



KARNATAKA ANTIBIOTICS AND PHARMACEUTICALS LIMITED
BULK DRUG - 7ACA Project



Pre-Bid Queries Dt. 24.03.2023
Tender Ref no : KAPL/BDP/CG/3252

NOTE: This Prebid Queries is part of the tender document and this supercedes the clauses of Tender

Sl. No.	Company Name	Bid Document Ref. No.	Queries Raised	KAPL Clarifications
1	M/s Anilkumar Pant EOY Dt. 22.03.2023		BOQ Efficiency/ Less than 0.60 - Vendor to confirm	Quote to be submitted as per KAPL Tender specifications.
2			BOQ Refrigerant - R134a /R514 /1234 ze/Equivalent BOQ Marine water box - Required - vendor to confirm	Quote to be submitted as per KAPL Tender specifications. Marine water boxes with hinge door arrangement required for condenser and evaporator. Factory fitted VFD is preferred.
3			Technical Data Sheet & BOQ VFD Driven Centrifugal Chiller	Factory fitted VFD is preferred.
4			Technical Data Sheet & BOQ VFD Driven Centrifugal Chiller	Factory fitted VFD is preferred.
5			Technical Data Sheet & BOQ VFD Driven Centrifugal Chiller	Factory fitted VFD is preferred.
6			Technical Data Sheet - 20 compressor section I: motor details Inverted Duty, VFD Driven, IE-3, 2 Pole, TFFC, IP54, Flange Mounted. Tender Document - 2.15.1.8 Page 63	TEFC and TEFC both are acceptable.
7			Performance at varying capacities with constant design condenser fluid temperature includes load test report at 25%, 50%, 75% and 100% conducted at factory and power consumption report KW/TR at varied load conditions (below 40% with ARI relief)	40% is acceptable. Anti-Surge protection to be provided for lower loads.
8			Technical Data Sheet - 20 compressor Make / Type	Whether own make compressor to be considered or 3rd party compressor is acceptable
9			Technical Data Sheet - 21 condenser Condenser tube thickness - vendor to clarify	Request to consider atleast 0.028" tube thickness because the tubes for condenser needs to be cleaned on regular interval hence better tube thickness will have better life of the tube IP 54 not applicable for TEFC (Totally enclosed refrigerant cooled) motor
10			Tender Document - Compressor Page 56 2.4 Compressor Drive Motor: Compressor motor shall be of IP54 enclosure compatible squirrel cage induction type Tender Document - Compressor Page 61 2.11.3 Prepare test report indicating test procedures, instrumentation, test conditions and results. Before shipment of chiller, all records (test certificates) and certifications approving testing requirements shall be submitted to and approved by KAPL. Mere approval by KAPL before shipment shall not be construed as acceptance. Acceptance is subjected to performance of the chiller in final acceptance test (FAT1) that will be carried at our site	Acceptance of the chiller based on site test shall not be applicable because the efficiency & capacity of chiller as per the submitted data sheet is based on the design condition we have received however since the site conditions are constantly varying and there is no control on those conditions the result shall be varying all the time. As required in the tender we shall offer the chiller for factory testing at AHRI certified test lab with AHRI standards & tolerances, over there we can simulate the design conditions.
11			Tender Document - Compressor Page 62 2.12.3 Performance tests: Conduct Capacity/performance test at full load and part load conditions as per standards. KAPL will simulate the designed conditions to the possible extent at site.	Acceptance of the chiller based on site test shall not be applicable because the efficiency & capacity of chiller as per the submitted data sheet is based on the design condition we have received however since the site conditions are constantly varying and there is no control on those conditions the result shall be varying all the time. As required in the tender we shall offer the chiller for factory testing at AHRI certified test lab with AHRI standards & tolerances, over there we can simulate the design conditions.
12				It is acceptable

