

**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. – 2**

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

**Tender No.** HSCC/PMSSY/AIIMS/Guntur/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	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

	<p>contract or carrying out of the work, to be 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</p>	<p>in Charge considers any act or 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>
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	<p>(DRC) fails to give his decision within 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 term of contract that each party 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)</p>
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	<p>It is also a term of this contract that 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.</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</p>	<p>and any further statutory 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</p>
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	<p>his sole discretion. The fees, if any, of the 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>reasons for the award. It is also a term 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</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>

	<p>shall make all necessary co-ordination.</p> <p>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 contractor shall get the structural drawings duly vetted from IIT and the fee paid to IIT for vetting will be reimbursed by HSCC.</p>
<p>Volume – III Specific Conditions of Contract (SCC) Definitions &amp; Interpretation Clause 4.1 Scope of Contract</p>	<p>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</p>	<p>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.</p>
<p>Volume – III Specific Conditions of Contract (SCC) Definitions &amp; Interpretation <b>Clause 5(d)</b> <b>Working Drawing/Shop Drawings/Design</b></p>	<p>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 &amp; Plant layout etc. The contractor shall get the structural drawings duly vetted from IIT at their own cost.</p> <p>All drawings shall be signed by Contractor's authorised representative with name, seal and date before submission to Engineer-in-charge.</p>	<p>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.</p> <p>The contractor shall get the structural drawings duly vetted from IIT and the fee paid to IIT for vetting will be reimbursed by HSCC.</p> <p>The Contractor will prepare shop drawings based on the drawings given by client/ Executing Agency for all services eg. Electrical, Plumbing, etc.</p> <p>All drawings shall be signed by Contractor's authorised representative with name, seal and date before submission to Engineer-in-charge.</p> <p>In case there is delay in any drawings and design viz shop drawings, as</p>

	In case there is delay in any drawings and 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.	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.
Volume – I Clause 1.4.1 Similar Work (as amended vide Amendment No.1 dated 25.10.2017)	*“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 mumty 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 mumty 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.

		*Reinforcement Steel- Primary Manufacturer Rs.42525/-Tonne Structural Steel : Rs. 44940/-Tonne	*Cement- OPC Rs. 4450/- Tonne(Excluding GST)  *Reinforcement Steel- Primary ManufacturerRs.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 1630 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 23.11.2017**  
Date of opening of bids: **on 23.11.2017 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 15.11.2017.
4. Addendum to Tender Drawings Vol.-VI is enclosed for the subject work as Annexure III. Bidders may take note accordingly.
5. 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.,

## Annexure - I

Construction of Hospital and Academic Campus at All India Institute of Medical Sciences, Guntur, Andhra Pradesh				
S.No	Clause, Section & Vol No/ Description	As per Bid Document	Bidder's Queries	Reply
<b>Bidder No. 1</b>				
<b>al &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. 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.2
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.	The Specific Conditions of Contract prevail over the GCC and Volume I, NIT and PQ
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 experience 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.	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.	Shall be as per tender conditions.
<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 to be carried out as per CPWD specification and tender condition

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 to be carried out as per CPWD specification and tender condition
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 / Zyls	Work is to be carried out as per tender conditions.
10	Vol V, BOQ Item No. 10.05	Providing and fixing glass Reinforced C oncrete (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 shall be 380/- per sqft.(excl. GST ) FOR site
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 approve 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 instaling 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 palte: 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 chamber dosing 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 phase II load (appr. 500 KLD). The planning & designing has to be 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 shope 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 C O2 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 C O2 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 C O2 flooding system shall be provided by Agency for approval of HS C C before start of the work. The C O2 flooding panel shall also meet out the local - ire 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 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.	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:	In spite 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.	No change. 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 ELCTRICAL 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 Guntur 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	As per actual requirement at site
35	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur 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 35KA or more rating .
36	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur 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 with tender drawing
37	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur 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 with tender drawing



38	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur 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.	As per approved make list
39	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur 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.	As per approved make list
40	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur 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.	As per approved make list
41	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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 Guntur 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. 1 phase AC supply complete as required. 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.	900/1400 mm fan will be ISI marked
58	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur 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 Guntur 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 Guntur 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 Guntur 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 luminaire 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 Guntur 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 drawing
63	BILL OF QUANTITIES OF ELECTRICAL WORKS FOR CONSTRUCTION OF HOSPITAL & ACADEMIC CAMPUS AT AIIMS Guntur Page No. 264/343  SUB HEAD 19 :SPECIALIZED SERVICE OF AUDITORIUM	19.01 Supply Installation Testing & Commissioning of LED downlighter 24W , 2000 lumen , DALI Dimmable 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 luminaire 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 - Guntur 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 . As per tender condition
<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>				
68	Drawings	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
69	Electrical SLD	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
<b>Technical Notes</b>				
70	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 back pull out. <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 .
71	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.

72	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.
73	HVAC BOQ - 2.4	Condenser pump with cladded insulation	Insulation and cladding is not required for condenser water pumps	Not required.
74	HVAC BOQ - 3	Induced Draft Cooling Tower	Please specify whether counterflow or crossflow cooling towers are to be considered	Shall be as per Tender.
75	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 pre filters, 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.
76	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	Acceptable.
77	HVAC - BOQ	Cooling Tower/ Secodary & 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.
78	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	Shall be as per tender.
79	HVAC BOQ - 17.3	Balancing Valve with built in measuring facility	We assume this refers to manual Balancing Valve.	Manual balancing valve.
80	HVAC BOQ - 20	Fire Dampers to be UL listed, Where as the same has been specified in tender to be approved by CBRI roorkee, as per UL555	We assume that fire dampers with CBRI certification as per UL555 shall be acceptable.	Acceptable.
81	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.
82	HVAC - Tender - 2.4	AHU outer skin shall be pre-coated 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 pre-coated 0.8mm GI outerskin & 0.8mm plain GI inner skin	Shall be as per Tender.
83	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.
84	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.
85	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.
86	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.

