Addendum No: (1)

Bid No:	40006-032
Bid Name:	Building Automation System Service
Bid Opening Date:	April 9, 2025 at 2:00PM CST

Addendum No:	2
Date Issued:	April 1, 2025

This addendum is hereby officially made a part of the referenced solicitation. The questions submitted have been answered and specifications clarified as follows.

1.	Building 14 – Ochsner Center for Nursing and Allied Health, was not included in the list of Buildings on the City Park Campus in Section 1 of the Specifications. It was communicated that this building is to be included as part of the bid.	Building 14, the Ochsner Center for Nursing & Allied health is to be included in the cost for monthly service for the City Park Campus.
2.	Clarification: BUILDING NUMBER CLARIFICATION	The LaRocca Hall on the Westbank which is listed as Building 4 is actually known as Building 3
3.	The existing Compass-1 Front End Software has reached it's "end of life" period and is no longer supported with upgrades and licensing by the manufacturer. In the event of a computer hardware crash or Operating System Upgrade, the existing license may no longer be transferable to a new machine or operating system license. Do you want to include the necessary upgrade to Compass-2 as part of this contract.	Yes, this work is to be included. The specifications are attached to the back end of this addendum.
4.	Clarification: REVISED BID FORM	A revised Bid Form is attached to this Addendum. Bidders are to throw away the Bid Form that was included in the Bid Documents and replace with the attached.

Acknowledgement: Acknowledgement of this addendum is required. **Bidder must acknowledge this Addenda on the Bid Form where indicated.**

If your bid has already been submitted, please sign below where indicted and fax this form in its entirety to (504) 762-3089 or mail to the address stated in the General Conditions section of the bid documents. Whether by fax or mail, this form must be received prior to the opening date and time indicated in the bid documents. ***Failure to acknowledge and submit addenda by the bid due date and time will cause your bid to be rejected.***

The below signed acknowledges receipt of this addendum

Company: _____   Signature: _____

Printed
Name   _____

Attachments (2) Revised Bid Form & Specifications

II. <u>REVISED BID FORM</u>

Term Contract No: 40006-032

<u>Campus</u>	<u>Monthly Rate</u>	<u>Annual Rate</u>
1. City Park Campus		
2. West Bank Campus		
3. Sidney Collier Site		
4. River City Site		

<u>Provide hourly rates for repairs to existing equipment for repairs to items not covered under the contract.</u>

Employee Title	Hourly Rate Straight Time	Hourly Rate Over Time	Hourly Rate Urgent
Systems Specialist			
System/Controls Engineer			
Project Manager			
Discount off of MSRP			

For evaluation purposes, the hourly rates will be calculated and tabulated as follows:

- 20 hours each for straight time
- 10 hours each for overtime
- 10 hours each for urgent time.

Hourly rate work will be on an as needed basis and not guaranteed as part of this contract.

Provide % discount off of MSRP for incidental materials: _____

Compass 1 Software Upgrade:

Provide a fixed price to upgrade the Compass 1
Software. Price must include all licensing, $_____
installation and setup and maintenance
charges with licensing equal to the number of
licenses on the existing software

NOTES:

Work is to be conducted during normal business hours of 7:30am – 4:30pm Monday through Friday.

Use of hourly labor rates & materials: The hourly rates established are to be used for any work the Colleges deems necessary which are not part of the monthly/annul contract.

Overtime rate will be used for work done where the College requires the contractor to work onsite outside the above stated hours and includes weekends.

Urgent Rate will be used for work done where the College requires the Contractor to be on-site within two (2) hours from the time the College Representative makes initial contact with the Contractor 24/7.

Travel time must be included in labor rates. Delgado does not pay any additional and/or separate travel time. Labor rates start when contractor is on site.

For any repair job where materials are needed, which are not part of the existing contract, the College retains the right to competitively procure the materials which are in excess of $10,000 per job and provide them to the vendor to install at the established hourly rates.

Vendor must provide a written estimate of the repairs based off of the established hourly rates. All charges must be broken out based upon the rates established and the materials discount. Materials pricing must show MSRP (list) price and final discounted price.