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13			Earnest money furnished in accordance with GIT clause 17.1 alternatively, documentary evidence as per GIT clause 17.2 for claiming exemption from payment of earnest money. Kindly accept to not consider EMD for the supply of chillers	Not acceptable
14			Certificate of country of origin by the bidder from abroad. (Chamber of commerce). Certificate of origin is available on Company's letter head, as for the Chamber of commerce the documentation part is very time consuming, which might result into delay in custom clearance and hence detention & demurrage. Moreover since there is no duty benefit from the country of origin the chamber of commerce document is not required at the Indian port.	Letter head
15			This warranty shall remain valid for 1 (One) years after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the Purchaser/Consignee in terms of the contract, unless specified otherwise in the SCC	Warranty term applicable will be 18 months from the date of supply or 12 months from the date of commissioning whichever is earlier. This shall be superceding in Page-95 Sr. No. 13 (Defect Liability Period).
16			Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser's destination. Does any duty exemption applicable to the customer?	There is no duty exemption to the customer
17			The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to the purchaser	Refer annexure 3 and no change
18			A sum equivalent to 0.5% (Zero point five percent) of the work value per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 5% (Five percent) of the contract price. Kindly consider as: 0.5% per week upto maximum of 5% for the undelivered material. •For the purposes of this contract, "Force Majeure" includes, but is not limited to, any event that is beyond the control of the affected party, and cannot be avoided or overcome with reasonable care natural disasters (such as fire, flood, storm, explosions, earthquakes, pandemics, epidemics, plagues, etc.), government actions and/or orders whether valid or invalid (such as lockdowns, closures etc.) social disruptions (such as wars, riots, rebellions, labor disputes, strikes, lockouts, acts of terrorism, armed conflicts, etc.). The Force Majeure event affected party shall notify in writing within 14 days of such event and neither party shall be liable for delay in performance or failure to perform the contract due to the Force Majeure event	There is no change in this condition

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19			<p>Over all completion time shall be as mentioned in the Schedule of Fiscal Aspect. The Liquidated Damages (LD) shall be levied at the rate of 0.5% per week maximum being 5% of Total Contract Value, if the work is delayed beyond the stipulated completion time</p> <p>0.5% per week upto maximum of 5% for the undelivered material.</p> <p>•For the purposes of this contract, "Force Majeure" includes, but is not limited to, any event that is beyond the control of the affected party, and cannot be avoided or overcome with reasonable care natural disasters (such as fire, flood, storm, explosions, earthquakes, pandemics, epidemics, plagues, etc.), government actions and/or orders whether valid or invalid (such as lockdowns, closures etc.) social disruptions (such as wars, riots, rebellions, labor disputes, strikes, lockouts, acts of terrorism, armed conflicts, etc.). The Force Majeure event affected party shall notify in writing within 14 days of such event and neither party shall be liable for delay in performance or failure to perform the contract due to the Force Majeure event</p>	<p>LD clause will be as per the tender terms only.</p>
20			<p>Successful bidder shall submit the all-material test certificate before manufacturing starts and approval from both DCPL & KAPL</p> <p>34. During progress of the work, completed portion of the building may be occupied and put to use by the Purchaser. The Supplier shall however remain fully responsible for the maintenance of all the work till the entire work covered by the Supplier is satisfactorily completed and handed over to the Purchaser</p>	<p>This clause is not applicable in case of chiller, as the test certificate of the chiller as an entirety is available after the chiller is tested at factory after manufacturing</p> <p>This is acceptable</p>
21			<p>35. Safe custody of all materials and products supplied by the Supplier shall be his own responsibility till the final taking over by the Purchaser. He should therefore employ sufficient staff for watch and ward at his own expenses.</p>	<p>The Supplier shall be responsible for the maintenance of all the work.</p> <p>In responsibility of the supplier</p>
22			<p>36. He shall also be responsible to ensure that the work is carried out in accordance with Local Bye-Laws in all respects, and to ensure that he obtains all prior sanctions from all the Competent Local Authorities before he takes up the work. If, as a result of his failure to do so, in spite of the works having been carried out as per the drawings and instruction issued by the Consultant and /or the Purchaser, and/or in the presence of the representative(s) of the Consultant / Purchaser, the Supplier himself shall be solely responsible and if so directed, dismantle and reconstruct at his own cost the work/item(s) of work as per such directions. No claims in this regard will be entertained</p>	<p>Ignored</p>
23			<p>41. The Supplier shall also include in his quoted rate barricading / fencing of construction activity area. All materials, fabrication yards, stores, manpower are to be contained within the barricaded area. The Supplier shall not be allowed to extend his activities beyond this area</p>	<p>Not Applicable</p>
24			<p>Supplier shall provide option for client (KAPL representative) to witness the testing at manufacturers end (Travelling expenses and accommodation for witnessing performance tests in KAPL scope).</p>	<p>All chillers testing shall be witnessed by KAPL/DCPL. 4 persons shall be deputed from KAPL/DCPL, whereas the travel charges shall be borne by KAPL. The boarding and lodging to be provided by the supplier.</p>
25			<p>Our understanding of scope of the supplier :</p> <p>Manufacturing of chiller at factory, FAT of chiller at factory, Supply of chiller till Nhava Sheva port, port clearance & local transportation till site, supply of local components like Refrigerant insulation at site. And commissioning of chiller.</p> <p>Exclusion: Unloading of chiller at site, any type of civil work, any type of electrical work, any type of lowside work like piping, ducting, etc.</p>	<p>Only Civil works, electrical cable work upto control panel shall be done by KAPL and the remaining scope of work is in part of the suppliers scope. Piping and ducting work is excluded from suppliers scope of work</p>
26			<p>Tender Document - Scope of work Page 51 - SCC</p>	