87	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 precoated outer skin & 0.8mm GI inner skin ( same as AHU )	Same as AHU.
88	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.
89	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.
90	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 accepst FCU drain pan with 13mm PUF	PUF is acceptable but with same thickness.
91	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.
92	Tender Specification - Axial flow fan 3.f - Page 58 of 96	Axial & Centrifugal ventilation Fans - The speed of fan shall not exceed 960 RPM with impellar 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.
93	Tender Specification - AHU 2.1 - Page 25 of 96	AHU Fan section - Fan shall be selected for speed not exceeding 1000 RPM for fan dia more that 350mm		Shall be as per tender.
94	Tender Specification - Duct Works 2.2 - Page 68 of 96	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 BOQ. TDF as per SMACNA is acceptable.
<b>Approved Makes</b>				
95	List of Approved Makes	Centrifugal Chiller Make	We request you to please accept "Voltas - Dunhambush" make centrifugal chiller	No change. Shall be as per tender Conditions.
96	List of Approved Makes	VAV make of Trane / Trox / JCI / Caryaire / Belimo	Please approve Dynacraft make VAV with belimo actuators, since Belimo doesn't manufacture VAV	No change. Shall be as per tender Conditions.
97	List of Approved Makes	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 condition
98		AHU Panel : Tricolite / Adlec / C&S / Jackson / Milestone		Shall be as per tender condition
99	List of Approved Makes	Heat Recovery unit with Wheel : Flaktwood / Novelaire / DRI / Greenheck / Bryair	We request you to please accept the same with Heat Receovery units of approved AHU vendor with HRW of Flaktwood / Novelaire / DRI / Greenheck / Bryair as specified in list of makes	No change. Shall be as per tender Conditions.
100	List of Approved Makes	Butterfly Valves : AUDCO / L&T / Honeywell	We request you to please accept Advance make butterfly valves	Shall be as per tender condition
101	List of Approved Makes	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 condition
102	List of Approved Makes	Cables : CCI / Universal / Finolex / Rallison	We request you to please accept KEC / KEI / POLYCAB makes also for cabling	Shall be as per tender condition
103	List of Approved Makes	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 condition
<b>Bidder No. 3</b>				
104	General	Tender Submission Date:	Please extend the submission date of tender at least 21 working days of current submission date	The last date of submission of bids is extended upto 23rd November, 2017. Please refer to Amendment No.2



105	General	Autocad Drawings	We request you to kindly provide us the Autocad drawings.	Soft copy of drawings in pdf format is already available as Tender Drawings (Volume VI)
106	General	BOQ	kindly provide us BOQ in excel format.	BOQ in PDF format has already provided as Volume V.
107	General	Area Statement	Kindly provide us the building wise and floor wise area statement.	Tender drawings are already available.
108	General	Mobilization Advance	We request you to consider 10% <b>interest free</b> mobilization advance against Bank Guarantee in two equal installments.	No change. Shall be as per tender Conditions.
109	General	Retention: Cash retention	We request to consider the retention money against Bank Guarantee to have smooth cash-flow at site.	No change. Shall be as per tender Conditions.
110	General	DSR Rates in tender	We presume that DSR rates are including GST. Kindly confirm the same.	No change. Shall be as per tender Conditions.
111	General	Flyash	Kindly provide us percentage of flyash can be used at concrete.	shall be as per CPWD specifications and Tender Conditions.
112	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.
113	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.
114	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.
115	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.
116	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 .	shall be as per CPWD specifications and Tender Conditions.

117	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,
118	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 cementious content including flyash. Kindly confirm.	As per BOQ 330 kg/cum is cement content and not cementious content.
119	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 seperately)	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.
120	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 Shriram 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.

121	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.
122	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 is to be carried out as per CPWD specifications and tender conditions.
123	Technical specification- I 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.
124	Technical specification- I Approved Make list Reinforcement Steel	SAIL, RINL, TISCO	Kindly add " JSW, also in the list	No change. Shall be as per tender Conditions.
125	Technical specification-I 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.
126	Technical specification-I Approved Make list Ceramic Tiles /Glazed Tiles	Kajaria, Somany, Naveen	Kindly add RAK	No change. Shall be as per tender Conditions.
127	Technical specification- I Approved Make list RMC	ACC, Ultratech, L&T, Lafarge	Kindly add IJM,ACC	No change. Shall be as per tender Conditions.
128	Technical specification-I 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.
129	Technical specification- I Approved Make list Flush door shutters	Greenply, Duro, Kitply, Century	Kindly add "Black Cobra / Kitply "	No change. Shall be as per tender Conditions.
130	Technical specification- I Approved Make list Laminate	Greenlam, Merino, Formica, Kitply, Century	Kindly add Associate, virgo	No change. Shall be as per tender Conditions.
131	Technical specification- I 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.
132	Technical specification- I Approved Make list Metal ceiling/Grid Ceiling	Armstrong, Durlum, Saint Gobain	Kindly add New Age	No change. Shall be as per tender Conditions.
133	Technical specification-I Approved Make list Aluminium	Hindalco, Jindal, Indal	Kindly add Bhuruka	No change. Shall be as per tender Conditions.
134	Technical specification- I Approved Make list Epoxy flooring	Fosroc, BASF, STP, Sika, Dr Beck	Kindly add Cipy polyurethane	No change. Shall be as per tender Conditions.
135	Technical specification- InApproved Make list PU Paint	Fosroc, Pidilite, Cico, BASF, Sika, Berger, Nerolac	Kindly add Asian paints	No change. Shall be as per tender Conditions.
136	Technical specification- Approved Make list Diesel generator		Kindly add "Powerica LTD as supplier"	No change. Shall be as per tender Conditions.
137	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.

138	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.
139	Technical specification- Approved Make list Transformer	ABB, GE, Schneider, Alstom	Kindly add "Kirloskar"	No change. Shall be as per tender Conditions.
140	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.
141	Technical specification- Approved Make list PVC conduit	Supreme, Prince, Finolex, AKG	Kindly add " Nelco, VIP "	No change. Shall be as per tender Conditions.
142	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.
143	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.
144	Technical specification- Approved Make list HVAC Sub-contractors	Voltas, Bluestar, Suvridha, Unique Engineers, ETA, Sterling & Wilson	Kindly add " M/s VKBS "	No change. Shall be as per tender Conditions.
145	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.
146	Technical specification- Approved Make list Butterfly valve	Audco, L & T, Honeywell	Kindly add " Zoloto "	No change. Shall be as per tender Conditions.
147	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 clearnce 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.
148	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.
149	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.
150	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,

151	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.
152	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.	Shall be as per tender Conditions.
153	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%.	Shall be as per tender Conditions.
154	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 with- held in case of non - achievement of milestone.	Shall be as per tender Conditions.
155	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.
156	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.

