make list Diesel generator		Kindly add "Powerica LTD as supplier"	No change. Shall be as per tender Conditions.
176	Technical specification- Approved Make list Bus ducts / Raising mains	L & T , ABB , Siemens, Schnedier, GE, Legrand	Kindly add "c & s"	No change. Shall be as per tender Conditions.
177	Technical specification- Approved Make list 11KV VCB panel Board / RMU	Siemens, L & T , ABB , Schneider	Kindly consider "Local Panel Builders"	No change. Shall be as per tender Conditions.
178	Technical specification- Approved Make list Transformer	ABB, GE, Schneider, Alstom	Kindly add "Kirkoskar"	No change. Shall be as per tender Conditions.
179	Technical specification- Approved Make list Main LT Panel / APFC Panels / Main AC panels	Siemens, L & T , ABB , Schneider	Kindly consider "Local Panel Builders"	No change. Shall be as per tender Conditions.
180	Technical specification- Approved Make list PVC conduit	Supreme, Prince, Finolex, AKG	Kindly add " Nelco, VIP "	No change. Shall be as per tender Conditions.
181	Technical specification- Approved Make list Fire detection System - Adresseable	Honeywell-Notifier, Edward, Bosch, Siemens	Kindly add " Ravel, Secutron "	No change. Shall be as per tender Conditions.
182	Technical specification- Approved Make list GI / MS pipes Heavy class	Jindal-Hissar, Tata, Surya-Prakash	Kindly add " Jindal-Star "	No change. Shall be as per tender Conditions.
183	Technical specification- Approved Make list HVAC Sub-contractors	Voltas, Bluestar, Suvudha, Unique Engineers, ETA, Sterling & Wilson	Kindly add " M/s VKBS "	No change. Shall be as per tender Conditions.

184	Technical specification- Approved Make list Power Cables / Control cables	Honeywell-Notifier, Edward, Bosch, Siemens	Kindly consider as per Electrical approved make list"	No change. Shall be as per tender Conditions.
185	Technical specification- Approved Make list Butterfly valve	Audco, L & T, Honeywell	Kindly add " Zoloto "	No change. Shall be as per tender Conditions.
186	SPECIFIC CONDITIONS OF CONTRACT (SCC) CL No:31.4 (Pg. No 26) Delay in starting the work	No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land, encroachment or in the case of clearance of works, on account of any delay in according sanction to estimates in issue of drawings, decisions etc. However, the extension of time shall be granted as per relevant conditions of Contract.	1.We presume that all clearance that will be required to commence the work has already been taken by the client.Please confirm. 2.We request you to kindly provide us the encroachment free working site prior to start up the work. We also request you to pay idle charge if any delay occurs on account of handing over of site or issuance of drawing as per actual.	No change. Shall be as per tender conditions only
187	SPECIFIC CONDITIONS OF CONTRACT (SCC) CL No:31.8 (Pg. No 27) Cutting of Trees	Permission of cutting of trees if required will be obtained by Contractor.	Cutting of trees is related to the environment issues and hence any permission fo the same may please be taken by HSCC. Please confirm.	No change. Shall be as per tender conditions only
188	SPECIFIC CONDITIONS OF CONTRACT (SCC) CL No:31.10iv (Pg. No 28) Water & Power	The temporary connection for electric line and water line from local authorities shall be taken by the contractor who will bear the expenditures	1. We presume bore wells are allowed within the site premises without any extra charge. Please confirm. 2. We request you to provide Power for construction & area lighting at a single point at free of cost. Further distribution shall be borne by us.	No change. Shall be as per tender conditions only
189	SPECIFIC CONDITIONS OF CONTRACT (SCC) CL No:32.3 (Pg. No:31) Contractor's Temporary Structures	The Contractor shall make his own arrangement at his own expense for labour camp / accommodation of his labour and staff and their conveyance to Site as no workers/ staff shall unless with the specific approval of the Engineer be allowed to stay within the Site. Gate passes shall be issued by the Engineer to authorize the Contractor's staff and workers to enter the Site.	We request you to provide us the land for labour hutment within the site premises at free of cost.	No change. Shall be as per tender Conditions. Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender/bids. Please also refer to CLause 1.17 of Volume I,
190	SPECIFIC CONDITIONS OF CONTRACT (SCC) CL No:32.6 (Pg. No:31) Site office and Infrastructure	A reasonably furnished site office and transit accommodation having a sample room, A.C. meeting room, A.C. staff rooms with file storage facility along with computers & printers and its consumables, a telephone with STD facility, Fax Machine, internet and toilets & pantry and a vehicle (Swift Dzire or equivalent) complete with driver, fuel and consumables shall be provided for Executing agency/HSCC by the Contractor at his own cost for the duration of the Contract.	We request you to provide us the detailed lay out of the site office along with the details ( quantification )of the facilities to be provided by Contractor.	Area of site office shall be approx 300sqm. All other details shall be as per tender conditions.