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27	M/s KIRLOSKAR CHILLERS PRIVATE LIMITED EQY Dt: 23.03.2023	SECTION - V GENERAL CONDITIONS OF CONTRACT (GCC)/ 7. Packing and Marking 7.1 / The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract	Packing as per OEM standards should be acceptable. Normally Chillers covered with Tarpaulin Covers, which is adequate for transportation and storage.	It is acceptable, however delivery of the material, unloading, erection and commissioning shall be responsibility of the vendor. The Intactness of the machinery is the responsibility of the vendor. If any damages the repairing cost shall be borne by the vendor.
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28		SECTION - V GENERAL CONDITIONS OF CONTRACT (GCC)/13. Incidental services 13.1 / • Providing required jigs and tools for assembly, minor civil works required for the completion of the installation	All Civil works should in KAPL scope.	It is acceptable
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29		SECTION - V GENERAL CONDITIONS OF CONTRACT (GCC)/15. Warranty 15.2 This warranty shall remain valid for 1 (One) years after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the Purchaser/Consignee in terms of the contract, unless specified otherwise in the SCC	There should an Interlock for warranty period i.e 12 Months from the date of commissioning OR 18 Months from the date of supply whichever is earlier.	The warranty period will be valid for 12 months from the date of commissioning or 18 months from the date of supply which ever is later.
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30		SECTION - V GENERAL CONDITIONS OF CONTRACT (GCC)/18. Modification of contract 18.1. If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following: a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser.	Since this is a tendered item, changes post tender submission shall not be applicable.	No, Changes post tender shall not be accepted after opening of the price bid.
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31		SECTION - VI SPECIAL CONDITIONS OF CONTRACT (SCC)/2. COMPLETION TIME & LIQUIDATED DAMAGES Over all completion time shall be as mentioned in the Schedule of Fiscal Aspect	Delivery Period is not mentioned. Please provide the same.	Delivery period is 8 months from the date of PO/DOI.
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32		SECTION - VI SPECIAL CONDITIONS OF CONTRACT (SCC)/7. WATER AND ELECTRICITY FOR CONSTRUCTIONS The electricity, if available at site will be provided to the Supplier at a single point free of cost. The Supplier shall pay the Purchaser at the prices stated. The quantities consumed shall be determined by the Purchaser, who shall include the amounts due as deductions in Interim and final payment certificates. The Supplier shall, at his risk and cost, provide any apparatus necessary for such determination and for his use of these services. The Supplier should make his own arrangements for the providing back up power supply (like D.G sets of required capacity) during the work.	Electricity as and when required shall be provided by KAPL. Any back up power supply like DG sets if required shall be provided by KAPL.	For commissioning KAPL shall provide the electrical supply free of cost. During construction, if power is required it will be provided on chargeable basis.
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33		SECTION - VI SPECIAL CONDITIONS OF CONTRACT (SCC)/15. ESCALATION The rates of Supplier shall remain fixed till the completion and NO price variation on account of any increase in taxes, duties or any other reason, whatsoever, shall be payable. It is clarified that No escalation clause is applicable for this contract	Present GST is 18%, any variation shall be applicable. Any other new taxes/ duties if imposed shall be applicable.	It is Acceptable
