

TAMILNADU INDUSTRIAL DEVELOPMENT CORPORATION LIMITED

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING MEP WORKS (ELECTRICAL HT/LT, DG SET, LIFT, HVAC & ELV) OF FINTECH TOWER AT FINTECH CITY IN NANDAMBAKKAM VILLAGE, ALANDUR TALUK, CHENNAI DISTRICT

Response /Clarification to the queries

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
1	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	<p><u>Tender Clause:</u> WATER-COOLED CHILLERS - Supply, Installations, testing, erection, and commissioning of WATER-COOLED CENTRIFUGAL CHILLERS</p> <p><u>Query:</u> Being a pioneer in Indian HVAC industry with latest technology & with unique featured chillers in portfolio (screw, centrifugal) which are manufactured with "MAKE IN INDIA" concept, we request you to approve AHRI certified "BLUE STAR" make chillers which complies all ISHRAE/ASHRAE/ECBC/BEE standards. We also offer chiller testing in INDIA with our own Sophisticated AHRI certified test bed to our customers.</p>	Tender conditions shall prevail.
2	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	<p><u>Tender Clause:</u> WATER COOLED CHILLERS -Supply, Installations, testing, erection, and commissioning of WATER-COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD</p> <p><u>Query:</u> Since Active harmonic filter is not a part of OEM supply, we shall supply these standalone filters from reputed third party and shall be installed at site., hence request you to clarify on the same.</p>	Please refer Corrigendum - 3 issued with this document
3	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	<p><u>Tender Clause:</u> WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER-COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant cooled as per OEM standard)</p> <p><u>Query:</u> We understand that Refrigerant cooled motor does not come under any efficiency classification. Kindly clarify</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
4	SECTION VII- TECHNICAL SPECIFICATIONS - HVAC SYSTEM WORKS, 3.3.5.1 AUTOMATIC TUBE CLEANING SYSTEM, PAGE 33 OF 129	Tender Clause: It has to be factory fitted on chiller (Mandatory). Filed supply ATC shall not be Acceptable Query: Since Automatic Tube Cleaning System is not a part of OEM supply, we shall supply these stands alone from reputed third party and shall be installed at site., hence request you to clarify on the same.	Please refer Corrigendum - 2 issued with this document.
5	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	Tender Clause: WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER-COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant cooled Query: Can we consider VFD with Air-Cooled type as per OEM? We request you to confirm on the same.	Please refer Corrigendum - 3 issued with this document.
6	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 622	Tender Clause: AIR COOLED CHILLER - Design, Supply, installation, testing and commissioning of Air COOLED SCREW CHILLER . - multiple screw compressors,..... Query: Being a pioneer in Indian HVAC industry with latest technology & with unique featured chillers in portfolio (screw, centrifugal) which are manufactured with "MAKE IN INDIA" concept , we request you to approve AHRI certified "BLUE STAR" make chillers which complies all ISHRAE/ASHRAE/ECBC/BEE standards. We also offer chiller testing in INDIA with our own Sophisticated AHRI certified test bed to our customers.	Tender conditions shall prevail.
7	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 622	Tender Clause: AIR COOLED CHILLER - Design, Supply, installation, testing and commissioning of Air COOLED SCREW CHILLER. - multiple screw compressors, energy efficient IE4 motor, Air cooled condenser, flow switch at chiller , spring vibration isolators, integral refrigerant piping and wiring,..... Query: We understand that Refrigerant cooled motor doesn't come under any efficiency classification. Kindly clarify	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
8	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 622	<p>Tender Clause: AIR COOLED CHILLER - Design, Supply, installation, testing and commissioning of Air COOLED SCREW CHILLER . - multiple screw compressors, energy efficient IE4 motor, Air cooled condenser, flow switch at chiller , spring vibration isolators, integral refrigerant piping and wiring, grooved couplings at chilled water inlets & outlets, accessories as required and called for, automatic and safety controls mounted in central console panel and all mounted on a steel frame etc. Motor shall be suitable for operating on 415±10% 50 cycles. 3 phase AC supply.</p> <p>Query: We pre-assume that the BOQ shall supersedes other documents and in line with BOQ we shall quote star-delta starter type chiller for Air-cooled Screw. Pls confirm.</p>	Please refer Corrigendum - 3 issued with this document.
9	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 634	<p>Tender Clause: Supply, installation testing & commissioning EUROVENT CERTIFIED Horizontal / vertical floor mount Air handling units having following specifications. Frame Structure consisting of 45mm Extruded Aluminium Thermal break profile Panel: 45mm +/- 2mm thick double skin sandwich panels with Puff insulation of density 48 kg/cum , The sheet thickness shall be minimum 0.8 mm for the outer skin and 0.8 mm thickness for the inner skin of GI . Filtration Section shall be provided with 2 stage washable type of 'MERV8 ' first stage and 'MERV13' final stage.....</p> <p>Query: MERV 13 Filter shall be draw through type arrangement and mounted with pre filter on common filter Frame. Kindly confirm.</p>	Please refer Corrigendum - 3 issued with this document.
10	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 649 & 660	<p>Tender Clause: CHILLED WATER CASSETTES along with Chilled Water Valve package consisting of Ball valve with and without strainer and PIBCV self dynamic balancing cum control valve for CHW flow control and all accessories required shall be part of scope. MS to Copper connectors required to connect from the main CHW MS pipeline before connecting to unit. Digital wireless remote shall be part of scope. Factory assembled valve station of Linear Characteristic PICV as per required dia with PT port & diaphragm, Test Point, Filter Ball Valve & Bypass Valve arrangement with Insulation Kit & Modulating Electromotive Actuator (Non Spring Return) with BMS Compatible.....</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Query: As valve package for FCU are being supplied by FCU OEMs, make of valve package will be as per OEM standard. Please approve</p>	
11	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 733	<p>Tender Clause: Design, Supply, Installation, testing and commissioning of Pre-insulated Flow Control Valve - Pressure independent type with Dynamic Balancing Cum 2 Way modulating valves (with RPUF material similar to CHW pipe insulation specifications) for AHUs with actuator in a single Unit of Valve provided with spring return function. The valve shall be suitable for standalone operation. Valve shall be of PN16 Rating.</p> <p>Query: Can we consider non spring return type actuator for PIBCV. Please confirm</p>	Tender conditions shall prevail.
12	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 812	<p>Tender Clause: BTU METER AND TENNANT BILLING SYSTEM Supply, installation, testing and commissioning of BTU Meter - to measure the HVAC Consumption Purpose. The Unit shall include an Heat Meter Integrator, Ultrasonic type Flow meter, matched pair of Temperature Sensors (along with the protection pockets).The Integrators shall be capable of communicating on a communication bus to the BMS on one of Standard Open Protocols such as MODBUS / LON etc</p> <p>a) Inline Flow Meter, b) Match Pair Sensors c) Heat Integrator d) Minimum 4 Data / Meter to Master Controller - T1 / T2 / Flow / KWH - with 2 mtr 2C shielded communication cable</p> <p>Query: Can we consider Immersion type BTU meters for sizes 100mm and above. Below sizes shall be inline type, Please confirm</p>	Tender conditions shall prevail.
13	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 812	<p>Tender Clause: BTU METER AND TENNANT BILLING SYSTEM Supply, installation, testing and commissioning of BTU Meter - to measure the HVAC Consumption Purpose. The Unit shall include an Heat Meter Integrator, Ultrasonic type Flow meter, matched pair of Temperature Sensors (along with the protection pockets). The</p>	<p>a) Tenant billing software is part of BMS works. b) It is part of scope of works. Please Refer Section IX Schedule A: Bill of Quantities Sl. No 1154</p>

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Integrator shall have Battery backup for 12 years, Data Logging for 15 years, 230V AC power supply provision, 8 Digit LCD Display The Unit should be capable of displaying the CHW Flow Rate, BTU / Hr, KWH, CHW Temperature. The Unit shall be with IP55 grade of protection (Maximum Pressure drop across BTU meter 0.2 WC) The BTU Meter shall be MID approved In-Line Flange Connection type . The Integrators shall be capable of communicating on a communication bus to the BMS on one of Standard Open Protocols such as MODBUS / LON etc</p> <p>a) Inline Flow Meter, b) Match Pair Sensors c) Heat Integrator d) Minimum 4 Data / Meter to Master Contoroller - T1 / T2 / Flow / KWH - with 2 mtr 2C shielded communication cable</p> <p>Query: a) As mentioned in BOQ, we will quote only for SITC of BTU meters. Any requirement of tenant billing software b) BMS ancillary works is not in our scope of works, pls confirm.</p>	
14	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 861	<p>Tender Clause: SHEET METAL DUCTING Supply, installation balancing and commisssioning of factroy fabricated GSS sheet metal rectangular/ round duct complete with neoprene rubber gaskets, elbows, spliter dampers, vanes, hangers suppots, etc. As per approved drawings and specifications of follwing sheet thickness complete as required. Duct pressure test to be considered (0-500 Psi) with necessary supporting materials part of this item (Vendor need to be submit detailed report before applying insulation. Third party air balancing to be considered part of this item.</p> <p>Query: Please confirm the following a) Can we consider TDF / TDS flanges for all Airconditioning ducting. b) Can we consider conventional(Thread rod with Slotted rail) supports.</p>	<p>a) Please refer Corrigendum - 3 issued with this document. b) Tender condition shall prevail. Please refer Section VII Technical Specification HVAC Works Clause 10.3 Duct Construction</p>
15	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 899	<p>Tender Clause: Supply, installation, testing and commissioning of UL555 Listed and certified classified dynamic rated combination fire smoke damper. Damper shall be Multi-blade type damper with 180 minutes fire rating. Damper construction shall include 16 gauge galvanized steel</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		frames and blades, Resettable reusable link, SS jamb seals and axle bearings, Silicon blade seals, steel axle. Blade type shall be 3V or Airfoil type. UL 555S Leakage Rating Leakage Class: I All dampers shall bear the AMCA Certified Ratings Program seal for Air Performance. Query: Can we consider CBRI certified Fire dampers. Please confirm	
16	GENERAL	Query: We request you to kindly approve the CPRI approved panel manufacturers for Electrical Panels	Tender condition shall prevail. Please refer Section VI- Electrical System Works Approved Make List for Electrical Panels
17	GENERAL	Query: We presume all civil works such as PCC/RCC civil foundations/Pipe pedestal for HVAC WORKS shall be carried out by Civil Vendor / others including breaking/ finishing of walls for the passage of pipes, cables, ducts etc. Please confirm	Yes. However, minor civil works such as wall chasing, making holes, etc. if required for installation and making good shall be done by the Contractor in coordination with the civil contractor with the approval of PMC/Employer.
18	SECTION VI- LIST OF APPROVED MAKES- HVAC SYSTEM WORKS S NO 38 PAGE 19 OF 35	Tender Clause: Air Terminal / Distribution Devices - Grilles, Diffusers, Dampers & Louvers 1.Caryaire 2.Air Master 3.Systemair 4.Cosmic 5.titus Query: For better Delivery, lead time and price competitiveness we request you to add following makes to the approved list of makes Air Terminal- Cosmic	Tender conditions shall prevail. The make is already available in Section VI- List of Approved Makes - HVAC System Works
19	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 2	Tender Clause: 11 KV Ring Main Gear (RMG) - OutdoorType Design, Manufacture, Assembly, Inspection and Testing before supply, Packing and delivery at Site ,erection, Installation, Testing & commissioning of 11KV HT switchgear with all accessories and suitable for installation in three phase, three wire,11kV,50Hz, A.C. distribution network, complete with all accessories erected in the provided foundation complete as per specification and standards as directed by Project Officer's in charge at Site.	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Outdoor Type , 11kV HT Ring Main Gear , With Incomer 2nos.LBS of rating 630A as incomer and 1no of 630A ,26.2kA,3sec rating Horizontal Draw out type VCB as outgoing including metering arrangements (AS PER TANGEDCO NORMS). The panel suitable for outdoor mounting & terminating of 300 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 3002797 as incoming and outgoing etc, complete as directed and approved by Project Officer's in charge.</p> <p>Please refer Power Single line Diagram and Technical specifications for protections and relays. Inbuilt battery backup needs to be considered.</p> <p>Note: Metering and Protection should be supplied as per TANGEDCO Requirements and Vendor should procure the RMG as per latest amendment from TANGEDCO, no additional payment shall be provided from client.</p> <p>Query: We understand that trivector meter mentioned in this panel will be supplied by TNEB, Please Confirm</p>	
20	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 8	<p>Tender Clause: Charges towards digging, excavation of normal soil to a depth of 1200mm x 600mm width and refilling the same after completion of works.</p> <p>Query: In BOQ Sno.8 excavation for100 Mtrs is shown & also in BOQ SNo.13 excavation for 200 Mtrs is specified,Please clarify whether to consider civil works in both the line items or in any particular line item only</p>	Please refer Corrigendum - 3 issued with this document.
21	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 15	<p>Tender Clause: Supply, Installation, Testing & commissioning of indoor cable end termination with heat shrinkable joining kit with all accessories including lugs suitable for 240-300 sq.mm. 3 core HT Cable Indoor Terminations XLPE 11KV (E) - EPKT 3121etc, complete as directed by Project Officer's in charge.</p> <p>Query: Only indoor cable terminations are required as per the actual requirement, where as in BOQ both indoor & outdoor type cable terminations are given, Please Clarify</p>	Tender conditions shall prevail. Outdoor kits are required for connections from the RMG panel to HT Panel-1 and from HT Panel-1 to HT Panel-2.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
22	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 20	<p>Tender Clause: Only the Main LT panel shall be fully comply to IEC 61439 part 1 & 2 of type tested assembly (TTA) . All other panels shall be partially type tested (PTTA) as per IEC60439. Any details indicated in SLD and specification is also need to be considered for panel cost. Any details indicated in SLD and specification is also needs to be considered for panel cost. All VFDs shall comply with IEC 61800-3 & have THD less than 5%. which will be in scope of Drive authorized supplier of OEM as per list of approved make. Note : Refer the SLD - TCE.12824A-EL-4001-AU-40011 to TCE.12824A-EL-4001-AU-40013</p> <p>Query: As per the BOQ, Only Main LT Panel to be considered as per IEC 61439 (TTA) & All other panels as per IEC 60439 (PTTA), Where as in the Makes List S.No.4 of Pg No.2 mentioned OEM panels to be considered for LT Panels IEC 60439 (PTTA). Please confirm shall we proceed with authorised channel partners of OEM for LT Panels IEC 60439 (PTTA).</p>	Please refer Corrigendum - 2 issued with this document.
23	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 69, 79, 87 & 95	<p>Tender Clause: 69.RISING MAIN - Supply, transport to site, unloading, storing, Installation with all necessary supports, testing & commissioning of Sandwich Maintenance free Rising main with Tap off provision to be made in every 0.75 Mtr/1Mtr with Copper conductors Indoor type, dust and vermin proof. System-415V, 3Phase,..... BUSDUCTS 79.Supply, transport to site, unloading, storing, Installation with all necessary supports, testing & commissioning of Sandwich Maintenance free busduct with Copper conductors Indoor/Outdoor type, dust and vermin proof transformer/switchgear ends & necessary locations as directed at the site from floor,..... 87.Supply, transport to site, unloading, storing, Installation with all necessary supports, testing & commissioning of Sandwich Maintenance free busduct with Copper conductors Indoor/Outdoor type, dust and vermin proof</p> <p>95.Supply, transport to site, unloading, storing, Installation with all necessary supports, testing & commissioning of Sandwich Maintenance free busduct with Copper conductors Indoor/Outdoor type, dust and vermin proof transformer/switchgear</p> <p>Query: IP-55 mentioned for Indoor Type in BOQ, Please confirm shall we consider IP-54</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
24	GENERAL	Query: Please confirm shall we consider IP 42 for all indoor LT Panels	Tender conditions shall prevail. This is already covered in Section IX - Schedule A: Bill of Quantities No. 18
25	GENERAL	Query: Please confirm the order of precedence to be considered for tender documents	Please refer Corrigendum - 2 issued with this document.
26	SECTION VI- LIST OF APPROVED MAKES- ELECTRICAL SYSTEM WORKS, S NO 4 PAGE 2 OF 35	Tender Clause: LT PANELS IEC 60439 (PTTA) 1. SIEMENS (SIEPAN PANELS) 2. SCHNEIDER (BLOCKSET) 3. ABB (ARTUK PANEL) 4. LEGRAND (XL3) 5. RITTAL 6. LAURITZ KNUDSEN (FORMERLY L&T) (Ti) (OEM AUTHORISED / PREFERRED PANELS VENDOR ONLY) Query: Please approve following LT Panel Vendors (As per IEC 60439 PTTA): Mahaveer Fabs, Formoplastic Controls PVt Ltd, Balaji Electro Controls Pvt. Ltd & Tesla Controls	Please refer Corrigendum - 2 issued with this document.
27	SECTION VI- LIST OF APPROVED MAKES- ELECTRICAL SYSTEM WORKS, S NO 52-53, PAGE 10 OF 35	Tender Clause: OUTDOOR LIGHT FIXTURES 1. PHILIPS 2. WIPRO 3. NERI 4. KESSLEC 5. PANASONIC 6. BAJAJ INDOOR / FACADE LIGHTS 1. WIPRO 2. PHILIPS 3. LIGHTNING TECHNOLOGIES 4. PANASONIC 5. REGENT 6. EVOLITE Query: Please approve Bajaj & Havells for Indoor & Outdoor Light Fixtures	Please refer Corrigendum - 2 issued with this document.
28	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1317	Tender Clause: <u>INTEGRATED COMMAND & CONTROL CENTRE</u> Query: We understand that the scope of Integrated command & control center is covering both Fintech tower and Fintech campus, Please confirm	Please refer Corrigendum - 2 issued with this document.
29	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1048	Tender Clause: Supplying, installation, testing & commissioning of microprocessor based Intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and	Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5% V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories. The panel shall be compatible for IBMS system with open protocol Modbus over IP complete as per specifications. Ten Loop Panel</p> <p>Query: The panel shall have the provision to connect to third party printer and can be integrated to PA system and also shall be compatible to IBMS system with BACNET protocol. Kindly accept the same.</p>	
30	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1049	<p>Tender Clause: DVC (Digital Voice Command) system for fire fighters telephone. Supplying, installing, testing and commissioning of Digital Voice Command Extended Memory and Keypad. The DVC Should support 2 ways Communication for Fire Fighters. The Fire Fighters Telephone System shall be capable of having minimum 30 Telephones in conference in multiple FFT Risers. This has to be installed in one of the above 10 loop fire alarm panel. This inclusive of necessary accessories, amplifiers (suitable for fire fighters telephone quantity mentioned in this BOQ), modules & should be seamless integration with all fire alarm panels. This should be the same make of main fire alarm panel. Vendor shall consider the suitable size cabinet of fire alarm panel to accommodate this DVC equipments</p> <p>Query: Kindly confirm can we quote for Workstation suitable for GUI software.</p>	Tender conditions shall prevail.
31	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1074	<p>Tender Clause: WATER LEAK DETECTION SYSTEM</p> <p>Query: Communication cable for WLD system is missing from the BOQ. Kindly confirm</p>	Tender conditions shall prevail. The communication cable is for WLD system which is already covered in Section IX - Schedule: Bill of Quantities S. No. 1064.
32	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS	<p>Tender Clause: The Active Network Repeater Panel shall include a 10" (1024 x 600) Color touchscreen display / QWERTY Keypad. Additionally, the network display shall include environmental adjustment controls to maximize LCD legibility and the ability to scroll events by type. i.e.</p>	Please refer Corrigendum – 2 & 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	CLAUSE 1.2.5 SYSTEM COMPONENTS HEAD END, PAGE NO: 28 OF 240	Fire Alarm, Supervisory Alarm, Trouble, etc. Query: Can we quote for 8" touchscreen display as per the approved make list. Kindly accept the same.	
33	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS CLAUSE 1.2.8 SYSTEM COMPONENTS FIELD END, PAGE NO: 32 OF 240	Tender Clause: Addressable smoke and thermal detectors shall provide dual alarm and power/polling bi-colour LEDs. Both LEDs shall flash green under normal conditions, indicating that the detector is operational and in regular communication with the control panel, and both LEDs shall be placed into steady red illumination by the control panel, indicating that an alarm condition has been detected. If required, the LED flash shall have the ability to be removed from the system program. An output connection shall also be provided in the base to connect an external remote alarm LED. Query: Kindly accept single colour LED with Blinking in normal state & steady in alarm state. The same is applicable for detectors/devices, please confirm	Please refer Corrigendum - 3 issued with this document.
34	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS CLAUSE 1.7 INTEGRATED BUILDING MANAGEMENT SYSTEM - IBMS, PAGE NO: 150 OF 240	Tender Clause: Requirement of IoT Based BMS System Query: Please confirm whether the requirement is IOT based platform or it should have capacity to handle the IOT platform which will be provided by customer.	Tender conditions shall prevail. The required BMS shall have a compatibility to enable IoT Platform without adding any additional devices. The same shall be enabled in BMS (DDC) Controller itself.
35	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, IO SUMMARY	Tender Clause: 3rd party Integartion Query: Please share the protocol details for the 3rd party equipments.	Please refer Corrigendum – 3 issued with this document.
36	COVER-II PRICE BID,SECTION II, CLAUSE 1 SCOPE OF THE TENDER: PAGE 4 OF 70	Tender Clause: This is a “Lumpsum Contract” and the contractor is responsible for the E - Tender for Supply, Installation, Testing & Commissioning of MEP works (Electrical HT/LT, DG set, Lift, HVAC & ELV) of Fintech Tower at Fintech City including the supply, delivery and laying of all materials, machineries, equipment etc. and testing in accordance with the	Please refer Corrigendum – 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>specifications stipulated in the Bid Document and in conformity with the Quality Parameters laid down in the relevant BIS, MORTH, TNBP, TWAD, CEIG, IE & TNEB rules & regulations etc. and completing the entire works in all respects satisfactorily and commissioning within the stipulated period.</p> <p>Query: In Price bid, 'Lumpsum contract' is specified however in Tender notice both Lumpsum & Item rate contract is indicated, Please clarify either this contract is 'Lumpsum' nor 'Remeasurable unit rate' contract as per executed BOQ qtys</p>	
37	COVER-I TECHNICAL BID, TENDER NOTICE CLAUSE 4. EARNEST MONEY DEPOSIT (EMD), PAGE 2 OF 66	<p>Tender Clause: An EMD shall be paid only through the online payment mode via tntenders.gov.in</p> <p>Query: We request you to kindly consider BG for EMD deposit instead of Online payment</p>	Please refer Corrigendum – 2 issued with this document.
38	COVER-I TECHNICAL BID, TENDER NOTICE CLAUSE 15. ADDITIONAL PERFORMANCE SECURITY DEPOSIT (ASD), PAGE 3 OF 66	<p>Tender Clause: a. 5% to 15 % less tender: 2% of Department Value put to Tender. b. More than 15% less Tenders: 50% of Difference between quoted amount and Department Value. Shall be in the form of Demand Draft/Irrevocable Bank Guarantee valid for Contract Period + 12 months</p> <p>Query: Request you to kindly waive off additional PBG clause</p>	Tender conditions shall prevail
39	COVER-II PRICE BID, SECTION IV CONDITION OF CONTRACTS, CLAUSE 18, VARIATION NOT TO VITIATE CONTRACT, PAGE 28 OF 70	<p>Tender Clause: Quantity variation: Quantity variation will have no ceiling limit in respect of individual items and individual quantities can vary to any extent. Such variations shall not warrant any claims for modifications to already quoted and accepted rates.</p> <p>Query: We request you to kindly consider quantity variation upto +/-15% of the BOQ item</p>	Please refer Corrigendum – 2 issued with this document.
40	COVER-II PRICE BID, SECTION IV CONDITION OF CONTRACTS, CLAUSE 36 CERTIFICATE AND PAYMENTS,	<p>Tender Clause: TIDCO shall deduct from the Running Account Bills equivalent to 5% (Five Percent) of the gross total value of each bill as retention money or performance Guarantee. 50% of retention money deposit (with GST) amount recovered from the bills would be paid to the contractor along with final bill. Balance 50% of Retention Money deposit (with GST) will be</p>	Tender conditions shall prevail.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	PAGE 37 OF 70	<p>released after expiry of one year from the date of completion of work for which the contractor has to give a written undertaking in the form of an indemnity bond for further period of 4 years (As per GO MS No; 283 Public Works (G2) Dept. dated 21.05.1999. The retention money deducted in cash from the running account bills will not bear any interest.</p> <p>Query: We request you to consider the submission of upfront Retention Bank guarantee along with first running bill valid upto DLP period of 12 months, hence to waive off cash retention</p>	
41	COVER-II PRICE BID SECTION - V, CONTRACT DATA, CLAUSE 19,20,21& 22 PAGE 69,70 OF 70	<p>Tender Clause: 19.Payment break-up for Supply Order Line Item. 50% of accepted SITC rate of items on pro-rata basis shall be made against supply of all materials/ Equipment on completion of necessary documentation, test certificate from the competent authorities and certification by PMC/ EMPLOYER, within 30 working days. 20.Payment break-up for Installation Order Line item. 30% of accepted SITC rate of items shall be made against completion of respective Installation in position at site, within 30 working days, after certification is received from PMC/ EMPLOYER. 21.Payment break-up for Testing and commissioning 10% of accepted SITC rate of items shall be made against completion of respective Testing and commissioning in position at site, within 30 working days, after certification is received from PMC/ EMPLOYER. 22.Payment break-up for Handing over. 10% of accepted SITC rate of items payment shall be made on handing over of works and submission of all documentation including as-built drawings, test reports, after obtaining respective statutory approval applicable for operating the package from competent authorities and acceptance by PMC/EMPLOYER within 30 working days.</p> <p>Query: We request you to kindly consider following Terms of payment: a. An interest-free recoverable Mobilization advance of 10% of Total Contract Sum will be against Advance Bank Guarantee b. Tender refers to 50% of accepted SITC rate of items on pro-rata basis shall be made against supply of materials which is below the other standard Govt tenders (CPWD/PWD</p>	Please refer Corrigendum – 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>tenders), hence request you to consider 75% of accepted SITC rate of items against supply of materials</p> <p>c. 10% of accepted SITC rate of items on pro-rata basis shall be made against completion of Installation</p> <p>d. 10% of accepted SITC rate of items on pro-rata basis shall be made against completion of respective Testing and commissioning</p> <p>e. 5% of accepted SITC rate of items payment shall be made on handing over of works and submission of all documentation</p>	
42	GENERAL	<p>Query: Our rates Shall be valid till completion period of 11months of works + additional 3 Months, please confirm</p>	Not considered. Tender conditions shall prevail.
43	COVER-II PRICE BID, SECTION I- COST OF BIDDING, CLAUSE 3.2, SECTION IV- CONDITIONS OF CONTRACT CLAUSE 56 & 60, SPECIAL CONDITION FOR GST PAGE 4, 44 & 45 OF 70	<p>Tender Clause: 3.2. The unit rates offered shall be inclusive of All Taxes and levies by the Central or State Governments or Local Authority as applicable</p> <p>56.The unit rates offered shall be inclusive of all taxes, except GST and levies by the Central or State Govt. Or local authorities as applicable including any variation during contract period and any agreed extension of time.</p> <p>60.The Govt. of India has notified vide notification No:20/2017-Central Tax (Rate) dated: 22nd August 2017 and Notification: 21 No.24/20017-Central Tax (Rate) dated 21st September 2017, the concessional rate of the Goods and Services Tax (GST) at 18% (CGST9%+SGST9%) is leviable for any Government.....</p> <p>Query: Any statutory variation including input taxes shall be compensated accordingly, please clarify</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
44	COVER-I TECHNICAL BID, TENDER NOTICE CLAUSE 11. LAST DATE OF ONLINE SUBMISSION OF TENDER), PAGE 3 OF 66 & COVER-I TECHNICAL BID, SECTION II, PRE-QUALIFICATION TENDER NOTICE CLAUSE 14(F), SUBMISSION OF TENDERS, PAGE 30 OF 66	<p>Tender Clause: Proposals must be uploaded through www.tntenders.gov.in On or before 18.09.2024 3:00 PM.</p> <p>Query: We request you to kindly grant extension till 30th Sep'24 to submit our Techno-commercial offer</p>	Please refer Date extension Corrigendum
45	COVER-I TECHNICAL BID, TENDER NOTICE, CLAUSE 2, FORM OF CONTRACT, PAGE 2 OF 66	<p>Tender Clause: Lumpsum Contract (Item Rate)</p> <p>Query: Form of contract - Lumpsum Contract (Item Rate) Please confirm whether its Lumpsum contract or Unit Rate contract.</p>	Please refer Corrigendum – 2 issued with this document.
46	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1	<p>Tender Clause: HT PANEL & YARD WORKS</p> <p>Query: Electrical Works All statutory payments as applicable should be paid by client.</p>	Tender conditions shall prevail. This is already covered in Section IX - Schedule A: Bill of Quantities No. 393 to 395. Client is responsible for paying the statutory fees related to Load sanctions & HT supply connections. Coordination and liaison with the statutory department is under the scope of the bidder.
47	GENERAL	<p>Query: Electrical Works Kindly share the AutoCAD drawings.</p>	AutoCAD drawings will be shared with the successful bidder.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
48	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 11	<p>Tender Clause: DRY TYPE DISTRIBUTION TRANSFORMER Design, Engineering, Manufacturing, Supply and supervision , installation, testing and commissioning of 2500KVA , 11kV/433V, Cast Resin Dry Type Distribution Transformer, 3ph, 50Hz, with vacuum break On Load Tap changer on HT side & Insulation level Class F insulated, Vector Dyn11, Continuous duty, copper wound as per relevant standard with Resistive temperature detectors with enclosure should be embedded in winding, ventilation fans, RTCC panel, Marshalling box, Bidirectional rollers, HV Side Cable box & LV Side adapter box for connecting Bus duct, Painting to be RAL-7032. Transformer suitable indoor type distribution mounted inside enclosure with all standard accessories, Transformer shall be as per SLD and specifications. Enclosure for mounting Class PS Neutral CT for REF protection to be provided. The Transformer supplier shall co-ordinate with the panel vendor & supply & install the Neutral CT. OLTC Tap settings: +10 % to -10%, 2.5% for each step. Primary Voltage: 11000V Secondary Voltage: Losses- Low losses ECBC Building 2017. Lockable Emergency Push button should be provided. The civil works like construction of plinth, foundation etc shall be carried out by civil contractor. However, the correct sizes including type of construction shall be specified and a shop drawings shall be submitted by transformer supplier for approval before execution for review & approval by Project Officer. Note: Factory testing shall be carried out as per the technical specifications on all the transformers. Testing shall include all routine tests as per latest IS / IEC standards and special tests like Partial discharge test, heat run test, temperature rise test etc. All routine and special tests shall be carried out on all the transformers.</p> <p>Query: TRANSFORMERS Shall we consider Voltamp/ 3SI / Esennar make transformer.</p>	Please refer Corrigendum – 2 issued with this document.
49	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 305 - 311	<p>Tender Clause: Supply, fabrication, installation & painting of Hot Dip galvanized (65 - 70 Micron as per IS2629) Ladder cable racks / trays of up to 300 (1.6mm thickness) & more than 300mm up to 750mm (2 mm thickness) more than or equal to 1000mm (2.5 thickness) with necessary painted G.I structural supports in horizontal or vertical formation & single / multitier formation as specified and shown on drawings.</p>	Please refer Corrigendum – 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Up to 450mm - cable trays shall be supplied along with rod and C channel, refer specifications. Above 450mm cable tray support shall be with suitable angle supports as per specifications. The rate shall include GI supports, bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc. The Proper Floor supports need to be considered for the terrace floor cable tray as per the drawing. Supply, fabrication, installation & painting of Hot Dip galvanized (65 - 70 Micron as per IS2629) Ladder cable racks / trays of up to 300 (1.6mm thickness) & more than 300mm up to 750mm (2 mm thickness) more than or equal to 1000mm (2.5 thickness) with necessary painted G.I structural supports in horizontal or vertical formation & single / multitier formation as specified and shown on drawings.</p> <p>Query: Ladder cable racks / trays Whether Ladder tray is welded type or bolted type? Please confirm.</p>	
50	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 309 - 311	<p>Tender Clause: 450X50mm Cable Tray 600X75mm Cable Tray 750X75mm Cable Tray</p> <p>Query: Ladder cable racks / trays As per BOQ - 300mm up to 750mm for 2 mm thickness As per Section 7 technical spec (P.NO 73 of 198) - 2.5mm thickness. Kindly clarify</p>	Please refer Corrigendum – 2 issued with this document.
51	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 309	<p>Tender Clause: 450X50mm Cable Tray</p> <p>Query: Ladder cable racks / trays As per BOQ 450mm Ladder tray height is 50mm but in technical specification is mentioned as 75mm. please clarify.</p>	Please refer Corrigendum - 2 issued with this document.
52	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 343	<p>Tender Clause: Junction boxes - Floor</p> <p>Query: Junction boxes Please share the junction box & cover thickness.</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
53	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 363	<p>Tender Clause: RACEWAY - CEILING 'Supply & Installation of following size Powder coated Galvanized - GI (65 - 70 Micron as per IS2629) raceway / wire way with cover, made out of 14 SWG GI for body and 14 SWG GI for cover. Junction boxes to be provided with enough supports inside the box. Raceway installed above false ceiling shall include necessary mounting supports, junction boxes and accessories to fix it firmly to the ceiling. All edges, cut faces shall be free of burrs & shall be smooth. The channels shall be earthed at the boxes and at the joints with 14 SWG bare copper wire with screws so that earth is continuous. Jointing of the race ways to be done using fisher plates & 'Slotted Channel' angle supports @ 600mm interval etc., to suit site conditions. Colour of the raceways should be as per Interior views / Finalised by Project Officer during GFC stage</p> <p>Query: RACEWAY – CEILING As per BOQ powder coating requirement as 65-70 microns. shall we consider 35 to 40 microns.</p>	Tender conditions shall prevail.
54	SECTION VI- LIST OF APPROVED MAKES- HVAC SYSTEM WORKS S NO 1 PAGE 15 OF 35	<p>Tender Clause: Air/ Water Cooled Chillers 1. Trane 2. York 3. Daikin</p> <p>Query: Air/ Water Cooled Chillers Shall we consider Bluestar / Climaveneta / Kirloskar make chillers</p>	Please refer Corrigendum - 2 issued with this document.
55	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	<p>Tender Clause: WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant cooled as per OEM standard.), IE4 motor, water cooled condenser, insulated chiller, flow switch at chiller and condenser, spring vibration isolators, integral refrigerant piping and wiring, grooved couplings at chilled & condenser water inlets & outlets, marine water box at condenser with hinges, accessories as required and called</p>	Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>for, automatic and safety controls mounted in central console panel and all mounted on a steel frame etc. Motor shall be suitable for operating on 415±10% 50 cycles. 3 phase AC supply and soft starter. Refrigerant used shall be Ozone friendly HFC R134a/ R 1233ZD as per specifications. Chiller for air conditioning system shall be selected on the design basis as given below condition. The chiller Microprocessor shall be suitable for BMS integration and provided with suitable protocol. Chillers capacity of each chilling unit will be as follows: Rate shall inclusive of factory witness test as specified in the technical specification.</p> <p>Chiller: Capacity -475TR, Chilled Water IN - 54°F . Chilled Water Out - 44°F, Chilled Water Flow - 1140 USGPM or as required Fouling factor - 0.0001 FPS, Condenser: Condenser Water IN - 89.06 °F, Condenser Water OUT - 97.16.2 °F Condenser Water Flow - 1662 USGPM or as required Fouling factor - 0.00025 FPS Maximum Power Consumed at above conditions : Not more than 0.63 kW/ TR Minimum IPLV: 0.37 Min COP at AHRI conditions : 6.5 or above</p> <p>Query: Maximum Power Consumed at above conditions : Not more than 0.63 kW/ TR Minimum IPLV: 0.37 Min COP at AHRI conditions : 6.5 or above Kindly confirm whether the full load kW/TR of 0.63, IPLV of 0.37, and full load COP at AHRI conditions of 6.5 includes variable speed drive & harmonic filter losses or not.</p>	
56	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	<p>Tender Clause: WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant.....</p> <p>Query: Motor over temperature protection. Kindly confirm whether winding & bearing temperatures to be displayed in Chiller control panel.</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
57	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 634	<p>Tender Clause: Supply, installation testing & commissioning EUROVENT CERTIFIED Horizontal / vertical floor mount Air handling units having following specifications. Frame Structure consisting of 45mm Extruded Aluminium Thermal break profile Panel: 45mm +/- 2mm thick double skin sandwich panels with Puff insulation of density 48 kg/cum.....</p> <p>Query: Shall we consider AHRI certified AHU as per your Make list</p>	Please refer Corrigendum – 3 issued with this document.
58	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 687	<p>Tender Clause: Supply and erection of Pre-insulated Butterfly valves (with RPUF material similar to CHW pipe insulation specifications) complete with pre-insulated end flanges / matching flanges, additional supports, fixing accessories, etc. The valve shall be gear operated for 200NB and above.</p> <p>Query: As per BOQ Spec all the valves are denoted as Pre insulated. As per OEM Instructions Only butterfly valves and Y strainer comes with pre insulated. Please clarify.</p>	Please refer Corrigendum - 3 issued with this document.
59	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 828	<p>Tender Clause: CHEMICAL DOSING SYSTEM</p> <p>Query: Kindly Share the make list for dosing system.</p>	Please refer Corrigendum - 2 issued with this document.
60	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 866	<p>Tender Clause: Supply and installations of factory made Powder coated sheet metal Flat oval Spiral ducting with (factory made internal thermal insulation -9 mm thick closed cell material to be considered cost of this shall be inclusive of this item) fittings, Wire supports, The factor of wire to suit to duct weight, with necessary anchor fasteners and hook arrangements with suitable rod thickness,etc., confirming SMACNA standards. Duct should be fabricated by using CNC machines, Including necessary civil works as per site condition. Exposed ducts color to match interior requirement. Colour shall be confirmed by Architect. The joints shall be 100% leak proof. The duct should be factory made internally insulated with 9mm thick antimicrobial nitrile rubber. (Light test need to considered for elliptical ducts)</p> <p>Query: Please clarify whether Spray painting to be considered for Flat oval ducting</p>	The tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
61	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 919	<p>Tender Clause: Grease Collection Box near the unit. Construction of Grease Collection Box should be similar to same as Ducting specified above.</p> <p>Query: Please elaborate specification</p>	Please refer Corrigendum - 3 issued with this document.
62	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 582	<p>Tender Clause: DIESEL STORAGE & TRANSFER - ABOVE GROUND LEVEL: Designing, Supply of storage tank, piping and pipe fittings, valves, Gaskets and supports structural, Installation, pre commissioning, painting as per code and commissioning and getting approval of storage & pumping system for Diesel unloading and transfer from diesel storage yard to plant use as per technical specification and codes and Indian standards and also as per rules and regulation stipulated by chief Controller of explosive dept and The petroleum Rules 2002 amended by 2005. Diesel Tank -TANK CAPACITY & SIZE: 20KL . The Dimesensions of 20KL Tank should be considered as per relveant IS standards (IS 10987)and as per stauatory requirements. Necessary drawing to be submitted for review and approval from Project Officer before procurement.</p> <p>Query: DIESEL STORAGE & TRANSFER - ABOVE GROUND LEVEL: The BOQ does not include the MOC component. We have consider, as per technical specification, MS tank. Please confirm.</p>	Please refer Corrigendum - 3 issued with this document.
63	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 583	<p>Tender Clause: Supply And installation of Diesel Tanks (DG Day tank : 03 Nos. / Overflow Tank : 01 No. / Intermediate tank 01 Nos.) vertical square tank of 990 Liter capacity made out of Carbon Steel to SA 515 Gr. 70 with minimum 5 mm thick plate.</p> <p>Query: As per BOQ, MOC is Carbon steel but as per technical spec (P.No 243) MOC is mentioned as MS. Please confirm.</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
64	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 611	<p>Tender Clause: Electro magnetic Digital Flow Meter to suit oil flow measurement with internal contact, parts made out of stainless steel and compatible with BMS control of the system Its measuring chamber is fireproof of oscillant disc and it allows to transfer any type of hydrocarbon liquids Flow: 10-90 l/min, Accuracy: ±1 %, Partial indicator of 3 digits and totalizer of 6 digits Maximum operation pressure: 5 bar & Resistance pressure: 15 bar Ambient temperature: -10 °C / +60 °C ; ATEX IIG Category Size :40mm NB Flow 4m3/hr</p> <p>Query: Electro magnetic flow meter may not be suitable for HSD application. Shall we consider Oval type gear flow meter or Coriolis type mass flow meter .</p>	Please refer Corrigendum - 3 issued with this document.
65	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1138	<p>Tender Clause: IP CCTV SURVEILLANCE SYSTEM</p> <p>Query: Shall we consider Hikvision / Dahua make</p>	Tender condition shall prevail.
66	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 3 & 4	<p>Tender Clause: 3. 11 kV HT Panel-1 - SINGLE VCB Panel - Outdoor Type Design, Manufacture, Assembly, Inspection and Testing before supply, Packing and delivery at Site ,erection, Installation, Testing & commissioning of 11KV HT switchgear with all accessories and suitable for installation in three phase ,three wire,11kV,50Hz, A.C.distribution network, complete with all accessories erected in the provided foundation complete as per specification and standards as directed by Project Officer's in charge at Site. Outdoor Type HT Panel, Comprising of 1No. 11 KV, 630A ,26.2kA,3sec Horizontal Draw out type VCB. The panel suitable for outdoor mounting & terminating of 300 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 3002797 as incoming and outgoing etc, complete as directed and approved by Project Officer's in charge. Please refer Power Single line Diagram and Technical specifications for protections and relays. Inbuilt battery backup needs to be considered.</p> <p>4. 11 kV HT Panel-2 - THREE VCB Panel - Indoor Type Design, Manufacture, Assembly, Inspection and Testing before supply, Packing and delivery</p>	Please refer Corrigendum - 2 (Annexure-1) issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>at Site ,erection, Installation, Testing & commissioning of 11KV HT switchgear with all accessories and suitable for installation in three phase ,three wire,11kV,50Hz, A.C.distribution network, complete with all accessories erected in the provided foundation complete as per specification and standards as directed by Project Officer`s in charge at Site. Indoor Type , HT Panel Comprising of 1No. 11 KV, 630A 26.2kA,3sec Horizontal Draw out type VCB as incomer & 2 Nos. 11 KV, 630A 26.2kA Horizontal Draw out type VCB as Outgoings The panel suitable for outdoor mounting & terminating of 300 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 3002797 as incoming and outgoing etc, complete as directed and approved by Project Officer`s in charge.</p> <p>Arc flash realy needs to be provided in the Breaker, Busbar & Cable chamber. Please refer Power SIngle line Diagram and Technical specifications for protections and relays. Inbuilt battery backup needs to be considered. Inbuilt battery backup needs to be considered.</p> <p>Query: BOQ asks for HT Panel with 26.3KA -1sec internal arc withstand capacity whereas as per SLD it is 26.3KA - 3 sec, please clarify.</p>	
67	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 11	<p>Tender Clause: DRY TYPE DISTRIBUTION TRANSFORMER Design, Engineering, Manufacturing, Supply and supervision , installation, testing and commissioning of 2500KVA , 11kV/433V, Cast Resin Dry Type Distribution Transformer, 3ph, 50Hz, with vacuum break On Load Tap changer on HT side & Insulation level Class F insulated, Vector Dyn11, Continuous duty, copper wound as per relevant standard with Resistive temperature detectors with enclosure should be embedded in winding, ventilation fans, RTCC panel, Marshalling box, Bidirectional rollers, HV Side Cable box & LV Side adapter box for connecting Bus duct, Painting to be RAL-7032. Transformer suitable indoor type distribution mounted inside enclosure with all standard accessories, Transformer shall be as per SLD and specifications. Enclosure for mounting Class PS Neutral CT for REF protection to be provided. The Transformer supplier shall co-ordinate with the panel vendor & supply & install the Neutral CT . OLTC Tap settings: +10 % to -10%, 2.5% for each step. Primary Voltage: 11000V Secondary Voltage: Losses- Low losses ECBC Building 2017. Lockable Emergency Push button should be provided. The civil works like construction of plinth, foundation etc shall be carried out by civil contractor. However, the correct sizes including</p>	<p>a) Please refer Corrigendum - 2 issued with this document.</p> <p>b) Tender conditions shall prevail. This is already covered in Section VIII – Electrical SLD Tender Drawings</p> <p>c) Please refer Corrigendum - 3 issued with this document.</p>