191	NOTICE INVITING BIDS (Pg. No9 Cl No:1.3) Completion period of work (months)	18 Calendar Months for all buildings of the Academic Campus, including completion of all services (within the scope of this tender) required for making these buildings operational 22 Calendar Months for all other buildings and works	Considering the scope of work and its integrity and complexity , the stipulated duration of the project is very Stringent and is practically not feasible. Hence request you to amend the project duration to 24 Months.	No change. Shall be as per tender conditions only
192	SPECIFIC CONDITIONS OF CONTRACT (SCC) CL No:20 (Pg. No:17) Variations	The contractor shall make no such variations without an order in writing by the Executing Agency, provided that no order in writing shall be required for increase up to 30% or decrease in the quantity of any work where such increase or decrease is not the result of an order given under this Clause, but is the result of the quantities exceeding or being less than those stated in the schedule of items.	1.We presume that the "deviation limit", as provided in "Schedule-F" shall mean "Positive or Negative" variation limit.Please confirm. 2.We request you to keep the variation limit within(+/-) 10% instead of (+/-) 30%.	No change. Shall be as per tender conditions only

193	Schedule F (Pg. No 109) CL No 2(ix) Mile Stone		Completion of project shall be as per schedule time, however milestone shall be only for monitoring purpose, Request you to waive off Amount to be withheld in case of non - achievement of milestone.	No change. Shall be as per tender conditions only
194	GCC Cl No:2( Pg. No 14) COMPENSATION FOR DELAY	Compensation for delay of work @ 1.5 % of tendered value per month of delay to be computed on per day basis Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the Tendered Value of work or of the Tendered Value of the item or group of items of work for which a separate period of completion is originally given.	We request you to amend the LD Clause as 0.5% of balance job value per month & the total LD to be restricted 5% of the balance job value.	No change. Shall be as per tender conditions only
195	GCC Cl No:7( Pg. No 14) Schedule F Pg. no 110 PAYMENT ON INTERMEDIATE CERTIFICATE TO BE REGARDED AS ADVANCES	1.In case of delay in payment of intermediate bills after 45 days of submission of bill by the contractor provided the bill submitted by the contractor found to be in order, a simple interest @ 7.5% per annum shall be paid to the contractor from the date of expiry of prescribed time limit which will be compounded on yearly basis. 2.10 crore	1. Considering the importance of the fast track project , cash flow will play an important role for successful completion of the project within the time schedule. Hence request you to consider the following PAYMENT TERMS to ease the cash flow. . a. 75% of the Invoice Amount to be release within 7 days of submission of the amount. b. Balance 25% to be released after 21 days of submission of the Bill. 2. We also request you to kindly waive of the minimum amount of submission for first two RA Bills & last two RA bills, to ease of cash flow of the project.	No change. Shall be as per tender conditions only
196	SECTION-III NIT & IFB CL NO 4iii SCOPE OF WORK	Getting all approvals / permissions / planning permits of the statutory / local / governmental agencies as required incidental to construction/ completion.	The Contractor shall be responsible for permission related to the work under scope of this contract , such as Labour License , etc. However , all approvals related to operational activities along with sanction of project from Govt. Bodies shall be in the scope of the Owner / HSCC. Please confirm.	No change. Shall be as per tender conditions only
197	General Electrical	Electrical	Kindly request you to provide • Main schematic diagram required • External Lighting and routing drawing required • Electrical setting out plan required	Shall be provided to successful bidder after award of work.
198	General HVAC	HVAC	Kindly request you to provide • Plant room drawing required • Chilled water line raiser drawing required • HVAC setting out plan required • Section detail drawing for all equipment's, chilled water lines and ducts required.	Preparation of shop drawing are in the scope of bidders.
199	General Fire Fighting	Fire Fighting	Kindly request you to provide • Fire fighting setting out plan required • Pump room detail drawing required	Preparation of shop drawing are in the scope of bidders.
200	Drawings HVAC	HVAC Schmatic & Layout drawings are not available in tender documents	We request you to kindly provide HVAC Schmatic & Layout drawings for our reference and better understanding of the system.	Shall be provided to successful bidder after award of work.
201	Electrical SLD HVAC	Electrical SLD for HVAC package is not available in tender	Kindly provide Electrical SLD for HVAC package for our reference and better understanding of the system.	Shall be provided to successful bidder after award of work.

202	HVAC BOQ - 2.1, 2.2, 2.3 & 2.4	Supply, installation, testing and commissioning of split casing/vertical inline type centrifugal chilled water	We assume that split casing centrifugal pump in this line item means end suction back pull out pumps	<b>Clarification/Amendment:-</b> <b>Condenser water pump:</b> End suction backpullout. <b>Primary chilled water pump:</b> End Suction back pull out. <b>Secondary chilled water pump:</b> Inline pump. <b>Tertiary chilled water pump:</b> Inline pump .
203	HVAC BOQ - 2.2	Separate control panel with separate VFD for each set of pumps	We assume that set of pumps refers to pumps for each zone i.e. Combined control panel for all secondary pumps of a single zone is acceptable	Shall be as per tender. Each set of pumps of secondary pumps of different zones will have separate control panel.
204	HVAC BOQ - 2.3	Separate control panel with separate VFD for each set of pumps	We assume that set of pumps refers to pumps for each zone i.e. Combined control panel for all tertiary pumps of a single zone is acceptable	Shall be as per tender. Each set of pumps of tertiary pumps of different zones will have separate control panel.
205	HVAC BOQ - 2.4	Condenser pump with cladded insulation	Insulation and cladding is not required for condenser water pumps	Not required.