157	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.
158	General Electrical	Electrical	Kindly request you to provide <ul style="list-style-type: none"> <li>• Main schematic diagram required</li> <li>• External Lighting and routing drawing required</li> <li>• Electrical setting out plan required</li> </ul>	Shall be provided to successful bidder after award of work.
159	General HVAC	HVAC	Kindly request you to provide <ul style="list-style-type: none"> <li>• Plant room drawing required</li> <li>• Chilled water line raiser drawing required</li> <li>• HVAC setting out plan required</li> <li>• Section detail drawing for all equipment's, chilled water lines and ducts required.</li> </ul>	Preparation of shop drawing are in the scope of bidders.
160	General Fire Fighting	Fire Fighting	Kindly request you to provide <ul style="list-style-type: none"> <li>• Fire fighting setting out plan required</li> <li>• Pump room detail drawing required</li> </ul>	Preparation of shop drawing are in the scope of bidders.
161	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.
162	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.
163	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 back pull out. <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 .
164	HVAC BOQ - 2.2	Separate control panel with separate VFD for each set of pumps	We assume that set of pumps referes 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 Conditions. Each set of pumps of secondary pumps of different zones will have separate control panel.
165	HVAC BOQ - 2.3	Separate control panel with separate VFD for each set of pumps	We assume that set of pumps referes 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 Conditions. Each set of pumps of secondary pumps of different zones will have separate control panel.

166	HVAC BOQ - 2.4	Condenser pump with cladded insulation	Insulation and cladding is not required for condenser water pumps	Not required.
167	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.
168	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 pre filters, 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.
169	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	Acceptable.
170	HVAC - BOQ	Cooling Tower/ Secodary & 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.
171	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.
172	HVAC BOQ - 17.3	Balancing Valve with built in measuring facility	We assume this refers to manual Balancing Valve.	Manual balancing valve.
173	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.	Acceptable.
174	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.	No change. Shall be as per tender Conditions.
175	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	No change. Shall be as per tender Conditions.
176	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	No change. Shall be as per tender Conditions.
177	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	No change. Shall be as per tender Conditions.
178	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	No change. Shall be as per tender Conditions.
179	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.
180	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 precoated outer skin & 0.8mm GI inner skin ( same as AHU )	Same as AHU.

181	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.
182	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.
183	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 accep FCU drain pan with 13mm PUF	PUF is acceptable but with same thickness.
184	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.
185	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 impellar 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	No change. Shall be as per tender Conditions.
186	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 that 350mm		No change. Shall be as per tender Conditions.
187	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 BOQ. TDF as per SMACNA is acceptable.
188	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	No change. Shall be as per tender Conditions.
189	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	No change. Shall be as per tender Conditions.
190	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	No change. Shall be as per tender Conditions.
191	List of Approved MakesHVAC	AHU Panel : Tricolite / Adlec / C&S / Jackson / Milestone		
192	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 Receovery units of approved AHU vendor with HRW of Flaktwood / Novelaire / DRI / Greenheck / Bryair as specified in list of makes	No change. Shall be as per tender Conditions.
193	List of Approved Makes HVAC	Butterfly Valves : AUDCO / L&T / Honeywell	We request you to please accept Advance make butterfly valves	No change. Shall be as per tender Conditions.
194	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	No change. Shall be as per tender Conditions.
195	List of Approved Makes HVAC	Cables : CCI / Universal / Finolex / Rallison	We request you to please accept KEC / KEI / POLYCAB makes also for cabling	No change. Shall be as per tender Conditions.
196	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	No change. Shall be as per tender Conditions.
<b>Bidder No. 4</b>				



197	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.	Evapotrator side 8 m pressure drop is acceptable.
198	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ ‘A’ – Equipments 1.0 Water chilling units COP minimum of 6.5	HVAC Sub-Head ‘A’ – Equipments 1.0 Water chilling units	As per LATEST ECBC Norms, for ECBC plus building , either COP or IPLV should be complied . Min COP or IPLV asked in ECBC 2017 for EBC plus building are 6.5 & 8.9 respectively. Please note that Since our chillers will be with VFD, and hence IPLV of offered chiller shall be > 9.25. Hence all our chillers which have 6.3 COP at full load with VFD not only qualify for ECBC plus building but also for super ECBC Buildings. Hence request you to accept 6.3 COP in place of mentioned 6.5 COP.	No change. Shall be as per tender Conditions.
199	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ ‘A’ – Equipments 1.0 Water chilling units . BOQ IKW/ TR < 0.64 ( including all losses)	HVAC Sub-Head ‘A’ – Equipments 1.0 Water chilling units	IKW/ TR < 0.65 KW/ TR ( including all losses) - Since the condenser water temperature is 88 F, chiller will deliver 1000 tr at 0.65 KW/ TR at site conditions. Please note that Chiller works only 1% at full load, hence request you to accept 0.65 kW/TR.	No change. Shall be as per tender Conditions.
200	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ ‘A’ – Equipments 1.0 Water chilling units . NPLV less than 0.37	HVAC Sub-Head ‘A’ – Equipments 1.0 Water chilling units	Since the condenser water temperature is 88 F, NPLV should be < 0.38.	NPLV < 0.38 acceptable.
201	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ ‘A’ – Equipments 1.0 Water chilling units . Pressure drop in evaporator shall be 5m	HVAC Sub-Head ‘A’ – Equipments 1.0 Water chilling units	Please note that these chillers are Large tonnage chillers and pressure drop of 5 M specially on evaporator is not possible. Request you to kindly accept 8 M pressure drop in both evap & condenser.	8 m pressure drop in both Evaporator and Condenser is acceptable.
202	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ ‘A’ – Equipments 1.0 Water chilling units Chiller Performance sheet	HVAC Sub-Head ‘A’ – Equipments 1.0 Water chilling units	The AHRI Certified performance sheet shall include losses of Active harmonic filters.	No change. Shall be as per tender Conditions.
203	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	No change. Shall be as per tender Conditions.
204	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).	No change. Shall be as per tender Conditions.