Materials used for all projects shall meet all code requirements necessary to complete the project ad be of good quality. The College expects the contractor to use sensible purchasing practices to procure good quality materials at the most competitive price.

All deliveries shall be made FOB (Free on Board) Destination to the College unless otherwise specified by the College. All freight charges are to be clearly state on the bid form. The College will not be responsible for freight charges not clearly stated as part of the bid".

Contractor is responsible to supply all necessary tools and for the transportation of personnel and equipment required to complete the monthly maintenance and repairs, if required.

| Addendum No: _____ | Dated: _____ | Addendum _____ | Dated:_____ |
| Addendum No: _____ | Dated: _____ | | |

Addenda acknowledgement is mandatory

Bidder declares and represents that he; a) has carefully examined the Bidding Documents, b) has a clear understanding of the Bidding Documents, c) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents, d) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services under this contract, all in accordance with the Bidding Documents as prepared by the College Purchasing Office and Facility Services.

By signing below, the Bidder agrees that he/she complies with all bid requirements, instructions, specifications, terms and conditions and special conditions as stated in the bid.

Signature _____

Title_____

Company_____

* Bid must be submitted on this revised form

Compass Software Upgrade Specifications

ADVANCED OPERATOR WORKSTATION – AOWS

A. The existing Supervisory Software installed has reached its end-of life. As part of the scope of this project, the BMS contractor shall upgrade the existing, Compass-1 software to the most recent version of the Compass-2 software. The scope should include providing the license, installation, necessary hardware upgrades and IT coordination to accommodate the existing Operator Workstation, and commissioning of the system to ensure all graphical objects, links, schedules, alarms and user databases are operating prior to acceptance of the job.

B. Structure of Workstation Interaction: Server/Client relationship. Embedded web server for client browser access. Server to archive and store system data. Virtualized server environment. Web clients may access archive server data.

1. Single server license shall provide the ability to read/write, log, alarm, schedule and graphically display all physical and virtual points in a device – be it a BACnet Building Controller (B-BC), Advanced Application Controller (B-AAC), Application Specific Controller (B-ASC), BACnet Gateway, or any other BACnet device.

2. Device licensing that limits the number of points accessible in a device, as described above in paragraph 2.3.A.1 shall not be accepted and will not be approved as an alternate.

3. Licensing based on number of users or seats shall not be accepted and will not be approved as an alternate.

4. Single server license shall be provided for the following maximum connected devices.

   a. Maximum Devices to be Connected: 3000+

   b. Not restrict system size based on point count (BACnet or Integration).

C. Operator Workstation: General purpose, commercially available, computer.

1. Operating System: 64-bit – Windows 10/11or Windows Server 2019/2022

2. Processor: 2.5 GHz (or better), multi-core as required based on system size

3. Memory: 32 GB RAM (or higher) as required based on system size

4. Hard Drive: Minimum of 1 TB

5. Network Interface Card: 10/100/1000 Mbs.

D. Sufficient storage to accommodate fully configured point databases, application databases, graphics files, user-defined reports, and historical data archived as specified.

E. Graphic Based Displays: For each system.

1. Operator Workstation: Point data for each system. Update every 30 seconds.

2. Dynamically update data from any action by user.

3. Graphic Displays: Iconic graphic representations of mechanical equipment. Display graphic files, text, trendlog, and dynamic object data displays including animation.

4. Graphic Displays: "Drill Down" capability from main display to more specific system displays or navigation tree for building equipment and system diagnostic centric display organization.

   a. Tree Navigation Contents: Customizable per-user and per-user-group basis.

5. Systems with Terminal Unit Controls: Building floor plan with dynamic temperatures, drillable for more specific terminal information.

6. Points on graphics allow user to change field-resident Operator Workstation functions associated with project, including setpoints, weekly and exception schedules, from any screen, whether screen shows text or graphic display. Do without reference to object addresses or other numeric/mnemonic indications.

7. Protect display views unless operator credentials have proper access level. Assign access levels to each display/system object. Menu labels not to appear on graphic if operator does not have appropriate security level.