206	HVAC BOQ - 3	Induced Draft Cooling Tower	Please specify whether counterflow or crossflow cooling towers are to be considered	No change. Shall be as per tender Conditions.
207	HVAC BOQ - 5.2	Supply, installation, testing and commissioning of sheet metal sectionalised construction draw thru type in double skin construction. Each Air Handling Units shall be with pre filter section with prefilters, mixing chamber, minimum 2 bend PVC eliminators, chilled water cooling coil, hot water coil (AHRI/ Eurovent) certified of copper tube & Al fins construction, squirrel cage induction motor with VFD starters( IP 54) mounted on AHU for supply and return air fans, motor efficiency class IE-3	We assume that OT AHUs are 2 tier AHUs with forced exhaust system & without heat recovery wheel. Please provide return air CFM for these units	Supply and return fan of same capacity with VFD starter.
208	HVAC BOQ - 5.6	TFA - Unit mounted Electrical Control Panel in IP 55, weather proof design with incomer disconnect switch/MCCB, VFD for supply air fan, exhaust air fan & wheel motor and complete in all respects including safeties, interlocks, metering & indication, fully BMS compatible and as approved.	We request you to please accept separate electrical panel for these TFA units, instead of unit mounted panels	No change. Shall be as per tender Conditions.
209	HVAC - BOQ	Cooling Tower/ Secondary & Tertiary Pumps / AHU - Shall be with IP 55 panel with VFD	We assume that since panels shall be with IP 55 rating, VFDs with IP 20 protection class will be acceptable, as the VFD shall be installed within IP55 panel	Cooling tower and pump VFD shall be IP-55. AHU VFD IP-54.
210	HVAC BOQ - 15.1, 15.4, 17.1, 17.4	Butterfly valves with SS Disc	As per industry standard, we request you to please accept butterfly valves & NRV with CI body & SG Iron disc / CI disc	No change. Shall be as per tender Conditions.
211	HVAC BOQ - 17.3	Balancing Valve with built in measuring facility	We assume this refers to manual Balancing Valve.	Manual balancing valve.
212	HVAC BOQ - 20	Fire Dampers to be UL listed, Where as the same has been specified in tender to be approve by CBRI roorkee, as per UL555	We assume that fire dampers with CBRI certification as per UL555 shall be acceptable.	YES.
213	HVAC - Tender - 2.4	Panel thickness shall be 25mm for indoor AHU & 40mm for outdoor AHU	Since AHU location ( Indoor / Outdoor ) is not specified in BOQ, request you to confirm the same.	Shall be as per tender conditions.
214	HVAC - Tender - 2.4	AHU outer skin shall be precoated 0.8mm thick CRC sheet, chemically treated having scratch free pre plasticized coating and 0.8mm GI inner Skin	As per industry standard we request you to please accept precoated 0.8mm GI outerskin & 0.8mm plan GI inner skin	Shall be as per tender conditions.
215	HVAC - Tender - 2.4	Drain pan shall be constructed out of 1.25mm thick SS304 sheet insulated with 15mm thick PUF	As per industry standard we request you to please accept 20G SS304 drain pan with 13mm thick Nitrile Rubber Insulation	Shall be as per tender conditions.
216	HVAC - Tender - 11	Expansion tanks - 5000 ltrs and 3000ltrs capacity	Please specify as to what capacity is to be considered for expansion tank and for hot water tank respectively	Shall be as per Tender. Chilled water 5000 lts. Hot water 3000 lts.
217	HVAC - Tender - 2.7 AHU - Fresh air controls - Page 27 of 96	AHU - An adjustable motorized damper of aluminium sheet along with birdscreen air inlet louver shall be provided for fresh air entry	In BOQ same has been specified with manual volume control damper ( item 22.4 ). Please confirm whether motorized damper or manual volume control damper is to be considered	Shall be as per tender conditions.
218	HVAC - Tender - 3.3 Accessories - Page 29 of 96	AHU - Balancing valve at coil outlet	Since PICV has been considered as per BOQ for AHUs, same is not required. Please confirm	Shall be as per BOQ. Balancing valves are priced separately.

219	HVAC - Tender - 3 - Page 28 of 96	Panel thickness for CSUs has not been specified	Kindly confirm if CSU panel thick also to be taken as 25mm with 0.8mm GI pre-coated outer skin & 0.8mm GI inner skin ( same as AHU )	Same as AHU.
220	HVAC - Tender Specification - 3 CSU - Page 29 of 96	CSU - Each unitary unit shall be provided with a heating / Cooling snap acting thermostat and a 3 way solenoid valve	As per BOQ CSU is specified with PICV, where as tender specification 3 way valve has been mention. Seeing as that this system is with variable pumping system we have considered PICV. Please confirm	Shall be as per BOQ.
221	HVAC - Tender Specification - PAC 1.4 - Page 37 of 96	Fans shall be DIDW forward curved	As per manufacturer standard the same shall be plug type with ECM	Shall be as per BOQ.
222	HVAC - Tender Specification - FCU 2.4 - Page 43 of 96	Drain pan shall be constructed out of 1mm thick SS sheet insulated with 25mm thick EPS	As per industry standard we request you to please accept FCU drain pan with 13mm PUF	PUF is acceptable but with same thickness.