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34		SECTION - VI SPECIAL CONDITIONS OF CONTRACT (SCC)/21. TECHNICAL APPROVALS / PAYMENT CERTIFICATE 21.3 Successful bidder shall submit the all-material test certificate before manufacturing starts and approval from both DOPL & KAPL. SECTION - VI SPECIAL CONDITIONS OF CONTRACT (SCC)/ 42. Electricity, if available at site will be provided to the Supplier at a single point free of cost. The Supplier should make his own arrangements for the providing back up power supply (like D.G sets of required capacity) during the work.	Chiller GAD, TDS, Wiring diagram shall be submitted post order for approval and shall be manufactured accordingly. Related test certificates shall be provided at the time of supply. Electricity as and when required shall be provided by KAPL. Any back up power supply like DG sets if required shall be provided by KAPL.	It is acceptable For commissioning KAPL shall provide the electrical supply free of cost. During construction if power is required it will be provided on chargeable basis. Any backup power like DG will not be provided during construction or erection stage by KAPL.
35		SECTION - VI SPECIAL CONDITIONS OF CONTRACT (SCC)/ 47. Advance Bank Guarantee The validity of the Bank guarantee shall be entire duration of the project and to be extended on the request of KAPL or until the advances are recovered	Advance Bank Guarantee shall be valid till delivery period. And other payment terms to be cleared	A. Performance Security/Security Deposit: Within thirty (30) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days beyond the date of successful commissioning and certification. B. Annexure-III, Sl.No-4, I. ABG/Advance Bank Guarantee) 15 % advance against ABG will be valid till vendor delivers the goods at KAPL site and to be extended on the request of KAPL. C. Performance Bank Guarantee/PBGL Release of final 10% payment shall be made against submission of 10% PBG valid for 1 year from the date of commissioning and successful handing over to KAPL.
36		SECTION VII SCOPE OF WORK/1. Scope of Vendor 41.5 V, 3ph,50 Hz drive motors with necessary auxiliaries but excluding motor starters and main cable up to motor	Please clarify on scope of starter for chiller.	In Vendor Scope
37		SECTION VII SCOPE OF WORK/1. Scope of Vendor Integration of chiller unit with BAS system for operation & monitoring is under Supplier's scope	Necessary provision for BAS integration shall be provided in the Chiller Panel and mapping address shall be provided. Further integration shall be in KAPL scope.	Further Integration shall be in KAPL scope
38		SECTION VII SCOPE OF WORK/1. Scope of Vendor Marine box to be provide at evaporator & condenser for easy cleaning of the tubes without disturbing piping connections.	Normally only Condenser tubes are prone for scale formation / cleaning. Do we need to provide Marine Water Box for Evaporator also.	Marine water boxes with hinge door arrangement required for condensor and evaporator.
39		SECTION VII SCOPE OF WORK/1. Scope of Vendor 4. Spare required for two years 's continuous trouble-free operation and maintenance of the equipment	Should we provide the spares list separately	Yes, Separate list of spares to be provided in the price bid along with prices of the items (as a optional)
40		SECTION VII SCOPE OF WORK/SECTION - VIII TECHNICAL SPECIFICATIONS General: Bidders are requested to make sure that they should attach the list of equipments for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyser / Tester for Process equipments to periodically check the electrical safety aspects as per BIS Safety Standards IS-13540 which is also equivalent to IEC electrical safety standard IEC-60601 is a part of the equipments. If the Electrical Safety Analyser/Tester is not available they should provide a commitment to get the equipments checked for electrical safety compliance with Electronic Regional Test Labs / Electronics Test and Development Centres across the country during warranty period.	Please clarify the requirement, normally such tests are not carried out for chiller panels.	It is acceptable
41		SECTION VII SCOPE OF WORK/SECTION - VIII/ 2.10 Noise and vibration requirements	Flexible rubber bellows shall be supplied loose by us and same has to be installed by the respective piping vendor, as it is a pipeline fitting.	It is acceptable
42		2.10.4 Flexible pipe connectors (otherwise called as flexible rubber expansion joints) shall be installed at both inlet and outlet connections of chiller and condenser/Evaporator, to prevent vibration transmission from the unit to the piping.		