8. Analog objects: Displayed with operator modifiable units. Input objects may be displayed as graphic items on display screen as an overlay to the system graphic.

9. Information: Labeled with descriptors and shown with appropriate engineering units.

10. DDCs system must provide graphic displays and files. Systems requiring graphics development or logic programming are prohibited. Graphic Files: JPG, GIF or PNG.

11. Submit graphic displays to Owner for review and approval. Approved graphics to be in place prior to commissioning.

12. Operator Workstation: Supply graphics library, to use unaltered or modified. Include library to assemble custom graphics. System to allow creation of new graphics.

13. Data Displays: Ability to link to content outside of BAS system. Content to include, but not limited to launching external files in their native applications.

F. OmniGraphics: Graphics with custom geometry offering color gradient shading and variable opacity in scale to system variables; analog and binary, and color range settings.

1. OmniGraphics Must Support:

   a. Displaying current values in the geometric shapes.

   b. Geometric shapes to be clickable allowing navigation to another graphic display.

   c. Color Scale: Support using AVs and BVs to define the color scale ranges.

G. The Operator Interface: Support the following functions.

1. Mouse-over tooltip information of graphic items or data points; can be turned off.

2. Right mouse click access to context menu selection to create, view, or edit system functionality such as Schedule, Trendlogs, Alarms, Object Properties, and User Activity associated with display object selected.

3. Automatic zooming to screen size to maximize display to display area. Can be enabled or disabled. Background color, flood fills remaining screen background.

4. Support user configurable embedded Data Viewer for a persistent trend log data view to accompany system data and graphic information on a single display.

H. Password Protection: Preventing unauthorized use unless operator is logged on.

1. Limits operator to assigned functions when logged on. Includes displays as outlined.

2. Users: Individual User IDs, Usernames, and Passwords. Case sensitive alphanumeric character entry except for User ID. User ID, Username, and Password will enforce minimum of 8 characters and stored in encrypted format.

3. Each user to be allowed individual assignment of control functions, menu items, navigation tree, and user-specific system start display, and restricted access to discrete BACnet devices to which user requires access.

4. Passwords, usernames, and access assignments: Adjustable via Server. Password adjustable via web client.

5. Users to have set access levels, which define access to displays and individual objects user may control. System to have 10 distinct access levels for assignment.

6. Operator Workstation and Web Client: Auto logout feature when no keyboard or mouse activity is detected for time period, adjustable by system administrator. Enabled and disabled by system administrator. Screen message notifying log out.

7. Permit effective date range, and effective time of day, User are permitted access.

8. Active Directory Integration using LDAP for remote User Access control shall support to enforce minimum password length and enforce combination of the following requirements -
   a. Upper Case letters
   b. Lower Case letters
   c. Base 10 digits (0-9)
   d. Non-alphanumeric characters

       e.   Password expiration

       f.   User lockout after "x" failed attempts, where "x" is adjustable by the administrator

I.   Operator Activity Log: Tracks operator changes and activities.

    1.   Included in Operator Workstation. A log of what changed, who made the change, date and time of system activity, and value of change before and after. Operator may display activity, sort changes by user or operation and print Operator Activity Log.

    2.   Activity log to be gathered and archived to MSDB as needed. Log to be able to exportable for spreadsheet display and sorting.

    3.   User option to record commenting in Operator Activity Log upon system point change.

    4.   Accessible via Web Client for viewing, sorting, filtering, and printing. Including via right mouse click and selection from context menu.

J.   Standard Scheduling:

    1.   Information to be in easy-to-read daily format including calendar of this month and next. Schedules to show actual ON/OFF times for day based on scheduling priority. Priority for Scheduling: Events, holidays and daily, with events being the highest.

    2.   Holiday and Special Event Schedules: Display data in calendar format. Be able to schedule holidays and special events directly from these calendars.

    3.   Operator to be able to change information for a given weekly or exception schedule if logged on with appropriate access privileges.

    4.   Schedule Wizard for schedules set up. Walks user through schedule generation. Have its own pull-down selection for startup or may be started by right-clicking on value displayed on graphic and then selecting Schedule.