223	HVAC - Tender Specification - Kitchen Scrubber 2.1 - Page 63 of 96	As per tender specification the kitchen scrubber shall be 16G GI sheet metal fan section, mixing box and SS304 made spray	BOQ calls for double skin construction for scrubber. Please confirm the body construction of scrubber.	Shall be as per BOQ.
224	Tender Specification - Axial flow fan 3.f - Page 58 of 96 HVAC	Axial & Centrifugal ventilation Fans - The speed of fan shall not exceed 960 RPM with impeller dia above 1000mm & 1440RPM for impeller dia less than 1000mm	We request you to please accept fan speed up to 1440RPM for all fan sizes	Shall be as per tender conditions.
225	Tender Specification - AHU 2.1 - Page 25 of 96 HVAC	AHU Fan section - Fan shall be selected for speed not exceeding 1000 RPM for fan dia more than 350mm		Shall be as per tender conditions.
226	Tender Specification - Duct Works 2.2 - Page 68 of 96 HVAC	Ducting construction has been specified with MS Flanges	We request you to please accept ducting with TDF flanges ( as per SMACNA standards )	Shall be as per tender conditions.
227	List of Approved Makes HVAC	Centrifugal Chiller Make	We request you to please accept "Voltas - Dunhambush" make centrifugal chiller Few of our installation of DB Centrifugal chiller with VFD in Public sector application are as follows. 1. Lucknow Highourt 2. RBI Mysore 3. Bangalore International Airport 4. District Court, Delhi 5. Kolkara Airport 6. IIT Rpar	Shall be as per tender conditions.
228	List of Approved Makes HVAC	VAV make of Trane / Trox / JCI / Caryaire / Belimo	Please approve Dynacraft make VAV with belimo actuators, since Belimo doesn't manufacture VAV	Shall be as per tender conditions.
229	List of Approved Makes HVAC	Main LT Panel : L&T / SIEMENS / ABB / SCHNEIDER	We request you to approve CPRI approved vendor for electrical panel supply, for ease of coordination and faster deliveries	Shall be as per tender conditions.
230		AHU Panel : Tricolite / Adlec / C&S / Jackson / Milestone		Shall be as per tender conditions.
231	List of Approved Makes HVAC	Heat Recovery unit with Wheel : Flaktwood / Novelaire / DRI / Greenheck / Bryair	We request you to please accept the same with Heat Recovery units of approved AHU vendor with HRW of Flaktwood / Novelaire / DRI / Greenheck / Bryair as specified in list of makes	Shall be as per tender conditions.
232	List of Approved Makes HVAC	Butterfly Valves : AUDCO / L&T / Honeywell	We request you to please accept Advance make butterfly valves	Shall be as per tender conditions.
233	List of Approved Makes HVAC	Ducting : Ductofab / Rolastar / Technofab	We request you to please accept VJ AIR PRODUCTS / DLN ENGINEERING / VISAKHA DUCT PROFILES for ducting makes, for better coordination and faster delivery of ducting. TATA / SAIL / JINDAL make GI sheet will only be used as per list of makes	Shall be as per tender conditions.
234	List of Approved Makes HVAC	Cables : CCI / Universal / Finolex / Rallison	We request you to please accept KEC / KEI / POLYCAB makes also for cabling	Shall be as per tender conditions.

235	List of Approved Makes HVAC	Cable Trays : OBO / LEGRAND / COOPER / BEC	We request you to please accept PROFAB / PUSHPAK / PATNY makes also for cable trays	Shall be as per tender conditions.
<b>Bidder No. 4</b>				
236	General	Order of Precedence of document---	Kindly furnish the Order of Precedence of Tender document for a fair under	Shall be as per tender conditions.
237	VOLUME – I NIT, Cl. No 1.5, Page No. 13	The time allowed for carrying out the work will be 22 Calendar Months (Twenty Two Months) 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/milestones, indicated in the tender documents	During site visit, we found that cultivation and gardening work is being done by local people on most of the land acquired for construction of AIIMS. We presume that encumbrance free and encroachment free site will be handed over to the contractor for taking up the construction. Your confirmation is solicited.	Shall be as per tender conditions.
238	VOLUME – I, NIT, Cl. No 2.3.7, Page No. 24	Contents of Financial Package: These percentage rate/prices should include all costs associated with the Project including any out of pocket / mobilization expenses, taxes, charges, levies, cess, VAT, GST, Service Tax excluding PF & ESI etc. as per GCC applicable till the date of NIT	We understand that ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the HSCC (Executing Agency). Your confirmation is solicited.	Shall be as per tender conditions.
239	VOLUME – II, GCC, Cl. 31 A ,Page 62	Departmental Water Supply if available: Water if available may be supplied to the contractor by the department subject to the following conditions:- (i) The water charges @ 1 % shall be recovered on gross amount of the work done	Kindly confirm whether contractor has liberty to dig bore well inside the premises and make his own arrangement for water since water charges recovered by department @ 1% of gross amount of the work done is very high.	Shall be as per tender conditions.