205	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	No change. Shall be as per tender Conditions.
206	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.	No change. Shall be as per tender Conditions.
207	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.	Acceptable .
208	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.”	No change. Shall be as per tender Conditions.
209	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.”	No change. Shall be as per tender Conditions.
210	HVAC BOQ Point no-8.3 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)	No change. Shall be as per tender Conditions.
211	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.	No change. Shall be as per tender Conditions.
<b>Bidder No. 5</b>				
<b>TECHNICAL</b>				
<b>CIVIL</b>				

212	BOQ Item No. 1.01	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 500 m and lift upto 1.5 m, as directed by Engineer-in-charge.	We request you to allow controlled blasting for Excavation in Hard Rock. Please confirm.	Work shall be carried out as per tender condition
213		b) Ordinary Rock		
214		<b>c) Hard Rock (Blasting Prohibited)</b>		
215	BOQ Item No. 1.02	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 500 m.		
216		b) Ordinary Rock		
217		<b>c) Hard Rock (Blasting Prohibited)</b>		
218	BOQ Item No. 3.10, 3.11 & 3.12	<b>Expansion Joint System</b>	We request you to provide the List of Approved Makes for Expansion Joint System	Work shall be carried out as per tender conditions
219	BOQ Item No. 4.07	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 Shriram 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	We request you to specify the dimensions of the Toilet Cubicles as the rate per "Sqm" will vary according to the type (L/U) of Cubicle.	Work shall be carried out as per tender conditions
220	BOQ Item No. 7.16	P/L 8mm thick (EN13329) <b>HDF laminated wooden Flooring including skirting</b> 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 pay separately for Skirting.	Work shall be carried out as per tender conditions
221	BOQ Item No. 7.21	Providing & fixing 2 mm thick homogeneous jointless, scratch resistant, chemical resistant, anti fungal and anti bacterial class A clean room certified, Pthalate free <b>PVC Vinyl flooring and skirting/ coving</b> good for laboratories of approved quality including the cost of suitable adhesive of approved quality and manufacture.Cost of coving to be paid seperately)	We request you to pay separately for Skirting.	Work shall be carried out as per tender conditions
222	BOQ Item No. 7.22	<b>Extra for providing and fixing coving</b> of suitable material for PVC flooring including the cost of labour and materials for coving. Length of coving shall be measured for payment.	We understand that the Coving shall be measured and paid separately under Item No. 7.22 and not to be included in Item No. 7.21. Please confirm.	Extra for coving is payable as per BOQ item

223	BOQ Item No. 10.05	Proving and fixing <b>glass Reinforced Concrete</b> (G.R.C) Screens in approved <b>size, pattern design</b> , thickness and color of approved make .The Screen should be made from White Portland cement ,Quartz, Fine Silica Sand, Alkali Resistant Glass Fibre Super Plasticizer Polymer and U.V resistant Synthetic inorganic pigment for pigmentation. The material casting should take place in Synthetic Rubber /FRP moulds of approved make & shape. The fixing of screens to be done with Stainless Steel (SS-304) 'L' shaped Clamps, dash fasteners and pins, as required at site.	We request you to provide the Size, Design Pattern/ Drawings for GRC Screens.	Base rate of GRC is Rs 380/- per sft (excl GST) FOR site. Work shall be carried out as per tender conditions.
224	Tech. Specifications - Civil Works, Pt. No. 1.13, Pg No. 2	Rates for plastering work (excluding washed grit finish on external wall surfaces) shall include <b>for making grooves, bands</b> etc. wherever required and nothing extra shall be paid for the same.	We request you to pay separately for Architectural Grooves, Bands. Please confirm.	No change in tender condition
9	Tech. Specifications - Civil Works, Pt. No. 1.20, Pg No. 3	He shall also ensure that all work sites within the Institute complex are properly cordoned off by means of <b>barricades and screens upto a height of 3.0 m</b> above ground level. The contractor shall use painted CGI sheets which are in good condition mounted on steel props.	We request you to pay separately for Barricade.	No change in tender condition
10	Tech. Specifications - Civil Works, Pt. No. 5, Pg No. 21, Notes	<b>Final choice of make mentioned above shall remain with the Engineer in charge</b> Other equivalent makes can also be added or deleted, subject to price adjustment if any.	Any of the vendor/ make specified in the tender and also its equivalent shall be allowed without any Cost adjustments in our quoted rates. However, prior approval shall be taken from the Client/Consultant for the equivalent make.	No change in tender condition
<b>TECHNICAL - MEP</b>				
<b>HVAC</b>				
1	Water Chiller Units, Sub Clause 1.1	Chillers with R-134a Refrigerant	Request you to kindly allow 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.
2	BOQ - 1.1:Chillers - Point e & f -	ASME Stamping for condenser and evaporator	We request you to kindly not insist on ASME stamping for chiller pressure vessels as all the chiller vessels are as per ASME standards only. For ASME stamping it is an additional cost loaded on chiller wherein there is no benefit to the client.	No change . Shall be as per tender condition
3	BOQ - 1.1:Chillers - Point e & f -	Pressure drop in evaporator shall be 5m	Please note that these chillers are Large tonnage chillers and pressure drop of 5 M specially on evaportaor is not possible. Request you to kindly accept 8 M pressure drop in both evap & condenser.	8 M pressure drop in both evap & condenser acceptable.