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>type of construction shall be specified and a shop drawings shall be submitted by transformer supplier for approval before execution for review & approval by Project Officer. Note: Factory testing shall be carried out as per the technical specifications on all the transformers. Testing shall include all routine tests as per latest IS / IEC standards and special tests like Partial discharge test, heat run test, temperature rise test etc. All routine and special tests shall be carried out on all the transformers.</p> <p>Query:</p> <p>a) As per BOQ, the tapping range of Dry Type Transformer is +10 to -10% in steps of 2.5% whereas as per SLD & data sheet, it is +5 to -5% in steps of 2.5%, please clarify what to be considered.</p> <p>b) Please confirm the rating of Neutral CT to be considered.</p> <p>c) As per BOQ, our pricing should be inclusive of special tests like Partial discharge test, heat run test, temperature rise test etc whereas as per Technical Specification, special test price should be quoted separately if required, please clarify.</p>	
68	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 103 TO 123	<p>Tender Clause:</p> <p>MCB DISTRIBUTION BOARDS</p> <p>Supply, Installation, Testing and Commissioning of MCB Distribution board as per approved installation dwgs. Wall mounted MCB DBs with MS wire way box on top / bottom & on sides. MCBs shall be rated for 10kA with current limiting feature. Dummy ways to be covered with blank plates. All out going ways shall be labelled & laminated.</p> <p>Enclosure:1.2mm CRCA Sheet Steel, Powder Coated</p> <p>Door : Double Door</p> <p>Protection : IP 42</p> <p>Cable Entry : Top & Bottom</p> <p>For UPS distribution RCCB's shall be harmonic resistant (HI/SI type)</p> <p>Bus bar : Shall be tinned Copper and 200% rating for UPS DB Neutral Link</p> <p>MCB's : 10kA 'C' Curve for Lighting & Raw power, 10kA 'D' Curve for UPS Distribution</p> <p>Note:</p> <ol style="list-style-type: none"> 1) Separate Earth bus/Neutral bus for each phase 2) Each Circuit shall have yellow ferrules with circuit number 3) Accessories required for installation of DB's on Wall/Column/Gyp Board shall be 	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>considered</p> <p>4) DB's shall be covered with powder coated (paint should match with DB Color) wire ways all around and up to ceiling to receive incoming circuits, how ever raceway shall be considered as a separate items</p> <p>5) Laminated A3 OR A4 size SLD copy shall be pasted inside DB door</p> <p>6) Safe shroud for Neutral link shall be provided.</p> <p>Query: BOQ asks to include the cost of wireways against these BOQ line items but the same is covered in item no. 388, so we will not consider the cost of wireways against these BOQ line items, please confirm.</p>	
69	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 218 TO 247	<p>Tender Clause: LUMINAIRES Supply & Installation, Testing and Commissioning of following Light fixtures and lamps with all accessories, fixing on the wall / ceiling/false ceiling with wooden blocks, screws, hardware's, suspended chain hooks as required as per the site conditions (including the earthing of fixture) Light fixtures complete with accessories like control gear, Drivers, Energy efficient high lumen output LED's, etc., Light Fixtures quoted rate shall include mounting bracket and lamps . Gripple/steel ropes need to be considered for suspended light fixtures Note: Lamp Colour temperature (CCT) shall be as approved by Project Officer in charge. Contractor shall consider necessary fixing hardware like supporting rods, angles etc and components to install light fixtures. The hardware viz., anchor fasteners, suspending GI chains, down rods will not be measured separately. Contractor shall assume a minimum suspension length of 1.5 Mtrs Reference image and base rate for decorative fixtures given in the technical specification document for reference.</p> <p>Query: Please provide the catalogue number of required Light Fixtures.</p>	<p>Tender condition shall prevail</p> <p>Light Fittings Reference images are given in the Section– VII Technical Specifications Electrical Works Clause 9 - Fans / Light Fixtures & Accessories</p>
70	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 230	<p>Tender Clause: 30W IP65 rated pole mounted Aviation Light fixture in the terrace with all mounting accessories</p> <p>Query:</p>	<p>Please refer Corrigendum - 3 issued with this document.</p>

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Please provide the Technical Specification of required Aviation Light.	
71	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 233	<p><u>Tender Clause:</u> Supply & Installation, Testing and Commissioning of architectural pole - 6-7M Height Pole made in combination MS Pipe of 89mm dia & top single arm bracket which is made of hot dip galvanised mild steel pipe sections 60mm dian with pleasing aesthetics. The pole to be provided with a suitable size steel base plate including RCC Foundation. This mounting steel base plate along with foundation bolts of suitable size to be used for ensuring firm grouting into the specially designed RCC foundation. Entire pole & bracket shall be made to provide pleasing aesthetics as approved by Concerned Project Officer`s in-charge. After Fabrication, Entire Pole is hot dip galvanized (60 microns Minimum) for the effective corrosion resistance .The hot dip Galvanised pole should be provided with an inbuilt junction box to fix 32A connectors and 6A MCB, at the bottom - the inbuilt box should have a flush door of suitable size. wind pressure calculation as per IS 875 (Part-3) & structural calculation report as per EN40 should be submitted to verify the pole strength. Pole & it's parts are painted in 3 layer coating(coating thickness-100 microns minimum) in which 1st layer with etch primer, 2nd layer with epoxy primer & 3rd final layer with PU paint- Grey colour</p> <p><u>Query:</u> Please provide the drawing of 7 Meter Hot dip Galvanised Poles.</p>	All required details are mentioned in the Bill of Quantity. The successful bidder shall submit shop drawings and get approval from PMC/ Employer.
72	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 258	<p><u>Tender Clause:</u> WIRING FOR LUMINAIRES CIRCUIT MAIN (FROM DB TO FIRST POINT) Supply, Laying, Testing and Commissioning of Wiring for Circuit/submains along with earth wire with 2R 2.5Sq.mm + 1R 2.5S.mm FRLS PVC insulated multistrand copper wire in surface /recessed Steel conduit with all accessories as required as per site conditions. For concealed conduiting, wall chasing and finishing need to be considered in the quote. (From DB to Fist point .Switch Box and Switch Box to Switch Box)</p> <p><u>Query:</u> Please confirm the size of MS Conduit to be considered for Circuit main.</p>	Please refer Corrigendum - 3 issued with this document.
73	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 259	<p><u>Tender Clause:</u> Supply, Laying, Testing and Commissioning of Wiring for Circuit/submains along with earth wire with 2R 2.5Sq.mm + 1R 2.5S.mm FRLS PVC insulated multistrand copper wire in surface</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>/recessed medium class PVC conduit with all accessories as required as per site conditions. For concealed conduiting, wall chasing and finishing need to be considered in the quote. (From DB to Fist point .Switch Box and Switch Box to Switch Box)</p> <p>Query: Please confirm the size of PVC Conduit to be considered for Circuit main.</p>	
74	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 277 TO 286	<p>Tender Clause: 277. POWER OUTLETS (SOCKETS) 'Supply, fixing, testing and commissioning of Modular Switch & Socket combination in suitable modular box with front plates ,blank plates,accessories wherever required in Open/Recessed system and Industrial Sockets with MCB in Open/Recessed system with necessary earthing arrangements. The necessary civil works shall be done for connected works and no extra payment will be made for the same. (On non availability of specified rating industrial sockets, immediate higher rating socket must be provided with given control breakers). The quoted rate shall be inclusive of approved make modular switches, accessories, surface box / metal box in open / recessed system. All industrial sockets should be provided with suitable plug. All metal box should be earthed as required & shall be covered with removable film coat to protect from scratches and paint.</p> <p>278. 6/16A, 5pin, combination type shuttered switched socket outlet with indicator lamp and G.I outlet box & moulded plastic cover plate as required including termination of wires.</p> <p>279. 1No. Of 10A socket controlled by 10A SP switch - Weather Proof (With Back box) - IP66</p> <p>280. 1No. Of 6/16A socket controlled by 16A SP switch-Weather Proof (With Back box) - IP66</p> <p>281. 1No. Of 6A socket controlled by 6A SP switch (Without Back box)</p> <p>282. 2No. Of 6A socket controlled by 16A SP switch (Without Back box)</p> <p>283. 3No. Of 6A socket controlled by 16A SP switch (Without Back box)</p> <p>284. 1No. Of 6/16A socket controlled by 16A SP switch (With Back box)</p> <p>285. 2Nos. Of 6A socket controlled by 16A SP switch (With Back box)</p> <p>286. 3Nos. Of 6A socket controlled by 16A SP switch (With Back box)</p> <p>Query: We would consider white plates for modular Switch Sockets, please confirm.</p>	Please refer Corrigendum - 3 issued with this document.
75	SECTION-IX BILL OF QUANTITY	<p>Tender Clause: 287. 1No. Of 16A 3 pin single phase Industrial type socket with plug top controlled by 16A DP MCB</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	BOQ SL. NO. 287 TO 289 & 293	288. 1No. Of 63A 5 pin single phase Industrial type socket with plug top controlled by 63A 4P MCB 289. 1No. Of 32A 3 pin single phase Industrial type socket with plug top controlled by 32A DP MCB 293. Supply and installation of 20A 3 Pin 1 phase industrial socket controlled by 20A DP MCB Query: Please confirm the ingress protection of required Industrial Sockets i.e. . IP-44 / IP-65 etc.	
76	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 296 TO 298	Tender Clause: Supply, Fixing, Testing and Commissioning of 3.7kW AC Single phase EV charger with plug top & all accessories. in weather proof MS Enclosure with and other associated accessories as required as per the site conditions Supply, Fixing, Testing and Commissioning of 11kW AC Three phase EV charger with plug top & all accessories. in weather proof MS Enclosure with and other associated accessories as required as per the site conditions Supply, Fixing, Testing and Commissioning of 22.5kW DC Three phase EV charger with plug top & all accessories. in weather proof MS Enclosure with and other associated accessories as required as per the site conditions Query: Please provide the Technical Specification of EV Charger.	Please refer Corrigendum - 3 issued with this document.
77	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 304 TO 311	Tender Clause: 304. CABLE TRAY Supply, fabrication, installation & painting of Hot Dip galvanized (65-70 Micron as per IS2629) Ladder cable racks / trays of up to 300 (1.6mm thickness) & more than 300mm up to 750mm (2 mm thickness) more than or equal to 1000mm (2.5 thickness) with necessary painted G.I structural supports in horizontal or vertical formation & single / multitier formation as specified and shown on drawings. Up to 450mm - cable trays shall be supplied along with rod and C channel, refer specifications. Above 450mm cable tray support shall be with suitable angle supports as per specifications.	a) & b) Please refer Corrigendum – 2 issued with this document

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>The rate shall include GI supports, bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc.</p> <p>The Proper Floor supports need to be considered for the terrace floor cable tray as per the drawing.</p> <p>Supply, fabrication, installation & painting of Hot Dip galvanized (65 - 70 Micron as per IS2629) Ladder cable racks / trays of up to 300 (1.6mm thickness) & more than 300mm up to 750mm (2 mm thickness) more than or equal to 1000mm (2.5 thickness) with necessary painted G.I structural supports in horizontal or vertical formation & single / multitier formation as specified and shown on drawings.</p> <p>305. 100X50mm Cable Tray 306. 150X50mm Cable Tray 307. 200X50mm Cable Tray 308. 300X50mm Cable Tray 309. 450X50mm Cable Tray 310. 600X75mm Cable Tray 311. 750X75mm Cable Tray</p> <p>Query:</p> <p>a) As per BOQ, the thickness of Ladder Cable trays is 2mm from 450mm to 750mm width whereas as per specification it is 2.5mm thick, please clarify what to be considered.</p> <p>b) Please confirm the rung & runner details for 100, 150 & 200mm width Ladder Cable trays as it is not given in BOQ & Specification.</p>	
78	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 343 TO 350 & 364 TO 371	<p>Tender Clause:</p> <p>343. Junction boxes – Floor 344. i)90 x 90 x 50mm Size 345. ii)110 x 110 x 50mm Size 346. iii)160 x 160 x 50mm Size 347. iv)210 x 210 x 50mm Size 348. v)260 x 260 x 50mm Size 349. vi)310 x 310 x 50mm Size 350. xvii)410 x 410 x 50mm Size 364. Junction boxes – Ceiling 365. 90 x 90 x 50mm Size</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		366. 110 x 110 x 50mm Size 367. 160 x 160 x 50mm Size 368. 210 x 210 x 50mm Size 369. 260 x 260 x 50mm Size 370. 310 x 310 x 50mm Size 371. 410 x 410 x 50mm Size Query: Please confirm the thickness of Junction Box Body & cover.	
79	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 394	Tender Clause: Preparation & submission of applications, Liasioning with EB for getting additional Load sanction, all necessary co-ordination up to completion of the project. Query: Getting Electrical Inspector approval for all our installation will be in our scope of work. Load Sanctioning & Load release will be in client scope, please confirm. All fees related to load sanctioning & release will be paid by client directly.	Tender conditions shall prevail. This is already covered in SECTION IX - Schedule A: BILL OF QUANTITIES No. 393 to 395. Employer is responsible for paying the statutory fees related to Load sanctions & HT supply connections. Coordination and liaison with the statutory department is under the scope of the bidder.
80	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 409 TO 415	Tender Clause: 409. Design, manufacture, assembly, supply, installation, testing, delivery and commissioning of 30 kVA (Continuous rating) online, double conversion operating on conventional mode 3 ph input and 3 ph output UPS system with IGBT..... 410. Supply, installation, testing and commissioning of Battery banks of requisite quantity and AH rating suitable for 30 kVA (Continuous rating) online, double 411. Design, manufacture, assembly, supply, installation, testing, delivery and commissioning of 40 kVA (Continuous rating) online, double 412. Supply, installation, testing and commissioning of Battery banks of requisite quantity and AH rating suitable for 40 kVA (Continuous rating) online, double 413. Design, manufacture, assembly, supply, installation, testing, delivery and commissioning of 25 kVA (Continuous rating) online, double conversion operating on conventional mode 3 ph input and 3 ph output..... 414. Supply, installation, testing and commissioning of Battery banks of requisite quantity	Please refer Corrigendum - 3 issued with this document. .