240	Volume-III, SCC, Cl-10 (ii) Page No-28	All shuttering material to be used at site will be new/just like new and only ply & steel plate will be allowed to be used as directed by Engineer-in-charge/Consultant.	Your good self will appreciate that Steel shuttering and scaffolding are the assets of the companies and are not purchased for individual projects. These assets are used in many projects keeping them in good condition to achieve permissible numbers of repetitions. We understand that New Ply wood with Steel Shuttering and scaffolding in good conditions shall be permitted.	Shall be as per tender conditions.
241	Volume-III, SCC, Cl-10 (ii) Page No-28	All shuttering material to be used at site will be <b>new/just like new</b> and only ply & steel plate will be allowed to be used as directed by Engineer-in-charge/Consultant.	Your good self will appreciate that Steel shuttering and scaffolding are the assets of the companies and are not purchased for individual projects. These assets are used in many projects keeping them in good condition to achieve permissible numbers of repetitions. We understand that New Ply wood with Steel Shuttering and scaffolding in good conditions shall be permitted.	Shall be as per tender conditions.
242	Vol. III, SCC, Cl. 32.3,Page 30	Contractor's Temporary Structures : The Contractor may, at his own expense and subject to the approval of the Engineer and statutory authorities, construct offices, stores, Workshop in the area allocated to him and remove the same as per the orders of the Engineer on completion of Works-----	We understand that space for Contractor's temporary Structures shall be provided within site premises without any additional cost to the contractor.	Shall be as per tender conditions
243	Vol. III, SCC, Cl. 32.5,Page 31	<b>Water Supply &amp; Power Supply:</b> The Contractor shall make his own arrangement for water supply at Site for drinking as well as construction purposes at his own cost. The Contractor shall also make his own arrangements for power supply at Site for ----	Kindly clarify whether contractor can dig bore well at site to meet the requirement of Construction Water.	Shall be as per tender conditions
244	Vol. III, SCC, Cl. 32.6,Page 32	<b>Site office and Infrastructure:</b> A reasonably furnished site office and transit accommodation having a sample room, A.C. staff rooms with file storage facility along with computers & printers and its consumables, a telephone with STD facility, Fax Machine, internet and toilets & pantry and-----	We could not find the built up area and specification of Site office and other facilities to be provided to the client. We request you to kindly provide the said details to build up the cost in bid.	Area of site office shall be approx 300sqm. All other details shall be as per tender conditions.
245	Vol. III, SCC, Cl-32.7, Pg.32	<b>Temporary Fencing:</b> The Contractor shall at his own expense, erect and maintain in good Condition temporary fences all around the working premises as per approved specifications by Engineer. ---- shall be the property of the contractor	During our site visit, we found that site is surrounded by compound wall. Kindly confirm if any fencing is required at site. If required, kindly provide the drawing/detail of the fencing.	Shall be as per tender conditions

246	BOQ, Page No. 2, Item No 1.09	Supplying and stacking of good earth at site including royalty and carriage up to 1 Km (earth measured in stacks will be reduced by 20% for payment).	Item for supply of good earth from a source within 1 Km of location of supply /site has been given. We understand that client has identified the source which is within 1 KM. Your confirmation is solicited. Kindly also mention the mode of payment in case of source exceeding 1 KM.	Please refer to Amendment No.1
247	BOQ, Page No. 7, Item No 3.09	Providing, cutting, fixing grouting high tensile steel reinforcement strands including all accessories complete in all...bursting reinforcement, pressure plates, any additional bars around anchorages-- --	Kindly provide detail drawing of PT. Also clarify whether bursting reinforcement and additional bars around anchorages shall be payable separately.	as per tender conditions
248	BOQ, Page No. 28, Item No 5.47	Providing and fixing automatic sliding door operator .....(Cost of door/glass to be paid separately)	Kindly let us know the Item No. of BOQ under which glass of the door shall be paid.	Please refer to Amendment No.1
249	BOQ, Page No. 73, Item No 10.34	Providing & Fixing Wall Mounted Nonlit directory sign 305x122 cm of approved make & made of 10mm Acrylic with the required text matters stuck on it with plotted self adhesive vinyl & Mounted.. Qty-540 Nos	We request you to kindly verify the quantity which seems in higher side.	as per tender conditions
250	BOQ, Page No. 57, Item No 11.03 (PHE)	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth up to 1.5 metre)	This is a DSR item and DSR rate is Rs. 127/Metre, but here rate has been furnished as Rs.1.27/Metre This is a percentage rate tender therefore contractor will get payment as per percentage quoted above/below estimate only and lose badly against execution of this item. We request you to rectify the rate.	The rate under BOQ. Item no. 11.03 will be paid 127% over the respect BOQ item no.11.02 for depth up to 1.5 m as per CPWD
251	BOQ, Page No. 57, Item No 11.04 (PHE)	Extra for excavating trenches for pipes, cables, etc. in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)	This is a DSR item and DSR rate is Rs. 315/Metre but here rate has been furnished as Rs.3.15/Metre.This is a percentage rate tender therefore contractor will get payment as per percentage quoted above/below estimate only and lose badly against execution of this item. We request you to rectify the rate.	The rate under BOQ. Item no. 11.04 will be paid 315% over the respect BOQ item no.11.02 for depth up to 1.5 m as per CPWD
252	BOQ-E 1_R0- Item No 1 to 21.13	ELECTRICAL WORKS	Item rates & amount are missing in the BOQ. However, total value of this sub-head is available in the Summary Sheet. Kindly let us know the mode of payment of individual items when executed.	Corrected BOQ file with item rates is uploaded. Please refer to Amendment no.1.