    5.   Scheduling: Include optimum start based on outside air temperature, current heating/cooling setpoints, indoor temperature and previous starts history. Individual zones to have optimum start time calculated based on parameters listed. Operators to input schedules to set time that occupied setpoint is to be attained. Optimum start feature must calculate the startup time needed to match zone temperature to setpoint. Operators to be able to set a limit for maximum startup time allowed.

    6.   List show currently defined schedules. Includes standard, holiday, and event schedules. User to be able to select a list showing scheduled points and zones.

    7.   Display of schedules must show ON times for standard, holiday, and event schedules in different colors on a given day. OFF times must also be shown in additional colors. Operators may select from a calendar what days are to be scheduled and show points and zones affected. Operators may set time for one day and then match it to days of the week to be affected as a recurrence of same schedule.

    8.   Any displayed data that is changeable by operator may be selected using the right mouse button and schedule selectable on screen. Selection of schedule using this method allows viewing of assigned schedule and allows the point to be scheduled.

    9.   Schedule Support Functions: Drag-n-drop events and holidays on schedule calendar.

       a.   Drag-n-drop events default to two-hour period; can operator adjusted.

       b.   Drag-n-drop holidays default for OFF all day; edit for multiple-day holidays.

       c.   View affected zones when adding or editing timed events of a schedule.

    10.   Web Client: A search list of scheduled points and zones to access schedule calendar.

    11.   Schedule Time Blocks: Present schedule detail via mouse-over information.

K.   Advanced Scheduling:

    1.   Hierarchy of schedulable resources shall be customized to meet owner/operator specific scheduling needs and requirements.

    2.   Schedulable resources shall support analog and binary data points, e.g. AV, AO, BV, BO objects.

3. Each schedulable resource shall have its own unique schedule object.

4. Holiday schedules shall support definition of a specific date or a perpetual holiday with a duration, for example the USA Thanksgiving two-day holiday.

5. Calendar events set to be reoccurring events shall support the following recurrence patterns:
   a. Repeat daily every x days or every weekday
   b. Repeat weekly every x weeks on selected days of the week
   c. Repeat monthly every x months on a specific date of the month or a specific day such third Saturday or last Monday.
   d. Repeat yearly every x years on a specific month and date or a specified day of a specified month, e.g. last Wednesday of November

6. Calendar events set to be reoccurring events shall support the following recurrence ranges: no end date, end after x occurrences, and end by a specified date.

7. Calendar events set to be reoccurring events shall support a custom recurrence setting that is a collection of specified random dates that may have no logical pattern.

8. Calendar events shall be configurable as a template that allows quick reuse and application by drag-and-drop onto any resource calendar. Any event shall be capable of being made into an event template.

9. Calendar events shall require the following parameters: Event Name, Event Type (binary or setpoint), Start Date/Time, and End Date/Time.
   a. Analog Event Type shall support selecting setpoint type to ensure that only compatible analog points are scheduled with a specified value

10. Calendar Events shall support selection of schedulable resources by inheritance to all child resources or by selection of specific resources. Each selected resource shall support setting a start and end offset of +/- 6 hours from event start start/end times.

11. The following conflict resolution rules shall be provided to determine what to do when schedulable resources have two events scheduled for the same time: Local vs. Inherited event; On vs. Off event; Newest vs. oldest event.

L. Alarm Indication and Handling
   1. AOWS shall provide visual, printed, and email means of alarm indication. Printout of alarms shall be sent to the assigned network printer. Alarm notification can be filtered based on the User ID's authorization level.
   2. Alarm Manager shall provide log of alarm messages. History of alarm occurrences shall be archived to the data storage of the AOWS or a SQL data base. Each entry shall include a description of the event-initiating object generating the alarm. Description shall be an alarm message of at least 256 characters in length. Entry shall include time and date of alarm occurrence, time and date of object state return to normal, time and date of alarm acknowledgment, identification of operator acknowledging alarm, a comment form the operator who acknowledged the alarm, and the number of alarm occurrences.
   3. Alarm Manager shall provide a means to filter all alarms that have been configured in the system for alarm description, current alarm state, default and customer date range, disabled/enabled, and priority level.
   4. Alarm Manager shall provide a means to disable alarms for the purpose of performing maintenance without creating concern with unneeded alarm notifications.
   5. Alarm messages shall be in user-definable text (English or other specified language) and shall be delivered either to the AOWS user interface or through remote communication using email (Authenticated SMTP supported).
   6. Alarm Manager shall provide the permissioned ability to Clear alarm occurrences from the Alarm Manager table while retaining the alarm in the AOWS database for reporting purposes.
   7. Alarm Manager shall provide the permissioned ability to Purge alarm occurrences from the both the Alarm Manager table and the AOWS database.