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>and AH rating suitable for 25 kVA (Continuous rating) online, double</p> <p>415. BATTERY RACK Supply and installation of Battery Rack of epoxy painted sheet steel suitable for above mentioned UPS battery banks rating with separate.....</p> <p>Query: As per Technical Specification, UPS shall be suitable for parallel operation but the same is not reflected in BOQ, please clarify.</p>	
81	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 432	<p>Tender Clause: Supply of 2 hour fire rated fire retardant material sealing (UL Listed) all electrical ducts and openings made in the slab / wall / partition to take conduits / cable trays / raceways etc as required complete / as directed by the site incharge</p> <p>Query: Please provide the model number of required Fire Sealant.</p>	All required details are mentioned in the Bill of Quantity. The successful bidder shall provide as per Section VI–List of Approved Makes and get approval from PMC/Employer.
82	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 438	<p>Tender Clause: Battery Charger - Indoor Supply , installation, testing & commissioning of Thyristor controlled Float cum boost charger having output suitable for 24volt DC 100 AH SMF battery with metering to measure output current & battery charging/discharging current with RYB indication (mains on R,Y,B Charger on, float & boost mode),alarm for battery</p> <p>Query: Please provide the technical specification of required Battey Charger.</p>	Please refer SECTION – VII Technical Specifications Electrical Works – Clause 12 - Auxiliary Power Supply
83	COVER-I TECHNICAL BID, TENDER NOTICE, CLAUSE 4, EARNEST MONEY DEPOSIT (EMD) PAGE 2 OF 66	<p>Tender Clause: EMD shall be paid through Online payment mode</p> <p>Query: Kindly accept DD/BG</p>	Please refer Corrigendum – 2 issued with this document.
84	COVER-I TECHNICAL BID, SECTION-IV MINIMUM CRITERIA FOR PRE- QUALIFICATION, CRITERIA -II,2(A) PAGE 40 OF 66	<p>Tender Clause: Criteria II The Tenderers should have satisfactorily completed Criteria-1 Certificates issued by the Government Organizations / Non-Government Organisation works* in respect of MEP works** for one multi storied RCC framed Office/ Commercial / IT</p>	Tender conditions shall prevail.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Building with a minimum BUA of 5,00,000 sq.ft. with minimum 10 floors with a value not less than Rs.48 Crores under a single agreement in the last 5 years ending 31st March 2024. (or) Certificates issued by the Government Organizations / Non-Government Organisation works* in respect of MEP works** for two multi storied RCC framed Office/ Commercial / IT Buildings each with a minimum BUA of 2,50,000 sq.ft. with minimum 06 floors with value not less than Rs.24 Crores (each work) in two agreements in the last 5 years ending 31st March 2024.</p> <p>Criteria-2</p> <p>2a) Certificates issued by the Government Organizations / Non-Government Organisation works* in respect of HVAC# works for one project with a value not less than Rs.14 Crores under a single agreement in the last 5 years ending 31st March 2024. (or) Certificates issued by the Government Organizations / Non-Government Organisation works* in respect of HVAC# works for two projects with value not less than Rs.7 Crore (each work) in two agreements in the last 5 years ending 31st March 2024.</p> <p>2b) Certificates issued by the Government Organizations /Non-Government Organisation works* in respect of Electrical & ELV## works for one project with a value not less than Rs.25 Crore under a single agreement in the last 5 years ending 31st March 2024. (or) Certificates issued by the Government Organizations /Non-Government Organisation works* in respect of Electrical & ELV## works for two projects, each with value not less than Rs.12.5 Crore (each work) in two agreements in the last 5 years ending 31st March 2024.</p> <p>The above criteria 2a & 2b are mandatory criteria's which are required to be satisfied</p> <p>Note: If the requirement of Criteria 2 is satisfied in Criteria 1 itself, then the same project can be mentioned in Criteria 2 as well.</p> <p>* For Non-Government Organisation works of similar nature executed by the Tenderer externally for private parties, shall also be considered, provided that, the Tenderer should produce the Work completion certificate issued by the Competent Authority/Authorized signatory of the organisation, and shall be got authenticated by the NOTARY Public with regard to the private works completed by Him/Her/Them other than Government / Quasi</p>	

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		government organisation. Query: Pre-qualification criteria seems to be stringent, Request you to kindly accept list of completed project in last 8 years ending 31st march 2024 in lieu of 5 years of cap.(Most of our major project got delayed because of COVID)considering this kindly accept project completed in last 8 years.	
85	COVER I TECHNICAL BID SECTION II, PRE- QUALIFICATION TENDER NOTICE CLAUSE 10. RETENTION MONEY PAGE 29 OF 66	Tender Clause: TIDCO shall deduct from running bill equivalent to 5% of gross total value of each bill as retention money/performance guarantee Query: Kindly accept a Retention Bank Guarantee for the equivalent value submitted upfront and avoid cash retention from running bills. The RBG shall be valid till the end of Project completion	Tender condition shall prevail.
86	COVER-II PRICE BID,SECTIONI INSTRUCTIONS TO TENDERERS, CLAUSE 1. SCOPE OF THE TENDER: PAGE 04 OF 70	Tender Clause: This is a "LUMPSUM Contract" Query: Kindly revise "LUMPSUM Contract" to "BOQ unit rate " contract	Please refer Corrigendum – 2 issued with this document.
87	COVER-II PRICE BID, SECTION – II, DETAILED TENDER NOTICE FOR PRICE BID,CLAUSE-2 PAGE 08 OF 70	Tender Clause: Tenders must be submitted in sealed covers and should be addressed to the managing director., Tamil Nadu industrial Development Corporation Limited, Chennai-8. Query: Kindly confirm whether it is a online submission or a hardcopy submission	Yes. Online submission only. Please refer Corrigendum – 2 issued with this document.
88	COVER-II PRICE BID SECTION-IV, CONDITIONS OF CONTRACT, CLAUSE 56, SPECIAL CONDITION FOR GST, PAGE 44 OF 70	Tender Clause: The unit rates offered shall be inclusive of all taxes, Except GST and levies by the central or state government or Local authorities as applicable including any variation during contract period and any agreed extension of time. Query: Kindly clarify the unit price need to be consider in priced BOQ should be inclusive of GST. Please also advice if Labour Cess to be included / Labour cess will be deducted from our bills	Quoted unit rates shall exclude GST and labour cess

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
89	COVER-II PRICE BID SECTION-IV, CONDITIONS OF CONTRACT, CLAUSE 58, CONTRIBUTION TO WORKERS WELFARE FUND PAGE 44 OF 70	<u>Tender Clause:</u> Amount equivalent to 1% of estimate amount will be paid by the employer direct to the labour welfare board as per G.O. <u>Query:</u> Kindly claify if the qouted / bid rates to be inclusive of 1% of the bid amount (Not estimated amount)	Quoted unit rates shall exclude labour cess. The labour cess would be borne by the Employer
90	COVER-II PRICE BID SECTION-IV, CONDITIONS OF CONTRACT, CLAUSE 65, POWER, WATER & OTHER FACILITIES PAGE 47 OF 70	<u>Tender Clause:</u> Electricity required for construction shall be arranged by the contractor himself. Electricity if supplied to the contractor by the employer will be metered and amount will be recovered in the bills as per actual at rates fixed by the employer, supply of electricity from the employer is not mandatory. <u>Query:</u> We request you to kindly provide electricity at a single point. Also confirm the unit rate for electricity, Please clarify.	Tender condition shall prevail.
91	COVER-II PRICE BID SECTION-IV, CONDITIONS OF CONTRACT, CLAUSE 65, POWER, WATER & OTHER FACILITIES PAGE 47 OF 70	<u>Tender Clause:</u> Power water and other facility <u>Query:</u> Power and Water for Commissioning shall be provided by Employeer/ End user Free of cost	Tender condition shall prevail.
92	COVER-II PRICE BID SECTION-IV, CONDITIONS OF CONTRACT, CLAUSE 84, ELECTRO- MECHANICAL WORKS PAGE 59 OF 70	<u>Tender Clause:</u> If required the contractor needs to execute all major or minor civil works associated with MEP installation including all minor civil works like wall chasing by wall chaser, Making holes etc for installation of conduit/Cables and making good.These shall be executed in accordance with approved shop drawings. <u>Query:</u> Major civil works will not be our scope of works, Please confirm.	Yes. However, minor civil works such as wall chasing, making holes, etc. if required for installation and making good shall be done by the Contractor in coordination with the civil contractor with the approval of PMC/Employer.
93	COVER-II PRICE BID SECTION-V, CONTRACT DATA, SL.NO 7 PAGE 67 OF 70	<u>Tender Clause:</u> Liquidated damage Liquidated damages to be levied on nonachievement of milestones (mentioned in Clause 11-Construction Program, Section- II, Cover II), which is 0.03% (Zero decimal Zero three percent) of the contract sum per day of delay subject to a maximum of 10% of the	Tender condition shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>contract value (inclusive of GST). The period of delay shall be as opined by the PMC/Project Officer which is final and binding on the contractor.</p> <p>Query: For liquidated damages, kindly cap the upper limit of LD @ 5% of the unfinished portion of Works (Instead of 10% as per the NIT)</p>	
94	<p>COVER-II PRICE BID SECTION-V, CONTRACT DATA, SL.NO 19,20,21 & 22 PAGE 69, 70 OF 70</p>	<p>Tender Clause: As per Tender document</p> <ol style="list-style-type: none"> 1. 50% against prorata delivery 2. 30% Against Installation 3. 10% against Testing and Commissioning 4. 10% against handover. <p>Query: We request to kindly approve below TOP. 70% against pro-rata delivery 20% Against Installation 5% against Commissioning and 5 % against handover. TOP mentioned in the tender will affect the cash flow of the project request you to kindly consider this point and approve our proposal. Please clarify.</p>	Please refer Corrigendum - 2 issued with this document.
95	<p>SECTION-IX BILL OF QUANTITY BOQ SL. NO. 625 TO 632</p>	<p>Tender Clause: CENTRIFUGAL VERTICAL INLINE PUMPS, PRIMARY PUMPS FOR WATER COOLED CHILLER, SECONDARY PUMPS FOR WATER COOLED CHILLER, CONDENSER PUMPS, water cooled chilled water Pump Starter Panel cum Logic controller panel, PRIMARY PUMPS, SECONDARY PUMPS, air cooled chilled water Pump Starter Panel cum Logic controller panel</p> <p>Query: Shall we consider Bronze or SS impeller as per OEM standard and availability. Please confirm.</p>	Please refer Corrigendum - 3 issued with this document.
96	<p>SECTION-IX BILL OF QUANTITY BOQ SL. NO. 627,631</p>	<p>Tender Clause: 627.SECONDARY PUMPS FOR WATER COOLED CHILLER: Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pump set with axial suction port and discharge port with integrated variable speed drive motor (pump mounted) (with BACNet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m,.....</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>631.SECONDARY PUMPS: Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction port and discharge port with integrated variable speed drive motor (pump mounted) (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficiency</p> <p>Query: Kindly confirm the requirement of Active harmonic filter. Please confirm.</p>	
97	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 627,631	<p>Tender Clause: SECONDARY PUMPS FOR WATER COOLED CHILLER: Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction port and discharge port with integrated variable speed drive motor(pump mounted) (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficieicy..... Variable flow Secondary pump: 1140 GPM to be delivered @ 25M head SECONDARY PUMPS: Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction port and discharge port with integrated variable speed drive motor(pump mounted) (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficieicy should not be less than 85%,</p> <p>Query: We shall be quoting VFD and panel for pumps as per OEM recommended make, Please confirm.</p>	Tender conditions shall prevail.
98	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 635,648	<p>Tender Clause: 635. 5.0 TR (3000 CFM) ESP 20 MM 648. 11.0 TR (6000 CFM) ESP 20 MM</p> <p>Query: Make for UV lamp for AHU will be as per OEM recommendation, Please confirm.</p>	Tender conditions shall prevail.
99	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 635,648	<p>Tender Clause: 635. 5.0 TR (3000 CFM) ESP 20 MM 648. 11.0 TR (6000 CFM) ESP 20 MM</p> <p>Query:</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Request to kindly consider standard AHU in lieu of EUROVENT CERTIFIED AHU Please confirm.	
100	SECTION VII- TECHNICAL SPECIFICATIONS HVAC SYSTEM WORKS, CLAUSE 6.7 PLUG FAN WITH EC MOTOR: PAGE 53 OF 129	<p>Tender Clause: The complete EC Fan unit shall be of rugged bolted construction made of sheet steel, statically and dynamically balanced. Fan: The fan section shall be equipped with a Single Inlet Centrifugal Impeller with High Efficiency Backward curved blades and external rotor EC (Electronically Commutated) motor, energy optimized for operation without spiral housing for high efficiency and favorable acoustic behavior. The high efficiency backward curved impeller with rotating diffuser made of high performance</p> <p>Query: Is EC fans needs to be selected as per the Technical specification? (Number of Fans shall be one up to 15000 cmh, two in case of 18000-30000 cmh, three in case of 40000 & 50000 cmh and four in case of 65000 cmh.) this will increase the cost of AHU . Please confirm.</p>	Please refer Corrigendum - 2 issued with this document.
101	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 635 TO 648 953 TO 957	<p>Tender Clause: 635. 5.0 TR (3000 CFM) ESP 20 MM 636. 7.0 TR (4200 CFM) ESP 20 MM 637. 10.0 TR (6000 CFM) ESP 25 MM 638. 12.0 TR (7200 CFM) ESP 25 MM 639. 14.0 TR (8400 CFM) ESP 25 MM 640. 16.0 TR (9600 CFM) ESP 25 MM 641. 18.0 TR (10800 CFM) ESP 25 MM 642. 22.0 TR (13200 CFM) ESP 30 MM 643. 24.0 TR (14400 CFM) ESP 30 MM 644. Supply, installation testing & commissioning EUROVENT CERTIFIED Ceiling Suspended Airhandling units having following specifications. Frame Structure consisting of 45mm Extruded Aluminium</p> <p>645. 4.0 TR (2400 CFM) ESP 15 MM 646. 6.0 TR (3000 CFM) ESP 15 MM 647. 8.0 TR (4000 CFM) ESP 15 MM 648. 11.0 TR (6000 CFM) ESP 20 MM</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>953. Supply, installation testing & commissioning EUROVENT CERTIFIED Floor mounted Treated fresh air units having following specifications. Frame Structure consisting of 45mm Extruded Aluminium</p> <p>954. 70 TR - 12600 CFM with 40mm ESP (Kitchen fresh air)</p> <p>955. 36TR/6500CFM with 65mm ESP (Office Area Fresh air)</p> <p>956. 47TR/8500CFM with 65mm ESP (Office Area Fresh air)</p> <p>957. 58TR/10440CFM with 65mm ESP (Office Area Fresh air)</p> <p>Query: Whether T2 casing needs to be considered for all units? (AHU, CSU, TFA, Ventilation Unit)</p>	
102	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 647 TO 673	<p>Tender Clause: Chilled water FCU, Cassette, Hi wall units, INSULATED CHILLED WATER PIPE AND VALVES FOR CHILLED WATER PIPES</p> <p>Query: Kindly approve Midea make for Chilled water FCU, Cassette, Hi wall units, Please confirm.</p>	Tender conditions shall prevail.
103	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 674	<p>Tender Clause: Supply, erection, testing and commissioning of pre-insulated pipes for Chilled water circulation pipes. Pipes will be of Mild Steel (pipe wall thickness as indicated below) and insulation material shall be PUF as per the specification. The pre-insulated pipe shall be covered with 24 Gauge aluminium spiral casing.</p> <p>MS 'C' class pipes as per IS 1239 / IS 3589 with specified wall thickness cut to required lengths and installed with all Accessories</p> <p>Class of Pipe:- Sizes up to 150 mm shall confirm to IS 1239 Sizes above 150 mm shall confirm to IS 3589</p> <p>MS 'C' class pipes up to 150 mm dia Pipe dia – mm Thickness - upto 200 mm dia - 5 mm thickness 250 mm to 350 mm dia - 6 mm thickness. above 350 mm dia - 8 mm thickness</p> <p>insulation details Up to 32 mm : 30mm thick 49 mm to 100 mm : 40mm thick</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>125mm up to 300 mm : 50 mm thick 350 & above : 75 mm thick All GI / MS supports along with accessories for a maximum height of 2-3 mtr either from the ceiling slab or floor slab shall be considered in this item.</p> <p>Query: Kindly accept 26 Gauge aluminium spiral casing in lieu of 24 G aluminium casing. Please confirm.</p>	
104	SECTION VII- TECHNICAL SPECIFICATIONS ,HVAC SYSTEM WORKS, SECTION –IX - PIPES AND FITTINGS, CLAUSE 9.3 PIPING, 85 OF 129	<p>Tender Clause: The pipes and fittings shall be Mild Steel (MS) Class `C` (Heavy Class) conforming to IS:1239 Code for pipes upto 150mm dia. Factory rolled pipes 150mm dia & above shall confirming to IS:3589. The pipes of 200mm and 250mm diameter shall have min 6.3 mm wall thickness, 300mm dia pipe shall be min 7.1mm wall thickness, 350mm & above pipes diameter shall have min 8.0mm wall thickness. All jointing in the pipe system shall generally be by welding, unless otherwise mentioned, or directed at site. All welding shall be done by qualified welders and shall strictly conform to IS Code of practice for manual metal arc, welding of Mild Steel.</p> <p>Query: Pipe thickness mentioned in the BOQ and specification are different, Kindly confirm which one need to follow. Please confirm.</p>	Please refer Corrigendum - 2 issued with this document.
105	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 674	<p>Tender Clause: Supply, erection, testing and commissioning of pre-insulated pipes for Chilled water circulation pipes. Pipes will be of Mild Steel (pipe wall thickness as indicated below) and insulation material shall be PUF as per the specification. The pre-insulated pipe shall be covered with 24 Gauge aluminium spiral casing.....</p> <p>Query: UV coating asked for the exposed piping, Kindly confirm the requirement, If required please provide separate quantity for exposed piping.</p>	Please refer Corrigendum - 2 issued with this document.
106	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 733	<p>Tender Clause: Design, Supply, Installation, testing and commissioning of Pre-insulated Flow Control Valve - Pressure independent type with Dynamic Balancing Cum 2 Way modulating valves (with RPUF material similar to CHW pipe insulation specifications) for AHUs with actuator in a single Unit of Valve provided with spring return function.</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Query: Shall we consider the Non spring return type PIBCV, Kindly confirm.	
107	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 812	Tender Clause: BTU METER AND TENNANT BILLING SYSTEM Query: Shall we consider clamp on type BTU meters, Please confirm.	Tender conditions shall prevail.
108	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 925 TO 952	Tender Clause: VENTILATION WORKS, DUCT MOUNTED RECTANGULAR IN LINE FAN UNIT: Query: Kindly confirm the scope of starter panel for axial and inline fan, Please confirm	Tender conditions shall prevail. This already covered in Section IX - Schedule A: Bill of Quantities S No. 925 to 952
109	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 925 TO 952	Tender Clause: VENTILATION WORKS, DUCT MOUNTED RECTANGULAR IN LINE FAN UNIT: Query: Kindly confirm the scope of VFD for axial and inline fan, Please confirm	Tender conditions shall prevail. This already covered in Section IX - Schedule A: Bill of Quantities S No. 925 to 952
110	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 996 TO 1006	Tender Clause: BASMENET VENTILATION WORKS Query: Kindly confirm the starter panel and VFD scope for basement fans.Please confirm.	Please refer Corrigendum - 3 issued with this document.
111	GENERAL	Query: Foundation for Major equipments will not be in MEP contractor scope. Please clarify	Yes. However, minor civil works such as wall chasing, making holes, etc. if required for installation and making good shall be done by the Contractor in coordination with the civil contractor with the approval of PMC/Employer.
112	GENERAL	Query: Structure support for the major equipment coming in Terrace will be standard support (Bolting on concrete arrangement). Please confirm.	Major Equipment in terrace shall be mounted on concrete pedestals.
113	GENERAL	Query: Dimension of the major equipment will be as per OEM standard.	Tender conditions shall prevail. Drawings & BOQ Specifications to be followed.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
114	GENERAL	<p>Query: All primary supports for Ducting and piping will not be in contractor scope. Please confirm.</p>	Tender conditions shall prevail. All supports are in contractor scope. This already covered in Section IX - Schedule A: Bill of Quantities
115	GENERAL	<p>Tender Clause: Air/ Water Cooled Chillers – 1. Trane 2. York 3. Daikin Chilled water cassette Units 1.Trane 2.York 3.Samsung 4.Sinko Air Curtain 1.Systemaire 2.VTS 3.Euronics Flow Control Valves (Pressure Independent type) 1.Danfoss 2.T&A Hydronics 3.Honeywell 4.Belimo 5. JCI</p> <p>Query: We request you to kindly approve below makes a) Chiller - Voltas b) Chilled water units - Midea c) Air curtain - Mitzvah d) PIBCV - Flowcon</p>	a) to c) Tender conditions shall prevail d) Please refer Corrigendum - 2 issued with this document.
116	SECTION VI- LIST OF APPROVED MAKES-HVAC WORKS, S NO 1 PAGE 15 OF 35	<p>Tender Clause: Air/ Water Cooled Chillers – 1. Trane 2. York 3. Daikin</p> <p>Query: Request to Approve Voltas Brand in the Make List , Sir we Voltas Ltd , A TaTa Group of Company had been Continously contributing the Nation for Past 70years done several project for Tamil Nadu, National and International project Meeting their Stringent Specification . For Tamil Nadu Govt we wave done several Project including New Chennai Trade Centre , Nandambakkam for 6 x 350TR chiller. Sir there is radical thrust by Government of India for AATMNIRBHAR BHARAT, We also comply the "Class 1 Local supplier" criteria according to the Circular no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 issued by Ministry of Commerce & Industry by using more than 51% components locally in</p>	Tender conditions shall prevail

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		our chillers. Getting Order is secondary , but we atleast wants to participate in the Tender please hence requesting for approve our brand in this tender .	
117	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	<p>Tender Clause: WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant cooled as per OEM standard.), IE4 motor, water cooled condenser, insulated chiller, flow switch at chiller and condenser, spring vibration isolators, integral refrigerant piping and wiring, grooved couplings at chilled & condenser water inlets & outlets, marine water box at condenser with hinges, accessories as required and called for, automatic and safety controls mounted in central console panel and all mounted on a steel frame etc. Motor shall be suitable for operating on 415±10% 50 cycles. 3 phase AC supply and soft starter. Refrigerant used shall be Ozone friendly HFC R134a/ R 1233ZD as per specifications. Chiller for air conditioning system shall be selected on the design basis as given below condition.....</p> <p>Query: Water cooled Centrifugal chiller, calls for Marine Water Box, IE4 Motor Since the Chiller comes with 2 pass arrangement, cleaning of Heat Exchanger can be done from other side of Heat Exchanger WITHOUT Disturbing the connected pipe , hence request to accept Marine Box only for ODD pass arrangement . Also IE standard not applicable for Compressor Motors.</p>	This already covered in Section VII – Technical Specifications – HVAC System Clause No. 3.2.2
118	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC WORKS, SECTION III, CHILLER CLAUSE 3.1.2- TYPE & CAPACITY, PAGE NO: 20 OF 129	<p>Tender Clause: The chiller shall be Air Cooled water chilling machine with single or multiple screw compressors and the actual refrigeration capacity and performance requirements at given design conditions of chilling machine shall be as indicated in drawings and Bill of Quantities.</p> <p>Query: Air cooled chiller with Single Or Multiple screw compressors In BOQ it calls for Multiple screw compressors , being Working + Standby configuration , we request to consider Single/Multiple compressor or as per OEM Design please</p>	Please refer Corrigendum – 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
119	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC WORKS, SECTION III, CHILLER CLAUSE 3.1.3- GENERAL, PAGE NO: 20 OF 129	<p>Tender Clause: Provide factory-assembled and tested, packaged, air cooled, liquid chillers consisting of Unit mounted VFD with harmonic filter air cooled chilled is preferred, As per IEEE519 standards. screw compressors, compressor motor, air cooled condenser, condenser fans, evaporator, purge unit, refrigeration accessories, instrument and control panel including gages and indicating lights, auxiliary components and accessories, and motor starters. Construct and rate units in accordance with AHRI Standard 550/590.</p> <p>Query: Air cooled chiller consisting of Unit mounted VFD with Harmonics Filter BOQ did not calls for VFD or Star delta , we request to consider Star -delta Stepless Screw chiller which can also give tremendous part load benefits.</p>	Please refer Corrigendum - 3 issued with this document.
120	SECTION VII- TECHNICAL SPECIFICATIONS,HVAC WORKS, SECTION III,CHILLER CLAUSE 3.1.6 EVAPORATOR PAGE 21 OF 129	<p>Tender Clause: Provide evaporator of ASME U Stamped shell and tube type, seamless or welded steel construction, with cast iron or fabricated steel heads, integrally finned seamless copper tubes either smooth bore or internally enhanced, rolled or silver brazed into tube sheets. Space tube support sheets approximately 2.5 feet. Design, test and stamp refrigerant and water side for 150 percent of the maximum design working pressure.....</p> <p>Query: a) To provide ASME U stamping for Shell and Tube Type and Two Layers of 19mm thk insulation As Evaporator handles very very low pressure, Low temperature , ASME stamping not at all required for Evaporator. b) Request to consider the same, also our declared Power consumption which meets the tender condition is with our standard insulation of 19mm thk , hence request to consider as per OEM standard design Single or Double insulation</p>	a) Tender conditions shall prevail. b) Please refer Corrigendum - 2 issued with this document.
121	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC WORKS, SECTION III CHILLER, CLAUSE 3.1.7 AIR COOLED CONDENSER, PAGE22 OF 129	<p>Tender Clause: The condenser coil shall be made out of copper tube with aluminum fins / aluminum micro channel E-coat. The coils shall be sized so as to optimize performance with respect to air flow rate, pressure drop, condensing temperature, power consumption, etc. Thus the values furnished for the parameters of the coil in the Schedule of Equipment shall be regarded as suggested values rather than specified values.....</p> <p>Query: Fan Motor to have IP55 protection. Request to consider IP54 which also can be used Out</p>	Tender conditions shall prevail

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		door application and had supplied to many Govt organisation like IIT , IGCAR , ISRO etc	
122	SECTION VII- TECHNICAL SPECIFICATIONS,HVAC WORKS, SECTION III CHILLER CLAUSE 3.1.8 , INTEGRAL CONTROL PANEL AND CONTROL PAGE 22 OF 129	<p>Tender Clause: INTEGRAL CONTROL PANEL & CONTROLS</p> <p>Query: Controller features. We almost meet all the Controller features, Safety features. Security features etc. inline to specification, as these features vary Supplier to Supplier, we request to consider as per OEM standard.</p>	Tender conditions shall prevail
123	SECTION VII- TECHNICAL SPECIFICATIONS,HVAC WORKS, SECTION III CHILLER CLAUSE 3.1.14 - NOISE LEVEL, PAGE NO: 26 OF 129	<p>Tender Clause: Noise level of the chiller shall be ≤ 85 dB (A) 1 meter from equipment the sound levels shall be within the permissible limits and tolerances while measuring the performance in accordance with AHRI Standard 575-08, Method of Measuring Machinery Sound within Equipment Rooms.</p> <p>Query: Noise level of chiller shall be <85db @ 1meter For Air cooled chiller with Two Compressor and 24-28 fans , its difficult to achieve achieve 85 db at 1m , request to consider 90 db @ 1m . Air cutting noise of 24-28 db shall be free flow .</p>	Tender conditions shall prevail
124	SECTION VII- TECHNICAL SPECIFICATIONS,HVAC WORKS, SECTION III CHILLER, CLAUSE 3.2.1 COMPRESSOR PAGE 27 OF 129	<p>Tender Clause: The compressor shall be centrifugal type suitable for use with refrigerant provide ASHRAE A1 safety class refrigerant (R 134a & R 1233zd) for centrifugal. The chiller can be of direct drive / gear drive and to be with multiple-stage compressor with control guide vanes. The compressor shall be incorporate automatic capacity control feature. The Compressor motor shall Refrigerant/Air cooled, hermetically sealed Open drive/ Semi hermetic motor, two pole, squirrel cage induction type. In case of manufacturer offering Open motor design, suitable SPDP is proposed. (Screen protected Drip proof). For the capacity specified for the chiller model protection need to be offered for motor. The Compressor shall be designed for high efficiency and stability and shall be able to operate at all conditions from 100% down to Down to 20% at Constant Condenser without hot gas by pass. The compressor shall be of the own make of the chiller manufacturer and any third party / OEM sourced compressors</p>	Tender conditions shall prevail

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		for assembly is not acceptable. Query: Compressor shall be designed for high efficient to operate 100% down to 20% at constant condenser entry without Hot gas bypass Our chiller declared Power consumption shall be including Hot gas bypaas that comfortably meets tender specification. Hence request to accept Hot gas Bypass	
125	SECTION VII- TECHNICAL SPECIFICATIONS,HVAC WORKS, SECTION III,CHILLER CLAUSE 3.2.4, 3.2.5, 3.2.6 , 3.2.7, 3.2.8 : MICROPROCESSOR AND OTHER FEATURES PAGE 28,29,30 OF 129	Tender Clause: 3.2.4 Microprocessor Panel, 3.2.5 Control functions of the panel shall need to include: 3.2.6 Status data function of the panel to include: 3.2.7 Safeties to include: 3.2.8 Chiller Unit Control Features Query: For Whole description between 3.2.4 to 3.2.8 We almost meet all the Controller features, Safety features. Secutiy features etc inline to specification , as these features vary Supplier to Supplier, we request to consider as per OEM standard.	Tender conditions shall prevail
126	GENERAL- MATERIAL OF CONSTRUCTION MOC	Query: AS MOC varies Supplier to Supplier, We request adhere as per OEM.	Tender conditions shall prevail
127	SCOPE	Query: Please confirm whether Integrated comand centre is considered only for fintech city or does it include fintech tower too	Please refer Corrigendum - 2 issued with this document.
128	SCOPE	Query: Scope involves only gas suppression and fire signages. please confirm whether fire pump, fire piping etc is in our scope. as the same cannot be found in boq	Tender conditions shall prevail. Fire pump and fire piping is not in scope of this tender.
129	SCOPE	Query: Please provide quantity for novac piping as the same is mentioned as lot in the boq	Please refer Corrigendum – 3 issued with this document.
130	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 13	Tender Clause: Supply, Laying, Testing & commissioning of 300 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 3002797, XLPE Aluminium armoured cable laid in underground upto 1200mm deep / existing concrete trenches / cable trays/ hume pipe , including excavation of trench & minor	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>civil works, covering of exposed portion as per Project Officer`s-in-Charge. recommendation etc. including transportation from stores to site. Unpacking, with all labour and material as per specifications.</p> <p>Query: Please specify if the laying of the cables has to include the cost of excavation or it is going to be laid in built-up trenches?</p>	
131	LUMINARIES	<p>Query: Please share the equivalent model numbers for reference. Or the image of the Light fixtures</p>	<p>Tender condition shall prevail. Light Fittings Reference images are given in the Section – VII Technical Specifications Electrical Works Clause 9 - Fans / Light Fixtures & Accessories</p>
132	POINT WIRING	<p>Query: Please share the average length of the point. Since the shared layouts are in PDF format, we are not able to ascertain the exact lengths.</p>	<p>Average length shall be referred from respective BOQ item of point wiring.</p>
133	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 305 TO 311	<p>Tender Clause: 305. 100X50mm Cable Tray 306. 150X50mm Cable Tray 307. 200X50mm Cable Tray 308. 300X50mm Cable Tray 309. 450X50mm Cable Tray 310. 600X75mm Cable Tray 311. 750X75mm Cable Tray</p> <p>Query: Please specify if the Ladder type cable tray required is welded type or bolted type</p>	<p>Please refer Corrigendum - 3 issued with this document.</p>
134	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 309 TO 311	<p>Tender Clause: 309. 450X50mm Cable Tray 310. 600X75mm Cable Tray 311. 750X75mm Cable Tray</p> <p>Query: In the BOQ, the ladder tray thickness 750mm to 450mm 2mm. Kindly confirm which has to be considered</p>	<p>Please refer Corrigendum - 2 issued with this document.</p>

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
135	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 305 TO 308	<p>Tender Clause: 305. 100X50mm Cable Tray 306. 150X50mm Cable Tray 307. 200X50mm Cable Tray 308. 300X50mm Cable Tray</p> <p>Query: Please share specifications of Ladder 300mm, 200mm, 150mm & 100mm otherwise please clarify.(Shall we quote 15*30*15mm rungs & runners 12*50*12mm thickness 1.6mm thickness)</p>	Please refer Corrigendum - 2 issued with this document.
136	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 309	<p>Tender Clause: 450X50mm Cable Tray</p> <p>Query: Whereas the boq says 450mm Ladder height is 50mm. Kindly confirm which has to be considered</p>	Please refer Corrigendum - 2 issued with this document.
137	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 336	<p>Tender Clause: Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer"(galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.</p> <p>Query: Please share tray size to tray size required for the REDUCER to quote</p>	Tender condition shall prevail. This is already covered in SECTION IX - Schedule A: Bill of Quantities No. No 336 to 341.
138	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 343	<p>Tender Clause: Junction boxes – Floor</p> <p>Query: Please share the junction box with cover thickness</p>	Please refer Corrigendum - 3 issued with this document.
139	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 394	<p>Tender Clause: Preparation & submission of applications, Liasioning with EB for getting addtional Load sanction, all necessary co-ordination upto completion of the project.</p> <p>Query: Please share the extent of Load Sanction in KW</p>	Employer is responsible for paying the statutory fees related to Load sanctions & HT supply connections. Coordination and liaison with the statutory department is under the scope of the bidder