253	DRAWINGS	Built up area	Please provide us building wise Built up area to plan the resources & their succeeding cost.	tender drawings are already provided as Volume VI.
254	DRAWINGS	Hospital Building	Elevation drawing of Hospital Building is not available in the drawing folder. Kindly provide the elevation drawing for fair idea of the scope.	tender drawings are already provided as Volume VI.
255	List of Approved makes for Electrical system		Makes for i) Music Bell with batteries Makes for i) Music Bell with batteries ii) Exhaust Fans & Wall Mounted Fans iii) Fire Alarm System Items iv) Digital Projector are not available. Please Provide.	Shall be as per approved make list and tender conditions.
256	List of Approved makes for Electrical system		For Light Fixtures, Philips / GE / Crompton Greaves are mentioned as approved makes, but presently GE is no longer producing Light Fixtures. Kindly extend the list of makes	Shall be as per tender conditions.
257	List of Approved makes for Electrical system		Mismatching in Approved Makes between Make list and BOQ has been noticed for few items. Kindly confirm whether both shall be considered or not?	BOQ prevail



258	Notice Inviting bids Cl. No. 1.3 , Table 1 :	Completion period of works	As per tender documents, all buildings of academic campus need to be completed & made operational by 18 months from the start date. Please confirm the start date of DLP for these academic buildings. Also mention the buildings being covered under academic buildings.	18 Calendar Months for all buildings of the Academic Campus, i.e., Medical College, Nursing College, Admin Block, Library, including completion of all services (within the scope of this tender) required for making these buildings operational  22 Calendar Months for all other buildings and works
259	Tender Drawings		Dimensional details for Auditorium Block are not available. Please provide.	Refer tender-Architectural/Structural Drawings.
260	BOQ Sl. No. 14 for lifts	Quantity of Lifts	As per BOQ, total quantity of different types of lift is 51 Nos. but as per tender drawings, above number is either 50 or 48. Tender Drawing Part-1 indicates quantities of lifts for Medical College Block-1 as 2 numbers whereas as per Tender Drawing Part-9, the same is 4 numbers. Please confirm the total quantities of lifts.	as per architectural drawing
261	Tender Drawings		Electrical SLD is not available. Please provide.	shall we provided to successful bidder after award of work.
262	Tender Drawings		Service drawing for Hospital Block is not legible. Please provide readable copy.	Please refer to Amendment No.1
<b>Bidder No. 5</b>				
263	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units . Maximum head loss 5 mt. water head for evaporator	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	The approved pressure drop requirements for centrifugal chilling units for both evaporator and condenser as per 2017 CPWD general specifications for heating, Ventilation and air-conditioning (HVAC) works 2017 is 10 mts. ( Reference - Page no. 36 , Head – 2.1.2 Design Parameters , Sub Head 2,1.2.1 Chilling Unit ). Accordingly, we would request you to kindly accept pressure drop upto 8 mt. as the allowable limit for evaporator also.	Evaporator side 8 m pressure drop is acceptable.
264	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units . Minimum COP requirement of 6.3	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	We would like to mention that the COP requirement for the other 2 projects i.e AIIMS Nagpur and AIIMS Guntur with same chiller capacity of 1000 TR is 6.50. Hence we would also request you to consider the COP requirement of 6.50 for this project .	COP mentioned is min, higher COP machine may be provided.
265	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units BOQ (1.1s) . BOQ (1.1s); IKW/ TR < 0.65 ( including all losses)	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	IKW/ TR < 0.68- 0.69 KW/ TR ( including all losses) - Since the condenser water temperature is higher, 6.3 COP chiller will deliver 0.68-0.69 KW/ TR at site conditions	COP mentioned is min, higher COP machine may be provided. IkW/TR < 0.67 is acceptable.
266	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units BOQ (1.1 f) . BOQ (1.1 f)- Pressure drop in evaporator shall be 5m	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	The pressure drop in evaporator side shall be 8m	8 m pressure drop in both Evaporator and Condenser is acceptable.
267	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units BOQ (1.1 u )BOQ (1.1 u)- Automatic Tube cleaning system	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	Quantity of ATCS is not mentioned	Each chiller will have separate ACTS mechanism . Only controller may be the same for 03 chillers.

268	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units	1.0 Water chilling units	The AHRI Certified performance sheet shall include losses of Active harmonic filters	Shall be as per tender conditions
269	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units	1.0 Water chilling units	For surge free design, chiller shall unload upto 20% at constant condenser entering water temperature of 91 Deg F without any inefficient means like hot gas bypass	Shall be as per tender conditions
270	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units . NPLV at tender conditions less than 0.38	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	Since the condenser water temperature is higher, NPLV should be < 0.39	NPLV < 0.39 acceptable.