4	BOQ - 1.1: Chillers - Point t	Chilling machines shall be tested as per conditions stipulated in tender for points 25%, 50%, 75% and 100% and test report shall be submitted.	We shall be submitting the test reports only , factory witness charges shall be extra at actuals , if required.	<b>Clarification/Amendment:-</b> No witness testing. One randomly selected chiller shall be tested at 04 points mentioned in BOQ at tender conditions.
5			The AHRI Certified performance sheet shall include losses of Active harmonic filters also. Please confirm	No change . Shall be as per tender condition
6	BOQ - 1.1: Chillers - Point r	COP minimum of 6.5	As per LATEST ECBC Norms, for ECBC plus building , either COP or IPLV should be complied . Min COP or IPLV asked in ECBC 2017 for EBC plus building are 6.5 & 8.9 respectively. Please note that Since our chillers will be with VFD, and hence IPLV of offered chiller shall be > 9.25. Hence all our chillers which have 6.3 COP at full load with VFD not only qualify for ECBC plus building but also for super ECBC Buildings. Hence request you to accept 6.3 COP in place of mentioned 6.5 COP.	No change . Shall be as per tender condition
7	BOQ - 1.1: Chillers - Point s	BOQ IKW/ TR < 0.64 ( including all losses)	IKW/ TR < 0.66 KW/ TR ( including all losses) - Since the condenser water temperature is higher, chiller will deliver 1000 tr at 0.66 KW/ TR at site conditions. Please note that Chiller works only 1% at full load, hence request you to accept 0.66 kW/TR.	No change . Shall be as per tender condition
8	BOQ item No 1.2.1: Plant Manager	Plant manager along with 'Cabling & Conduit	As per the BOQ description the plant manager shall be with cabling & conduiting. The same shall be measured and paid as per Sr .32 & 29.(cables)	No change . Shall be as per tender condition
9	BOQ - 2.2: Secondary Pumps and variable Speed Pumping System point f,g	Dedicated microprocessor based PLC panel	Please confirm, whether Pumps PLC panel shall be considered with bypass or without bypass starter	No change . Shall be as per tender condition
10	BOQ Sr No 2.2.3 to 2.2.5	Hot water pumps	Since Hot water pumps under the main header of secondary pumping system. Request you to clarify whether we need to consider PLC panel and VFD's for hot water pumps also.	Yes. Shall be as per tender.
11	BOQ item No 5.1: AHUs	Horizontal / 2 tier	As per the BOQ it is mentioned Horizontal / 2 tier as specified & shown in schedule of equipment. Since it is not specified anywhere in the BOQ we shall consider single tier AHUs. Please confirm.	No change . Shall be as per tender condition
12		6 row deep cooling coil and 1 Row deep for hot water	As the hot water coil is asked for 1 row deep , the supply and return header will be on opposite side occupying more space. Hence if there is space constraint , it is advisable to go for even rows as standard.	No change . Shall be as per tender condition
13		Filters for AHU	Please clarify whether pre & fine filter can be mounted on a common frame or else the fine filter to be considered after the fan.	No. Fine filter after fan.
14		VFD Starter	As per the BOQ it is mentioned that the AHUs shall be with IP54 rated suitable capacity VFD starter and isolator switch. Please clarify whether we need to consider only VFD or VFD with bypass starter panel.	VFD starter.
15	Technical Specifications Pg No 26	Outer Skin	As per the specifications it is mentioned that the outer skin shall be with 0.8mm thick pre-coated CRC sheet. We shall consider 0.8mm thick pre-coated GI sheet as per the manufacturer standard.	Acceptable.

16	BOQ - 5.2: Air Handling Units for OT	OT AHUs shall be provided with hot water coil as well as electrical heaters	Please advise whether both hot water coil as well as electric heaters are required .	No change . Shall be as per tender condition
17		AHU Fans	As per the BOQ it is mentioned that fans shall be "backward curved plug type direct driven supply air and return air fans". Please clarify whether these AHUs are two tier AHUs with supply and return air fans.	02 tier AHU.
18			If yes, please provide the return air section detail with CFM and static pressure.	Return air fan of same capacity with VDF.
19		Panel thickness	Please provide the thickness of the PUF panel to be considered since the same is not mentioned in the BOQ.	Same as AHU.
20			PIBCV valves not specified in BOQ for OT AHU's. Please confirm	AHUs Shall be with PIBCV and other parameters per item 5.1.
21		Pan Humidifier	As per the BOQ Pan Humidifier to be added in the AHUs, however pan humidifier is also mentioned under line no 23. Please clarify whether to consider the pan humidifiers along with the AHUs.	Shall be as per tender. Item 23 is for other than OT.
22	BOQ item No 5.3: CSUs	PUF Panel Thickness	Please provide the thickness of the PUF panel to be considered since the same is not mentioned in the BOQ.	Same as AHU.
23	BOQ - 5.4: Fan coil units	FCU with 2-way motorized cum automatic balancing valves.	BOQ calls for 2-way motorized cum automatic balancing valves with modulating actuator whereas specification calls for 2 way motorized valves only. Please clarify.	As per BOQ.
24		Static Pressure	Since the static pressure of FCUs is not mentioned, we shall consider low static FCUs with 2-3mm ESP, please confirm.	low static AHUs.
25	BOQ item No 5.5: Precision AC	Copper Piping	Please provide the quantity of copper piping to be considered for these units and also the distance between indoor and outdoor units.	10 mtr.
26	BOQ item No 5.6: TFA with HRW	TFA with HRW Units	These Air Handling Units shall be considered as per the approved makes of the AHUs and the HRW shall be taken from the respective approved wheel manufacturers. Please confirm.	No change . Shall be as per tender condition
27	BOQ item No 6: Ventilation Fan Section	PUF Panel Thickness	Since the PUF panel thickness is not mentioned in the BOQ we shall consider 25mm PUF panel for the ventilation fan sections, please confirm.	Same as AHU.
28		VFD Starter	As per the BOQ it is mentioned that these units shall be with VFD starter. Please clarify whether we need to consider only VFD or VFD with bypass starter panel.	VFD starter.
29	BOQ - 7.0: VAV Boxes	VAV boxes complete with electrical/Control wiring.	Please note that the control wiring/cabling required for this item shall be claimed against item control cable under Sr.no 32.	included in the item.
30	BOQ item No 9: Air Washer	PUF Panel Thickness	Since the PUF panel thickness is not mentioned in the BOQ we shall consider 25mm PUF panel for the air washers, please confirm.	Same as AHU.
31	BOQ item No 9: Air Washer	Outer Skin & Inner Skin Thickness	Since the outer & inner skin thickness is not mentioned, we shall consider it same as AHUs, please confirm.	Same as AHU.
32	BOQ - 8.2: Tube Axial flow fans , Specs Pg 58 Sr.no e	Sound level shall be 70 db at 3m distance.	BOQ calls for 70 db at 3m distance whereas specifications calls for 75 db at 3m distance. Please confirm.	As per BOQ.
33	BOQ item No 11: Expansion Tank	Air Separator	As per the BOQ it is mentioned that pressurised closed type expansion tank with air separator to be considered. Please provide the dia of air separator to be considered.	Suitable for duty as per manufacturer standards.