8. Alarm Manager shall provide a user customizable navigation link from the Alarm message to the data display or template to the equipment associated with the alarm.
9. Alarm Manager shall provide a context menu that will allow for navigation to Schedule, Trendlog, Object Property display, or System (user) Activity from the Alarm points live data value.
10. AOWS shall include an Alarm Wizard for set up of alarms. Wizard shall walk user through all steps necessary for alarm generation. Wizard shall have its own pull-down selection for startup or may be started by right-clicking on value displayed on graphic and then selecting alarm setup.
11. User can silence audible annunciation for the current session.
12. User can disable auto-refresh of alarm annunciation for current session.
13. Any displayed data that is changeable by the operator may be selected using the right mouse button and the alarm shall then be selectable on the screen. Selection of the alarm using this method shall allow the viewing of the alarm history or allow the creation of a new alarm.
14. Alarm Priority Levels (0-127) shall be definable in number and name. Alarms can be assigned to any of the priority levels defined.
15. The following Alarm data shall be displayed in the Alarm Management User Interface for each alarm:
    a. Number of times the alarm has occurred
    b. Average alarm duration (hours, minutes, and seconds) for the following transitions:
        1) Active to Normal
        2) Active to Acknowledgement
        3) Acknowledgement to Normal
    c. Actual alarm duration (hours, minutes, and seconds) for the following transitions for each alarm occurrence:
        1) Active to Normal
        2) Active to Acknowledgement
        3) Acknowledgement to Normal
    d. Live data point of point alarmed
    e. Navigation link to a user-selected display or URL
16. User Comment text shall be entered upon acknowledgement of an Alarm. The comment history is stored in the system data base and a user cannot edit or delete a comment after it has been submitted in the system.
17. Alarm Performance: An alarm annunciation shall appear on the AOWS user interface within 8 seconds and appear in the Alarm manager and data base within 10 seconds of a triggered alarm.

M. Trendlog Information: Display trendlog records in standard engineering units.
1. Periodically gather data stored in building controllers and store information in system database. Append stored records with new data. Overwriting records is not allowed unless file size is limited. System database capable of storing 50 million records before archiving data. Samples viewable at Web Client.
    a. Capable of trending on interval determined by polling rate, or change-of-value.
2. Add and edit trendlogs and setup information including the following:
    a. The interval at which it is to be logged.
    b. Operations shall be password protected.
    c. Accessed directly from graphics on which a trended object is displayed.
3. Trendlog Wizard: Setup of multiple trend logs simultaneously. Walk users through necessary steps. Have a pull-down selection for startup, or by right-clicking on value displayed on graphic, and then selecting Trendlogs from displayed menu.
4. Trendlog Data: Viewable on Datalogger accessible via Web Browser. Trend logs of any point on a graphic must be initiated by performing a right mouse click on the point.

N.   DataViewer access via Web Browser: Capable of graphing trend-logged object data.

1.   Access and ability to create, edit and view are restricted by user account credentials

2.   Specific and repeatable URL defines trendlog views for browser bookmarking and email compatibility.

3.   Call out of trendlog value at intersection of trend line and mouse-over vertical axis.

4.   Trendlog or Energy log and companion logs configurable to display on one of two independent vertical scales embedded in display.

5.   Click zoom for control of data set viewed along either graph axis.

6.   User-specifiable start and end dates and fast scroll features supporting click zoom of macro scale view of data for quickly finding data set based on visual signature.

7.   User export of the viewed data set to MS Excel.

8.   Optional min/max ranges (Upper Control Limits, