DEVELOMENT OF PERMANENT CAMPUS FOR NALANDA UNIVERSITY, RAJGIR (PHASE-I) REPLY TO THE QUERIES RECEIVED BY PRE BID HELD ON 22.05.2018 - OUTREACH HVAC- PACKAGE 3A

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	Reply to the Query
			PROSPECTIVE BIDDER NO: 01	
EMD AND TENDER FEES	EMD AND TENDER FEES	EMD - Rs. 10.26 Lacs E-tender Processing Fees - Rs. 15000/-	We are MSME company registered with NSIC for the Tendered Item. As per the Govt of INDIA Norms we request your good office to pl allow us for the exemption of Tender fee and the EMD deposit. For your ref pl find attached herewith our NSIC and MSME certificate copy.	EMD exemption is NOT allowed for the
			PROSPECTIVE BIDDER NO: 02	
BOQ	BOQ Document	BOQ Document	We kindly request you to upload correct excel file of BOQ.	The Technical Error have been
	BOQ Document	BOQ Document	We know request you to upload correct excernie of BOQ. We are unable to recover the lost data of BOQ. It is the problem with file not macros.	rectified with the corrigendum. Document is already uploaded. Please re-download the latest documents.
			PROSPECTIVE BIDDER NO: 03	
Approved Make List	Approved make for Screw Chiller.	Screw Chiller - York/ Carried/ Diakin	We request you to kindly accept Dunham-Bush as one of the manufacturer's of Screw Chiller for subject Tender. Dunham-Bush is also in the approved make list of CPWD and recent tender of Government Dental College at Nalanda for Screw Chillers. Attached Credentials of Dunham-Bush for your kind consideration.	
	Screw type Water Cooled Machine	hermetic direct / gear drive with integrate	Some manufacturers have Twin Screw Hermetic Vertical type Compressor design. Hence request you to kindly accept Twin Screw Hermetic Vertical type Compressor also. These type of compressor do not require external Oil pump and Ensure superheat on part load –maximize oil separation, minimize oil carry-over.	
BOQ ITEM NO. 1.0	Chiller	Minimum COP (At ARI conditions) : 6.4	As per current ECBC 2017 Guidelines for Super ECBC Building; COP requirements for Water Cooled Screw Chiller with Capacity less than 150TR is 6.0. Hence we request you to kindly accept Minimum COP (At ARI conditions) : 6.0 for Screw Chillers of subject Tender.	
BOQ ITEM NO. 1.0	Chiller	Minimum IPLV (ARI 550/590)- 8.6	As per current ECBC 2017 Guidelines for Super ECBC Building; IPLV requirements for Water Cooled Screw Chiller with Capacity less than 150TR is 7.9. Hence we request you to kindly accept Minimum IPLV (ARI 550/590)- 7.9 for Screw Chillers of subject Tender.	
	1		PROSPECTIVE BIDDER NO: 04	1

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Item Specifications	Chiller			
BOQ ITEM NO. 1.0	Chiller	Minimum COP (At ARI conditions) : 6.4 Minimum IPLV (ARI 550/590)- 8.6	As per ECBC ARI 550/590 conditions acceptable Minimum COP is 4.7 and minimum IPLV 5.49 for Water Cooled Screw Chillers of less than 150 TR capacity. But as per Tender Min COP asked for is 6.4 and IPLV of 8.6 which are far high. Please look at these parameters. York and Carrier has confirmed of not being able to match the requirements. Daikin is Technically out for Twin Screw issue. Please clarify.	
BOQ ITEM NO. 1.0	Chiller	Chilled Water Flow: 264 USGPM (1200 LPM) Nominal	As per the Chiller Selection that is coming for approved makes the Flow for Chiller part is coming in the range of 290 – 300 USGPM. So We will request you to make the Flow requirement for Primary and Secondary Pump in this range only.	
BOQ ITEM NO. 2.0 & 3.0	Primary and Secondary Water Pump	Primary Pump shall be end Suction Type Pump Secondary Pump shall be Vertical In-line close coupled type pump.	For Primary and Condenser Water Pumps the BOQ says we can quote with Centrifugal End Suction with back Pull Out Design but for only Secondary Pumps it is given as Vertical Inline type is required. We will request you to accept all Pumps with End Suction with back Pull out type design as all the manufactures (approved makes) can provide all 3 type of Pumps in that case. We would request you to consider Wilo (Mather & Platt) makes Pumps also.	