34	BOQ item No 15.3: Automatic Balancing Valve	Makes	Please provide the makes for the automatic balancing valves since the same are not mentioned in the approved list of makes.	Same as PIBCV.
35	BOQ - 16.1:Chilled water piping , Specs Pg 84 Sr.no 2.1.1	EPS Insulation on chilled water pipes.	BOQ calls for expanded polysterene moulded pipe section (EPS) of 20 kg/cum density whereas per specifications it is mentioned that the density shall be around 24-28 kg/cum	As per BOQ.
36		Chilled water insulated piping	Do we need to consider tar felt sheet above cladding for total pipe length?. Please confirm	No change . Shall be as per tender condition
37	BOQ - 19.1 GSS Ducting , Specs Pg 68 Sr.no 2.2	Ducting shall be factory fabricated as per IS: 655 -1936 with angle iron flanges.	Request you to kindly approve factory fabricated ducts with TDF/TDC flanges as per SMACNA standards.	TDF/TDC flanges as per SMACNA acceptable.
38		Rectangular / Round	As per the BOQ description it is mentioned as rectangular / round ducting. If round ducting also to be provided request you to quantify the same seperately since pricing for both type of ducts will be differnt.	Rectangular.
39	BOQ item No 19.2.1: Fire Resistant Paint	Fire Resistant Paint Makes	Please provide the makes for the fire resistant paint since the same is not mentioned in the approved makes list.	Shall be approved by CBRI.
40	BOQ - 20.1.2	Fire damper with actuator	Request you to kindly specify the actuator rating	As per CBRI approval for fire rating.
41	BOQ item No 22.6.2: Swirl Diffusers	Swirl Diffuser with volume control damper and UL Certified Volume Flow limiter and Plenum.	As per the BOQ the unit of measurement for swirl diffusers is mentioned as sqm, however as per the manufacturer standard the swirl diffusers are supplied in NOS. We request you to provide the swirl diffusers in Nos along with the sizes.	No change . Shall be as per tender condition
42			As per the BOQ both volume control damper and volume flow limiters are mentioned. Please clarify whether both are required to be considered.	With volume flow limiter.
43			If the volume flow limiters are required to be considered, we request you to provide the sizes and quantity in NOS since they are measured in Nos as per the manufacturer standard.	No change . Shall be as per tender condition
44			Please provide the sizes of the plenum to be considered sin the same is not mentioned in the BOQ.	Will be measured in ducting.
45	BOQ item No 22.6.5: Slot Diffuser	Slot Diffusers	As per the BOQ the unit of measurement of slot diffusers is mentioned in sqm. However as per the standard practice we request you to provide quantity of slot diffusers in rmt along with the no of slots.	No change . Shall be as per tender condition
46	BOQ - 24.1 Duct Insulation , Specs Pg 84 Sr.no 2.1.2,2.2.3	Duct insulation with aluminium foiled nitrile rubber.	BOQ calls for insulation with nitrile rubber but in specification it is mentioned as cross linked polyethylene or closed cell elastomeric nitrile rubber . Please clarify	As per BOQ.
47	BOQ - Sr no 25 to 27	HVAC main panel /Floor distribution panels	Request you to kindly provide the SLD for these panels.	No change . Shall be as per tender condition
48	BOQ - Sr no29.1 and 29.2	Cabling with double brass end termination.	Boq spewcifies to quote cabling along with end terminations . But as the mode of measurement is in rmt end terminations cannot be quoted, hence request you to kindly quantify the end terminations seperately.	No change . Shall be as per tender condition
49	Spfications Pg 97	List of makes -Approved Sub contractor.	Since we are having our in house execution team and also as we have worked with other sub contractors of equivalent standards , request you to please not insist on engaing the sub contractors from the approved list.	No change . Shall be as per tender condition
<b>FIRE FIGHTING</b>				

50	BOQ Sr no 1.01	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :	BOQ Description says S&S DI pipes, where as per line item it is asked is for Flanged Pipe. Please confirm which pipe to be considered.If flanged pipes has to be considered then the UOM shall be Nos and the length of the pipe has to be specified.	As per tender conditions
			Out of the three approved makes, only electrosteel manufactures flanged end pipes. Requesting for additional make approval for flanged end DI pipes.	No change. As per tender conditions
51	BOQ Sr no 1.06,1.07	Excavating trenches of required width for pipes, cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5m including getting out the excavated soil, and then returning the soil as required, inlayers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed within a lead of 50 m	The excavation the soil is also being asked in item no 1.07 along with pipes. Please confirm whether we have to consider only pipes in item 1.07 since the excavation is being captured in 1.06	As per tender conditions
52	BOQ Sr no1.09	Providing & fixing fire authority approved Alluminium shutter (size 1200 (L) x 2100 (H) mm ), The shutter size shall be as per approved drawing capable of accommodating fire hose reel, fire hydrant, hose pipe, fittings & accessories. The box shall have a single or double glazed front glass door (with 4 mm thick glass) with lock & key arrangement & shall be painted with Fire red as per IS:5, shade no. 536 complete in all respects. (For Internal	As per description it is mentioned that the price is , "Excluding the cost of alluminium work which will be paid as per civil work items". Kindly confirm whether we need to consider only fixation of the shutter. And also confirm the thickness of the shutter to be considered.	As per tender conditions
			Kindly confirm the thickness of the shutter to be considered.	As per tender conditions
53	BOQ Sr no 1.14	Providing and fixing Hose Cabinet for External Hydrant Stand post type of size (750 x 600 mm x 300 mm) fabricated from 2 mm thick SS sheet	Kindly confirm whether MS sheet can be considered instaed of SS sheet for the Hose Cabinet since SS cannot be supplied in the quoted price.	As per tender conditions
54	BOQ Sr no 1.16	Providing and fixing Single headed hydrants flanged inlet with 63 mm female instantaneous outlet of gunmetal/SS complete with male blank caps, chains conforming to IS:5290 type A with stainless steel orifice plate (if required) to keep the pressure not more than 3.5 kg/sq.cm at any point.	Kindly confirm the MOC to be considered , whether Gunmetal or Stainless Steel	Stainless Steel
55	BOQ Sr no 1.17	Providing and fixing Gunmetal/SS branch pipe with 20mm dia nozzle conforming to IS:903. suitable for installation connections to hose coupling etc. as required.	Kindly confirm the MOC to be considered , whether Gunmetal or Stainless Steel	Stainless Steel
56	BOQ Sr no 1.18 RRL Hose	RRL Hose	Kindly confirm whether we need to consider SS / GM of Type A / Type B	As per tender conditions
57	BOQ Sr no 1.22,23,24	Sluice /Butterfly/Check	Kindly specify the pressure rating to be considered PN 10 or PN 16	PN 16, As per tender
58	BOQ Sr no1.34	Providing and placing on <b>Terrace Polyethylene Water Storage Tank</b> ISI : 12701 MARKED indicating the BIS license No with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Kindly specify the make. Also please mention the size & capacity of the tank to be considered.	As per tender conditions
59	BOQ Sr no 1.47	Providing and fixing SS flexible sprinkler drop unbraided 20 mm NB UL listed having a working pressure of 12 kg/sq.cm complete with GI nipple, sprinkler fixing adaptor and fixing clamps complete as per Manufacturer's catalogue and decorative 65 mm dia CP brass/SS flange for fixing sprinkler below false ceiling	Kindly specify the make to be considered.	As per tender conditions
60	BOQ reference 1.49	150 mm dia Deluge Valve of cast iron body	Pls include HD fire /Tyco /Viking make in approved make list as . No make mentioned in list for deluge valve	Fire/Tyco/Viking