271	HVAC Specification AC Page No.58 Clause 3.0, Point (a). Impeller shall be of die cast aluminum alloy with integrally cast aerofoil sectioned blades and hub.	Axial Flow Fan	Blades shall be Cast /fabricated aluminum aerofoil shaped	Shall be as per tender conditions
272	HVAC Specification AC Page No.58 Clause 3.0, Point e. and HVAC Specification Page No.60 Clause 6.0 . Fan motor shall be selected in such a way that sound level is lowest ( max. 75 db at 3 m distance) while running.	Axial Flow Fan	We request you to clarify whether the noise level will be measured in room condition (Hemispherical reverberant room condition) or in free field condition (Spherical).	Shall be as per BOQ.
273	HVAC Specification AC Page No.58 Clause 3.0, Point (e). Motor shall be capable of running continuously with 5% drop in rated phase voltage at 15% increase in design power.	Axial Flow Fan	± 5% Voltage fluctuation	Shall be as per tender conditions
274	HVAC Specification AC Page No.58 Clause 3.0, Point (f). The speed if the fans shall not exceed 960rpm for fans with impeller dia above 1000mm and 1440rpm for fans with impeller dia 1000mm and less.	Axial Flow Fan	Fan Capacity (CFM)/ Static Pressure/ noise level/Efficiency/running Kw are most important parametrs for fans selection and same shall be adhered to while selecting a fan. We request you to limit the maximum RPM of fan to 2900 RPM.	Shall be as per tender conditions
275	HVAC Fans and accessories shall be painted with two coats of redoxide primer zinc chrome primer confirming to IS: 2074 or superior, over which two cots of synthetic enamel of approved shade shall be applied.	Axial Flow Fan	We request you to add that the casing can also be made from galvanized steel with a coating of Zinc with 275GSM thickness.	Acceptable .
276	HVAC Specification AC Page No.60 Clause 6.0, Point (a). The fire rated smoke exhaust fans generally shall be described above suitable for 250°C for minimum 2hrs	Axial Flow Fan(Fire Rated ventilation fan)	We request you to change the same to “all high temperature fans to be used for fire application shall bear the certification/listing of UL/CE (in addition of being AMCA certified) conforming to UL-705 “Power Ventilator for smoke exhaust” or EN12101-3-2002 smoke and heat control system specification for powered smoke and heat exhaust ventilator.”	Shall be as per tender conditions
277	HVAC Specification AC Page No.61 Clause 6.0, Point d. The collar shall be long to cover fans and motor	Axial Flow Fan(Fire Rated ventilation fan)	As per AMCA, short casing/Long casing/ Medium Casing fans are not specified. Every manufacturer has different casing lengths where some motors may fit inside the fan casing and some motors may extend outside the casing. Kindly confirm either the minimum length of casing required or modify the same as “casing length shall be as per manufacturer.”	Shall be as per tender conditions
278	HVAC BOQ . Axail flow fans ( AMCA Cetrified)	Axail flow fans ( AMCA Cetrified)	We request you to mention fans shall be AMCA certified for Sound and Air Performance (AMCA 210 and AMCA 300)	Shall be as per tender conditions

279	HVAC List of Make - Sr. no- 10 and 14 Air Handling Units (High Static) with cooling coils and Fan Coil Units Carrier/Caryaire/Blue-star/ZECO/Systemair/Voltas/VTS/Flaktwood/ Waves/Edgtech	Air Handling Units (High Static) with cooling coils and Fan Coil Units	As Our AHU's and FCU's are already approved in HSCC- PMSSY Hospitals Projects. We request you to please approve Unique make AHU's and FCU's in Approved List of Make.	Shall be as per tender conditions
<b>Additional Queries HVAC</b>				
280	Vol 5_Bill of Quantities of HVAC works for “ Hospital and Academic Campus “  'A' – Equipments 1.0 Water chilling units	Water Cooled Centrifugal Chillers with VFDs including Active Harmonic Filters, Automatic Tube Cleaning System, ASME Stamping on both the shells, Foundation works and high COP of 6.3 @ AHRI, 0.65 IKW/TR @ tender conditions inclusive of all losses.	Unit Rate mentioned for water cooled centrifugal chillers presumably including VFDs including Active Harmonic Filters, Automatic Tube Cleaning System, ASME Stamping on both the shells, Foundation works and high COP of 6.6 @ AHRI, 0.64 IKW/TR @ tender conditions inclusive of all losses , site preliminaries, contractors OH & Profit margin seems to be very low (Rs.19,656/TR). Costing may please be reviewed and revised appropriately.	Shall be as per tender.
281	Vol 5_BILL OF QUANTITIES FOR HVAC WORKS, 1.1 s  Water Cooled Centrifugal Chillers with VFD	IKW/ TR < 0.65 (inclusive of all losses)	IKW/ TR shall be 0.685 KW/ TR ( including all losses) - Since the condenser water temperature is higher, 6.3 COP @ AHRI chiller will deliver 0.685 KW/ TR at site conditions. Kindly confirm.	COP mentioned is min, higher COP machine may be provided. IKW/TR < 0.67 is acceptable.
282	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “  'A' – Equipments 1.0 Water chilling units	Maximum head loss 5 mt. water head for evaporator	The approved pressure drop requirements for centrifugal chilling units for both evaporator and condenser as per 2017 CPWD general specifications for heating, Ventilation and air-conditioning (HVAC) works 2017 is 10 mts. ( Reference - Page no. 36 , Head – 2.1.2 Design Parameters , Sub Head 2,1.2.1 Chilling Unit ). Accordingly, we would request you to kindly accept pressure drop upto 8 mt. as the allowable limit for evaporator also. Kindly confirm.	Evapotrator side 8 m pressure drop is acceptable.