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BOQ ITEM NO. 3.0	Secondary Water Pump	Secondary Water Pump	For Secondary Pumps VFD is said to Factory in Built. We will request you to make this as a part of Secondary Pump Controller part along with 2 Nos DPT. Please give your confirmation on this. Also, we will consider IP – 20 rated VFD's with no Harmonic Filters. The VFD will be housed inside the Controller Enclosure which will be IP 55 rated. The pump logic controller assembly shall be manufactured as per standards approved by Underwriter's Laboratory, Inc. (UL). Please confirm.	
BOQ	All Pumps	All Pumps	The Sound Level acceptable for Pumps as per BOQ is 75 DB @ 2 Mtrs distance. Please accept DB level as 80-85 DB @ 2 Mtrs distance.	NIT Condition shall Prevail
Approved Make List		AHU: Zeco/ Edgetech/ VTS Dessicant Unit: DRI / Munter Ventilation Fans: Kruger/ Green Heck/ Nicotra	For AHU/ Desiccant Units/ Ventilation Fans we will request you to consider Crompton (CGL) / Bharaj Bijlee/ make Motors. Please confirm.	NIT Condition shall Prevail
Approved Make List	Filters	Mechmark/ Camfil/ Sterile air	For Filter Section for AHU / Desiccant Units please consider Thermodyne / Spectrum / AAF makes. Please confirm.	NIT Condition shall Prevail
BOQ		The motor shall have efficiency class IE-3 or EFF- 1, whichever is more efficient.	Since Project of Completion period is only 4 Months for all Motors we will request you to accept IE-2 (EEF 1) rated motors instead of IE-3 rated. IE3 rated has 3-4 months' lead time only for dispatch.	
BOQ Item No. 4.0	Condensor Water Pump	412 USGPM , 22 meter head	For Condenser Pumps we feel Capacity of 412 USGPM will be on a Tighter side. It should be around 500 USGPM. Please confirm on this part.	NIT Condition shall Prevail
Approved Make List	Hot Water Pumps	Xylem/ Grundfoss/ Armstrong	For Hot Water Pumps we would like the makes to be same as given for the other major Pumps. Please confirm.	NIT Condition shall Prevail
BOQ item No 6.0	Cooling Tower	CHILLED WATER FLOW: 412 USGPM HEAT REJECTION : 591125 Kcal/hr	For Cooling Tower Design please see that Flow rate of 412 USGPM might not be sufficient along with heat rejection data. Also we will provide VFD as per the specification we have mentioned for Secondary Pump. We will seek approval for Bells / Paharpur makes for this part. Please confirm.	cater the heat rejection from the
BOQ item No 7.0	with Pressurisation Pump	_		PN 16 to be consider. No changes in Makes shall be accepted. Please refere Corrigendum being issued.