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43		SECTION VII SCOPE OF WORK/SECTION – VIII/2.16 Warranty 2.16.2 Warranty period: One year from the date of FAC	There should an interlock for warranty period 1e 12 Months from the date of commissioning OR 18 Months from the date of supply whichever is earlier.	The warranty period will be valid for 12 months from the date of commissioning or 18 months from the date of supply which ever is later.
44		SECTION – X TENDER FORM NOTE: One Unpriced tender form to be enclosed with Technical Bid & One Priced tender form to be enclosed with Price Bid SECTION – XI PRICE SCHEDULE Note: - 1. Vendor should consider all necessary inter connecting piping, valves, fittings etc as specified in datasheet & schematics SECTION – XVIII CHECKLIST d Have you enclosed tender fee as prescribed in TE document? Section XXI 13. Defects Liability Period : 24 months from the date of completion of work	Please clarify for submission suitably As per the BOQ the scope is only for chillers. Any other inter connecting piping valves, fittings etc required shall be in KAPL scope. Tender fee is not applicable, as mentioned in General Instructions of the tender, please confirm. DLP / Warranty period is mentioned as One year from date of FAC. Also there should an interlock for warranty period from the date of commissioning OR date of supply whichever is earlier.	It is acceptable It is acceptable No tender fees is required to be paid.
45		Annexure -III-Price-Schedule /1 Machine mounted starter panel with VFD, water cooled condenser, insulated chiller flows with chiller and condenser, vibration isolators, integral refrigerant piping and wiring, BMS Interface unit (Modbus/Banai), grooved coupling for condenser and cooler water inlet and outlet connection, complete charge of refrigerant and oil. Annexure-III-Price-Schedule /1.3 Vendor must provide junction box along with each set of unit including cable works from junction box to chiller. Drawing-Chiller Room	For Centrifugal Chiller the Starter Panel shall be free standing, as the size is large to accommodate on the unit and also from maintenance point of view. Request to accept the same.	It is acceptable
46		Section XXI 13. Defects Liability Period : 24 months from the date of completion of work	Tender fee is not applicable, as mentioned in General Instructions of the tender, please confirm.	No tender fees is required to be paid.
47		Annexure -III-Price-Schedule /1 Machine mounted starter panel with VFD, water cooled condenser, insulated chiller flows with chiller and condenser, vibration isolators, integral refrigerant piping and wiring, BMS Interface unit (Modbus/Banai), grooved coupling for condenser and cooler water inlet and outlet connection, complete charge of refrigerant and oil. Annexure-III-Price-Schedule /1.3 Vendor must provide junction box along with each set of unit including cable works from junction box to chiller. Drawing-Chiller Room	Chiller starter panel is compatible for termination of either Aluminium OR Copper cable. Separate Junction / Adapter box is not required. Please confirm the plant room location	If the chiller starter panel is compatible with aluminium cable no junction box is required and. If not compatible junction box has to be provided. The plant layout is attached. The location of the chillers is in the ground floor. NPLV testing can be performed during FAT.
48		Annexure -III-Price-Schedule /1.3 Vendor must provide junction box along with each set of unit including cable works from junction box to chiller. Drawing-Chiller Room	Chiller starter panel is compatible for termination of either Aluminium OR Copper cable. Separate Junction / Adapter box is not required. Please confirm the plant room location	If the chiller starter panel is compatible with aluminium cable no junction box is required and. If not compatible junction box has to be provided. The plant layout is attached. The location of the chillers is in the ground floor. NPLV testing can be performed during FAT.
49		Annexure -III-Price-Schedule /1.3 Vendor must provide junction box along with each set of unit including cable works from junction box to chiller. Drawing-Chiller Room	Chiller starter panel is compatible for termination of either Aluminium OR Copper cable. Separate Junction / Adapter box is not required. Please confirm the plant room location	If the chiller starter panel is compatible with aluminium cable no junction box is required and. If not compatible junction box has to be provided. The plant layout is attached. The location of the chillers is in the ground floor. NPLV testing can be performed during FAT.
50		Annexure -III-Price-Schedule /1.3 Vendor must provide junction box along with each set of unit including cable works from junction box to chiller. Drawing-Chiller Room	Chiller starter panel is compatible for termination of either Aluminium OR Copper cable. Separate Junction / Adapter box is not required. Please confirm the plant room location	If the chiller starter panel is compatible with aluminium cable no junction box is required and. If not compatible junction box has to be provided. The plant layout is attached. The location of the chillers is in the ground floor. NPLV testing can be performed during FAT.
51	M/s Pioneer Aircon EOY Dt: 23.03.2023	Sr. No. 2.11.2.	It is not possible to show the NPLV in performance test of chiller so kindly remove the NPLV criteria from factory testing.	As per the KAPL tender document
52		Refrigerant	In Technical data sheet the approved refrigerant is R134a / R514/ R1234 ze. It is observed that the R514 refrigerant is not most popular refrigerant in India being a negative pressure refrigerant and the maintenance time is very high in case of leakage. Hence kindly remove the same. Also as per ASHRAE standard 34 classes R514A as a "B1" refrigerant, meaning that it is not flammable, but is classed as having higher toxicity so this is not good for health & being Pharma application it is not recommended. Kindly remove the same. In Tender document somewhere mention 12 months from the completion certificate but in same tender file DLP mention 24 months from the date of completion of work. Please clarify. It is not mentioned in the Tender document hence kindly confirm	The warranty period will be valid for 12 months from the date of commissioning or 18 months from the date of supply which ever is later. It is mentioned in Annexure-III of the tender document Less than 85 dba from 1 meter distance
53		Warranty clause: Payment Terms:	In Technical data sheet, it is mentioned 80 dba from 1 meter distance and in tender specification, it is mentioned < 85 dba from 1 meter distance so please amend the same with < 85 dba sound pressure level from 1 meter distance. In Technical data sheet, it is mentioned Trane OEM make, kindly remove the specific make of Chiller OEM. Please amend the same.	Can give any equivalent make and to be specified in the technical bid document Experience in screw compressor chillers/ HVAC is not acceptable. Centrifugal refrigeration chillers completion certificates/ PO to be furnished in the Technical bid document
54		Warranty clause: Payment Terms:	In Technical data sheet, it is mentioned 80 dba from 1 meter distance and in tender specification, it is mentioned < 85 dba from 1 meter distance so please amend the same with < 85 dba sound pressure level from 1 meter distance. In Technical data sheet, it is mentioned Trane OEM make, kindly remove the specific make of Chiller OEM. Please amend the same.	Can give any equivalent make and to be specified in the technical bid document Experience in screw compressor chillers/ HVAC is not acceptable. Centrifugal refrigeration chillers completion certificates/ PO to be furnished in the Technical bid document
55		Sound Pressure Level: Temperature sensors:	In Technical data sheet, it is mentioned 80 dba from 1 meter distance and in tender specification, it is mentioned < 85 dba from 1 meter distance so please amend the same with < 85 dba sound pressure level from 1 meter distance. In Technical data sheet, it is mentioned Trane OEM make, kindly remove the specific make of Chiller OEM. Please amend the same.	Can give any equivalent make and to be specified in the technical bid document Experience in screw compressor chillers/ HVAC is not acceptable. Centrifugal refrigeration chillers completion certificates/ PO to be furnished in the Technical bid document
56		Temperature sensors:	In Technical data sheet, it is mentioned 80 dba from 1 meter distance and in tender specification, it is mentioned < 85 dba from 1 meter distance so please amend the same with < 85 dba sound pressure level from 1 meter distance. In Technical data sheet, it is mentioned Trane OEM make, kindly remove the specific make of Chiller OEM. Please amend the same.	Can give any equivalent make and to be specified in the technical bid document Experience in screw compressor chillers/ HVAC is not acceptable. Centrifugal refrigeration chillers completion certificates/ PO to be furnished in the Technical bid document
57		In Qualification Criteria:	There is mentioned completion certificates/PO of Similar work is required. In that case please consider the completion certificates/PO of total HVAC work with screw compressor chillers as well instead of similar work. As per Manufacture Authorization Form, OEM can authorize only Dealer/Vendor to participate in Tender. We request to remove this point to increase participation in tender.	As per tender document
58	M/s Dairin Airconditioning India Pvt Ltd EOY Dt: 23.03.2023	SECTION XIII MANUFACTURER'S AUTHORIZATION FORM (Page no. 75):	In Technical Datasheet, condenser Pressure Drop is limited to 2.5 meter, which is not achievable, kindly amend the same with 10 meter maximum	Pressure drop is limited to maximum of 5 meters.
59		Technical Datasheet - Condenser Pressure Drop:	In Technical Datasheet, condenser Pressure Drop is limited to 2.5 meter, which is not achievable, kindly amend the same with 10 meter maximum	Pressure drop is limited to maximum of 5 meters.