61	BOQ Sr 1.58	FIRE -FIGHTING PANEL (In Pump Room)	Please provide SLD for the panel to be considered.	SLD will be submitted by agency as per BOQ for approval of HSCC
<b>PHE</b>				
62	BOQ Sr.No 1.02	Indian water closet with 10 ltr PVC flushing Cistern	Please provide the Model no for flushing cistern	As per tender conditions
63	BOQ Sr.No 1.03	European closet with 10 ltr PVC flushing Cistern	Please provide the Model no for flushing cistern	As per tender conditions
64	BOQ Sr.No 1.05	Wash Basin with Pillar taps	Please provide the make and model number for wash basin, pillar taps, waste coupling and bottle trap	As per tender conditions
65	BOQ Sr.No 1.06	Pedestal for the wash basin	Please confirm the pedestal model no. RS337461 can be considered.	As per tender conditions
66	BOQ Sr.No 1.22	SS Sink	Please confirm whether we have to include Sink mixer or sink cock? And provide the make and model number for the same.	As per tender conditions
67	BOQ Sr.No 1.24	Soap Holder	Please provide the model number	As per tender conditions
68	BOQ Sr.No 1.26	Towel rail	Please provide the model number	As per tender conditions
69	BOQ Sr.No 1.29	Double coat hook	Please provide the model number	As per tender conditions
70	BOQ Sr.No 1.30	Hand drier	Please provide the make and model number	As per tender conditions
71	BOQ Sr.No 1.31	Hospital bed pan sink	Please provide the model number	As per tender conditions
72	BOQ Sr.No 2.12	Surgical scrub sink	Please provide the model number	As per tender conditions
73	BOQ Sr.No 2.16	CP grating	Please clarify, whether we have to consider gratings in this line item? (Separate line item given for SS floor trap grating - Sl. No. 2.20)	CP grating will be paid saperately under item no. 2.20
74	BOQ Sr.No 2.17	GI Pipes	Please clarify whether heavy class or medium class to be considered.	medium
75	BOQ Sr.No 2.20	Floor drain and balcony drain	Gratings to be included or not?	As per tender conditions
76	BOQ Sr.No 3.07	SS floor trap grating	Please clarify whether we have to consider cockroach trap gratings	As per tender conditions
77	BOQ Sr.No 3.32 to 3.35	Gun metal non return valve	Please confirm whether we can consider 50mm and above size as CI non return valves.	As per tender conditions
<b>ELECTRICAL</b>				
78	Service Panel of Item S.No.2.06	Main Incomer Rating is 1000Amps MCCB & Bus Bar Rating 800A	Please confirm the rating which need to be considered	1250 Amp TPN Aluminium busbars
79	Library/Main MV Panel GF of Item S.No.2.43	Main Incomer Rating is 630Amps MCCB & Bus Bar Rating 300A	Please confirm the rating which need to be considered	800 Amp TPN Aluminium busbars
80	Auditorium/ MV Panel of Item S.No.2.48	Main Incomer Rating is 630Amps MCCB & Bus Bar Rating 500A	Please confirm the rating which need to be considered	800 Amp TPN Aluminium busbars
81	Sub head 5:Point Wiring of item S.No.5.01:Group C	Wiring for light point/fanpoint/ exhaust fan point/call bell point with 1.5 sq.mm. PVC insulated, fire retardant low smoke (FRLS) copper conductor cable,	Kindly confirm total No of Points to be controled Controlled	Not more than 100W/ switch
82	Sub head 5:Socket outlets of item S.No.5.04 to 5.13	Supplying and fixing suitable Modular GI box on surface or in recess including providing and fixing 3 pin 5/6 amps. modular socket outlet with shutters and 5/6 amps.	We have considered only socket & GI box, wiring for the same is considered Under S.No.5.03.kindly confirm for the same .	Ok. As per BOQ
83	Electrical panels		Kindly provide the SLDs for LT Panels.	As per BOQ
84	BOQ Sr.no 18.08	Supply, installation, testing & Comissioning of HDMI Cables(20 mtr.)	No wall plate/face plate mentioned for termination of cables. Please clarify	Complete item to be executed as per BOQ item
85	BOQ Sr.no 18.09	Supply, installation, testing & Comissioning of Cables 2x2.5Sqmm	Makes not mentioned, kindly specify	As per list attached of annexure - 2
86	BOQ Sr.no 18.10	Supply, installation, testing & Comissioning of 5000 ANSI lumens high brightness,WUXGA resolution (1920X1200) Full HD with VGA, No. HDMI, video inputs VPLCH375.	Makes not mentioned, kindly specify	As per list attached of annexure - 2