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BOQ Item No 9.0	HEAT PUMP FOR HOT WATER REQUIREMENT	Supply, installation, testing and commissioning of Imported Air Cooled Outdoor Heat Pump Unit for the production of Hot Water upto 60°C. Heat Pump shall include dual circuit Scroll Compressor suitable for R 407c / R 410a refrigerant driven by suitable KW squirrel cage induction motor rated for 400± 10% volts, 3 phase , 50 Hz AC supply complete		Please Refer to Corrigendum being issued
BOQ Item No 9.0	Hot water storage tank	1200 Litre Tank	We would also like you to look at the requirement for Hot Water Storage Tank as to us 1200 Ltr Tank is on the higher side. Please clarify.	NIT Condition shall Prevail
Approved Make List	Water Softening Plant	Thermax/ Ion-Exchange/ Pentair	For Water Softening Plant we will request you to approve METCON make.	NIT Condition shall Prevail
Approved Make List	Pre Insulated Pipe	Loyld/ Prima Pipe	For Pre Insulated Pipe please consider ZECO and GP Spiro make. Please confirm.	NIT Condition shall Prevail
BOQ	Chilled Water Pipe		It's a suggestion on our part from our previous experience in working at IIT, Kharagpur for Nalanda Class Room Complex wherein the total Ring of Under Ground piping was done with HDPE pipes and ancillaries. Even after Testing as per Tender requirement we found that there leakage issues and pipes Busted many a times. It will be our suggestion to use Conventional method of using MS Pipes (Heavy) covered with 75 mm thick Thermocole supported by wire mesh and finish with Sand Cement Plaster. We need to place proper support (PUF Blocks) at 3 mtrs interval with proper Sand bedding. Please note that we will not be doing any excavation work/ Filling and Re Filling work/ Trench work/ Foundation work for this part. Its just a suggestion.	
Approved Make List	Devap/ Dessicant AHU		For DEVAP and Desiccant AHU we will like you consider APIDDI make as they were the suppliers for IIT, Kharagpur Project also wherein we have used units of this type 24 nos in total.	
BOQ ITEM NO 1.0, 2.1, 3.1,	DEVAP, DE AHU, AHU	ThecompleteAHUshallconfirmtostandardspecific ation.The face velocity across cooling coil shall be limited to 400 FPM maximum. The capacity of Air- handlers shall be as follows: Total Static pressure given below minimum required for the system. Actual static pressures hall be calculated & confirmed by thevendor at time of Bidding. The unit shall be BMS compatible.		Accepted. Please refer Corrigendum being issued

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and Volume				
BOQ ITEM NO			As per the Tender BOQ FCU's are Floor Mounted type. But till now none of the approved	NIT Condition shall Prevail
4.1.1,4.1.2,		с ,	manufacturers have confirmed that they will provide Floor Mounted units in this range.	
		-	Also FCU with 3 Row Deep coils will be provided with no Heating Coil in them. We will	
		complete with copper pipe connections with	request you to incorporate Waves make AHU and FCU in the approved Make List. Please	
		brass fittings, wiring with 3 pin socket plug, U-	confirm.	
		trap in drain pipe connection near FCU, 3 speed		
		switch , fire retardant double canvas connections		
		, 3/4 row deep chilled water coil , three speed		
		motor , washable filters , 18 G-SS304 Stainless		
		steel drain pan insulated with 13 mm aluminium		
		faced nitrile rubber. Fan coil unit shall be suitable		
		for 220 \pm 10 volts , 50 Hz cycle single phase		
		power supply , maximum RPM of motor shall be		
		960 & Maximum db level not more than 35 db(A)		
		at 1 mtr. distance.		
		1.0 TR cooling Capacity/400 CFM, 3 row deep		
		cooling coil, Floor mounted		
		1.5 TR cooling Capacity/500 CFM, 4 row deep cooling coil, Floor mounted		
BOQ ITEM NO	Chiller Plant Manager	Supply, Installation, Testing and commissioning of	There is mention of Plant Manager in the BOQ. Please clarify what all needs to be	Details IO summary shall be shared to
10.1				successful bidder.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	Reply to the Query
BOQ Item C 2.1	Cabinet Fan	Supply, installation, testing and commissioning of factory fabricated double Skinned cabinet type fans section made out of extruded aluminium section with 1.0 mm pre-plasticized / pre-coated Galvanised steel sheet with DIDW blower, blower section and TEFC motor suitable for operation on 415 volts ± 10%, 50 Hz ± 5% AC supply with motor and belt drive package. The fan Motor shall be of efficiency class IE2 . The blower should be AMCA Certified for air performance and sound rating and should be selected for maximum efficiency. The motor & blower assembly shall be mounted on Aluminium extruded section only. The complete fan section shall conform to standard specification. The fan outlet velocity shall be limited to 9.5 MPS maximumThe maximum sound level of unit shall be 60dB(A) @ 3 m from source		NIT Condition shall Prevail
BOQ Item D 1.0,2.0	Sheet Metal Duct	Sheet Metal Duct	For Ducting please clarify if 120 GSM sheet is acceptable. For 24G Ducts will you accept C&S Joints instead of TDF flanges. Consider GP Spiro/ Zeco/ ECO Duct make for this part.	NIT Condition shall Prevail
Approved Make List	Duct Acoustical Lining	Duct Insulation - Thermobreak/ Torcellene/ Cani Acoustic Insulation - Armacell/ Owen Corning/ K- flex		Accepted. Please refer Corrigendum being issued
Approved Make List	ADP	Johnson/ Honeywell/ Belimo	For ADP please consider Airflow (Mapro) make / Dynacraft make.	NIT Condition shall Prevail
BOQ item NO 16.1	Heat Exchanger		For Heat Exchangers, can you please let us know details as no details is available for us to quote. Also, please confirm makes as Tranter / Alfa Laval.	Please Refer to Corrigendum being issued. NIT conditions shall prevail for makes.