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
140	GENERAL	Query: Battery Rack stool Whereas, in boq 57 microns (400 g/sqm). Shall we quote 60-65 microns?	Minimum coating as mentioned in tender shall be provided.
141	GENERAL	Query: Cable tray Can we consider to quote for 35 to 40 microns?	Tender condition shall prevail.
142	GENERAL	Query: The Control Command Center is only for Fintech tower or including Fintech City	Please refer Corrigendum - 2 issued with this document.
143	SECTION VI- LIST OF APPROVED-MEP WORKS	Query: Upon unavailability of approved makes for any line item, can we suggest any make on case-to-case basis?	Tender condition shall prevail.
144	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 635 [ALL AHU, CSU, KITCHEN (EXHAUST & FRESH AIR) UNITS, BASEMENT VENTILATION (EXHAUST & FRESH AIR) UNITS].	Tender Clause: 5.0 TR (3000 CFM) ESP 20 MM Query: On, what basis we should deliver the units? (TR or CFM), because of, As per BOQ (TR & CFM) mismatched.	Please refer Corrigendum - 3 issued with this document.
145	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC WORKS SECTION II, GENERAL REQUIREMENTS PAGE 4 OF 129	Tender Clause: SECTION II - GENERAL REQUIREMENTS Query: General requirements states detailed engineering is in contractor's scope of work. Please confirm the same a swe usually do not do detailed engineering at the tendering time.	Tender conditions shall prevail.
146	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC WORKS SECTION II GENERAL REQUIREMENTS,	Tender Clause: The system installation shall be required to operate within the specified limits of its rating either continuously or intermittently as may be convenient without failure of any kind for a period of one (1) calendar month, before the provisional taking over certificate is issued. Final taking over and acceptance certificate will be issued only after 72 hours performance test in peak summer. Should any failure occur due to or arising from faulty design, materials or workmanship, but not otherwise sufficient to prevent the commercial use of the	Please refer Corrigendum - 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	CLAUSE 2.8.3, RELIABILITY TESTS AFTER COMMISSIONING PAGE 10 OF 129	installation, the reliability test period of one (1) calendar month shall be recommended after the Contractor has remedied the cause of failure to the satisfaction of the Consulting Engineer. The onus <u>Query:</u> stipulates that the equipment should be operated within the specified limits of its rating without any failure for 1 calendar month before provisional taking over certificate.	
147	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS SECTION II GENERAL REQUIREMENTS, CLAUSE 2.8.4, TESTING AND ADJUSTMENT DURING THE MAINTENANCE PERIOD PAGE 10 OF 129	<u>Tender Clause:</u> In addition, the Contractor shall perform such test as may be directed at any time during the Maintenance period to satisfy the Project Consultant / Client that the installation complies with the specified requirements. <u>Query:</u> The additional tests incur additional csts. Please confirm	Please refer Corrigendum - 2 issued with this document.
148	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS SECTION II GENERAL REQUIREMENTS, CLAUSE 2.11, PLANT OPERATION, PAGE 11 OF 129	<u>Tender Clause:</u> The Client shall have free and unrestricted use of the Contract works or any part thereof which the Project Consultant may deem suitable without any interference whatsoever from the Contractor and such use by the Employer shall not relieve the Contractor of any liabilities or obligations in regard to the Contract. <u>Query:</u> The warranty shall start from the time the plant gets started	Tender Conditions shall prevail
149	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS SECTION II GENERAL REQUIREMENTS, CLAUSE 2.12.1, PERFORMANCE TEST, PAGE 12 OF 129	<u>Tender Clause:</u> A performance test by keeping the plant / equipment running for a period of 72hrs shall be carried out in peak summer, peak monsoon and peak winters periods. During the tests all necessary readings shall be taken hourly. From the readings so taken, the Contractor shall also establish the Plant, System Equipment capacity. The computed results shall tally with the specified capacities furnished with tender. <u>Query:</u> Testing shall be done as per manufacturers standard procedures	Please refer Corrigendum - 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
150	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION II GENERAL REQUIREMENTS, CLAUSE 2.12.2, TESTING GUARANTEE, PAGE 12 OF 129	<p>Tender Clause: All equipment and space conditions shall be tested after carrying out necessary adjustments and balancing to establish the equipment ratings and indoor space conditions. At least Six sets of readings shall be taken daily for each item tested and submitted in the form shown separately. Instruments required for testing shall be furnished by the Contractor. All equipment shall be guaranteed for the specified ratings with a tolerance of 0% on the negative side.</p> <p>Query: Testing shall be done as per manufacturers standard procedures</p>	Tender conditions shall prevail
151	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION II GENERAL REQUIREMENTS, CLAUSE 2.14, GUARANTEE, PAGE 13 OF 129	<p>Tender Clause: The Contractor shall guarantee the inside conditions as stipulated elsewhere.</p> <p>Query: Please confirm as the additional warranty impacts the pricing</p>	Please refer Corrigendum - 2 issued with this document.
152	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC WORKS SECTION II GENERAL REQUIREMENTS, CLAUSE 2.15, MAINTENANCE IN WARRANTY / GUARANTEE PERIOD, PAGE 14 OF 129	<p>Tender Clause: The TENDERER shall furnish warranty for the entire system for a defects liability period (DLP) of 18 (eighteen) months after the final official take over date of the installation. This period shall include maintenance replacement of parts, regular periodic visit by qualified personnel of the CONTRACTOR and attending to emergency call at short notice.</p> <p>Query: The warranty should be for 18 months after the final official take over date, which means that the 3 seasonal tests should be conducted and approved. This means that the warranty will be literally almost 2.5 to 3 years from the date of commissioning. Please confirm as the additional warranty impacts the pricing</p>	Please refer Corrigendum - 2 issued with this document.
153	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	<p>Tender Clause: WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant cooled as per OEM standard.), IE4 motor, water cooled</p>	a) Tender conditions shall prevail. b) Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>condenser, insulated chiller, flow switch at chiller and condenser, spring vibration isolators, integral refrigerant piping and wiring, grooved couplings at chilled & condenser water inlets & outlets, marine water box at condenser with hinges, accessories.....</p> <p>Query: Water cooled Centrifugal chiller, calls for Marine Water Box, IE4 Motor a) Since the Chiller comes with 2 pass arrangement, cleaning of Heat Exchanger can be done from other side of Heat Exchanger WITHOUT Disturbing the connected pipe, hence request to accept Marine Box only for ODD pass arrangement . b) Also IE standard not applicable for Screw Compressor Motors</p>	
154	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.1.2- TYPE & CAPACITY, PAGE NO: 20 OF 129	<p>Tender Clause: The chiller shall be Air Cooled water chilling machine with single or multiple screw compressors and the actual refrigeration capacity and performance requirements at given design conditions of chilling machine shall be as indicated in drawings and Bill of Quantities.</p> <p>Query: Air cooled chiller with Single Or Multiple screw compressors In BOQ it calls for Multiple screw compressors , being Working + Standby configuration , we request to consider Single/Multiple compressor or as per OEM Design please</p>	Please refer Corrigendum – 3 issued with this document.
155	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.1.3- GENERAL, PAGE NO: 20 OF 129	<p>Tender Clause: Provide factory-assembled and tested, packaged, air cooled, liquid chillers consisting of Unit mounted VFD with harmonic filter air cooled chilled is preferred, As per IEEE519 standards. screw compressors, compressor motor, air cooled condenser, condenser fans, evaporator, purge unit, refrigeration accessories, instrument and control panel including gages and indicating lights, auxiliary components and accessories, and motor starters. Construct and rate units in accordance with AHRI Standard 550/590.</p> <p>Query: Air cooled chiller consisting of Unit mounted VFD with Harmonics Filter BOQ did not calls for VFD or Star delta , we request to consider Star -delta Stepless Screw chiller which can also give tremendous part load benefits.</p>	Please refer Corrigendum - 3 issued with this document.
156	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III – CHILLER,	<p>Tender Clause: Provide evaporator of ASME U Stamped shell and tube type, seamless or welded steel construction, with cast iron or fabricated steel heads, integrally finned seamless copper tubes either smooth bore or internally enhanced, rolled or silver brazed into tube sheets.</p>	a) Tender conditions shall prevail. b) Please refer Corrigendum - 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	POINT 3.1.6 EVAPORATOR PAGE 21 OF 129	<p>Space tube support sheets approximately 2.5 feet. Design, test and stamp refrigerant and water side for 150 percent of the maximum design working pressure in accordance with ASME SEC 8. Provide machine welded to heat exchanger, with tapped drain and vent connections, mechanical joint connections arranged to permit inspection of tubes from either end without disturbing refrigerant and removable without disturbing water piping. Factory insulates evaporator surfaces and all other cold surfaces with two layers of 19mm minimum thick closed cell nitrile rubber insulation. Apply insulation so that all joints are staggered and no surface capable of causing condensation is un-insulated. Finish insulation with two coats of vinyl lacquer coating. Provide thermometer wells for temperature controller and low temperature cutout. Provide refrigerant chambers with baffles to distribute entering liquid and separate liquid from leaving gas. Provide evaporator suitable for circulation of the scheduled fluid quantities; with Scheduled pressure drops from inlet to outlet, including water heads as indicated; with sufficient eliminator area or other means to prevent liquid refrigerant carry- over into compressor; and with a minimum water-side tube-temperature. Provide construction and materials conforming to ANSI B9.1 and ASME SEC 8.</p> <p>Query:</p> <p>a) To provide ASME U stamping for Shell and Tube Type and Two Layers of 19mm thk insulation</p> <p>b) As Evaporator handles very very low pressure , Low temperature , ASME stamping not at all required for Evaporator. Request to consider the same , also our declared Power consumption which meets the tender condition is with our standard insulation of 19mm thk , hence request to consider as per OEM standard design Single or Double insulation</p>	
157	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III – CHILLER, POINT 3.1.7 AIR COOLED CONDENSER PAGE22 OF 129	<p>Tender Clause:</p> <p>The condenser coil shall be made out of copper tube with aluminum fins / aluminum micro channel E-coat. The coils shall be sized so as to optimize performance with respect to air flow rate, pressure drop, condensing temperature, power consumption, etc. Thus the values furnished for the parameters of the coil in the Schedule of Equipment shall be regarded as suggested values rather than specified values.</p> <p>Query:</p> <p>Fan Motor to have IP55 protection - Request to consider IP54 which also can be used Out door application and had supplied to many Govt organisation like IIT , IGCAR , ISRO etc</p>	Tender conditions shall prevail.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
158	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III – CHILLER, 3.1.8 , INTEGRAL CONTROL PANEL AND CONTROL PAGE 22 OF 129	Tender Clause: INTEGRAL CONTROL PANEL & CONTROLS Query: Controller features - We almost meet all the Controller features, Safety features. Security features etc inline to specification , as these features vary Supplier to Supplier, we request to consider as per OEM standard.	Tender conditions shall prevail.
159	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III – CHILLER, POINT 3.1.14 - NOISE LEVEL, PAGE 26 OF 129	Tender Clause: Noise level of the chiller shall be ≤ 85 dB (A) 1 meter from equipment the sound levels shall be within the permissible limits and tolerances while measuring the performance in accordance with AHRI Standard 575-08, Method of Measuring Machinery Sound within Equipment Rooms. Query: Noise level of chiller shall be <85 db @ 1meter For Air cooled chiller with Two Compressor and 24-28 fans , its difficult to achieve achieve 85 db at 1m , request to consider 90 db @ 1m . Air cutting noise of 24-28 db shall be free flow .	Tender conditions shall prevail.
160	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.2.1 COMPRESSOR PAGE 27 OF 129	Tender Clause: The compressor shall be centrifugal type suitable for use with refrigerant provide ASHRAE A1 safety class refrigerant (R 134a & R 1233zd) for centrifugal. The chiller can be of direct drive / gear drive and to be with multiple-stage compressor with control guide vanes. The compressor shall be incorporate automatic capacity control feature..... Query: Compressor shall be designed for high efficient to operate 100% down to 20% at constant condenser entry without Hot gas bypass Our chiller declared Power consumption shall be including Hot gas bypaas that comfortably meets tender specification. Hence request to accept Hot gas Bypass	Tender conditions shall prevail.
161	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III – CHILLER,	Tender Clause: 3.2.4 Microprocessor Panel, 3.2.5 Control functions of the panel shall need to include: 3.2.6 Status data function of the panel to include: 3.2.7 Safeties to include: 3.2.8 Chiller Unit Control Features Query:	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	CLAUSE 3.2.4, 3.2.5, 3.2.6 , 3.2.7, 3.2.8 : MICROPROCESSOR AND OTHER FEATURES PAGE 28,29,30 OF 129	For Whole description between 3.2.4 to 3.2.8 We almost meet all the Controller features, Safety features. Security features etc inline to specification , as these features vary Supplier to Supplier, we request to consider as per OEM standard.	
162	GENERAL - MATERIAL OF CONSTRUCTION MOC	Query: AS MOC varies Supplier to Supplier, We request adhere as per OEM.	Tender conditions shall prevail.
163	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 625	Tender Clause: CENTRIFUGAL VERTICAL INLINE PUMPS Query: Pumps Impeller MOC shall be as per OEM Standard (either SS or Bronze). Please confirm.	Please refer Corrigendum – 2 & 3 issued with this document.
164	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 625	Tender Clause: CENTRIFUGAL VERTICAL INLINE PUMPS Query: Pump efficiency shall be as per IE-3. Please confirm.	Tender conditions shall prevail.
165	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 634	Tender Clause: Supply, installation testing & commissioning EUROVENT CERTIFIED Horizontal / vertical floor mount Air handling units having following specifications. Frame Structure consisting of 45mm Extruded Aluminium Thermal break profile Panel: 45mm +/- 2mm thick double skin sandwich panels with Puff insulation of density 48 kg/cum , The sheet thickness shall be minimum 0.8 mm for the outer skin and 0.8 mm thickness for the inner skin of GI Filtration Section shall be provided with 2 stage washable type of 'MERV8 ' first stage and 'MERV13' final stage. Coil Section: Chilled water coil Minimum 6 row deep constructed with Aluminium fins of minimum 0.11mm thickness and copper tubes of minimum 29Gauge thickness. Copper tube shall be 9.6mm or 12.5mm diameter. The coil face area shall not exceed 2.5m/sec. Coil shall be provided with copper header. Inbuilt UV Lamp to be considered upstream or downstream of..... Query: Kindly approve AHRI certified AHUs instead of Eurovent.	Please refer Corrigendum – 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
166	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 634	<p>Tender Clause: Supply, installation testing & commissioning EUROVENT CERTIFIED Horizontal / vertical floor mount Airhandling units having following specifications. Frame Structure consisting of 45mm Extruded Aluminium Thermal break profile Panel: 45mm +/- 2mm thick double skin sandwich panels with Puff insulation of density 48 kg/cum , The sheet thickness shall be minimum 0.8 mm for the outer skin and 0.8 mm thickness for the inner skin of GI</p> <p>Query: We propose AHU casing Inner skin and outer skin thickness 0.6 / 0.6mm. Please confirm.</p>	Tender conditions shall prevail.
167	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 644	<p>Tender Clause: Supply, installation testing & commissioning EUROVENT CERTIFIED Ceiling Suspended Air handling units having following specifications. Frame Structure consisting of 45mm Extruded Aluminium Thermal break profile Panel: 45mm +/- 2mm thick double skin sandwich panels with Puff insulation of density 48 kg/cum , The sheet thickness shall be minimum 0.8 mm for the outer skin and 0.8 mm thickness for the inner skin of GI</p> <p>Query: We propose AHU casing Inner skin and outer skin thickness 0.6 / 0.6mm. Please confirm.</p>	Tender conditions shall prevail.
168	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 649	<p>Tender Clause: CHILLED WATER CASSETTES along with Chilled Water Valve package consisting of Ball valve with and without strainer and PIBCV self-dynamic balancing cum control valve for CHW flow control and all accessories required shall be part of scope. MS to Copper connectors required to connect from the main CHW MS pipeline before connecting to unit. Digital wireless remote shall.....</p> <p>Query: Ch.W. Cassette Units Valve package shall be supplied from OEM. Kindly confirm.</p>	Tender conditions shall prevail.
169	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 660	<p>Tender Clause: Supply, Installation, testing & commissioning of fan coil units as specified and shown in the drawing, data sheets etc. consisting of: i) Supply & Installation of 2-way motorized PIBC valve with actuator, 2 Nos ball valves, one of them with strainer ii) Supply & Installation of compatible room thermostat iii)</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Query: FCU Valve package shall be supplied from OEM. Kindly confirm.</p>	
170	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 667	<p>Tender Clause: Supply, installation, testing & commissioning of Chilled water type Hi-wall unit with Fan, Motor having Hi-medium-Low speed,, CHW cooling Coil of suitable RD ,Filter , controls, decorative panel & power wiring from nearest power socket to indoor unit.The units should be suitable for 10 °F Δ T (CHW inlet temperature should be 44 °F and outlet should be 54 °F, Should be inclusive with valve Kit (1 Ball valve with y strainer in the supply side & 1 Ball valve with 2 Way Control Valve in the Return Line) & should include flexible CU hose to connect the chilled water pipe line to the valve Kit.</p> <p>Query: Ch.W. Hiwall Units Valve package shall be supplied from OEM. Kindly confirm.</p>	Tender conditions shall prevail.
171	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 687, 700, 707, 715, 727 & 733	<p>Tender Clause: 687. Supply and erection of Pre-insulated Butterfly valves (with RPUF material similar to CHW pipe insulation specifications) complete with pre-insulated end flanges / matching flanges, additional supports, fixing accessories, etc. The valve shall be gear operated for 200NB and above.</p> <p>700. Supply and erection of Pre-insulated Dual plate Check valves (with RPUF material similar to CHW pipe insulation specifications) complete with pre-insulated end flanges/matching flanges, additional supports, fixing accessories, etc.</p> <p>707. Design, Supply, installation, testing and commissioning of Pre-Insulated Balancing Valve (with RPUF material similar to CHW pipe insulation specifications) shall be of factory calibrated direct, acting, automatic pressure compensation type.</p> <p>715. Supply and erection of Pre-insulated 'Y' type strainer (with RPUF material similar to CHW pipe insulation specifications) with removable stainless steel screen with 3mm perforation and permanent magnet, drain piping. Rate shall inclusive of pre-insulated end flanges/matching flanges, additional supports, fixing accessories, etc.</p> <p>727. Design, Supply, installation, testing and commissioning of Pre-insulated Two way motorized Valves (ON / OFF Type) provided with spring return function in chilled water lines at chillers and condenser water line at cooling towers.....</p>	Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>733. Design, Supply, Installation, testing and commissioning of Pre-insulated Flow Control Valve - Pressure independent type with Dynamic Balancing Cum 2 Way modulating valves (with RPUF material similar to CHW pipe insulation specifications) for AHUs with actuator in a single Unit of Valve provided with spring return function.....</p> <p>Query: Chilled Water Valves We propose the insulation of valves shall be done at site instead of pre insulated valves.</p>	
172	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 687, 700, 707, 715, 727 & 733	<p>Tender Clause: 687. Supply and erection of Pre-insulated Butterfly valves (with RPUF material similar to CHW pipe insulation specifications) complete with pre-insulated end flanges / matching flanges, additional supports, fixing accessories, etc. The valve shall be gear operated for 200NB and above. 700. Supply and erection of Pre-insulated Dual plate Check valves (with RPUF material similar to CHW pipe insulation specifications) complete with pre-insulated end flanges/matching flanges, additional supports, fixing accessories, etc. 707. Design, Supply, installation, testing and commissioning of Pre-Insulated Balancing Valve (with RPUF material similar to CHW pipe insulation specifications) shall be of factory calibrated direct, acting, automatic pressure compensation type. Each valve shall limit flow rates to within ± 5 % accuracy, regardless of the system pressure fluctuations. Rate shall inclusive of additional supports, fixing accessories, thermal insulation, etc. 715. Supply and erection of Pre-insulated 'Y' type strainer (with RPUF material similar to CHW pipe insulation specifications) with removable stainless steel screen with 3mm perforation and permanent magnet, drain piping. Rate..... 727. Design, Supply, installation, testing and commissioning of Pre-insulated Two way motorized Valves (ON / OFF Type) provided with spring return function in chilled water lines at chillers and condenser water line at cooling towers. The BMS compatible actuator of the motorized valve (with RPUF material similar to CHW pipe 733. Design, Supply, Installation, testing and commissioning of Pre-insulated Flow Control Valve - Pressure independent type with Dynamic Balancing Cum 2 Way modulating valves (with RPUF material similar to CHW pipe insulation specifications) for AHUs with actuator in a single Unit of Valve provided with spring return function. The valve shall be suitable for standalone operation. Valve shall be of PN16 Rating.....</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Query: Chilled Water Valves Please approve nitrile rubber insulation for valves instead of PUF.</p>	
173	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 687, 700, 707, 715 & 727	<p>Tender Clause: 687. Supply and erection of Pre-insulated Butterfly valves (with RPUF material similar to CHW pipe insulation specifications) complete with pre-insulated end flanges / matching flanges, additional supports, fixing accessories, etc..... 700. Supply and erection of Pre-insulated Dual plate Check valves (with RPUF material similar to CHW pipe insulation specifications) 707. Design, Supply, installation, testing and commissioning of Pre-Insulated Balancing Valve (with RPUF material similar to CHW pipe insulation specifications) 715. Supply and erection of Pre-insulated 'Y' type strainer (with RPUF material similar to CHW pipe insulation specifications) with removable stainless 727. Design, Supply, installation, testing and commissioning of Pre-insulated Two way motorized Valves (ON / OFF Type) provided with spring return function in chilled water lines at chillers and condenser water line at cooling towers.....</p> <p>Query: Chilled Water Valves Please confirm pressure rating for valves.</p>	Please refer Corrigendum - 3 issued with this document.
174	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 751 & 752	<p>Tender Clause: 751. Supply and installation of Insulated Air Separators of size suitable 300NB to remove the dissolved air / gases from the chilled water loop with necessary flanges, washers, painting, etc. complete as required for Water cooled chiller 752. Supply and installation of Insulated Air Separators of size suitable 125NB to remove the dissolved air / gases from the chilled water loop with necessary flanges, washers, painting, etc. complete as required for Air cooled chiller</p> <p>Query: Air Separator Please confirm pressure rating for Air Separator</p>	Please refer Corrigendum - 3 issued with this document.
175	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 765, 778, 782, 786, 790 & 794	<p>Tender Clause: 765. Supply fixing testing and commissioning of following valves, gauges and strainers for condenser water circulation as per specification. Butterfly valve Manual) with C I body SS disc nitrile sheet % O - ring & PN 16 pressure rating as per specified. 778. Supply fixing testing and commissioning of following valves, gauges and strainers for</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>condenser water circulation as per specification. Non-Return Valve with</p> <p>782. Design, Supply, installation, testing and commissioning of Balancing Valve shall be of factory calibrated direct, acting, automatic pressure compensation type.</p> <p>786. Supply and erection of 'Y' type strainer with removable stainless steel screen with 3mm perforation and permanent magnet, drain piping. Rate shall inclusive of matching flanges, additional supports, fixing accessories, thermal insulation, etc.</p> <p>790. Supplying, fixing, testing and commissioning of following sizes Motorized butterfly valve with CI Boddy, SS Disc, O-ring and minimum PN-16.....</p> <p>794. Supply and installation of Pot strainer of size suitable for 400NB pipeline to remove the dirt particles in the condenser water loop with necessary flanges, washers, painting, etc. complete as required</p> <p>Query: Condensing Water Valves Please confirm pressure rating for valves.</p>	
176	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 828	<p>Tender Clause: CHEMICAL DOSING SYSTEM</p> <p>Query: Chemical Dosing System Only 1st charge chemicals will be considered in the quote. Kindly confirm.</p>	Tender conditions shall prevail.
177	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 828	<p>Tender Clause: CHEMICAL DOSING SYSTEM</p> <p>Query: Chemical Dosing System Kindly provide technical details of water to select the suitable chemicals</p>	Please refer Corrigendum - 3 issued with this document.
178	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 861	<p>Tender Clause: SHEET METAL DUCTING</p> <p>Supply, installation balacing and commisssioning of factroy fabricated GSS sheet metel rectangular/ round duct complete with neoprene rubber gaskets, elbows, spliter dampers, vanes, hangers suppots, etc. As per approved drawings and specifications of follwing sheet thickness complete as required. Duct pressure test to be considered (0-500 Psi) with nessarry supporting materials part of this item (Vendor need to be submit detailed report before appling insulation.Third party air balancing to be considered part of this item.</p> <p>Query:</p>	Tender Conditions shall prevail. The BoQ line item shall be operated for both Round & Rectangular Duct as per the requirement.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Rectangular / Round ducting Please confirm the type of ducting whether rectangular or round since the price differs with respective of shapes.	
179	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 861	<p>Tender Clause: SHEET METAL DUCTING Supply, installation balacing and commisssioning of factroy fabricated GSS sheet metal rectangular/ round duct complete with neoprene rubber gaskets, elbows, spliter dampers, vanes, hangers suppots, etc. As per approved drawings and specifications of follwing sheet thickness complete as required. Duct pressure test to be considered (0-500 Psi) with nessarry supporting materials part of this item (Vendor need to be submit detailed report before applying insulation.Third party air balancing to be considered part of this item.</p> <p>Query: Rectangular ducting We propose TD Flange for rectangular ducting instead of Ductmate flange. Kindly confirm</p>	Please refer Corrigendum - 3 issued with this document.
180	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 866	<p>Tender Clause: Supply and installations of factory made Powder coated sheet metal Flat oval Spiral ducting with (factory made internal thermal insulation -9 mm thick closed cell material to be considered cost of this shall be inclusive of this item) fittings, Wire supports, The factor of wire to suit to duct weight, with necessary anchor fasteners and hook arrangements with suitable rod thickness,etc., confirming SMACNA standards. Duct should be fabricated by using CNC machines, Including necessary civil works as per site condition. Exposed ducts color to match interior requirement. Colour shall be confirmed by Architect. The joints shall be 100% leak proof. The duct should be factory made internally insulated with 9mm thick antimicrobial nitrile rubber. (Light test need to considered for elliptical ducts)</p> <p>Query: Flat oval ducting Ductmate flange is not applicable. The flange arrangement as per OEM standard. Kindly confirm.</p>	Please refer Corrigendum - 3 issued with this document.
181	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 910, 911, 912, 913 & 914	<p>Tender Clause: 910. Supply and installation of (Accoustic) Duct liner (Insulation) of specified thickness of Elastomeric Rubber Insulation manufactured as per ASTM E 84 test & which should also meet NFPA 90A.....</p> <p>911. Supply and installation Thermal (Insulation) of specified thickness of Elastomeric</p>	Tender Conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Rubber Insulation manufactured as per ASTM E 84 test & which should also meet NFPA 90A supplementary materials for air distribution system which should not absorb less 0.2% water by volume (ASTM c 209), should not.....</p> <p>912. Supply and installation Thermal (Insulation) of specified thickness of Elastomeric Rubber Insulation manufactured as per ASTM E 84 test & which should also meet NFPA 90A supplementary materials for.....</p> <p>913. Supply and erection of Thermal Insulation with Protection against UV / Mechanical damage of exposed duct. The insulation shall be closed</p> <p>914. Supply and erection of Thermal Insulation with Protection against UV / Mechanical damage of exposed duct. The insulation shall be closed cell nitrile rubber with treated woven glass fibre covering.</p> <p>Query: GSS Duct insulation quantity is mismatching with duct qty.</p>	
182	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 923	<p>Tender Clause: MS duct insulation with Al. Foil faced fibre glass wool 25 mm thick, 32 kg /m3 density</p> <p>Query: MS Duct insulation Insulation quantity is mismatching with duct qty.</p>	Please refer Corrigendum - 3 issued with this document.
183	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 953	<p>Tender Clause: Supply, installation testing & commissioning EUROVENT CERTIFIED Floor mounted Treated fresh air units having following specifications.</p> <p>Frame Structure consisting of 45mm Extruded Aluminium Thermal break profile: Capacity Panel: 45mm +/- 2mm thick double skin sandwich panels with Rockwool insulation of density 60 kg/cum , The sheet thickness shall be minimum 0.8 mm for the outer skin and 0.8 mm thickness for the inner skin of GI . with Plenum box for fresh air intake.</p> <p>Filtration Section shall be provided with 2 stage washable type of 'MERV8 ' first stage and 'MERV14' final stage.</p> <p>Coil Section: Chilled water coil Minimum 8 row deep constructed with Aluminium fins of minimum 0.11mm thickness and copper tubes of minimum 29Guage thickness. Copper tube shall be 9.6mm or 12.5mm diameter. The coil face area shall not exceed 2.5m/sec.</p> <p>Coil Section is Equipped with Factory Fitted Energy Valve / PIBV , UV Lamp considered along with the unit.</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Drain Pan: Condensate drain pan shall be fabricated from 20 G SS 304 powder coated, insulated with 19 mm thick closed cell elastomeric insulation.</p> <p>Fan Section: Direct drive backward curved EC fan (Electronically commutated) with permanent magnet brushless DC motor for stepless variation of speed of fan based on temperature sensor inputs. The fan section shall be provided with limit switch for safety to shut off fan during Opening of access door.</p> <p>Electrical starter Panel with Auto /Manual switch and incoming power terminal along with provision for fire damper on/ off within AHU room.</p> <p>Instrumentation Kit to be provided to give out the following option.</p> <p>Query: TFA Please provide clear information about instrumentation kit for TFA</p>	
184	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 996	<p>Tender Clause: Exhaust air application - Normal Mode & Fire mode - Supply, installation, testing and commissioning of Exhaust air Vane axial flow fans. Fan construction shall include Pre-galvanized or Hot Dip Galvanized casing with minimum 220 GSM Zinc Coating, welded or casted propeller with aluminum airfoil blades, straightening vanes, universal mounting arrangement and Totally Enclosed Fan-Cooled (TEFC) motor. Motors shall be VFD rated with IE4 efficiency. Motor shall be suitable for 415V, 3 Phase, 50 Hz AC supply. Fans shall have minimum high temperature rating of 250°C for 2 hours with UL certification under Power Ventilators for Smoke-control Systems or valid European certification in accordance with EN12101-3.</p> <p>Fans shall be AMCA certified for Sound and Air Performance.</p> <p>Fans shall have a minimum Total efficiency of 70%</p> <p>Fan Sound Power level (LwA) shall be less than 92.5 dBA or Sound pressure level shall be 75 dBA @ 3 mtr under hemispherical reverberant room conditions</p> <p>Fans accessories: Fan Hood, Butter fly damper, Vibration isolators, Inlet/outlet guards, Silencers, Inlet Bell, Inspection section/door, Companion flanges, fire rated canvas etc.</p> <p>Query: Basement Ventilation - Exhaust Fan Fan noise level shall be as per OEM standard for Exhaust Fans.</p>	Tender Conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
185	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 996	<p>Tender Clause: Exhaust air application - Normal Mode & Fire mode - Supply, installation, testing and commissioning of Exhaust air Vane axial flow fans. Fan construction shall include Pre-galvanized or Hot Dip Galvanized casing with minimum 220 GSM Zinc Coating, welded or casted propeller with aluminum airfoil blades, straightening vanes, universal mounting arrangement and Totally Enclosed Fan-Cooled (TEFC) motor. Motors shall be VFD rated with IE4 efficiency. Motor shall be suitable for 415V, 3 Phase, 50 Hz AC supply. Fans shall have minimum high temperature rating of 250°C for 2 hours with UL certification under Power Ventilators for Smoke-control Systems or valid European certification in accordance with EN12101-3. Fans shall be AMCA certified for Sound and Air Performance. Fans shall have a minimum Total efficiency of 70% Fan Sound Power level (LwA) shall be less than 92.5 dBA or Sound pressure level shall be 75 dBA @ 3 mtr under hemispherical reverberant room conditions Fans accessories: Fan Hood, Butter fly damper, Vibration isolators, Inlet/outlet guards, Silencers, Inlet Bell, Inspection section/door, Companion flanges ,fire rated canvas etc.</p> <p>Query: Basement Ventilation - Exhaust Fan We presume the motor insulation shall be class 'H'. Please confirm.</p>	Please refer Corrigendum - 3 issued with this document.
186	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1015, 1016, 1017, 1018 & 1019	<p>Tender Clause: 1015. GI Hot dip Galvanized Ladder type Cable trays with suitable supports and all other accessories 1016. GI Hot Dip / Powder Coated 16 SWG Cable Tray with 600mm width and 50mm height 1017. GI Hot Dip / Powder Coated 16 SWG Cable Tray with 450mm width and 50mm height 1018. GI Hot Dip / Powder Coated 16 SWG Cable Tray with 300mm width and 50mm height 1019. GI Hot Dip / Powder Coated 16 SWG Cable Tray with 150mm width and 50mm height</p> <p>Query: Cable Tray Please confirm the type of cable tray whether ladder or perforated with cover.</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
187	COVER-II PRICE BID SECTION – IV CONDITIONS OF CONTRACT, CLAUSE 65 POWER, WATER & OTHER FACILITIES PAGE 47 OF 70	<p>Tender Clause: POWER, WATER & OTHER FACILITIES</p> <p>Query: We request you to provide electricity power and water for construction purpose at free of cost.</p>	Tender Conditions shall prevail.
188	COVER-II PRICE BID SECTION – V CONTRACT DATA, SL.NO 19,20,21 & 22 PAGE 69,70 OF 70	<p>Tender Clause: Sl.No 19 Payment break-up for Supply Order Line Item. 50% of accepted SITC rate of items on pro-rata basis shall be made against supply of all materials/ Equipment on completion of necessary documentation, test certificate from the competent authorities and certification by PMC/ EMPLOYER, within 30 working days. Sl.No 20 Payment break-up for Installation Order Line item. 30% of accepted SITC rate of items shall be made against completion of respective Installation in position at site, within 30 working days, after certification is received from PMC/ EMPLOYER. Sl.No 21 Payment break-up for Testing and commissioning 10% of accepted SITC rate of items shall be made against completion of respective Testing and commissioning in position at site, within 30 working days, after certification is received from PMC/ EMPLOYER. Sl.No 22 Payment break-up for Handing over. 10% of accepted SITC rate of items payment shall be made on handing over of works and submission of all documentation including as-built drawings, test reports, after obtaining respective statutory approval applicable for operating the package from competent authorities and acceptance by PMC/EMPLOYER within 30 working days.</p> <p>Query: We request following payment terms, 1. 75% against supply on prorata basis 2. 15% against installation on prorata basis 3. 5% against testing & commissioning and 4. 5% against handing over.</p>	Please refer Corrigendum - 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
189	COVER-II PRICE BID SECTION – V, CONTRACT DATA, SL.NO 16, PAGE 69 OF 70	Tender Clause: Period for payment of Running Bill Payments shall be made by the EMPLOYER within 30 working days from the date of RA Bill certification by the PMC. Query: We request you to confirm the payment 30 days from the date of submission of our bills.	Please refer Corrigendum - 2 issued with this document.
190	COVER-II PRICE BID SECTION – V CONTRACT DATA, SL.NO 18, PAGE 69 OF 70	Tender Clause: Period for payment of Final Bill Payments shall be made by the EMPLOYER within 45 working days from the date of final bill certification by the PMC/ EMPLOYER Query: We request you to confirm the payment 30 days from the date of submission of our final bills.	Please refer Corrigendum - 2 issued with this document.
191	GENERAL	Query: Space for Site office - We request you to provide us the permanent space to construct our site office and stores.	Tender Conditions shall prevail.
192	GENERAL	Query: Mobilisation advance We request you to provide us 20% mobilistaion advance against ABG.	Tender Conditions shall prevail.
193	GENERAL	Query: Pre Qualification Criteria We request you to remove the clause of previous experience in ELV systems from the PQ of the tender.	Tender Conditions shall prevail.
194	SECTION VI- LIST OF APPROVED MAKES-HVAC SYSTEM WORKS, S NO 1, PAGE 15 OF 35	Tender Clause: Air/ Water Cooled Chillers 1. Trane 2. York 3. Daikin Query: Chillers Climaveneta, Kirloskar & Voltas	Please refer Corrigendum - 2 issued with this document.
195	SECTION VI- LIST OF APPROVED MAKES-HVAC SYSTEM WORKS,	Tender Clause: Chilled water pumps 1. ITT Industries 2. Grundfos 3. Armstrong	Please refer Corrigendum - 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	S NO 2, PAGE 15 OF 35	Query: Chilled water pumps Wilo & Lubi	
196	SECTION VI- LIST OF APPROVED MAKES-HVAC SYSTEM WORKS, S NO 4, PAGE 15 OF 35	Tender Clause: Air Handling Units 1.Zeco 2.System air 3.Caryaire Edgetech 4.Citizen 5.VTS Query: AHU Luftek	Tender Conditions shall prevail.
197	SECTION VI- LIST OF APPROVED MAKES-HVAC SYSTEM WORKS, S NO 6, PAGE 15 OF 35	Tender Clause: Chilled water cassette Units 1.Trane 2. York 3.Samsung 4.Sinko Query: Ch.W. Cassette Units Midea and Bria	Tender Conditions shall prevail.
198	SECTION VI- LIST OF APPROVED MAKES-HVAC SYSTEM WORKS, S NO 5, PAGE 15 OF 35	Tender Clause: Fan Coil Units 1.Caryaire 2. Zeco 3.Edgetech 4.System air 5.Waves Query: Ch.W. FC Units Midea and Bria	Tender Conditions shall prevail.
199	SECTION VI- LIST OF APPROVED MAKES-HVAC SYSTEM WORKS	Query: Pre insulated valves Kindly provide the make list for all type of pre insulated valves	Please refer Corrigendum – 2 & 3 issued with this document.
200	SECTION VI- LIST OF APPROVED MAKES-HVAC WORKS, S NO 29, PAGE 18 OF 35	Tender Clause: Pressurized Expansion Tank 1.Anergy 2.Hydronics Query: Expansion tank and pressurisation system Emerald	Tender Conditions shall prevail.
201	SECTION VI- LIST OF APPROVED MAKES-HVAC WORKS, S NO 30, PAGE 18 OF 35	Tender Clause: Air separator 1.Anergy 2.Hydronics Query: Air Separator - Emerald	Tender Conditions shall prevail.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
202	SECTION VI- LIST OF APPROVED MAKES-HVAC WORKS, S NO PAGE 16 OF 35	Tender Clause: Query: Ventilation fans - Axial type Elta, Airflow, Carryaire	Please refer Corrigendum - 2 issued with this document.
203	SECTION VI- LIST OF APPROVED MAKES-HVAC WORKS, S NO PAGE 1 OF 35	Query: Jet Fans Elta	Tender Conditions shall prevail.
204	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS, SCOPE OF WORK PAGE 5 OF 198	Tender Clause: Civil work for wall opening, minor core cutting in floors, minor chipping works for lighting inside building, cable burial including excavation, back filling, and compression etc as detailed in technical specification. Foundation frames, bolts, bolts of special design, embedment's, anchor fasteners and inserts Query: Wall opening & core cutting shall be in client's scope. If not, then please incorporate separate BOQ item for the same.	Wall opening & core cutting is not in scope of bidder. However, minor civil works such as wall chasing, making holes, etc. if required for installation and making good shall be done by the Contractor in coordination with the civil contractor with the approval of PMC/Employer.
205	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC SYSTEM WORKS, SECTION II - GENERAL REQUIREMENTS, CLAUSE 2.17 ANNUAL MAINTENANCE CONTRACT PAGE 15 OF 129	Tender Clause: The Contractor shall quote separately for comprehensive annual maintenance contract for full three years period after the Defect Liability Period (DLP). The Contractor shall bear the full responsibility for all kinds of maintenance, which includes periodic maintenance, as well as attending to all breakdown and emergency calls at short notice whenever called. During this three year period the scope of annual maintenance contract includes repair and replacement of any or all parts as required. Besides, the replenishment of all consumables shall also to be included in the scope of annual maintenance contract. Query: Comprehensive AMC shall not be quoted as a separate item for the same is not available in the BoQ	Please refer Corrigendum - 2 issued with this document.
206	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, 1.5.3 SPECIFICATION FOR IP CCTV CAMERAS	Tender Clause: Camera OEM shall be provided 5 years warranty only for cameras. Execution contractor shall be referred the applicable tender conditions for their execution contractor. Query:	Please refer Corrigendum - 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	PAGE 119 OF 240	<p>1. As per tender, 5 year warranty is asked for the camera. We understand, our scope shall be limited to DLP of 1 year only. Please accept.</p> <p>2. Different warranty are mentioned for different equipment in the technical specs such as 3 year/5 year warranty. We understand our scope shall be limited to DLP of 1 year only. Please accept.</p>	
207	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL DATA SHEET, G. DATA SHEET FOR HT PANELS, S.NO 1.10 PAGE 18 OF 45	<p>Tender Clause: INTERNAL ARC WITHSTAND CAPACITY (A FLR) AT RATED SWITCHGEAR FAULT CURRENT: 26.2 kA/1 Sec</p> <p>Query: Please accept HT panels with internal arc test of 26.2KA for 0.1 sec as the authorized system house provide arc test with 0.1 second only</p>	Tender condition shall prevail.
208	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS, CLAUSE 1,2.18 & 14 PAGE 13,14,27,123 OF 198	<p>Tender Clause: HT panel: The BIDDER shall furnish a list of recommended spare parts for five years operation along with unit prices RMU: One set of spares recommended for three years of trouble-free operation, such as closing & tripping coil sets, gaskets, spring charging motor, bus bar support insulators etc. & critical spares. List of all recommended spares along with unit rates shall be furnished by Bidder along with commercial offer TF: The BIDDER shall quote item wise prices for the spares recommended for 3 years trouble free operation or as per the agreement between VENDOR and PURCHASER. UPS: BIDDER shall include list of spares with quantities as recommended for three years trouble free operation.</p> <p>Query: a) Please provide list of required spares b) We understand that price of recommended spares shall not be part of bid evaluation</p>	a) & b) Tender conditions shall prevail. The bidder shall calculate the spares required that will be incurred for the period mentioned in the tender and bid accordingly.
209	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 6	<p>Tender Clause: Supply & providing of M10 Concrete in the RMG & HT panel -1 yard as per the site conditions. The Rate shall include cleaning & levelling of the yard as required at the site. (At RMG & HT panel-1 area)- 26 sqmtr</p> <p>Query: Please provide thickness of the wall</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
210	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 11 & SECTION VII- TECHNICAL SPECIFICATIONS- ELECTRICAL DATA SHEET, DATA SHEET FOR DISTRIBUTION TRANSFORMER, SL.NO 9 PAGE 9 OF 45	<p>Tender Clause: BOQ: OLTC Tap settings: +10 % to -10%, 2.5% for each step Datasheet: tapping range: - 5% to + 5.0% at steps of 2.5%</p> <p>Query: Different tapping ranges are mentioned BOQ & datasheet. Please confirm the requirement</p>	Please refer Corrigendum - 3 issued with this document.
211	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 11 & SECTION VII- TECHNICAL SPECIFICATIONS- ELECTRICAL WORKS, CLAUSE 2.13 PAGE 25 OF 198	<p>Tender Clause: BOQ: Factory testing shall be carried out as per the technical specifications on all the transformers. Testing shall include all routine tests as per latest IS / IEC standards and special tests like Partial discharge test, heat run test, temperature rise test etc. All routine and special tests shall be carried out on all the transformers. Specs: In addition, if required, special Tests as listed below shall be carried out as per applicable standards and the BIDDER shall quote extra unit prices for carrying out the same. Partial Discharge test, Acoustic Sound Level measurement, Short Circuit Test, Thermal Shock Test, Environmental Test, Climate Test, Fire Behaviour Test</p> <p>Query: a) We understand that as mentioned in specification, special test shall be conducted on chargeable basis. b) We shall submit the short circuit test report. We do not envisage conducting the same.</p>	a) Please refer Corrigendum - 2 & 3 issued with this document. b) Please refer Corrigendum-3 issued with this document.
212	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 13 & SECTION VII- TECHNICAL SPECIFICATIONS- ELECTRICAL DATA SHEET, E. DATA SHEET FOR HT CABLES, SL.NO 3.1 PAGE 12 OF 45	<p>Tender Clause: BOQ: 300 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 3002797, XLPE Aluminium armoured cable datasheet: FRLS outer sheath</p> <p>Query: In HT cable BOQ does not mention FRLS whereas datasheet calls for FRLS outer sheath. Please confirm the requirement</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
213	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 13	<p>Tender Clause: Supply, Laying, Testing & commissioning of 300 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 3002797, XLPE Aluminium armoured cable laid in underground upto 1200mm deep / existing concrete trenches / cable trays/ hume pipe , including excavation of trench & minor civil works,covering of exposed portion as per Project Officer`s-in-Charge. recommendation etc. including transportation from stores to site. Unpacking, with all labour and material as per specifications.</p> <p>Query: We understand that HT cable shall be laid in existing tray/trench. Excavation/backfilling, if applicable, shall be covered under item no. 8</p>	Please refer Corrigendum - 3 issued with this document.
214	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 18	<p>Tender Clause: contractor to consider the termination requirement as per the cable sizes sheet provided.</p> <p>Query: Cable terminations shall be covered under respective items covered in the BOQ</p>	Tender conditions shall prevail. Cable Termination is already covered and shall be referred from respective BOQ line item.
215	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 18 & SLD NOTE NO. 14	<p>Tender Clause: BOQ: Please consider IP42 for Indoor panel & IP 55 for out door panels if it is not specified SLD: For LT indoor panels IP42 shall be provided & outdoor panels IP65 shall be provided</p> <p>Query: We understand that as per specification, outdoor panels shall be with IP55 enclosure.</p>	Please refer Corrigendum-2 (Annexure-1) issued with this document.
216	SECTION VII- TECHNICAL SPECIFICATIONS- ELECTRICAL WORKS, CLAUSE 4 LT PANELS PAGE 48 OF 198	<p>Tender Clause: SLD: ALL MCCBs RATED UPTO 200A SHALL BE TMA BASED. 200A & ABOVE SHALL BE MICROPROCESSOR BASED (OC+EF+SC). E/F RELEASE SHALL BE INBUILT WITH MCCB. EXTERNAL E/F RELEASE IS NOT ACCEPTABLE Specs: For thermal magnetic release the earth fault protection shall be provided by CBCT, ELR and shunt trip coil.</p> <p>Query: We understand that as per SLD, thermal magnetic MCCBs are without E/F release.</p>	Please refer Corrigendum - 2 (Annexure-1) issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
217	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL DATA SHEET - DATA SHEET FOR BUSBAR TRUNKING/BUSDUCTS, SL.NO 1.5 PAGE 13 OF 45	Tender Clause: Rated insulation voltage: 1100 V Query: As per OEM, BBT insulation shall be suitable for 1000V	Please refer Corrigendum - 2 issued with this document.
218	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 69-102	Tender Clause: Rising Main & Bus Ducts Query: We understand that busduct & rising mains shall be measured end to end including accessories (bends, flange ends). Accessories shall be paid separately for it's fabrication cost.	Tender conditions shall prevail.
219	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 158	Query: We shall consider Aluminium & Copper FS cable complying to IEC:60502-1, Fire Circuit Integrity as per IEC-60331 Part-11, flammability test as per IEC 60332-1. The circuit integrity shall be 690 deg. for 90 minutes.	Please refer Corrigendum - 3 issued with this document.
220	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 170, 206	Tender Clause: 170: double compression brass glands, AL/CU. terminal sockets 206: brass double compression Flame Proof gland and Aluminium/ copper lugs Query: We understand that AL & CU lugs to be provided for AL & CU cables, respectively.	Consider Al & Cu lugs to be provided for Al & Cu cables
221	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 235, 253-257	Tender Clause: 235: Reference image and base rate for decorative fixtures given in the technical specification documents for reference. 253-257: Decorative lights. Query: We understand that as per specification decorative lights covered under item no. 253-257 shall be quoted based on base rate.	Tender conditions shall prevail.
222	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 233	Tender Clause: architectural pole - 6-7M Height Pole made in combination MS Pipe of 89mm dia & top single arm bracket which is made of hot dip galvanised mild steel pipe sections 60mm dian	a) Please refer Corrigendum - 3 issued with this document. b) Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>with pleasing aesthetics. After Fabrication, Entire Pole is hot dip galvanized (60 microns Minimum) for the effective corrosion resistance. Pole & it's parts are painted in 3 layer coating(coating thickness-100 microns minimum) in which 1st layer with etch primer, 2nd layer with epoxy primer & 3rd final layer with PU paint- Grey colour</p> <p>Query:</p> <p>a) Please confirm whether requirement is of swaged steel tubular pole or octagonal pole. b) Please confirm the length of the pole (6 or 7 mtr). c) Please confirm the requirement of PU paint as the pole is hot dip galvanized.</p>	c) Tender conditions shall prevail.
223	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 264	<p>Tender Clause: POINT WIRING - SENSOR CONTROL- PRIMARY LIGHT POINT The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with brass screws earthing of all points using third wire l. Primary light point means wiring from first switch control to the sensor, the first light outlet and to the subsequent next Switch/sensor in that circuit. The switch and all necessary accessories would be part of primary point.</p> <p>Query: We understand that switch, box & plate shall not be applicable in sensor control point</p>	Tender conditions shall prevail.
224	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 269	<p>Tender Clause: POINT WIRING - MCB CONTROL Supply, installation, Testing and Commissioning of point wiring using 3R x 1.5Sq.mm for Secondary wiring FRLS 1100V wire of approved make drawn in Suitable dia Steel conduit including all conduit accessories such as bends, junction boxes etc., complete. Note: For staircase lighting - Concealed conduiting - PVC FRLS conduit needs to be considered.</p> <p>Query: Please incorporate separate BOQ item for wiring in PVC conduit.</p>	Tender conditions shall prevail.
225	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 271, 272	<p>Tender Clause: Light & Power Wiring for Elevators.... The Quantity of below mentioned items shall be considered as per no.of Floors mentioned above of each lift & comprising of :- a. 12w LED Bulk Head - IP65 Protection</p>	a) & b) Elevator wiring includes all related components listed in S.No a. to e. It should not be considered separately from the wiring and light fixture items.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		b. 6A 3 Pin switched socket outlet c. Wiring for light points controlled by a 6A switch. d. Wiring for pit light using 2 Nos 6A 2 way switches. e. Wiring for sets of 6A switched & socket outlets. Query: We understand that: a) Circuit wiring from DB to switch/socket shall be covered under item no. 258 & 259 (circuit wiring) b) Bulkhead light shall be covered from light fixture subhead	
226	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 272	Tender Clause: Supply, Installation, Testing & Commissioning of Light & Power Wiring for Passenger Elevators (P1+1F+2F+3F+4F+5F+6F+7F+8F+9F-10Floors) & Service Elevators (B2+B1+P1+P2+P3+1F+2F+3F+4F+5F+6F+7F+8F+9F+TF - 15 Floors) comprising of following items.... Query: Since passenger lifts & service lifts shall travel different no. of floors, please make separate items for these lifts.	Please refer Corrigendum - 3 issued with this document.
227	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 304	Tender Clause: Ladder type cable tray Query: Please incorporate separate BOQ item of bends, cross members, Tees, & reducers for ladder type trays.	Tender conditions shall prevail.
228	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 386	Tender Clause: Supply, fabrication and installation of MS structural supports Query: We request you to cover all the supports required for installation of busducts, rising mains, cable trays, raceways, & light fixtures under this support item.	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
229	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 394	<u>Tender Clause:</u> Preparation & submission of applications, Liaisoning with EB for getting additional Load sanction, all necessary co-ordination upto completion of the project. <u>Query:</u> Please confirm the additional load to be sanctioned.	This will be available during execution stage only.
230	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS, CLAUSE 12 AUXILIARY POWER SUPPLY PAGE 108 OF 198	<u>Tender Clause:</u> Battery must be capable of continuous operation in temperatures range of -15 oC to+50oC for prolonged periods. No Air-conditioning shall be provided where batteries are to be installed <u>Query:</u> As per OEM design, batteries shall be suitable for operation at 25-27 deg C.	Tender conditions shall prevail.
231	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS, CLAUSE 15, INSTALLATION SPECIFICATION PAGE 124 OF 198	<u>Tender Clause:</u> The OWNER may engage specialist engineers from the equipment MANUFACTURERS to supervise the installation, testing and commissioning of their equipment. The CONTRACTOR shall extend full cooperation to these engineers and carry out the works as per their instructions. <u>Query:</u> We do installations ourselves. In case owner engages specialist engineer from equipment manufacturer to supervise the installation, testing and commissioning, the associated cost shall be borne by client	Tender condition shall prevail.
232	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 449	<u>Tender Clause:</u> Design, Supply, Loading, Unloading, Installation, Testing & Commissioning of 130kW SOLAR ROOFTOP SYSTEM with the following items/works <u>Query:</u> Most of the items covered under solar subhead are in LOT. Please provide quantities of these items.	Tender conditions shall prevail.
233	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 449	<u>Tender Clause:</u> BOQ: 130kW SOLAR ROOFTOP SYSTEM with the following items/works... Specs: A Grid Tied Solar Rooftop Photo Voltaic (SRPV) power plant consists of... <u>Query:</u> We understand that the required solar system is grid connected.	Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
234	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS, CLAUSE 17, DIESEL GENERATOR SETS PAGE 193 OF 198	<p>Tender Clause: SITE Tests: After the erection and wiring and earthing of D.G. Set the tests as stipulated by the manufacturers shall be conducted. The BIDDER, at no extra cost, shall provide all instruments, load banks, consumables (like Dube oil, HSD, Filters etc) and accessories required for testing and commissioning of the items specified for the required duration of test</p> <p>Query: We understand that for site test a) consumables shall be provided by client b) tests shall be conducted at available loads. Load bank is not considered by us</p>	a) & b) Tender conditions shall prevail.
235	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 297-299	<p>Query: EV Charger - Please provide makes for EV charger</p>	Please refer Corrigendum - 2 issued with this document.
236	SECTION VI- LIST OF APPROVED MAKES, ELECTRICAL WORKS, S NO 2, PAGE 2 OF 35	<p>Tender Clause: Transformer 1. SGB, 2. ABB-HITACHI, 3. CG, 4. HAMMOND, 5. RAYCHEM</p> <p>Query: Sudhir / Ames Impex / PVJ</p>	Tender conditions shall prevail.
237	SECTION VI- LIST OF APPROVED MAKES S NO 3,4 PAGE 2 OF 35	<p>Tender Clause: LT Panels & Switchgears 1. SCHNEIDER 2. SIEMENS 3. ABB 4. LEGRAND 5. LAURITZ KNUDSEN (FORMERLY L&T) (OEM AUTHORISED / OEM PREFERRED PANELS VENDOR ONLY)</p> <p>Query: Mitsubishi & it's channel partner</p>	Tender conditions shall prevail.
238	SECTION VI- LIST OF APPROVED MAKES ELECTRICAL WORKS, S NO 35, PAGE 7 OF 35	<p>Tender Clause: MODULAR - SWITCHES & SOCKETS 1. WIPRO (ARTISA) 2. LEGRAND (ARTEOR) 3. PANASONIC (VISION) 4. SCHNEIDER (ZENCELO) 5. ABB (IVIE) 6. GREATWHITE (ARCUS)</p> <p>Query:</p>	Tender conditions shall prevail.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		MK Honeywell	
239	SECTION VI- LIST OF APPROVED MAKES ELECTRICAL WORKS S NO 36, PAGE 8 OF 35	<p>Tender Clause: METAL CLAD PLUG & SOCKETS & IP-65 PLUG & SOCKETS 1. LEGRAND 2. SCHNEIDER 3. SCAME 4. CAPE ELECTRIC 5. HENSEL</p> <p>Query: Neptune</p>	Please refer Corrigendum - 2 issued with this document.
240	SECTION VI- LIST OF APPROVED MAKES ELECTRICAL WORKS, S NO 42, PAGE 8 OF 35	<p>Tender Clause: CABLE TRAYS 1. INDIANA 2. PROFAB 3. PATNY 4. CLASSIC 5. TECHNOFAB 6. PUSHPAK</p> <p>Query: MEM / RM Con / BEC</p>	Please refer Corrigendum - 2 issued with this document.
241	SECTION VI- LIST OF APPROVED MAKES ELECTRICAL WORKS, S NO 43, PAGE 8 OF 35	<p>Tender Clause: WALL / FLOOR RACEWAYS 1. INDIANA 2. PROFAB 3. OBO 4. PUSHPAK 5. LEGRAND</p> <p>Query: Makes approved for cable trays</p>	Tender conditions shall prevail.
242	SECTION VI- LIST OF APPROVED MAKES ELECTRICAL WORKS, S NO 50, PAGE 9 OF 35	<p>Tender Clause: BATTERY CHARGER & DCDB 1. CHHABI 2. MASS-TECH CONTROLS 3. UNIVERSAL 4. HBL</p> <p>Query: Amara Raja / Maha Mai</p>	Please refer Corrigendum - 2 issued with this document.
243	SECTION VI- LIST OF APPROVED MAKES ELECTRICAL WORKS, S NO 53, PAGE 10 OF 35	<p>Tender Clause: INDOOR / FACADE LIGHTS 1. WIPRO 2. PHILIPS 3. LIGHTNING TECHNOLOGIES 4. PANASONIC 5. REGENT 6. EVOLITE</p> <p>Query:</p>	Please refer Corrigendum - 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Bajaj	
244	SECTION VI- LIST OF APPROVED MAKES ELECTRICAL WORKS, S NO 56 PAGE 10 OF 35	<p>Tender Clause: BUS DUCTS / RISING MAINS 1. SCHNEIDER 2. LEGRAND 3. C&S 4. GODREJ 5. LAURITZ KNUDSEN (FORMERLY L&T)</p> <p>Query: RR Kabel / Alfaduct</p>	Tender conditions shall prevail.
245	SECTION VI- LIST OF APPROVED MAKES ELECTRICAL WORKS, S NO 61, PAGE 11 OF 35	<p>Tender Clause: LIGHTING POLES 1. WIPRO 2. BAJAJ ELECTRICALS 3. KESELEC 4. K-LITE 5. PHILIPS 6. NERI</p> <p>Query: Crompton / Valmount</p>	Tender conditions shall prevail.
246	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1048	<p>Tender Clause: Supplying, installation, testing & commissioning of microprocessor based Intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics.....</p> <p>Query: Specifications of Fire Alarm panel mentioned in the BOQ is slightly different from specifications mentioned in the technical specifications. We shall consider as per BOQ. Please accept.</p>	Please refer Corrigendum - 3 issued with this document.
247	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1053	<p>Tender Clause: Supplying, installation, testing and commissioning of Response indicator for all detectors located above false ceiling / Below False Floor complete with all connections etc as required with Back box, Glands</p> <p>Query:</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		We shall consider response indicator as per approved make list. It shall be Non-UL listed. Please accept.	
248	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1058	<u>Tender Clause:</u> Supplying, installation, testing and commissioning of intelligent Addressable Beam Detector with Short Circuit Isolator (inbuilt or separate) complete with emitter and received including connections with remote test features etc complete as required with back box, Glands..... <u>Query:</u> Please accept conventional Beam Detector with control Module / Addressable Beam detector, since addressable beam detector is not available with every OEM mentioned in the approve make list.	Please refer Corrigendum - 3 issued with this document.
249	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1061	<u>Tender Clause:</u> Supplying, installation, testing and commissioning of addressable horn cum strobe complete as required with Back Box, Glands <u>Query:</u> As per BOQ, addressable Horn cum strobe has been asked. We shall provide control module along with Hooter in case of conventional Hooter as mentioned in technical specs (page no. 414).	Please refer Corrigendum - 3 issued with this document.
250	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1083	<u>Tender Clause:</u> Supplying and fixing of following sizes of steel conduit along with accessories in surface / recess including painting in case of surface conduit or cutting the wall and making good the same in case of recessed conduit as required 25 mm <u>Query:</u> As per BOQ, steel conduit has been asked. We understand it is MS conduit. Thickness shall be 1.6 mm. Please confirm.	Please refer Corrigendum - 3 issued with this document.
251	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1086	<u>Tender Clause:</u> Supply, Installation, Testing & Commissioning of Wall Mount Loud Speaker with EN 54 or UL Certified, having the following specifications: Surface / Wall mount speaker with Driver: ~ 4" Polypropylene Woofer, ~ 1" Ferrofluid Cooled Dome Tweeter	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Power 9W or Better Rated Power: 6 Watts or better Sensitivity: 88dB or better Power Tapping: 6/3/1.5W or better Effective frequency range (-10 dB) :15 Hz to 16KHz or better Dispersion: 90° x 90° UV-resistant PC / ABS, Injection Moulded, Weatherproof Enclosure, Note: The rate shall inclusive weatherproof cabinet for Cafeteria wall mount 6W Speaker. The Quantification of the weatherproof speakers as per the tender drawing. Query: Specs mentioned in the BOQ for speakers/PAS , points towards a single make. Please confirm whether we have to consider same make or we can consider speaker /PAS from approved make list. Specs of speaker/PAS shall be as per OEM standard.</p>	
252	<p>SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1119 & SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.2.16, CABLE TRAYS AND ACCESSORIES, PAGE 56 OF 240</p>	<p>Tender Clause: BOQ - Supplying, installation, testing and commissioning of MS Powder coated Trunking 300 x 50 mm x 2mm with cover & fixing supports etc as required for panel dressing Spec- Cable trays if used, shall be Hot dip Galvanized GI Perforated type as specified complete with matching fittings (like brackets, elbows, bends, tees, crosses, etc.) accessories (like side coupler plates, etc. and hardware (like bolts, nuts, washers, G.I. strap, hook etc.) as required. Query: a) As per BOQ, MS cable tray has been asked while GI cable tray is mentioned in the technical specs. We shall consider MS cable tray as per BOQ. Please confirm. b) We shall consider angle iron support for Horizontal support and threaded rod for vertical support. Support shall be provided at every 1.5 meter. Please confirm.</p>	<p>a) Tender conditions shall prevail. b) Please refer Corrigendum-3 issued with this document.</p>
253	<p>SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1120 & SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS,</p>	<p>Tender Clause: BOQ - Supplying and fixing of following sizes of Medium Class PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case recessed conduit as required 25mm PVC Conduit. Spec - Page No. 490</p>	<p>Please refer Corrigendum-2 issued with this document.</p>

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	CLAUSE 1.4.18, CABLES & CONDUITS, PAGE 113 OF 240	The PVC Conduit shall be FRLS (Heavy duty grade with 2mm thickness). Query: As per BOQ, medium duty conduit has been asked while as per technical spec Heavy Duty PVC conduit has been asked. We shall consider medium duty conduit as per BOQ. Please confirm.	
254	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1136	Tender Clause: Supply & laying of 4C x 1 sq mm Flexible Multistrand cable for signal / power as per specification. (from Sensor to sensor & controller) in PVC Conduits on surface. The rate shall inclusive of necessary PVC Conduits and other accessories. Query: As per BOQ, flexible cable has been asked with PVC conduit. We shall consider medium duty PVC conduit.	Tender conditions shall prevail.
255	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1255	Tender Clause: THIRD PARTY SOFT INTEGRATION: Supply, installation, testing and commissioning of Required Gateways / Open Protocol Software for integrating the for third party system communicating on one of the Standard Open Protocols such as BACNet , MODBUS, M-Bus, J Bus etc - Vendor to considered required No. of Integrators for soft point qty's mentioned in IO summary. Maximum qty in one loop cannot exceed 20 nos. Accordingly integrator qty to be selected..... Query: Soft integration details for third party equipment mentioned in the BOQ is different for few items with respect to points mentioned in the technical specifications. Please confirm the final details.	Please refer Corrigendum - 3 issued with this document.
256	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1276,1277 & 1278	Tender Clause: 1276. Supplying and installing of perforated Hot dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from the ceiling with G.I suspenders including G.I bolts & nuts, etc.as required. 300 mm width x 50 mm depth x 1.6 mm thickness 1277. Supplying and installing of perforated Hot dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>convenient sections, joined with connectors, suspended from the ceiling with G.I suspenders including G.I bolts & nuts, etc.as required. 225 mm width x 50 mm depth x 1.6 mm thickness 1278. Supplying and installing of perforated Hot dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from the ceiling with G.I suspenders including G.I bolts & nuts, etc.as required. 100 mm width x 50 mm depth x 1.6 mm thickness Query: We shall consider angle iron support for Horizontal support and threaded rod for vertical support. Support shall be as per provided at every 1.5 meter. Please confirm.</p>	
257	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1284, 1285 & 1286	<p>Tender Clause: 48 Port PoE+ Edge / Distribution Switch: Supply, installation, testing and commissioning of Edge Switch shall have minimum 48 *100/1000 RJ45 PoE+ ports and 4 x 1/10G SFP+ ports with redundant power supply from day-1. Min PoE budget (48Port * 30W = 1440) 1440 Watts. Note: Bidder shall refer the Technical Tender Specifications for details to select the products. 24 Port PoE+ Edge / Distribution Switch: Supply, installation, testing and commissioning of Edge Switch shall have minimum 24 *100/1000 RJ45 PoE+ ports and 4 x 1/10G SFP+ ports with redundant power supply from day-1. Min PoE budget (24Port * 30W = 720) 720 Watts. Note: Bidder shall refer the Technical Tender Specifications for details to select the products. 8 Port PoE+ Edge / Distribution Switch: Supply, installation, testing and commissioning of Edge Switch shall have minimum 8 *100/1000 RJ45 PoE+ ports and 4 x 1/10G SFP+ ports with redundant power supply from day-1. Min PoE budget (8Port * 80W = 640) 640 Watts. Query: 1. As per BOQ, 48/24/8 port switch has been asked with SFP ports but SFP transceiver module is not mentioned for this item. PLease add an item for SFP transceiver module along with the qty</p>	Tender conditions shall prevail. This is already covered in Section IX - Schedule A: Bill of Quantities S. No. 1281

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
258	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1293	Tender Clause: Supply, Installation, Testing & Commissioning of Tool-less Cat 6A STP Information Outlet with shutter or integrated dustcover Query: As per BOQ, tool-less I/O with shutter has been asked. Request to allow us to consider both shutter with IO / shutter with face plate as per OEM standard.	Tender conditions shall prevail.
259	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.1.1 GENERAL SCOPE OF WORKS: PAGE 3 OF 240	Tender Clause: Special Application detectors like Duct Detectors (AHU's Return air duct) / Hydrogen Detectors (Battery Room) / Gas Leakage detectors (Gas Bank) considered. Query: Gas Leakage Detectors are mentioned in the technical specifications, but the same is not mentioned in BOQ. We shall consider items as per BOQ. Please confirm.	Please refer Corrigendum - 2 issued with this document.
260	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.1.1 GENERAL SCOPE OF WORKS: PAGE 3 OF 240	Tender Clause: Access Control System Software with multiple features like General Access Control / Attendance & Monitoring / Vehicular Access Control / Visitor Management System / Canteen Management System is considered. Query: As per technical specifications, ACS software with attendance & Monitoring / Vehicular Access Control / Visitor Management System / Canteen Management System has been asked. While as per BOQ, only attendance and Visitor management system has been asked. We shall consider requirement as per BOQ. Please confirm.	Please refer Corrigendum - 2 issued with this document.
261	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.1.1 GENERAL SCOPE OF WORKS: PAGE 5 OF 240	Tender Clause: Perimeter entry & exit security considered by using Boom Barrier & Automatic Number Plate Recognition for Vehicular Movement and the Physical security shall be done through Baggage Scanning, Door Frame Metal Detector (DFMD) and Manual Movement shall be monitored through Swing Barriers at Ground floor Entrance Foyer. Query: As per technical specifications, Automatic Number Plate Recognition is required but the same is not available in the BOQ. We shall consider items as per BOQ. Please confirm.	Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
262	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.2.1 SYSTEM GENERAL REQUIREMENT PAGE 15 OF 240	<p>Tender Clause: Message generator(s) shall be capable of automatically distributing up to eight (8) simultaneous, unique messages to appropriate audio zones within the facility based on the type and location of the initiating event.</p> <p>Query: As per technical specifications, 8 channel audio notifications is required through Fire Panel. Since , separate Public Address system is envisaged, this requirement is not applicable.</p>	Please refer Corrigendum - 2 issued with this document.
263	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.2.2 SCOPE OF WORKS, PAGE 15 OF 240	<p>Tender Clause: Speaker circuits may be controlled by NAC outputs built into the amplifiers, which shall function as addressable points on the Digital Audio Loop.</p> <p>Query: As per technical specifications, speakers shall be controlled through NAC circuits. We understand this requirement is for Integrated Evacuation System. Since, separate PAS has been designed, this requirement shall not be applicable.</p>	Please refer Corrigendum - 2 issued with this document.
264	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.2.8 SYSTEM COMPONENTS FIELD END, PAGE 32 OF 240	<p>Tender Clause: The detectors shall be ceiling-mount and shall include a separate twist-lock base with tamper proof feature. Base options shall include a sounder base with a built-in (local) sounder rated at 85 DBA minimum, a relay base and an isolator base designed for Style 7 applications.</p> <p>Query: As per technical specifications, different types of bases such as relay, isolator and sounder base are asked, but the same are not available in the BOQ. We shall consider detectors as per BOQ. Please confirm.</p>	Please refer Corrigendum - 2 issued with this document.
265	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.2.8 SYSTEM COMPONENTS FIELD END, PAGE 33 OF 240	<p>Tender Clause: The system shall also support an intelligent programmable sounder base, the programmable sounder base shall be capable of providing multiple tones based on programming and at a minimum be capable of providing a Temp-4 tone for CO (Carbon Monoxide) activation and a Temp-3 tone for fire activations and be capable of being synchronized with other programmable sounder bases and common area notification appliances; 85 DBA minimum.</p> <p>Query: As per technical specifications, CO activation for sounder bases are asked. This requirement is not available in the BOQ. We shall consider detectors as per BOQ. Please confirm.</p>	Please refer Corrigendum - 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
266	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, CLAUSE 1.2.8 SYSTEM COMPONENTS FIELD END, PAGE 35 OF 240	<p>Tender Clause: The module shall provide two form C relays rated at up to 3 Amps resistive and up to 2.0 Amps inductive.</p> <p>Query: As per technical specs, relay module should have two form C relay output. Since, it is specific to few OEMs, request to allow us to consider module having one C relay output. If two outputs are required, we shall consider two separate individual module. Please accept.</p>	Please refer Corrigendum - 2 issued with this document.
267	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 626	<p>Tender Clause: Minimum pump efficiency should not be less than 85%</p> <p>Query: Please note the efficiency of pumps shall be around 80% instead of 85%.</p>	Please refer Corrigendum - 3 issued with this document.
268	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 626	<p>Tender Clause: Pump design parameter / motor rating furnished in the BOQ is of indicative in nature. If the actual parameter required to meet the proposed HVAC system, then the same shall be provided by HVAC Contractor based on the final pump/motor selection without any cost implication to the Owner.</p> <p>Query: Please note the final parameters of pumps shall be vetted during detailed engineering after award of work. Any changes in model of pumps/motor shall be paid extra as actual.</p>	Please refer Corrigendum - 3 issued with this document.
269	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 629	<p>Tender Clause: Design, Supply, installation, testing and commissioning of water cooled chilled water Pump Starter Panel cum Logic controller panel with all necessary power & control circuit breakers, contactors, SPPR, auto/manual selector switches, earthing and internal power & control cabling, terminations with necessary lugs and glands, etc. , Microprocessor based logic controller, integrated Software capable to control frequency based on the inputs from sensors, 4 Nos of differential pressure sensor & transmitters, power cable from panel to pump, ON/OFF push button, communication cable, Communication card (BACnet protocol) to transfer the entire data available on unit mounted VFD (3 in Secondary pumps/ 3 in condensor pumps) to the third party BMS System.</p> <p>Query: a) We understand that we have to consider the electrical panels for all pumps (Sr. No. 626, 627 & 628) in this line item only.</p>	<p>a) Tender conditions shall prevail.</p> <p>Starters for SECTION-IX SCHEDULE A: BILL OF QUANTITIES Sl. No 626 shall be considered as per SECTION-VIII TENDER DRAWINGS-Electrical SLD Diagram.</p> <p>VFD's for SECTION-IX SCHEDULE A: BILL OF QUANTITIES Sl. No 627 & 628 only shall be considered in this line item.</p>

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		b) We understand that S/D or DOL starter are required for Primary Pumps. For secondary pumps the requirement is of VFD+Logic controller panel (VSPS system) and for Condenser water pumps requirement is of VFD only.	b) Tender conditions shall prevail.
270	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 634	Tender Clause: Filtration Section shall be provided with 2 stage washable type of 'MERV8 ' first stage and 'MERV13' final stage. Query: We understand that pre filter and fine filter shall be installed at common frame.	Tender conditions shall prevail. Pre-filter & Fine Filter shall be installed at independent frame with sufficient access for ease of access during maintenance.
271	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 674	Tender Clause: Make for Pre Insulated pipes are not given. Query: We request you to kindly provide the make of Pre insulated pipes.	Tender conditions shall prevail. The approved makes for this is already mentioned in Section-VI List of Approved Makes-HVAC Works
272	SECTION VI- LIST OF APPROVED MAKES -HVAC WORKS- S NO-15,16,17 & 21 PAGE 16,17 OF 35	Tender Clause: Make for Butterfly Valves, Ball Valves, Check Valves, Strainers Query: 1.Audco 2.Oventrop 3.Scola 4.L&T 5.Audco 6.leader 7. Zoloto Please note the makes given in list of makes for valves doesn't manufacture pre-insulated valves. So request you to kindly approve Advance/Castle or alternatively accept site insulated valves	Please refer Corrigendum - 3 issued with this document.
273	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 727 TO 739	Tender Clause: Design, Supply, Installation, testing and commissioning of Pre-insulated Flow Control Valve - Pressure independent type with Dynamic Balancing Cum 2 Way modulating valves Query: Please note the PID valves shall not be pre insulated as none of the manufacturers provide pre insulated PID valves, the same shall be insulated at site.	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
274	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 861	<p>Tender Clause: Supply, installation balancing and commissioning of factory fabricated GSS sheet metal rectangular/ round duct complete with neoprene rubber gaskets.</p> <p>Query: a)Round/Rectangular duct is mentioned in BOQ, kindly clarify which type of duct (Rectangular or Round) we have to consider. b) Please note the gasket shall be foam type/ rubber type or neoprene equivalent.</p>	<p>a) Tender conditions shall prevail. The BoQ line item shall be operated for both Round & Rectangular Duct as per the requirement.</p> <p>b) Tender conditions shall prevail. It shall be neoprene rubber gaskets as already mentioned in the BoQ line item</p>
275	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 862 TO 870	<p>Tender Clause: Duct With Ductmate Flanges</p> <p>Query: We request you to kindly accept TDF Flanges.</p>	Please refer Corrigendum - 3 issued with this document.
276	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 918	<p>Tender Clause: MS Ducting - SS304 grade material 16 G with complete joints, & MS supports at every 1.5 mts capable of taking 600 kgs point load</p> <p>Query: Please note the material of duct is mentioned as MS as well as SS 304, kindly clarify which material of duct shall be considered.</p>	Please refer Corrigendum - 3 issued with this document.
277	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 958	<p>Tender Clause: Supply, installation, testing and commissioning of Suitable IP55 VFD & PID controller (A0-2,Ai-4, DO-5,DI -5) with by pass star delta starter for operation of Ahus Supply air fan, auto/manual switch, safety switch, ammeter, voltmeter.....</p> <p>Query: Please confirm the KW rating of VFD.</p>	Please refer Corrigendum - 3 issued with this document.
278	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 996 TO 1001	<p>Tender Clause: Exhaust air application - Normal Mode & Fire mode - Supply, installation, testing and commissioning of Exhaust air Vane axial flow fans. Motors shall be VFD rated with IE4 efficiency. Motor shall be suitable for 415V, 3 Phase, 50 Hz AC supply.</p> <p>Query: Kindly clarify whether we have to include the cost of VFD along with these fans.</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
279	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1024	Tender Clause: Kitchen drainage system Query: We request you to please provide the layout/ drawings for the same.	Please Refer Section VIII - Tender Drawings- Plumbing drawings
280	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 572	Tender Clause: Supply and positioning of Mobile foam unit of 50 lts. Capacity with water inlet and foam water outlet, foam maker, foam branch pipe & hoses etc. complete. Unit shall be fabricated by M.S. sheet with FRP lining inside and whole unit mounted with rubber wheels of suitable size and handle for movements. Make: Gunnebo Query: 'We understand that mobile foam unit of 50 ltr are not available, it is available in 45 litre or 60 litre capacity please confirm.	Please refer Corrigendum - 3 issued with this document.
281	COVER-I TECHNICAL BID , TENDER NOTICE CLAUSE 4. EARNEST MONEY DEPOSIT (EMD), PAGE 2 OF 66	Tender Clause: EMD: Rs.48,28,260/- An EMD shall be paid only through the online payment mode via tntenders.gov.in Query: i) We request you to accept EMD in the form of Bank Guarantee valid till bid validity period ii) Please provide bank details for EMD preparation	Please refer Corrigendum - 2 issued with this document.
282	GENERAL	Query: We understand that labour cess shall be in client's scope	Quoted unit rates shall exclude labour cess. The labour cess would be borne by the Employer
283	COVER-I TECHNICAL BID, SECTION II PRE- QUALIFICATION TENDER NOTICE, CLAUSE 10, PAGE 29 OF 66	Tender Clause: a) ...TIDCO shall deduct from the Running Account Bills equivalent to 5% (Five Percent) of the gross total value of each bill as retention money or performance Guarantee. b) 50% of retention money deposit (with GST) amount recovered from the bills would be paid to the contractor along with final bill. c) Balance 50% of Retention Money deposit (with GST) will be released after expiry of one year from the date of completion of work for which the contractor has to give a written undertaking in the form of an indemnity bond for further period of 4 years Query: 1. We shall submit RBG of 5% valid till completion period during course of execution in lieu of cash retention. Hence cash shall not be deducted from our bill.	Tender conditions shall prevail.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>2. We shall submit another BG of 2.5% valid till DLP at the start of DLP.</p> <p>3. Indemnity bond for 4 years is not required in government contracts. Kindly delete this requirement</p>	
284	COVER-I TECHNICAL BID , TENDER NOTICE CLAUSE 2. FORM OF CONTRACT, PAGE 2 OF 66 & COVER-II PRICE BID, SECTION I, INSTRUCTIONS TO TENDERERS, CLAUSE 1 SCOPE OF THE TENDER: PAGE NO: 4 OF 70	<p><u>Tender Clause:</u> Tender Notice: TIDCO Invites Online Item Rate Tenders ITT: This is a "Lumpsum Contract"</p> <p><u>Query:</u> We understand that this is a BOQ based item rate tender and not a lumpsum tender. Please confirm.</p>	Please refer Corrigendum - 2 issued with this document.
285	COVER-II PRICE BID, SECTION I, INSTRUCTIONS TO TENDERERS, CLAUSE 6(C) ARBITRATION PAGE NO: 6 OF 70	<p><u>Tender Clause:</u> On receipt of notice from the Contractor, the Employer within thirty days shall send to the Contractor, a panel of three serving or retired officers not below the rank of Managing Director. The Contractor shall within fifteen days of the date of receipt of such panel, select one name from the panel and communicate the same to the Employer, who will appoint the sole arbitrator immediately</p> <p><u>Query:</u> Sole arbitrator shall be mutually appointed in place of from the list given by the client.</p>	Tender conditions shall prevail.
286	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 18 VARIATION NOT TO VITIATE CONTRACT PAGE NO: 27,28 OF 70	<p><u>Tender Clause:</u> Quantity variation will have no ceiling limit in respect of individual items and individual quantities can vary to any extent. Such variations shall not warrant any claims for modifications to already quoted and accepted rates.</p> <p><u>Query:</u> Our rates shall be valid for quantity variation of +/- 20% of individuate item quantity as per CPWD and other govt tenders. Mutually agreed revised rates shall be applicable beyond this limit. Also note that none of the items shall be omitted unless there is a design change</p>	Please refer Corrigendum - 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
287	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 34 TERMINATION / DETERMINATION OF CONTRACT BY THE EMPLOYER PAGE NO: 34,35 OF 70	Tender Clause: After, determining the contract, Employer shall have the right to give any part or whole of the unexecuted balance work to any other contractor, in which case any expenses which may be incurred in excess of such amount..... Query: After termination/determination of the contract, we shall be paid for all work done, all material delivered, all materials in transit, and all the materials for which manufacturing clearance has been given.	Tender condition shall prevail.
288	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 43 PAGE NO: 38 OF 70	Tender Clause: The contractor shall form his own approach road in the works site for which no extra will be due to him. On completion of work, the contractor shall not be permitted to remove the materials laid for formation of road. If the contractor is allowed to use the existing roads, he shall maintain them in good condition at his own cost throughout the period of the contract. Query: Approach road till each building/installation site/store shall be provided & maintained by client	Tender condition shall prevail.
289	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 65 POWER, WATER & OTHER FACILITIES PAGE NO: 47 OF 70	Tender Clause: 1. The Contractor shall make his own arrangements for the supply of good quality potable water at Site, for his labour at Site, and all charges for water shall be borne by the Contractor 2. Electricity required for construction shall be arranged by the Contractor himself. Electricity if supplied to the Contractor by the Employer, will be metered and amount will be recovered in the Bills as per actual at rates fixed by the Employer. Supply of electricity from the Employer is not mandatory. Non-supply of electricity by the Employer cannot be held as reason for shortfall in progress Query: i) We request you to provide construction power & water free of cost at one point. If not please provide the per unit charge for electricity. ii) Power & water for testing & commissioning shall be provided by client free of cost	Tender condition shall prevail.
290	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 68 SITE OFFICE	Tender Clause: The Contractor shall make necessary arrangements for Site office for PMC and Employer. Query: Please provide following details of office for client/PMC	Details of facilities for Employer and PMC to be provided by the Contractor are given in Clause No 86,

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	PAGE NO: 48 OF 70	No. of personnel to accommodate, Area required & facility required	Page No. 60 of the price bid (Cover II) document. The successful bidder shall prepare the layout and get it approved by PMC/Project Officer during execution.
291	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 69 FORCE-MAJEURE PAGE NO: 48 OF 70	<u>Tender Clause:</u> The foregoing provisions shall apply only where the Contractors obtained from the PMC/Employer recognition of the same event. <u>Query:</u> Force Majeure shall be recognized based on the definition provided in the clause no. 69 and PMC/Employer's observations shall be based on the same.	Tender condition shall prevail.
292	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 85 INSPECTION AND TESTING PAGE NO: 59 OF 70	<u>Tender Clause:</u> Inspection and testing of Pumps, HT/LT Panels, Busduct, UPS, Chillers, Transformers, DG sets and other major items at manufacturer's works is at discretion of the PMC/Employer. All expenses related to testing vendors works shall be to Contractor account. Also the Contractor will bear the travel, boarding & lodging expenses of Employer/ PMC's representative deputed for carrying out inspection/testing. <u>Query:</u> a) Please confirm the items for which the employer shall witness the test. b) Please confirm the no. of personnel who will witness the test	a) Inspection at factory shall be made for all major/critical equipment. b) One representative each from PMC, Employer & Contractor shall attend the inspection.
293	COVER-II PRICE BID, SECTION V, CONTRACT DATA, SL.NO.7 & 13 PAGE NO: 67, 69 OF 70	<u>Tender Clause:</u> 7: Liquidated damages to be levied on nonachievement of milestones (mentioned in Clause 11-Construction Program, Section- II, Cover II), which is 0.03% (Zero decimal Zero three percent) of the contract sum per day of delay subject to a maximum of 10% of the contract value (inclusive of GST). The period of delay shall be as opined by the PMC/Project Officer which is final and binding on the contractor 13: Any shortfall/ backlog of progress from MCP shall be quantified by PMC, on a quarterly basis. In case of any shortfall / backlog, the Employer shall retain 10% of	Tender condition shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>the budgeted cost of unfinished portion from the immediately next payment being released to the Contractor either by the Employer or by the Designated Bank. This amount shall be eligible for release upon completion of backlog works.</p> <p>Query: i) Please cap the maximum limit of LD at 5% of contract value. ii) We understand that withheld amount shall be released if the delay is recovered in subsequent milestone</p>	
294	COVER-II PRICE BID, SECTION V, CONTRACT DATA, SL.NO.15 & 16 PAGE NO: 69 OF 70	<p>Tender Clause: 15: The PMC shall certify the Measurement Sheets / RA Bills within 15 working days from the date of submission along with all supporting documentation and reconciliation statements. 16: Payments shall be made by the EMPLOYER within 30 working days from the date of RA Bill certification by the PMC.</p> <p>Query: We request you to release the payment within 30 days of our bill submission</p>	Please refer Corrigendum - 2 issued with this document.
295	COVER-II PRICE BID, SECTION V, CONTRACT DATA, SL.NO.19,20,21 & 22 PAGE NO: 69,70 OF 70	<p>Tender Clause: 50% of accepted SITC rate of items on pro-rata basis shall be made against supply of all materials... 30% of accepted SITC rate of items shall be made against completion of respective Installation in position at site... 10% of accepted SITC rate of items shall be made against completion of respective Testing and commissioning.. 10% of accepted SITC rate of items payment shall be made on handing over of works...</p> <p>Query: Tender payment terms shall badly affect our cash flow as for most of the capital items we will have to give better terms, including mobilization advance. Hence, we request you to accept following payment terms inline with govt tenders like CPWD 15% as recoverable mob. Advance 80% of accepted SITC rate of items on pro-rata basis shall be made against supply of all materials at site 10% of accepted SITC rate of items shall be made against prorata installation at site 5% of accepted SITC rate of items shall be made against prorata Testing and commissioning 5% of accepted SITC rate of items payment shall be made on handing over of works.</p>	Please refer Corrigendum - 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
296	GENERAL	Query: Escalation clause as per CPWD shall be applicable in case the project is extended beyond 12 months	Not considered.
297	GENERAL	Query: For any non-tender item, we shall be paid 20% as our overhead & profit	Please refer Corrigendum - 2 issued with this document.
298	COVER-I TECHNICAL BID, SECTION II, PRE-QUALIFICATION TENDER NOTICE CLAUSE 3 III, PAGE NO: 18 OF 66	Tender Clause: Criteria-1 Certificates issued by the Government Organizations / Non-Government Organisation works* in respect of MEP works** for one multi storied RCC framed Office/ Commercial / IT Building with a minimum BUA of 5,00,000 sq.ft. with minimum 10 floors with a value not less than Rs.48 Crores under a single agreement in the last 5 years ending 31st March 2024. Query: Please add Government Building and Data Centre in the type of work done. The clause may be modified as "Certificates issued by the Government Organizations / Non-Government Organisation works* in respect of MEP works** for one multi storied RCC framed Office/ Commercial / IT Building / Government Building / Data Centre with a minimum BUA of 5,00,000 sq.ft....."	Please refer Corrigendum - 2 issued with this document.
299	COVER-I TECHNICAL BID, TENDER NOTICE, CLAUSE 4, PAGE NO: 2 OF 66	Tender Clause: Earnest Money Deposit - An EMD shall be paid only through the online payment mode via tntenders.gov.in Query: We request you to kindly accept the EMD in the form of Bank Guarantee please. As the same is accepted by most of the other government departments.	Please refer Corrigendum - 2 issued with this document.
300	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621 & 622	Tender Clause: 621. WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with..... 622. AIR COOLED CHILLER - Design, Supply, installation, testing and commissioning of Air COOLED SCREW CHILLER . - multiple screw compressors, energy efficient IE4 motor, Air cooled condenser,..... Query:	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		IE 4 motor:As compressor motors are customized & semi hermetic, hence these standards are not applicable.	
301	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621 & 622	<p>Tender Clause: 621. WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant cooled as per OEM standard.),.....</p> <p>622. AIR COOLED CHILLER - Design, Supply, installation, testing and commissioning of Air COOLED SCREW CHILLER . - multiple screw compressors, energy efficient IE4 motor, Air cooled condenser, flow switch at chiller , spring vibration isolators, integral refrigerant.....</p> <p>Query: Soft starter As the chillers are asked with VFD, hence soft starter will not be applicable, please clarify</p>	Please refer Corrigendum - 3 issued with this document.
302	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 622	<p>Tender Clause: AIR COOLED CHILLER - Design, Supply, installation, testing and commissioning of Air COOLED SCREW CHILLER . - multiple screw compressors, energy efficient IE4 motor, Air cooled condenser, flow switch at chiller , spring vibration isolators, integral refrigerant piping and wirig.....</p> <p>Query: Multiple screw compressors The number of compressors will be as per approved OEMs . Single / multiple, please accept.</p>	Tender conditions shall prevail.
303	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 626, 627 & 628	<p>Tender Clause: 626. PRIMARY PUMPS FOR WATER COOLED CHILLER- Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction port and discharge port (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficiecy should not be less than 85%, Motor efficieny not less than 90% (IE-4). Suitable HP,motor shall be TEFC squirrel cage.....</p>	Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>627. SECONDARY PUMPS FOR WATER COOLED CHILLER: Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction port and discharge port with integrated variable speed drive motor(pump mounted) (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficiency should not be less than 85%, Motor efficiency not less than 90% (IE-4). Suitable HP,motor shall be TEFC squirrel cage type motors with IP55 protection.....</p> <p>628. CONDENSER PUMPS with BMS compatible VFD - Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction port and discharge port (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficiency should not be less than 85%, Motor efficiency not less than 90% (IE-4). Suitable HP,motor shall be TEFC squirrel cage type motors with IP55 protection. The Coupling shall be rigid spacer type of high tensile aluminum.....</p> <p>Query: Pump effi.. 85% The efficiency will be as per approved OEM selections, although due to product limitation the efficiency may not meet 85% criteria, please accept</p>	
304	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 626, 627 & 628	<p>Tender Clause:</p> <p>626. PRIMARY PUMPS FOR WATER COOLED CHILLER- Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction port and discharge port (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficiency should not be less than 85%.....</p> <p>627. SECONDARY PUMPS FOR WATER COOLED CHILLER: Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction port and discharge port with integrated variable speed drive motor(pump mounted) (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficiency should not be less than 85%.....</p> <p>628. CONDENSER PUMPS with BMS compatible VFD - Supply, erection, testing and commissioning of Single stage centrifugal coupled type INLINE pumpset with axial suction</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>port and discharge port (with Bacnet MS/TP communication protocol), bronze impeller & mechanical seal. The noise level shall be limited to 70 dBA at a distance of 1.5 m, Minimum pump efficiency should not be less than 85%, Motor efficiency not less than 90% (IE-4). Suitable HP, motor shall be</p> <p>Query: 70dba at 1.5 mtr The noise level will be as per approved OEM selections the noise will be 85 dba at 1.5 mtr, please accept</p>	
305	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 632	<p>Tender Clause: Design, Supply, installation, testing and commissioning of air cooled chilled water Pump Starter Panel cum Logic controller panel with all necessary power & control circuit breakers, contactors, SPPR, auto/manual selector switches, earthing and internal power & control cabling, terminations with necessary lugs and glands, etc. , Microprocessor based logic controller, integrated.....</p> <p>Query: Starter pane- As the VFD are pump mounted & bypass starter not required, please accept. Also request you to provide SLD for clarity of scope</p>	Tender conditions shall prevail.
306	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 634 & 644	<p>Tender Clause: 634. Supply, installation testing & commissioning EUROVENT CERTIFIED Horizontal / vertical floor mount Air handling units having following specifications..... 644. Supply, installation testing & commissioning EUROVENT CERTIFIED Ceiling Suspended Air handling units having following specifications.....</p> <p>Query: Instrumentation kit The scope covers only the inclusion of control panel for the parameters stated. The Field devices are not included in this line item, please clarify</p>	Tender conditions shall prevail. For field devices, please refer Section - IX Schedule A: Bill of Quantities – Sl. No 1256 to 1269
307	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 649	<p>Tender Clause: CHILLED WATER CASSETTES along with Chilled Water Valve package consisting of Ball valve with and without strainer and PIBCV self dynamic balancing cum control valve.....</p> <p>Query:</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		By pass valve arrangements - As per approved OEMs, no facility of by pass valves arrangement, please accept.	
308	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 649	<p>Tender Clause: CHILLED WATER CASSETTES along with Chilled Water Valve package consisting of Ball valve with and without strainer and PIBCV self dynamic balancing cum control valve for CHW flow control and all accessories required shall be part of scope. MS to Copper connectors required to connect from the main CHW MS pipeline before connecting to unit. Dgital wireless remote shall be part of scope.....</p> <p>Query: Eurovent certified Most of the OEMs are not having the Eurovent certification in India for this product, hence request you to give waiver for this certification</p>	Please refer Corrigendum - 3 issued with this document.
309	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 660	<p>Tender Clause: Supply, Installation, testing & commissioning of fan coil units as specified and shown in the drawing, data sheets etc. consisting of:.....</p> <p>Query: Vii) installation of pipe Please provide the quantity ot be included. Or else this is to be measured & paid in piping items</p>	Please refer Corrigendum - 3 issued with this document. Piping shall be measured and paid under respective Chilled water piping BoQ items
310	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 687 & 700, 707, 715, 727	<p>Tender Clause: 687. Supply and erection of Pre-insulated Butterfly valves (with RPUF material similar to CHW pipe insulation specifications) complete with pre-insulated end flanges / matching flanges, additional supports,.....</p> <p>700. Supply and erection of Pre-insulated Dual plate Check valves (with RPUF material similar to CHW pipe insulation specifications) complete with pre-insulated end flanges/matching flanges,.....</p> <p>707. Design, Supply, installation, testing and commissioning of Pre-Insulated Balancing Valve (with RPUF material similar to CHW pipe insulation specifications) shall be of factory calibrated direct, acting,</p>	a) & b) Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>715. Supply and erection of Pre-insulated 'Y' type strainer (with RPUF material similar to CHW pipe insulation specifications) with removable.....</p> <p>727. Design, Supply, installation, testing and commissioning of Pre-insulated Two way motorized Valves (ON / OFF Type).....</p> <p>Query: Pre insulated a) The approved makes given does not have the pre insulated valves, request you to provide the makes who have these products. b) Please add Advance & Valvetree, who are providing the pre insulated valves.</p>	
311	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 733	<p>Tender Clause: Design, Supply, Installation, testing and commissioning of Pre-insulated Flow Control Valve - Pressure independent type with Dynamic Balancing Cum 2 Way modulating valves (with RPUF material similar to CHW pipe.....)</p> <p>Query: Pre insulated.. PIBCV Pre insulated PIBCV are not available, this will be site insulated with nitril rubber & cladding, please accept</p>	Please refer Corrigendum - 3 issued with this document.
312	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 746	<p>Tender Clause: Supply, installation testing & commissioning of Automatic Air Vents with Ball valve shall be installed at all high sections of piping as well as in the AHU room piping. The discharge from this air vents shall be piped via copper tubes of appropriate size to the nearest waste drain pipe.</p> <p>Query: Shall be piped via copper tube To be measured & paid seperately, or else provide the length to be included</p>	Please refer Corrigendum - 3 issued with this document.
313	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 923	<p>Tender Clause: MS duct insulation with Al. Foil faced fibre glass wool 25 mm thick, 32 kg /m3 density</p> <p>Query: MS duct -Request you to provide the thickness of MS sheet to be considered</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
314	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 925	<p>Tender Clause: Supply installation testing & commissioning of Fire Rated Tube axial exhaust Fan with motor including casing made of Hot dipped Galvanized Iron, motor, with adjustable pitch die cast aluminium impeller (Hub and blades) Casing position shall be as per the job requirement and shall be marked on the fan assembly of the following capacities.....</p> <p>Query: 300 Deg / 2 hr As per standard & OEM product the fire rating is 250 deg C for 2 hr, please accept. Also same is mentioned in detailed specifications</p>	Please refer Corrigendum - 3 issued with this document.
315	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 958	<p>Tender Clause: Supply, installation, testing and commissioning of Suitable IP55 VFD & PID controller (A0-2.Ai-4, DO-5,DI -5) with by pass star delta starter for operation of Ahus Supply air fan, auto/manual switch, safety switch,</p> <p>Query: VFD.. Starte panel Provide the rating & SLD to quote for this item</p>	Please refer Corrigendum - 3 issued with this document.
316	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 996, 999	<p>Tender Clause: 996. Exhaust air application - Normal Mode & Fire mode - Supply, installation, testing and commissioning of Exhaust air Vane axial flow fans. Fan construction shall include Pre-galvanized or Hot Dip Galvanized casing with minimum 220 GSM Zinc Coating, welded or casted propeller with aluminum airfoil blades, straightening vanes, universal mounting arrangement and Totally Enclosed Fan-Cooled (TEFC) motor.....</p> <p>999. FRESH AIR AXIAL FANS NORMAL & FIRE MODE - Supply, installation, testing and commissioning of Fresh air Vane axial flow fans. Fan construction shall include Pre-galvanized or Hot Dip Galvanized casing with minimum 220 GSM Zinc Coating, welded or casted propeller with aluminum</p> <p>Query: Fan Accessories... Silencers The silencers will be provided, if the sound criteria are not meeting.</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
317	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1003	<p>Tender Clause: Supply, installation, testing & commissioning of dual speed induction Centrifugal type Jet ventilation fans long casing as per the specification. The entire assembly of fan shall be suitable to operate at fire mode condition to withstand the temperature of 300 deg C for Two hour & with totally enclosed Class-H insulated motor.....</p> <p>Query: Induction centrifugal type jet fans Provide the Dia / CFM to quote for this item. Also fire rating will be 250 Deg C / 2hrs.</p>	Please refer Corrigendum - 3 issued with this document.
318	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 997, 998, 1000 & 1001	<p>Tender Clause: 997. 26500 CFM @ 20 MM TOTAL STATIC with MS supports 998. 22500 CFM @ 20 MM TOTAL STATIC with MS supports 1000. 26500 CFM @ 20 MM TOTAL STATIC with MS supports 1001. 22500 CFM @ 20 MM TOTAL STATIC with MS supports</p> <p>Query: with MS Support. The Support items will be measured & paid in item no. 1023, hence will not be included in this line items, please clarify.</p>	Please refer Corrigendum - 3 issued with this document. The Support items will be measured as per Section - IX Schedule A: Bill of Quantities – Sl. No. 1021
319	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621	<p>Tender Clause: WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant cooled as per OEM standard.), IE4 motor, water cooled condenser, insulated chiller, flow switch at chiller.....</p> <p>Query: lkW/TR at 100% load not more than 0.63, minimum IPLV 0.37 & minimum COP at AHRI Conditions shall be 6.5. Kindly confirm whether the Full Load kW/TR of 0.63, IPLV of 0.37 & Full load COP at AHRI conditions of 6.5 includes Variable Speed Drive Losses & Harmonic Filter losses</p>	Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
320	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC SYSTEM WORKS, SECTION III - CHILLER CLAUSE 3.2 WATER COOLED WATER CHILLING MACHINE: PAGE NO: 27 OF 129	Tender Clause: Based on the calculations and the nature of the application of the building, we are proposing Water Cooled Chiller System for the Office areas and the Shell & core areas in Fintech Tower. It is proposed to have a dedicated Water-cooled chilled water system for the Office Spaces and Shell and core area with the plant room proposed in..... Query: Evaporator & Condenser Max. permissible pressure drop Request you to kindly confirm the maximum allowable pressure drop for Evaporator & Condenser.	Please refer Corrigendum - 3 issued with this document.
321	SECTION VII- TECHNICAL SPECIFICATIONS,HVAC SYSTEM WORKS, SECTION III - CHILLER CLAUSE 3.2.1 COMPRESSOR, PAGE NO: 27 OF 129	Tender Clause: The compressor shall be centrifugal type suitable for use with refrigerant provide ASHRAE A1 safety class refrigerant (R 134a & R 1233zd) for centrifugal. The chiller can be of direct drive / gear drive and to be with multiple-stage compressor with control guide vanes..... Query: Multiple stage compressor Request you to kindly accept single stage compressor as YORK does not manufacture multiple stage centrifugal compressors.	Please refer Corrigendum - 2 issued with this document.
322	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III - CHILLER CLAUSE 3.2.2 EVAPORATOR, PAGE NO: 27, 28 OF 129	Tender Clause: Evaporator shall need to be the shell-and-tube, flooded / Falling film type designed on the refrigerant side. Shells shall need to be fabricated from carbon steel plate. Tubes offered are to be individually replaceable and shall be of externally finned seamless copper..... Query: Eliminators to be installed over entire length of evaporator tube bundle. kindly confirm whether Mist eliminator plate is required to prevent liquid refrigerant entry to compressor.	Tender conditions shall prevail.
323	SECTION VII- TECHNICAL SPECIFICATIONS HVAC SYSTEM WORKS, SECTION III - CHILLER CLAUSE 3.2.7 SAFETIES TO INCLUDE, PAGE NO: 29 OF 129	Tender Clause: Automatic safety shutdown for: * Low chilled water temperature, * Low evaporator refrigerant temperature * High condenser refrigerant pressure * High bearing oil temperature (requires enhanced protection option) * High motor current * High motor temperature	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>* Starter function faults.....</p> <p>Query: High bearing oil temperature Kindly confirm whether bearings RTDs are required for accurate measurement of bearing temperature or safety interlock with oil temperature is sufficient.</p>	
324	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.2.8 CHILLER UNIT CONTROL FEATURES, PAGE NO: 30 OF 129	<p>Tender Clause: The chiller unit control panel capabilities provide for the control/configuration interface to, and the retrieval/display of starter/ current related data. The chiller shall need to have minimum safety feature of</p> <ul style="list-style-type: none"> * Motor overload protection. * Motor over temperature protection. * Phase loss, reversal, imbalance protection. * Overvoltage/under voltage protection. <p>Query: Motor over temperature protection Kindly confirm whether winding & bearing temperatures to be displayed in Chiller control panel.</p>	Tender conditions shall prevail.
325	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1266	<p>Tender Clause: Differential Pressure Switch - Filter Status (Indoor type) Supply, installation, testing and commissioning of Differential Pressure Switch - Filter Status (Indoor type) shall be diaphragm operated. Switches shall be supplied with air connections permitting their use as static or differential pressure switches. The switch shall be of differential pressure type complete with connecting tube and metal bends for connections to the unit.....</p> <p>Query: Cooling for Chiller VFD Starter</p>	Please refer Corrigendum - 3 issued with this document.
326	SECTION VII- TECHNICAL SPECIFICATIONS - HVAC WORKS,SECTION III – CHILLER CLAUSE 3.1.6 EVAPORATOR, PAGE NO: 21 OF 129	<p>Tender Clause: Provide evaporator of ASME U Stamped shell and tube type, seamless or welded steel construction, with cast iron or fabricated steel heads, integrally finned seamless copper tubes either smooth bore or internally enhanced, rolled or silver brazed into tube sheets Space tube support sheets approximately 2.5 feet.....</p> <p>Query:</p>	Please refer Corrigendum - 3 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Evaporator Max. permissible pressure drop	
327	SECTION VII- TECHNICAL SPECIFICATIONS-HVAC SYSTEM WORKS, SECTION III - CHILLER CLAUSE 3.1.2 TYPE & CAPACITY, PAGE NO: 20 OF 129	Tender Clause: The chiller shall be Air Cooled water chilling machine with single or multiple screw compressors and the actual refrigeration capacity and performance requirements at given design conditions of chilling machine shall be as indicated in drawings and Bill of Quantities. Query: Single or Multiple screw compressors	Please refer Corrigendum - 2 issued with this document.
328	SECTION VII- TECHNICAL SPECIFICATIONS - HVAC WORKS, SECTION III - CHILLER CLAUSE 3.1.6 EVAPORATOR, PAGE NO: 21 OF 129	Tender Clause: Provide evaporator of ASME U Stamped shell and tube type, seamless or welded steel construction, with cast iron or fabricated steel heads, integrally finned seamless copper tubes either smooth bore or internally enhanced, rolled or silver brazed into tube sheets Space tube support sheets..... Query: Evaporator shall be manufactured & tested as per ASME standard & shall be ASME U stamped.	Tender conditions shall prevail.
329	SECTION VII- TECHNICAL SPECIFICATIONS - HVAC WORKS, SECTION III - CHILLER CLAUSE 3.1.6 EVAPORATOR, PAGE NO: 21 OF 129	Tender Clause: Provide evaporator of ASME U Stamped shell and tube type, seamless or welded steel construction, with cast iron or fabricated steel heads, integrally finned seamless copper tubes either smooth bore or internally enhanced,..... Query: Insulation thickness shall be 2 layers of 19 mm.	Please refer Corrigendum - 2 issued with this document.
330	SECTION VI- LIST OF APPROVED MAKES-ELV & IBMS WORK SECTION J, PAGE 31 OF 35	Tender Clause: CCTV Surveillance System (CCTV Cameras and VMS) Query: Please share us the approval for Tyco (Johnson Controls Makes) for CCTV Cameras and VMS	Tender conditions shall prevail.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
331	SECTION VI- LIST OF APPROVED MAKES-ELV & IBMS WORK SECTION I, PAGE 28 OF 35	Tender Clause: Access Control System Query: Please share us the approval for Tyco - Kantech for Access Control System	Tender conditions shall prevail.
332	SECTION VI- LIST OF APPROVED MAKES-ELV & IBMS WORK SECTION K, PAGE 32 OF 35	Tender Clause: Active Network Switch Make Query: Please share us the approval for D-Link Make	Tender conditions shall prevail.
333	SECTION VI- LIST OF APPROVED MAKES-ELV & IBMS WORK SECTION K, PAGE 32 OF 35	Tender Clause: Passive Networking Make Query: Please share us the approval for D-Link Make	Tender conditions shall prevail.
334	SECTION VI- LIST OF APPROVED MAKES-ELV & IBMS WORK	Query: Cables Please share us the approval for Masterflex Make	Tender conditions shall prevail.
335	SECTION VI- LIST OF APPROVED MAKES-ELV & IBMS WORK PAGE 32 OF 35	Tender Clause: FIREWALL/ENTERPRISES NETWORK MANAGEMENT SYSTEM Query: Please share us the approval for SonicWall Make	Tender conditions shall prevail.
336	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1048	Tender Clause: Supplying, installation, testing & commissioning of microprocessor based Intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km..... Query: The panel shall have the provision to connect to third party printer and can be integrated to PA system. Also shall be compatible to IBMS system with BACNET protocol. Kindly accept the same.	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
337	SECTION-IX BILL OF QUANTITY BOQ SL. NO.1049	<p>Tender Clause: DVC (Digital Voice Command) system for fire fighter's telephone. Supplying, installing, testing and commissioning of Digital Voice Command Extended Memory and Keypad. The DVC Should support 2 ways Communication for Fire Fighters. The Fire Fighters Telephone System shall be capable of having minimum 30 Telephones in conference in multiple FFT Risers. This has to be installed in one of the above 10 loop fire alarm panel. This inclusive of necessary accessories, amplifiers (suitable for fire fighters telephone quantity mentioned in this BOQ), modules & should be seamless integration with all fire alarm panels. This should be the same make of main fire alarm panel. Vendor shall consider the suitable size cabinet of fire alarm panel to accomodate this DVC equipments</p> <p>Query: We understand the requirement of Fire fighting Telephone system to be part of any one of the FACP panel. The equipemnt shall be part of FACP panel. Kindly accept the same. Also Amplifiers shall not be part of FFT system since the BOQ has separate and independent PA system.</p>	Tender conditions shall prevail.
338	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1069	<p>Tender Clause: Supply, installation, testing and commissioning of Client workstation Intel core 9th Generation Intel Core i9 Processor by latest generation or better, 16GB DDR3 RAM, 64-bit operating system, 1TB SSD for OS and Security Center applications, with a minimum of 16 GB of free disk space to install the Security Center client application.....</p> <p>Query: Kindly confirm can we quote for Workstation suitable for GUI software.</p>	Please refer note mentioned in the Section IX Schedule A: Bill of Quantities S. No.1068
339	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1074	<p>Tender Clause: WATER LEAK DETECTION SYSTEM</p> <p>Query: Communication cable for WLD system is missing from the BOQ. Kindly confirm</p>	The communication cable is for WLD system which is already covered in Section IX - BOQ Sl. No. 1064.
340	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS CLAUSE 1.2.5 SYSTEM COMPONENTS HEAD END, PAGE NO: 28 OF 240	<p>Tender Clause: The Active Network Repeater Panel shall include a 10" (1024 x 600) Color touchscreen display / QWERTY Keypad. Additionally, the network display shall include environmental adjustment controls to maximize LCD legibility and the ability to scroll events by type. i.e. Fire Alarm, Supervisory Alarm, Trouble, etc.</p> <p>Query:</p>	Please refer Corrigendum – 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		We shall quote for 8" touchscreen display as per the approved make list. Kindly accept the same.	
341	SECTION VII- TECHNICAL SPECIFICATIONS,ELV & IBMS WORKS CLAUSE 1.2.8 SYSTEM COMPONENTS FIELD END, PAGE NO: 32 OF 240	Tender Clause: Addressable smoke and thermal detectors shall provide dual alarm and power/polling bi-colour LEDs. Both LEDs shall flash green under normal conditions, indicating that the detector is operational and in regular communication with the control panel, and both LEDs shall be placed into steady red illumination by the control panel, indicating that an alarm condition has been detected. If required, the LED flash shall have the ability to be removed from the system program. An output connection shall also be provided in the base to connect an external remote alarm LED. Query: Kindly accept single colour LED with Blinking in normal state & steady in alarm state. The same is applicable for detectors/devices	Please refer Corrigendum - 2 issued with this document.
342	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS CLAUSE 1.7 INTEGRATED BUILDING MANAGEMENT SYSTEM IBMS, PAGE NO: 149 OF 240	Tender Clause: Requirement of IoT Based BMS System Query: Please confirm whether the requirement is IOT based platform, or it should have capacity to handle the IOT platform which will be provided by customer.	Please refer Corrigendum - 2 issued with this document.
343	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS CLAUSE 1.7 INTEGRATED BUILDING MANAGEMENT SYSTEM - IBMS, PAGE NO: 149 OF 240	Tender Clause: Requirement of IoT Based BMS System Query: Please confirm, if you have IOT platform which protocol you need to push the data from BMS.	This is already covered in Section VII – Tender Specifications – ELV & IBMS Works- 1.7 Integrated Building Management System - IBMS
344	SECTION VII- TECHNICAL SPECIFICATIONS, ELV & IBMS WORKS, IO SUMMARY	Tender Clause: 3rd party Integartion Query: Please share the protocol details for the 3rd party equipments.	Please refer Corrigendum – 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
345	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 31 DAMAGE FOR NON-COMPLETION, PAGE NO: 33 OF 70	<p>Tender Clause: LD - Maximum of 10% of the contract value (inclusive of GST). The period of delay shall be as opined by the PMC/Project Officer which is final and binding on the contractor.</p> <p>Query: We request you to kindly consider the Maximum amount of LD upto 5% of contract value please.</p>	Tender conditions shall prevail.
346	COVER-I TECHNICAL BID, SECTION II PRE-QUALIFICATION TENDER NOTICE, CLAUSE 10 RETENTION MONEY, PAGE NO: 29 OF 66	<p>Tender Clause: Retention money - TIDCO shall deduct from the Running Account Bills equivalent to 5% (Five Percent) of the gross total value of each bill as retention money</p> <p>Query: We request you to kindly accept the retention money in the form of Bank Guarantee to maintain smooth and easy cash flow please.</p>	Tender conditions shall prevail.
347	COVER-II PRICE BID, SECTION V, CONTRACT DATA, SL.NO.12 & 16 PAGE NO: 68,69 OF 70	<p>Tender Clause: Contractor shall submit invoice with certified measurement sheets, abstract and statutory compliance statement before 15th of every month for the works completed in the preceding month. Payments shall be made by the EMPLOYER within 30 working days from the date of RA Bill certification by the PMC.</p> <p>Query: We request the employer to release the RA Bill payment of 80% within 7 days and balance 20% within 14 days from the date of submission of RA bills for maintaining easy cash flow.</p>	Please refer Corrigendum – 2 issued with this document.
348	COVER-II PRICE BID, SECTION V, CONTRACT DATA, SL.NO.19,20,21 & 22 PAGE NO: 69,70 OF 70	<p>Tender Clause:</p> <ol style="list-style-type: none"> 1. 50% of accepted SITC rate of items on pro-rata basis shall be made against supply of all materials/ Equipment on completion of necessary documentation, test certificate 2. 30% of accepted SITC rate of items shall be made against completion of respective Installation in position at site 3. 10% of accepted SITC rate of items shall be made against completion of respective Testing and commissioning 4. 10% of accepted SITC rate of items payment shall be made on handing over of works <p>Query: We request you to kindly consider below payment terms:</p>	Please refer Corrigendum – 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		10% of the Contract Value as Mobilization Advance recoverable against each RA Bills 1. 75% against supply of Material 2. 15% against installation works 3. 5% against Testing & Commissioning 4. 5% against Handing Over.	
349	COVER-II PRICE BID, SECTION IV, CONDITION OF CONTRACTS, CLAUSE 65 POWER, WATER & OTHER FACILITIES. PAGE NO: 47 OF 70	Tender Clause: Water - The Contractor shall make his own arrangements for the supply of good quality potable water at Site, for his labour at Site, and all charges for water shall be borne by the Contractor. Query: We request the Employer to provide construction water at one point within the site premises at free of cost please.	Tender conditions shall prevail.
350	GENERAL	Query: Mobilization advance - We request you to please provide interest free mobilization advance of 10% of contract value	Tender conditions shall prevail.
351	GENERAL	Query: Material Advance - We request the Employer to kindly add the material advance clause for this tender	Tender conditions shall prevail.
352	GENERAL	Query: Submission We presume that, all the documents shall be submitted online only in the ntenders.gov.in portal. No documents are required to be submitted in physical form. Please confirm.	Yes. Online submission only. Please refer Corrigendum – 2 issued with this document.
353	COVER-I TECHNICAL BID, TENDER NOTICE, CLAUSE 11 LAST DATE OF ONLINE SUBMISSION OF TENDER, PAGE NO: 3 OF 66	Tender Clause: On or before 18.09.2024 3:00 PM Query: we sincerely request you to kindly extend the due date of submission of tender by one month from the date of receipt of replies to pre-bid queries to enable us to quote our tender correctly and competitively for the subject project please	Please refer Date extension Corrigendum
354	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 11	Tender Clause: DRY TYPE DISTRIBUTION TRANSFORMER	Please refer Corrigendum – 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Design, Engineering, Manufacturing, Supply and supervision , installation, testing and commissioning of 2500KVA , 11kV/433V, Cast Resin Dry Type Distribution Transformer, 3ph, 50Hz, with vacuum break On Load Tap changer on HT side & Insulation level Class F insulated, Vector Dyn11, Continuous duty, copper wound as per relevant standard with Resistive temperature detectors.....</p> <p>Query: Kindly confirm OLTC Tap settings, which one is to be consider.</p>	
355	SECTION-IX BILL OF QUANTITY BOQ SL. NO.17 TO 51	<p>Tender Clause: LT PANEL Only the Main LT panel shall be fully complied to IEC 61439 part 1 & 2 of type tested assembly (TTA). All other panels shall be partially type tested (PTTA) as per IEC60439. Any details indicated in SLD, and specification also needs to be considered for panel cost.</p> <p>Query: We shall consider Main LT panel shall be fully comply to IEC 61439 part 1 & 2 of OEM type tested assembly (TTA) & All other panels shall be IEC 60439 CPRI approved PTTA panel with their own fabricated enclosure with approved make of breaker. Please confirm</p>	Please refer Corrigendum - 2 issued with this document.
356	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 17 TO 51 & SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS, CLAUSE 4 LT PANELS, PAGE 44 OF 198	<p>Tender Clause: LT PANELS AIR CIRCUIT BREAKERS Technical Specification for 4.LT Panels - Page 44 of 198 - For four pole breaker the microprocessor-based earth fault release shall be in built. 2. For TPN breaker the microprocessor-based earth fault release shall be in built with input from a separate neutral CT As per SLD, TCE.12824A-EL-4001-AU-40011 All ACB shall be provided with MP OL, S/C, E/F with self-diagnostic & Comm. Feature DATA SHEET FOR LT PANELS S. No:5.11 PROTECTION REQUIRED (A) RELAYS/ RELEASES MICROPROCESSOR BASED (B) RELAY/RELEASE TYPE & SETTINGS (C) UNDER VOLTAGE RELEASE REQUIRED SETTING (D)SHUNT TRIP REQUIRED - AS PER SLD</p> <p>Query: Please confirm, shall we consider SLD & Datasheet.</p>	Please refer Corrigendum - 2 (Annexure-1) issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
357	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 17 TO 51 & SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS, CLAUSE 4 LT PANELS, PAGE 48 OF 198	<p><u>Tender Clause:</u> MCCB Technical Specification for 4.LT Panels - Page 48 of 198</p> <ol style="list-style-type: none"> 1. The MCCB's shall be provided with thermal magnetic or microprocessor-based overload, short circuit and earth fault releases as specified in Data sheet 2. For TPN MCCB the microprocessor-based earth fault release shall be inbuilt with a separate neutral CT input, or the earth fault protection shall be provided by CBCT, ELR and shunt trip coil. 3. For thermal magnetic release the earth fault protection shall be provided by CBCT, ELR and shunt trip coil. <p>As per SLD, TCE.12824A-EL-4001-AU-40011</p> <p>Notes: 3)200A & above shall be MP based (OC+EF+SC). EF release shall be inbuilt with MCCB. External E/F release is not acceptable DATA SHEET FOR LT PANELS S. No: 6.9, 6.11</p> <ol style="list-style-type: none"> 1. RELEASES REQUIRED OVERLOAD, SHORT CIRCUIT, EARTH FAULT & UNDER VOLTAGE - REFER SLD 2. EARTH FAULT PROTECTION FOR TPN MCCB- THROUGH IN-BUILT RELEASE WITH A SEPARATE NEUTRAL CT INPUT OR THROUGH CBCT, ELR AND SHUNT TRIP COIL - REFER SLD <p><u>Query:</u> Please confirm, shall we consider SLD & Datasheet.</p>	Please refer Corrigendum - 2 (Annexure-1) issued with this document.
358	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 17 TO 51	<p><u>Tender Clause:</u> If any additional termination box is required the same shall be considered by contractor in the panel cost itself. The fault level of the component shall be same as the bus bar fault level indicated. The panel shall be designed to suit to the site condition. If any U shape/L shape panels required as per site requirement, contractor to consider all required dummy panel, adaptor boxes, bus bar extension, other accessories, etc. in the panel cost itself. All the cost required for BMS integration like cable, control modules,converters, connectors etc as per the attached scheme shall be included in panel cost itself. The scope shall include relay coordination study. ON / OFF / TRIP status for all the incoming breakers (ACB, MCCB, MCB, MPCB, RCBO) & meter parameter from all main panel (Listed Below) to be provided through modbus IP output (PLC) to connect to BMS through ethernet switch located within one of</p>	This is already covered in BMS IO Summary under Section VII Technical Specifications ELV & IBMS Works

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>the panels in each electrical room. All cost towards cable, ethernet switch, BMS interface module, etc shall be covered in the panel cost itself.</p> <p>As per BOQ ON / OFF / TRIP status for all the incoming breakers (ACB, MCCB, MCB, MPCB, RCBO) & meter parameter from all main panel (Listed Below) to be provided through ModBus IP output (PLC) to connect to BMS through ethernet switch located within one of the panels in each electrical room.</p> <p>As per SLD, TCE.12824A-EL-4001-AU-40011</p> <p>Notes: 22) ON / OFF / TRIP status for all the breakers (ACB, MCCB, MCB, MPCB, RCBO) & meter parameter from each panel to be provided through ModBus IP output/ethernet output for BMS connectivity</p> <p>Query: Please confirm, shall we consider only Status monitoring for all the breakers in each panel for BMS Connectivity.</p>	
359	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 22	<p>Tender Clause: APFC PANEL As per SLD, TCE.12824A-EL-4001-AU-40011 Detuned Reactor Material not to be mentioned in SLD.</p> <p>Query: Please Confirm. Whether Aluminium or Copper and also please confirm system voltage of 480V or 525V.</p>	Please refer Corrigendum - 2 (Annexure-1) issued with this document.
360	SECTION-IX BILL OF QUANTITY BOQ SL. NO. S.NO: 296	<p>Tender Clause: Supply, Fixing, Testing and Commissioning of 3.7kW AC Single phase EV charger with plug top & all accessories. in weatherproof MS Enclosure with and other associated accessories as required as per the site conditions</p> <p>Query: a) Please confirm the charger for 2wheelers or 4 wheelers and confirm that this is type 2 gun or Industrial socket. b) Also provide the make for EV Charger</p>	a) Please refer Corrigendum – 3 issued with this document. b) Please refer Corrigendum – 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
361	SECTION-IX BILL OF QUANTITY BOQ SL. NO. S.NO: 297	<p>Tender Clause: Supply, Fixing, Testing and Commissioning of 11kW AC Three phase EV charger with plug top & all accessories. in weatherproof MS Enclosure with and other associated accessories as required as per the site conditions</p> <p>Query: a) Please confirm the charger for 2wheelers or 4 wheelers since 11KW will not come for 2 wheelers, also type-2 gun or industrial socket type. b) Also provide the make for EV Charger</p>	<p>a) Please refer Corrigendum – 3 issued with this document. b) Please refer Corrigendum – 2 issued with this document.</p>
362	SECTION-IX BILL OF QUANTITY BOQ SL. NO. S.NO: 298	<p>Tender Clause: Supply, Fixing, Testing and Commissioning of 22.5kW DC Three phase EV charger with plug top & all accessories. in weatherproof MS Enclosure with and other associated accessories as required as per the site conditions</p> <p>Query: a) 22.5KW AC charger will come with CCS -type-2 gun & if it is DC charger then it will be 25KW with CCS gun. There is no plug top available in the DC chargers -Please confirm. b) Also provide the make for EV Charger</p>	<p>a) Please refer Corrigendum – 3 issued with this document. b) Please refer Corrigendum – 2 issued with this document.</p>
363	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 408 TO 412	<p>Tender Clause: Design, manufacture, assembly, supply, installation, testing, delivery and commissioning of 30 kVA (Continuous rating) online, double conversion operating on conventional mode 3 ph. input and 3 ph output UPS system with IGBT rectifier without isolation transformer as per technical specifications. complete with all accessories and fire/over temperature detection, control/Display panel & energy optimization feature.....</p> <p>Query: a) kindly confirm Degree of Protection b) Servo Controlled Voltage Stabiliser (SCVS) is required or not</p>	<p>a) This is already mentioned in UPS Datasheet under Section VII Technical Specifications - Electrical Works - Datasheet b) Not required. This is already mentioned in UPS Datasheet under Section VII - Technical Specifications - Electrical Works - Datasheet</p>
364	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 413 TO 414	<p>Tender Clause: Design, manufacture, assembly, supply, installation, testing, delivery and commissioning of 25 kVA (Continuous rating) online, double conversion operating on conventional mode 3 ph input and 3 ph output UPS system with IGBT rectifier without isolation transformer as per technical specifications. complete with all accessories and fire/over temperature detection, control/Display panel & energy optimization feature.....</p>	<p>a) This is already mentioned in UPS Datasheet under Section VII Technical Specifications - Electrical Works – Datasheet b) Not required. This is already mentioned in UPS Datasheet under</p>

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Query: a). kindly confirm Degree of Protection b). Servo Controlled Voltage Stabiliser (SCVS) is required or not</p>	Section VII - Technical Specifications - Electrical Works - Datasheet
365	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 304 TO 350	<p>Tender Clause: CABLE TRAY Supply, fabrication, installation & painting of Hot Dip galvanized (65 - 70 Micron as per IS2629) Ladder cable racks / trays of up to 300 (1.6mm thickness) & more than 300mm up to 750mm (2 mm thickness) more than or equal to 1000mm (2.5 thickness) with necessary painted G.I structural supports in horizontal or vertical formation & single / multitier formation as specified and shown on drawings.....</p> <p>Query: a) BOQ S. No: 305 to 311 Ladder required welded type or bolted type? b) BOQ S. No: 305 to 311 As per BoQ ladder tray thickness, 750mm to 450mm 2mm but as per specification 2.5mm please clarify. c) BOQ S.No: 305 to 308 Please share specifications of Ladder 300mm, 200mm, 150mm & 100mm otherwise please clarify. (Shall we quote 15*30*15mm rungs & runners 12*50*12mm thickness 1.6mm thickness) d) BOQ S. No: 309 As per BoQ 450mm Ladder height 50mm but in specification 450mm height 75mm please clarify. e) BOQ S.No: 336 Please share tray size to tray size required for the REDUCER quotation. f) BOQ S. No: 343 Please share the junction box with cover thickness.</p>	a) Please refer Corrigendum – 3 issued with this document. b), c), d) Please refer Corrigendum– 2 issued with this document. e) Tender condition shall prevail. This is already covered in Section IX - Schedule A: Bill of Quantities No. No 336 to 341. f) Please refer Corrigendum – 3 issued with this document.
366	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 383 TO 385	<p>Tender Clause: ASSOCIATED ACCESSORIES - Supply and fixing of heavy-duty PVC& heavy duty Steel conduit of various dia., exposed or concealed, with all accessories, Wall chasing, finishing, fish wire, etc., as directed by the departmental officers and the brand should got approval. (Exposed Conduiting - Steel & Concealed Conduiting - PVC) As per BOQ - Heavy duty Steel conduit TECHNICAL SPECIFICATION ELECTRICAL WORKS (Page 100 of 198) - Steel conduits shall be seamed by welding and hot dip galvanised unless otherwise specified. They shall be supplied in standard lengths of 5 m.</p> <p>Query:</p>	Please refer Corrigendum – 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Kindly confirm we shall consider MS Conduits in standard length of 3m for Steel Conduits.	
367	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 253 TO 257	Tender Clause: DECORATIVE LIGHT FIXTURE TYPE (TYPE - 25 LIGHT FIXTURE TO TYPE - 29 LIGHT FIXTURE) TECHNICAL SPECIFICATIONELECTRICAL WORKS (Page 96 of 198) NOTE: Base rates for some decorative fixture given below same should be followed during Bidding. Query: We shall consider base rate for decorative fixtures given in the technical specification document.	Tender Conditions shall prevail.
368	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 389	Tender Clause: RCC Half cut Hume pipe of following size 900mm below ground level, including collars & civil works. Query: Kindly confirm NP2 or NP3 Hume pipes	Please refer Corrigendum – 3 issued with this document.
369	GENERAL	Query: Please confirm the scope for Lightning protection system.	Tender Conditions shall prevail. Lightning protection system is not in scope of this tender.
370	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 924,925,926 & 927	Tender Clause: 924. VENTILATION WORKS 925. Supply, installation, testing & commissioning of Fire Rated Tube axial exhaust Fan with motor including casing made of Hot dipped Galvanized Iron, motor, with adjustable pitch die cast aluminium impeller (Hub and blades) Casing position shall be as per the job requirement and shall be marked on the fan assembly of the following capacities. Note: The Fan assemble along with motors should be tested for Temperature range: 300 deg C/2Hours for Smoke Evacuation. Cost inclusive of proposed fan motor suitable KW Starter panel for exhaust fan with all other associated accessories as required as per the site conditions with 2NO + 2NC potential free contacts, connectors, contactors with wiring etc are to be provided for ON /OFF & indication for ON OFF & TRIP to be provided. 926. 30000Cfm, 25mm ESP - Smoke Extraction 927. 22000Cfm, 25mm ESP -Smoke Extraction	a) Please refer Corrigendum – 3 issued with this document. b) Tender conditions shall prevail. c) to e) Please refer Corrigendum – 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Query:</p> <p>a) Motor IE rating required. b) Instead of Hot dipped galvanized iron, shall we consider MS with polyester power coating. c) Noise level at 3m distance required. d) Outlet velocity required. e) Is a motor with a fire rating of 300 degrees for 2 hours required, or would one with a rating of 250 degrees for 2 hours be sufficient?</p>	
371	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 928	<p>Tender Clause: Supply installation testing & commissioning Ductable axial flow units incorporated with/without sound attenuators, flow straighteners according to the type, bird screen and cowl and suitable for outdoor installation and mounted on a steel framework with vibration isolation cushy foot mountings of following capacity. Cost inclusive of proposed fan motor suitable KW Starter panel for exhaust fan with all other associated accessories as required as per the site conditions with 2NO + 2NC potential free contacts, connectors, contactors with wiring etc are to be provided for ON /OFF & indication for ON OFF & TRIP to be provided.</p> <p>Query:</p> <p>a) Kindly confirm Motor IE rating. b) Instead of Hot dipped galvanized iron, shall we consider MS with polyester power coating. c) Noise level at 3m distance required. d) Outlet velocity required. e) Which motor we should consider class F or class H? f) If the sound level achieved, can we neglect attenuator?</p>	<p>a) Please refer Corrigendum – 3 issued with this document. b) Tender conditions shall prevail. c) to f) Please refer Corrigendum – 3 issued with this document.</p>
372	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 935 TO 941	<p>Tender Clause: Supply, Installation, Testing and Commissioning of Double skin cabinet type, inner skin and outer skin shall be minimum 1 mm thick pre coated and pre plasticized sheets, Puff panel of 25 mm(+/-1mm) thickness, density of insulation shall be 48 Kg/Sq.M, DIDW/SISW backward curve fan with motor shall be IE 4 type fan motor to suitable for VFD to ramp up & ramp down the</p> <p>Query:</p> <p>a) Instead of 1 mm thick shall we considered 0.8 mm thick sheet?</p>	<p>a) Tender conditions shall prevail. b) to e) Please refer Corrigendum – 3 issued with this document. f) Tender conditions shall prevail. g) Tender conditions shall prevail.</p>