87		Supply, installation, testing & Commissioning of Motorized Screen	Makes not mentioned, kindly specify	As per list attached of annexure - 2
88	BOQ Sr.no 19.08 & 09	Supply, Installation, Testing & Commissioning of Wall Mount Kit/Bracket for above display with all required accessories etc. all complete.	The quantity for display is 3 Nos but quantity for wall mount is 5 nos. Please clarify	As per actual requirement
<b>GENERAL-TECH</b>				
89		Order of preference BOQ or Specifications	Please clarify in case of conflict/ambiguity between BOQ and Specification/Drawings, which one shall supersede.	As per tender conditions
<b>COMMERCIAL</b>				
90		EMD : 5.68 Crores	We request the following information for preparation of Bank Guarantee for Bid Security as per RBI Guidelines. 1. Your Bank Name, 2. Address, 3. IFSC	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
91	NIT, Cl. 2.3.7, Pg No. 25	These percentage rate/prices should <b>include</b> all costs associated with the Project including any out of pocket / mobilization expenses, taxes, charges, levies, cess, <b>VAT, GST, Service Tax etc.</b> excluding PF & ESI as per GCC applicable 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.	We understand that GST to be included in Quoted Price and also other taxes and duties mentioned are not applicable. Please confirm.	<b>Shall be as per tender conditions.</b>
92	GCC, Cl. 37, Pg No. 68	GST, Building and other Construction Workers Welfare Cess or any other tax, levy or Cess in respect of input for or output by this contract shall be payable by the contractor and Government shall not entertain any claim whatsoever in this respect except as provided under Clause 38.		

93	SCC, Cl. 4.1.1, Pg No. 5	<p>The Contractor shall obtain all <b>pre &amp; post construction clearances/approvals</b> from <b>Municipal and other relevant statutory authorities/local bodies including Water supply agencies concerned, Electric Supply and inspectorate. Agencies concerned</b>, such as, but not limited to, 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 applications for pre-construction clearances submitted/applied to local authorities shall be provided to the contractor for obtaining clearances/approvals. The approvals shall include the following in addition to any other approval which may be required for the project.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Construction Permit if required</li> <li><input type="checkbox"/> NOC from Chief Fire Officer</li> <li><input type="checkbox"/> NOC from Lift Inspector where lifts are provided</li> <li><input type="checkbox"/> Occupancy certificate</li> <li><input type="checkbox"/> GRIHA Certification (Minimum 3 Star)</li> </ul>	<p>Our scope of works shall only be limited to those approvals directly required by us for execution, Unless specifically mentioned in BOQ line items and shall not include any other approvals what so ever from government/ any other authorities. Approval and associated cost (Official Fees &amp; incidental charges ) towards Permanent Works (Commencement &amp; Occupation) shall be in Client's scope. Please confirm.</p>	No change. Shall be as per tender conditions.
94	SCC, Cl. 32.6, Pg No. 32	<p><b>Site office and Infrastructure</b> 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 &amp; printers and its consumables, a telephone with STD facility, Fax Machine, internet and toilets &amp; 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 &amp; 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.</p>	Please confirm the Tentative Area, Consumables, Running Expenses etc. to be considered for site office.	
<b>GENERAL</b>				
95		Tender Submission- 15.11.17, by 3.00 PM	We request you to extend the date of tender submission upto 15.12.17	The last date of submission of bids is extended upto 23rd November, 2017. Please refer to Amendment No.2

96		The bidders are required to submit (a) Original non-refundable Demand Draft of Rs.25,000/- (Rs. Twenty Five Thousand only) as cost of bid, in favour of "HSCC (India) Limited", payable at Noida/New Delhi (b) Original bid security in approved form as detailed in Vol.I of Tender documents to the office of Chief General Manager, HSCC (India) Limited E- 6(A), Sector 1, Noida – 201301 before date and time fixed for opening of bid either <b>by registered post or by hand</b> failing which the bid be declared non-responsive.	We request you to allow us to submit Hard Copy after two days of online submission through Courier. Please confirm.	No change . Shall be as per tender condition
97	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 - as per CPWD
98	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 - as per CPWD
<b>Additional Queries HVAC</b>				
99	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 6.6 @ AHRI, 0.64 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.15,831/TR). Costing may please be reviewed and revised appropriately.	Shall be as per tender.
100	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.
101	Bill of Quantities of HVAC works for " Hospital and Academic Campus "  'A' – Equipments 1.0 Water chilling units  COP minimum of 6.5	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	As per LATEST ECBC Norms, for ECBC plus building , either COP or IPLV should be complied . Min COP or IPLV asked in ECBC 2017 for EBC plus building are 6.5 & 8.9 respectively. Please note that Since our chillers will be with VFD, and hence IPLV of offered chiller shall be > 9.25. Hence all our chillers which have 6.3 COP at full load with VFD not only qualify for ECBC plus building but also for super ECBC Buildings. Hence request you to accept 6.3 COP in place of mentioned 6.5 COP. Kindly confirm.	Shall be as per tender.

102	Vol 5_BILL OF QUANTITIES FOR HVAC WORKS  'A' – Equipments 1.0 Water chilling units	BOQ IKW/ TR < 0.64 ( including all losses)	IKW/ TR < 0.66 KW/ TR ( including all losses) - Since the condenser water temperature is higher, chiller will deliver 1000 tr at 0.66 KW/ TR at site conditions. Please note that Chiller works only 1% at full load, hence request you to accept 0.66 kW/TR.	Shall be as per tender.
103	Bill of Quantities of HVAC works for “ Hospital and Academic Campus “ 'A' – Equipments 1.0 Water chilling units  NPLV less than 0.37	HVAC Sub-Head 'A' – Equipments 1.0 Water chilling units	Since the condenser water temperature is 88 F, NPLV shall be < 0.38. Kindly confirm.	NPLV < 0.38 acceptable.
104	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.
105	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.
106	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.
107	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.
108	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 .

109	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.
110	HVAC BOQ Point no-8.3  Axial flow fans ( AMCA Certified)	Axial flow fans ( AMCA Certified)	We request you to mention fans shall be AMCA certified for Sound and Air Performance. Kindly confirm.	Shall be as per tender.
111	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 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.

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

<b>S.No.</b>	<b>ITEM</b>	<b>MAKE</b>
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