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Pre-Bid Queries Dt. 24.03.2023
 Tender Ref no : KAPL/BDP/CG/3253

Centrifugal Water Cooled Chiller

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Sl. No.	Company Name	Bid Document Ref. No.	Queries Raised	KAPL Clarifications
60	Trane Technologies - Bangalore	Technical Datasheet LCD with Key Pad:	Kindly Incorporate LED Touch Screen as well.	It is acceptable.
61	Daikin Air Conditioners Climaveneta	Technical Datasheet- Approved Refrigerant R-134a, R-514a, R-12342e:	In approved Refrigerant, there is R-514a refrigerant which is classified in ASHRAE Standard 34 (Safety Group) as B1 category, which have Highly Toxicity nature with on OEL (Occupational Exposure Limit) of 323 ppm approx R-614a is a Low Pressure Refrigerant, lead time of rectifying defect is vary high. This is not an refrigerant alliations using this refrigerant facing issues. Most of the manufacturer's manufacturing Chillers with R-134a refrigerant. Alternate refrigerant R-1234ze is also there which is classified in A2L category. In that case, please remove B1 Category refrigerant i.e. R-514a. ASHRAE Standard 34 classification is attached for reference	As per tender document

***** Please add signatories**

List of Vendor present for Pre-Bid Queries

Trane Technologies - Bangalore	Anil Kumar Pant
Daikin Air Conditioners	Hendira and Vikram
Climaveneta	Suraj
Krioskar	Jagdish

(Signature)
 Yeshwirth Rao
 (E - Microbiology)

(Signature)
 Somnath Datta
 (AGM - Bulk Drug Project)

(Signature)
 B.P. Rajan
 (GM - Technical Bulk Project)

(Signature)
 Goutam SIS
 (AM - QA)

(Signature)
 Jagadish Chandrajashakar
 (DGM - Finance)

(Signature)
 Shaanish Kumar
 (GM - Bulk Project)

(Signature)
 Kanak Banot
 (SM - Purchase)

(Signature)
 N C Maheshia
 (DGM-FD)

K P Rajan
 KAPL - Consultant

(Signature)
 B Ramesh
 (AGM - Finance)

(Signature)
 Supriya Kulkarni
 DGM - ADM & ...

DCPL
 KAPL - Consultant