283	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units BOQ (1.1s)  BOQ (1.1s): IKW/ TR < 0.65 ( including all losses)	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	IKW/ TR < 0.68- 0.69 KW/ TR (including all losses) - Since the condenser water temperature is higher, 6.3 COP chiller will deliver 0.68-0.69 KW/ TR at site conditions. Kindly confirm.	COP mentioned is min, higher COP machine may be provided. IKW/TR < 0.67 is acceptable.
284	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units BOQ (1.1 f)  BOQ (1.1 f)- Pressure drop in evaporator shall be 5m	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	The pressure drop in evaporator side shall be 8m. Kindly confirm.	Evapotrator side 8 m pressure drop is acceptable.
285	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units BOQ (1.1 u)  BOQ (1.1 u)- Automatic Tube cleaning system	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	Quantity of ATCS is not mentioned. Kindly confirm.	Each chiller will have separate ACTS mechanism . Only controller may be the same for 03 chillers.
286	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units  NPLV at tender conditions less than 0.38	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	Since the condenser water temperature is higher, NPLV should be < 0.39. Kindly confirm.	NPLV < 0.39 acceptable.

287	HVAC Specification AC Page No.58 Clause 3.0, Point a.  Impeller shall be of die cast aluminum alloy with integrally cast aerofoil sectioned blades and hub.	Axial Flow Fan	Blades shall be Cast /fabricated aluminum aerofoil shaped. Kindly confirm.	Shall be as per tender.
288	HVAC Specification AC Page No.58 Clause 3.0, Point e. and HVAC Specification Page No.60 Clause 6.0  Fan motor shall be selected in such a way that sound level is lowest ( max. 75 db at 3 m distance) while running.	Axial Flow Fan	We request you to clarify whether the noise level will be measured in room condition (Hemispherical reverberant room condition) or in free field condition (Spherical). Kindly confirm.	Shall be as per BOQ.
289	HVAC Specification AC Page No.58 Clause 3.0, Point e.  Motor shall be capable of running continuously with 5% drop in rated phase voltage at 15% increase in design power.	Axial Flow Fan	Voltage fluctuation shall be $\pm$ 5%. Kindly confirm.	Shall be as per tender.
290	HVAC Specification AC Page No.58 Clause 3.0, Point f.  The speed if the fans shall not exceed 960rpm for fans with impeller dia above 1000mm and 1440rpm for fans with impeller dia 1000mm and less.	Axial Flow Fan	Fan Capacity (CFM)/ Static Pressure/ noise level/Efficiency/running Kw are most important parametrs for fans selection and same shall be adhered to while selecting a fan. We request you to limit the maximum RPM of fan to 2900 RPM. Kindly confirm.	Shall be as per tender.
291	HVAC Specification AC Page No.58 Clause 3.0, Point g.  Fans and accessories shall be painted with two coats of redoxide primer zinc chrome primer confirming to IS: 2074 or superior, over which two cots of synthetic enamel of approved shade shall be applied.	Axial Flow Fan	We request you to add that the casing can also be made from galvanized steel with a coating of Zinc with 275GSM thickness. Kindly confirm.	Acceptable .
292	HVAC Specification AC Page No.61 Clause 6.0, Point d.  The collar shall be long to cover fans and motor	Axial Flow Fan(Fire Rated ventilation fan)	As per AMCA, short casing/Long casing/ Medium Casing fans are not specified. Every manufacturer has different casing lengths where some motors may fit inside the fan casing and some motors may extend outside the casing. Kindly confirm either the minimum length of casing required or modify the same as "casing length shall be as per manufacturer." Kindly confirm.	Shall be as per tender.
293	HVAC BOQ  Axial flow fans ( AMCA Cetrified)	Axial flow fans (AMCA Cetrified)	We request you to mention fans shall be AMCA certified for Sound and Air Performance. Kindly confirm.	Shall be as per tender.
294	HVAC List of Make - Sr. no- 10 and 14 Air Handling Units (High Static) with cooling coils and Fan Coil Units  Carrier/Caryaire/Blue-star/ZECO/Systemair/Voltas/VTS/Flaktwood/ Waves/Edgtech	Air Handling Units (High Static) with cooling coils and Fan Coil Units	As Unique Make AHU's and FCU's are already approved in HSSC- PMSSY Hospitals Projects. We request you to please approve Unique make AHU's and FCU's in Approved List of Make. Kindly confirm.	Shall be as per tender.

## Annexure -II

### LIST OF APPROVED MAKES FOR AUDIO / VISUAL SYSTEM

S.No.	ITEM	MAKE
1	Speaker	Bosch , EV, JBL
2	Amplifier / Mixer	Bosch , EV, JBL
3	Mice	Sennheiser , Shure, Bosch
4	Equipment Rack	Data Rack, D-link, Rittal.
6	Cables (HDMI/ VGA)	Kramer, Extron, Crestron
7	Projector	Sony, Barco, Christie
8	Motorized Screen	Drapper, Dalite, Inlight