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BOQ Item NO E 1.0	Chiled Water piping	commissioning of following nominal sizes of		
BOQ Item NO E 5.0, 6.0	Balancing Valve		The Balancing Valves will be standard Balancing Valves only with No In Built Measuring possible. For Balancing and NRV Valves please confirm makes as Castle / Advance / Honeywell.	NIT Condition shall Prevail
Approved Make List	Y Strainer	Sant/ Sandhu/ Emerald	For Y Strainers please confirm DS Engineering in the approved Make List.	NIT Condition shall Prevail
Approved Make List	Electrical Panel	Schneider/ ABB/ L&T	For MCC and Other Panels please approve KEPL / SPC/ Adlec for this Project.	NIT Condition shall Prevail
Approved Make List	Cables	KEI/ Universal/ KEC	For Cables please consider makes for Havells/ Gloster etc.	NIT Condition shall Prevail
Approved Make List	Cable Tray	RMCON/ Indiatech/ MEM	For Cable Trays, please confirmation of using standard Local make Products after Sample Certification from Consultant / Client.	NIT Condition shall Prevail
TENDER NOTICE	EMD			Please refer to Notice Inviting Tender Clause NO 8 (a). DD in favour of "Nalanda University" Payable at Rajgir.

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TENDER NOTICE	E-tender Processing Fees	Interested bidders who wish to participate in the tender shall pay Rs. 15,000/ (Rupees Fifteen Thousand only) as e-Tender Processing Fee in favour of Nalanda University, Rajgir, Bihar in the form of Demand Draft of any scheduled bank, a copy of which shall have to be scanned and uploaded to the e-Tendering website before tender submission		Please refer to Notice Inviting Tender Clause NO 8 (c). DD in favour of "Nalanda University" Payable at Rajgir. Corrigendum being issued
TENDER NOTICE	Integrity Agreement			NIT condition shall prevail. Please submit accordingly.
TENDER NOTICE	Eligibility Criteria			
TENDER NOTICE	Similar Work	shall mean "Supply, Installation, Testing and Commissioning of HVAC system including, Chillers, Pumps, Pipes, Heat Pump, AHU's, FCU's and related works complete with SCADA Compatibility etc within a single campus /	Credential (PQ): Supply, Installation, Testing and Commissioning of HVAC system including, Chillers, Pumps, Pipes, Heat Pump, AHU's, FCU's and related works complete with SCADA Compatibility etc. within a single campus / premises of Residential or Non- residential campus, in India, within last seven years Do we need to provide a Certificate wherein we have used at least 70% of the above things or you will evaluate the criteria as the selected Project must have all the above in them. As for example in the present BOQ there is no SCADA compatibility is needed but still you want that as a clause for passing PQ criteria for this Project. Instead of SCADA we can provide Projects wherein we have done BMS and has been commissioned and handed over to the clients and Consultant's satisfaction. Same with Heat Pump. The Heat Pump in this Project is used for generation of hot water which will be required for de humidification purpose and not directly as a major equipment. This Hot Water could have been generated by other means also like by using Hot Water Generators. So, we feel this part can also be considered with leniency and should not be considered as an absolute essentiality to fulfil PQ criteria.	issued.