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>b) For cabinet fan total efficiency above 75% is critical.</p> <p>c) Kindly confirm the noise level at 3m distance?</p> <p>d) Outlet velocity required.</p> <p>e) For SISW fan shall we considered without cabinet model.</p> <p>f) Static pressure is 40mm only so that Shall we considered DIDW forward curve also.?</p> <p>g) An IE4 motor has longer lead times. Please advise if we can select IE3 or IE2 motor for the fans.</p>	
373	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 944	<p>Tender Clause: All sheet metal Double Skin Rectangular In Line Centrifugal Fans fabricated out of 1 mm thick Galvanized Steel for use as Exhaust/Outside Air or fresh air Unit. The unit shall be complete with flanged connection on either side, fixing bracket, fan motor assembly, power cabling with required plug of around 5m length from the unit to power socket provided by other agencies etc.. suitable for operation through on 220 V, 1 Ph, 50 Hz AC supply. The noise from Inline Fan shall not exceed 50 dbA. The cost of the Inline Fan also includes DOL Starter with On/off push button station, A/M Status and PF/relays etc for BMs integration and along with inbuilt fan regulator.</p> <p>Query: a) Instead of 1 mm thick shall we considered 0.8 mm thick sheet. b) Kindly share the Noise level at 3m distance?</p>	a) & b) Please refer Corrigendum – 3 issued with this document.
374	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 948	<p>Tender Clause: 800 Cfm battery exhaust fan - 20 mm external static Inline fan with all necessary supports. Unit shall be provided along with fire retardant flexible canvass with Zip, Cowl piece with bird mesh and supporting arrangements.</p> <p>Query: Are battery exhaust fans to be quoted with explosion proof motor?</p>	Please refer Corrigendum – 3 issued with this document.
375	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 951	<p>Tender Clause: 250 Cfm fresh air fan with inbuilt MERV-8 & MERV-13 filters and 25 mm external static Inline fan with all necessary supports. Unit shall be provided along with fire retardant flexible canvass with Zip, Cowl piece with bird mesh and supporting arrangements.</p> <p>Query: 1. MERV - 13 filter is critical to provide kindly share the static loss & micron level.</p>	Tender conditions shall prevail.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
376	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 952	Tender Clause: 600 Cfm fresh air fan with inbuilt MERV-8 & MERV-13 filters and 25 mm external static Inline fan with all necessary supports. Unit shall be provided along with fire retardant flexible canvass with Zip, Cowl piece with bird mesh and supporting arrangements. Query: 1. MERV - 13 filter is critical to provide kindly share the static loss & micron level.	Tender conditions shall prevail.
377	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 995 & 996	Tender Clause: BASMENET VENTILATION WORKS Exhaust air application - Normal Mode & Fire mode - Supply, installation, testing and commissioning of Exhaust air Vane axial flow fans. Fan construction shall include Pre-galvanized or Hot Dip Galvanized casing with minimum 220 GSM Zinc Coating, welded or casted propeller with aluminum airfoil blades, Query: a). Instead of Hot dipped galvanized iron, shall we consider MS with polyester power coating. b). IE4 rating for class H motor is critical and high Leadtime shall we consider IE2 or IE3?	a) & b) Tender conditions shall prevail.
378	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 999	Tender Clause: FRESH AIR AXIAL FANS NORMAL & FIRE MODE - Supply, installation, testing and commissioning of Fresh air Vane axial flow fans. Fan construction shall include Pre-galvanized or Hot Dip Galvanized casing with minimum 220 GSM Zinc Coating, welded or casted propeller with aluminum airfoil blades, straightening vanes, universal mounting arrangement and Totally Enclosed Fan-Cooled (TEFC) or Totally Enclosed Air Over/Airtight (TEAO) motor. Motors shall be VFD rated with IE4 efficiency. Motor shall be suitable for 415V, 3 Phase, 50 Hz AC supply..... Query: Instead of Hot dipped galvanized iron, shall we consider MS with polyester power coating.	Tender conditions shall prevail.
379	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1003	Tender Clause: Supply, installation, testing & commissioning of dual speed induction Centrifugal type Jet ventilation fans long casing as per the specification. The entire assembly of fan shall be suitable to operate at fire mode condition to withstand the temperature of 300 deg C for Two hour & with totally enclosed Class-H insulated motor. . Motor shall be suitable for	Please refer Corrigendum – 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		415±10% volts, 50 Hz, 3 phase AC supply. The specified Jet fan quantity may be approximate now, the contractor to calculate the no. of fans required based on the CFD analysis. The quoted price shall include the cost of CFD analysis for normal / fire (motor Reputed brand) Query: 1. Kindly share the jet fan cfm ?	
380	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1027	Tender Clause: Providing, fixing, jointing, testing and commissioning Hubless C.I. pipe for kitchen waste pipes installation conforming to IS:15905, stainless steel coupling with EPDM rubber as per DIN 19543, cut to required lengths including all necessary fittings and specials such as Bends, junctions, offsets, access pieces (plain or door) & vent cowl. Fixing at wall/ceiling level supported by galvanized steel clamps & hangers etc. duly epoxy coated.Cutting, chases/holes in floors / walls / slab with all necessary accessories as per specification/ drawings and directed by PMC/Employer. NOTE: HUBLESS C.I. PIPE TO SPUN / CENTRIFUGALY CAST CI PIPE ADAPTOR FLANGE TO BE PROVIDED 40 mm dia Query: a) Please share the list of make b) 40mm size not available on CI pipe kindly clarify	a) Please refer Corrigendum - 2 issued with this document. b) Please refer Corrigendum - 3 issued with this document.
381	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1041	Tender Clause: Supply, installation and fixing testing and commissioning of Horizontal approved make electically operated storage Geysers / Water Heater inner container made from copper or stainless steel including the remal instalation	Please refer Corrigendum - 2 issued with this document.
382	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1043 & 1045	Tender Clause: S.S. Floor Clean out & S.S. Floor grating Query: Please share the list of make	Please refer Corrigendum - 2 issued with this document.
383	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1070	Tender Clause: ASPIRATION SMOKE DETECTION SYSTEM Query: Tender Drawing Not Available	This will be provided during execution stage.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
384	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1074	Tender Clause: WATER LEAK DETECTION SYSTEM Query: Tender Drawing Not Available	This will be provided during execution stage.
385	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1079	Tender Clause: RODENT REPELLENT SYSTEM Query: Tender Drawing Not Available	This will be provided during execution stage.
386	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1126	Tender Clause: CAR PARKING GUIDANCE & MANAGEMENT SYSTEM Query: Tender Drawing Not Available	This will be provided during execution stage.
387	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1317	Tender Clause: INTEGRATED COMMAND & CONTROL CENTRE Query: Tender Drawing Not Available	This will be provided during execution stage.
388	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1048	Tender Clause: Supplying, installation, testing & commissioning of micro processor based Intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5% V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories. The panel shall be compatible for IBMS system with open protocol Modbus over IP complete as per specifications. Ten Loop Panel Query:	Please refer Corrigendum - 3 issued with this document. As per BoQ, Fire Alarm & PA Systems are two different system. Hence the integration shall be interfaced through Module Level only.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Module level integration with PA is Ok..?	
389	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1051	<p>Tender Clause: Supplying, installation, testing and commissioning of Addressable Active Repeater Panel consists of display board having 160 Character Display with Touch key pad, Mother board which will have 64 Bit Processor, Inbuilt RS-485 Networking Circuit for peer to peer networking.</p> <p>Query: Shall we have Non-Touch Repeater Panel since Fire Alarm panel having option of other keypad also</p>	Please refer Corrigendum - 3 issued with this document.
390	SECTION-IX BILL OF QUANTITY BOQ SL. NO.1054	<p>Tender Clause: Supplying, installation, testing and commissioning of Fault Isolator Module capable of monitoring shorted loop circuit and automatically restore communications as required with Back box, Glands</p> <p>Query: If addressable devices having inbuilt isolator, this item will not be in scope</p>	Tender Conditions shall prevail
391	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1056	<p>Tender Clause: Supplying, installation, testing and commissioning of addressable Fire Control Module / Control Relay Module for AHU / CSU / HRW /TFA Tripping, Access Control Door Tripping, Smoke Exhaust Fan activation, Fire Damper Activation / PA System Activation etc complete as required with back Box, Glands</p> <p>Query: The quantity is inclusive of Control module for Sounder strobe which is not mentioned</p>	Please refer Corrigendum - 3 issued with this document.
392	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1058	<p>Tender Clause: Supplying, installation, testing and commissioning of intelligent Addressable Beam Detector with Short Circuit Isolator (inbuilt or separate) complete with emitter and received including connections with remote test features etc complete as required with back box, Glands. The rate shall inclusive of Response Indicator. Also the rate shall inclusive of External dedicated 24VDC Power Supply Unit with Battery backup in case the Beam</p>	Please refer Corrigendum - 3 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		Detector shall not have loop pwered. Power Supply Unit shall be provided with necessary Enclosures. Query: Should we consider Isolator along with Beam Detector cost if BD not having Isolator Module or the Isolator from BOQ can be considered	
393	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1059	Tender Clause: Supplying, installation, testing and commissioning of Intelligent Addressable Duct Detector including suitable Photo detector complete with base as required with back box , Glands Query: Duct Detector Housing + Multisensor	Tender Conditions shall prevail
394	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1060	Tender Clause: Supplying, installation, testing and commissioning of Intelligent Addressable Manual Pull Station Dual Action type, complete as required with back Box, Glands. Query: Single Action MCP is Ok..?	Tender Conditions shall prevail
395	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1061	Tender Clause: Supplying, installation, testing and commissioning of addressable horn cum strobe complete as required with Back Box, Glands Query: Conventional sounders can be considered.. as Control Modlue availale in BOQ to Address the SS	Tender Conditions shall prevail.
396	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1066	Tender Clause: Supply, installation, fixing, testing and commissioning of Analogue Addressable Monitor module with back box (1.6mm thick RED colour) operating at 24V DC, 2A, rated at 230V, provided withSPDT contact with required fixing accessories Query: SPDT contact is not applicable for Monitor Module	Tender Conditions shall prevail
397	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1070 & 1071	Tender Clause: ASPIRATION SMOKE DETECTION (ASD) SYSTEM Supplying, installation, testing & commissioning of intelligent aspiration detector for area coverage of minimum 5000 sq.ft complete as required.	Isometric drawing shall be submitted by OEM as per the technical / functional basis as per the requirement mentioned in the BoQ.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Query: Kindly provide Isometric drawing of areas where ASD system to be installed to arrive BOM</p>	The areas for ASD shall be referred from respective tender drawings.
398	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1073	<p>Tender Clause: Supply, Installation, testing, commissioning of 25 mm outer dia CPVC Pipe with end caps including making air sampling opening of appropriate dia on appropriate interval and all accessories as required, (rate for area protected in sq.m)</p> <p>Query: Let us have unit in RM since the unit provided in Sq.Mtr</p>	Tender Conditions shall prevail
399	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1079	<p>Tender Clause: RODENT REPELLENT SYSTEM Supplying, installation, testing and commissioning of 1 pair flexible 14/40 SWG Specially coated wire, PVC sheathed Cable</p> <p>Query: Shall we consider unit as RM instead of Each</p>	Please refer Corrigendum - 3 issued with this document.
400	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1086	<p>Tender Clause: Supply, Installation, Testing & Commissioning of Wall Mount Loud Speaker with EN 54 or UL Certified, having the following specifications : Surface / Wall mount speaker with Driver : ~ 4" Polypropylene Woofer, ~ 1" Ferrofluid Cooled Dome Tweeter Power 9W or Better Rated Power: 6 Watts or better Sensitivity: 88dB or better Power Tapping: 6/3/1.5W or better Effective frequency range (-10 dB) :15 Hz to 16KHz or better Dispersion : 90° x 90° UV-resistant PC / ABS, Injection Moulded, Weatherproof Enclosure, Note: The rate shall inclusive weather proof cabinet for Cafeteria wall mount 6W Speaker. The Quantification of the weather proof speakers as per the tender drawing.</p> <p>Query: Shall we have Cafeteria speaker quantity separate to consider Weather proof speakers in addition to wall mount speaker since to have better clarity on quantity</p>	Please refer the Section-VIII Tender Drawings to Quantify the requirement of Weatherproof Speakers.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
401	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1089	<p>Tender Clause: SITC of EN-54 certified Touch Screen Digital Communications Station with Goosneck microphone and which can support Handheld, Surface (Flat) or Desktop (Free Standing) Versions.</p> <ul style="list-style-type: none"> - Connects to call station interface via CAT-5 cable or IP Configurable, - Redundant Ethernet Ports, - PoE Powered, - Suitable for use as the Emergency Microphone Paging Station in EN54-16 Systems or equivalent <p>Query: No of Zones required</p>	Please refer Corrigendum - 3 issued with this document.
402	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1092	<p>Tender Clause: Supply, installation, testing & commissioning of emergency power supply manager allows the permanent emergency power supply in accordance with EN 54-4 certified, in the event of a power failure. The 19" unit (2U) is equipped with 6 fused outputs that can be used with up to 30 A load. The smart battery condition</p> <p>Query: Safe Transfer Switch.. Is it Ok?</p>	Please refer Section VII Technical Specification ELV & IBMS WORKS – IP Public Address System, Clause 1.3.5 - Multifunction Power supply and Battery Charger
403	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1098 & 1113	<p>Tender Clause: SECURITY ACCESS CONTROL SYSTEM Supplying, installation, testing and commissioning of panic bar for fire exit doors (double leaf) as per Specification (For fire exit doors, Panic BAR shall be RED in color).</p> <p>Query: Hope there is no requirement in Single Leaf Door</p>	Tender Conditions shall prevail
404	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1128	<p>Tender Clause: Supply, Installation, Testing and Commissioning of ASSA Flex Tamper Proof RFID Tags for 4 wheeler should be compatible with the Long Range Reader</p> <p>Query: Approved make required</p>	Please refer Corrigendum - 2 issued with this document.

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
405	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 1129	Tender Clause: Supply, Installation, Testing and Commissioning of ASSA Flex Tamper Proof RFID Headlight Tags for 2 wheeler should be compatible with the Long Range Reader Query: Approved make required	Please refer Corrigendum - 2 issued with this document.
406	COVER-I TECHNICAL BID ,SECTION II, PRE-QUALIFICATION TENDER NOTICE CLAUSE 3(III) ELIGIBILITY CRITERIA FOR PARTICIPATION, PAGE 18 OF 66	Tender Clause: Criteria-1 Certificates issued by the Government Organizations / Non-Government Organisation works* in respect of MEP works** for one multi storied RCC framed Office/ Commercial / IT Building with a minimum BUA of 5,00,000 sq.ft. with minimum 10 floors with a value not less than Rs.48 Crores under a single agreement in the last 5 years ending 31st March 2024. Query: Clarification Requested We kindly request the following relaxations in the tender's minimum eligibility criteria, as they are not specific to MEP works <ul style="list-style-type: none"> • Removal of minimum area requirement of 5,00,000 Sq.ft • Allowing buildings with a height equivalent to 10 floors i.e, 30meters (10 floors x 3m per floor) Henceforth, the criteria shall be revised as follows: Certificates issued by the Government Organizations / Non-Government Organisation works* in respect of MEP works** for one multi storied ROC framed Office/Commercial / IT Building with minimum 10 floors or a height of 30 meters , with a value not less than Rs.48 Crores under a single agreement in the last 5 years ending 31st March 2024.	Tender Conditions shall prevail
407	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS CLAUSE 3 RAISING MAINS & BUSDUCTS, PAGE NO: 32 OF 198	Tender Clause: Cu braided / multi leafed conductors for termination at both the ends Query: We supply Tinned Laminated Copper flexible	Please refer Corrigendum - 2 issued with this document.
408	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS	Tender Clause: Provision for tapping on bus trunk at maximum 1 meter interval on one side & 0.5 meter interval on both the side shall be made on bus trunking. Query:	Tender Conditions shall prevail

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
	CLAUSE 3 RAISING MAINS & BUSDUCTS, PAGE NO: 33 OF 198	In Rising main tap off points shall be provided only in one side @ 1Mtr Interval	
409	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 69,79,87 & 95	Tender Clause: 2RX50X10mm GI. flat for Earth busbar Query: We provide 2Rx65x8mm Aluminium eath flat	Tender Conditions shall prevail
410	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 76,77 & 78	Tender Clause: Separate cable alley need to be considered for cable termination considering the cable bending radius. Query: Not in C & S Scope	Tender Conditions shall prevail
411	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 802	Tender Clause: IP 55 Query: Rising Main IP shall be IP 54	Tender Conditions shall prevail
412	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS CLAUSE 2.5 LV WINDING, PAGE NO: 20 OF 198	Tender Clause: LV Winding shall be of copper foil, coated with class F insulation, epoxy resin reinforced with fibre glass layers pre-impregnated and casted under vacuum Query: LV windings shall be of high grade copper foil and Insulation material shall be of Epoxy resin pre impregnated (Prepreg) solid multi-layer heated to become a strong cylinder without casting.	Tender Conditions shall prevail
413	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS CLAUSE 2.5 LV WINDING, PAGE NO: 20 OF 198	Tender Clause: The conductors shall be transposed at suitable intervals in order to minimize eddy current and to equalize the distribution of current and temperature along with windings. Query: LV windings shall be of high grade copper foil and Insulation material shall be of Epoxy resin pre impregnated (Prepreg) solid multi-layer heated to become a strong cylinder without casting.	Tender Conditions shall prevail

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
414	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS CLAUSE 2.5 HV WINDING, PAGE NO: 21 OF 198	Tender Clause: Insulation of HV winding shall be Class 'F' with temperature rise limited to Class 'B'. Query: We have considered Temperature rise limited to class F	Please refer Corrigendum - 2 issued with this document.
415	SECTION VII- TECHNICAL SPECIFICATIONS, ELECTRICAL WORKS CLAUSE 2.8 TERMINATION, PAGE NO: 22 OF 198	Tender Clause: HV cable box: Query: HV TERMINATION Being OLTC construction the complete length of the transformer occupied with OLTC. There is no possibility with cable box in HV Side on the enclosure. So we will provide HV direct termination into the the enclosure in top entry.	Tender Conditions shall prevail
416	SECTION VI- LIST OF APPROVED MAKES-HVAC WORKS	We KIRLOSKAR CHILLERS PRIVATE LIMITED are manufacturing chillers for past 29 years in INDIA and we have supplied many chillers to most of the government projects like DAE, ISRO, DRDO, NTPC etc., we request you to approve our make.	Please refer Corrigendum - 2 issued with this document.
417	SECTION-IX BILL OF QUANTITY BOQ SL. NO. 621 & SECTION VII- TECHNICAL SPECIFICATIONS, HVAC WORKS, SECTION III – CHILLER, CLAUSE 3.2 .8, CHILLER UNIT CONTROL FEATURES PAGE NO: 30 OF 198	Tender Clause: 621 WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%. VFD shall be liquid cooled only, water/refrigerant cooled as per OEM standard.), IE4 motor, water cooled condenser, insulated chiller, flow switch at chiller and condenser, spring vibration isolators, integral refrigerant piping and wiring, grooved couplings at chilled & condenser water inlets & outlets, marine water box at condenser with hinges, accessories as required and called for, automatic and safety controls mounted in central console panel and all mounted on a steel frame etc. Motor shall be suitable for operating on 415±10% 50 cycles. 3 phase AC supply and soft starter. Refrigerant used shall be Ozone friendly HFC R134a/ R 1233ZD as per specifications. Chiller for air conditioning system shall be selected on the design basis as given below condition. The chiller Microprocessor shall be suitable for BMS integration and provided with suitable protocol. Chillers capacity of each chilling unit will be as follows: Rate shall inclusive of factory witness test as specified in the technical specification..... Query:	a) Tender Conditions shall prevail b) Please refer Corrigendum - 3 issued with this document. c) Tender Conditions shall prevail

Sl.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>a) For Centrifugal Chiller OEM offers standalone VFD. We request you to accept.</p> <p>b) Being refrigerant cooled Squirrel Cage induction motor. IE class is not applicable.</p> <p>c) In the BOQ it has been Indicated as VFD starter and in the specification, it has been indicated as Soft Starter. We request you to confirm which starter to consider for Centrifugal Chiller.</p>	
418	<p>SECTION-IX BILL OF QUANTITY BOQ SL. NO. 622</p>	<p>Tender Clause: AIR COOLED CHILLER - Design, Supply, installation, testing and commissioning of Air COOLED SCREW CHILLER - multiple screw compressors, energy efficient IE4 motor, Air cooled condenser, flow switch at chiller , spring vibration isolators, integral refrigerant piping and wiring, grooved couplings at chilled water inlets & outlets, accessories as required and called for, automatic and safety controls mounted in central console.....</p> <p>Query: As you are aware that IPLV shall be based upon AHRI condition. However, in the BOQ air cooled chiller clause 622 it has been indicated as 1.1 KW/TR (IPLV max) for design condition please clarify</p>	Please refer Corrigendum - 3 issued with this document.
419	<p>SECTION-IX BILL OF QUANTITY BOQ SL. NO. 622 & SECTION VII- TECHNICAL SPECIFICATIONS, HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.1.2, TYPE & CAPACITY, PAGE NO: 20 OF 198</p>	<p>Tender Clause: 622. AIR COOLED CHILLER - Design, Supply, installation, testing and commissioning of Air-COOLED SCREW CHILLER. - multiple screw compressors, energy efficient IE4 motor, Air cooled condenser, flow switch at chiller , spring vibration isolators, integral refrigerant piping and wiring, grooved couplings at chilled water inlets & outlets, accessories as required and called for, automatic and safety controls mounted in central console panel and all mounted on a steel frame etc. Motor shall be suitable for operating on 415±10% 50 cycles. 3 phase AC supply. Refrigerant used shall be Ozone friendly HFC R134a/ R 1233ZD as per specifications. Chiller for air conditioning system shall be selected on the design basis as given below condition. The chiller Microprocessor shall be suitable.....</p> <p>Query: In the BOQ it has been indicated as 2 compressors for air cooled chiller. In the tender specification it has been indicated as single/multiple compressors. Please confirm no of compressor you required per chiller for air cooled chiller.</p>	Please refer Corrigendum - 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
420	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.1.3, GENERAL, PAGE NO: 20 OF 198	<p>Tender Clause: Provide factory-assembled and tested, packaged, air cooled, liquid chillers consisting of Unit mounted VFD with harmonic filter air cooled chilled is preferred, As per IEEE519 standards. screw compressors, compressor motor, air cooled condenser, condenser fans, evaporator, purge unit, refrigeration accessories, instrument and control panel including gages and indicating lights, auxiliary components and accessories, and motor starters. Construct and rate units in accordance with AHRI Standard 550/590.</p> <p>Query: a) Please confirm whether AHF is required. If required, we request you to accept standalone AHF. b) Also please confirm the required THID. Also please confirm you require single AHF suitable for multiple chiller (or) single AHF for single chiller. c) Being positive pressure system purge unit is not required for our chiller we request you to accept. d) Being advancement in the control panel we request you to accept the sensor and transducer instead of gauges and indicator units.</p>	a) to b) Please refer Corrigendum - 3 issued with this document. c) Tender conditions shall prevail. d) Please refer Corrigendum - 3 issued with this document.
421	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC WORKS, SECTION III – CHILLER, CLAUSE 3.1.6 EVAPORATOR, PAGE NO: 21 OF 198	<p>Tender Clause: Provide evaporator of ASME U Stamped shell and tube type, seamless or welded steel construction, with cast iron or fabricated steel heads, integrally finned seamless copper tubes either smooth bore or internally enhanced, rolled or silver brazed into tube sheets. Space tube support sheets approximately 2.5 feet. Design, test and stamp refrigerant and water side for 150 percent of.....</p> <p>Query: Request you to accept temperature sensor instead of thermometer.</p>	Please refer Corrigendum - 2 issued with this document.
422	SECTION VII- TECHNICAL SPECIFICATIONS,HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.1.7, AIR COOLED CONDENSER PAGE NO: 22 OF 198	<p>Tender Clause: The condenser coil shall be made out of copper tube with aluminum fins / aluminum micro channel E-coat. The coils shall be sized so as to optimize performance with respect to air flow rate, pressure drop, condensing temperature, power consumption, etc. Thus the values furnished for the parameters of the coil in the Schedule of Equipment shall be regarded as suggested values rather than specified values. The condenser coils shall provide with protective weld mesh to protect the fins from damage. shall be complete with protecting guards.</p>	Please refer Corrigendum - 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>Query: Our chiller is with V coil design. Hence Weld Mesh is not required. Request you to accept the same.</p>	
423	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC WORKS, SECTION III – CHILLER, CLAUSE 3.1.8, INTEGRAL CONTROL PANEL & CONTROLS, PAGE NO: 22 OF 198	<p>Tender Clause: 3.1.8 INTEGRAL CONTROL PANEL & CONTROLS When the chiller is commanded to run (either locally or remotely), the chiller will command the condenser water isolation valves to open and evaporator pumps to run via a dry contact closure (rated 10 amps, 120 V AC) located in the chiller cabinet. Pump control power will be provided from the individual MCC control circuits (24 V DC).</p> <p>Query: Chiller control panel will control only chillers not pumps request you to accept.</p>	Please refer Corrigendum - 2 issued with this document. Chiller shall be controlled and monitored through BMS.
424	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.1.10, ELECTRIC MOTOR PAGE NO: 25 OF 198	<p>Tender Clause: Motor shall be energy efficient and suitable for 415±10% volts, 3phase, 50cycles AC supply. Hermetic / semi hermetic motors shall be gas cooled, two pole, squirrel cage induction types. In case of open compressor type motors shall be screen protected drip proof squirrel cage induction type. Motor shall be designed and guaranteed for continuous operation. Insulation of motors shall be `F` class and IP55. Temperature rise of motor under rated service conditions shall not exceed 80 Deg C (by resistance method of measurement) over an ambient of 40 Deg C. the motor shall be provided with a combination of ball and roller bearing. Factory assembled Terminal box of sturdy construction shall provide enough space for terminating, connecting and earthing of XLPE.....</p> <p>Query: Lubrication shall be of differential oil pressure, hence oil pump is not required.</p>	Please refer Corrigendum - 2 issued with this document. Lube-oil pumps requirement shall be provided as per OEM design.
425	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.2, WATER COOLED WATER CHILLING MACHINE: PAGE NO: 27 OF 198	<p>Tender Clause: 3.2 WATER COOLED WATER CHILLING MACHINE: System Selection for commercial space & Common areas: Based on the calculations and the nature of the application of the building, we are proposing Water Cooled Chiller System for the Office areas and the Shell & core areas in Fintech Tower. It is proposed to have a dedicated Water-cooled chilled water system for the Office Spaces and Shell and core area with the plant room proposed in the Podium-01 floor. The chilled Water pumping philosophy will be Constant Primary & Variable Secondary</p>	Tender conditions shall prevail.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
		<p>pumping system. The total Air-conditioned area for the above-mentioned areas in Fintech tower is around 289343.0 Sqft. and the total air-conditioning requirement will be around 1120.0 TR Total AC load required in TR = 1120 TR Considering diversity of 85% = 952 TR (2Working+1StandBy),</p> <p>Query: The capacity control for the centrifugal chiller shall be 100% down to 30% with constant condenser entry and 100% down to 10% with AHRI relief. We request you to accept.</p>	
426	SECTION-IX BILL OF QUANTITY BOQ SL. NO.621	<p>Tender Clause: WATER COOLED CHILLERS -Supply, Installations, testing, erection and commissioning of WATER COOLED CENTRIFUGAL CHILLERS with BMS compatible VFD (Unit mounted factory calibrated. VFD shall be with active harmonic filter with THD not exceeding 5%.VFD shall be liquid cooled only, water/refrigerant cooled as per OEM standard.), IE4 motor,.....</p> <p>Query: COP and IKW/TR and IPLV mentioned in the BOQ or more stringent for smaller capacity centrifugal chiller, hence please indicate tolerance if any</p>	Tender conditions shall prevail.
427	SECTION VII- TECHNICAL SPECIFICATIONS, HVAC SYSTEM WORKS, SECTION III – CHILLER, CLAUSE 3.2.1 PAGE NO: 32 OF 198	<p>Tender Clause: 3.3.1 DETAILED DESIGN SUBMITTALS On the Award of Contract, the HVAC Contractor / manufacturer shall submit the following for approval.</p> <ul style="list-style-type: none"> • Shop drawing on each piece of equipment provided in accordance with the specification. • Technical Data sheet, GA diagram, wiring diagram, foundation detailed drawings etc. • Computer selections print out for the chilling unit offered and AHRI certified performance chart. • Brief description of the system/equipment offered. • Installation, Operation and Maintenance data sheet/manuals. • Compliance statement with Tender requirements. <p>Query: Few of the OEMs are using single stage compressor for centrifugal chillers and few offer are using multiple stage compressor centrifugal chiller, hence we request you to accept single stage as unit.</p>	Please refer Corrigendum - 2 issued with this document.

SI.No	Reference as per RFP	Contents of RFP/Queries received from the prospective bidders through email	TIDCO's Clarifications/Replies
428	SECTION VII- TECHNICAL SPECIFICATIONS, SECTION III – CHILLER, HVAC SYSTEM WORKS CLAUSE 3.2.2, SITE ACCEPTANCE TEST (SAT) & ACCEPTANCE CRITERIA PAGE NO: 32 OF 198	<p>Tender Clause: The vendor shall test and rate the chillers at site prevailing Site conditions. The testing shall be carried out in the presence of the Client / PMC / Consultant's representative. The following test shall be performed and the vendor shall rectify the defects/deficiencies to meet the specified capacity conditions for client's acceptance. The vendor shall provide necessary calibrated measuring</p> <p>Query: We request you to accept MOC of evaporator and condenser shell as MS. We request you to confirm marine water box is required for condenser and evaporator or is it required only for the condenser. In the specification it has been indicated only for the condenser.</p>	Tender conditions shall prevail.

**Managing Director
TIDCO**