•	Item Description	As per Bid Document	Prospective Bidder's Queries	Reply to the Query
and Volume				
TENDER NOTICE	GST	GST	GST: For this Tender GST is applicable. But the Price format ED / VAT are there. This will be a SITC Contract and the rate of GST will be 18% flat on every Item. While evaluating purpose should our rates should be inclusive or exclusive of GST for every Item. Please clarify.	152
TENDER NOTICE	LD Clause	Compensation for delay of work @ 1 % 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% (Ten per cent) of the Tendered Value of work		Please refer to NIT Clause 2, Page 83
TENDER NOTICE	Power and Water	Power and Water	Power and Water: From the Tender Document, it is not clear whether Power and Water will be provided at one point and we must distribute the same on our own cost paying for the units as per prescribed rates that we will consume. Or we must bring our Genset throughout the Project and arrange our Power on our own during Erection part. But Testing & Commissioning purpose Free Water and Power needs to be provided at site	137 and Clause 31, Page 122
TENDER NOTICE	Labour Cess	Labour Cess	Labour Cess: Please clarify is Labour Cess will be borne at your end or we must cost for the same.	Please refer to NIT Clause 5.14 (B), Page 153
TENDER NOTICE	Labour Hutment	Labour Hutment	Labour Hutment: Please specify if Labours can stay at site during Erection. Can any space be provided so that we can make arrangement for Labours to stay at site only with minimum amenities available at site.	-
	Storage Space	Storage Space		Space shall be available at Site at Nominal rent as decided by NU. Contractor has to make their own storage space arrangements.
	Civil works	Civil works	Civil and allied Works: We will not be doing any Civil work like Under Ground Trench Work for Pipe and Cables along with Refilling and support requirements. Opening of Walls / Roof Cutting and making it good with proper Water Proofing for Ducts Cables and Pipes routing is also not under our scope. Foundation work for Chiller / Pumps/ AHUs'/etc are also not in our scope of work. Also Fire Sealant job will also not in our scope of work.	water pipe Underground shall be in the scope of the Bidder

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	Scope of Work for AMC	Scope of Work for AMC	AMC: Please clarify if this will be used for Tender evaluation purpose. In the BOQ there is provision for 2 Years only but in Technical Specification need for 5 Years is specified Please clarify. During DLP we will give free Maintenance but no operational support. In the Second Year both Maintenance and Operation will be charged. Now, please clarify then for 1st year of AMC we should give only Operational cost and in the 2nd Year as per BOQ we must give Maintenance and Operation cost both. In both the cases GST will be charged EXTRA. Please clarify if our understanding is correct or not.	the overall evaluation of Price Bid. DLP shall be Operation and Maintenance included. The AMC for 2 years mentioned in the BOQ is for Operation
TENDER NOTICE	АМС	АМС	Scope of Work for AMC: Please clarify the time of operation (12 Hrs or 24 hr) / No or shifts you are looking for / Number of man Power you are looking for in each shift with details Please confirm this part for operational purpose.	
TENDER NOTICE	Arbitration	Arbitration	Arbitration: Any dispute or difference whatsoever arising between the parties of or relating to the construction, meaning or operation or effect of this agreement shall unless resolved amicably, be settled by Arbitration of three arbitrators, one to be appointed by each party and the third arbitrator (who shall act as the presiding arbitrator) to be appointed by the two arbitrators. All proceedings under such Arbitration shall be held in Mumbai and be in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof. It is agreed and understood that the court having jurisdiction over Mumbai alone shall be competent to entertain any application or petition pertaining to the Arbitration Agreement and/or arbitral proceedings pursuant to this clause.	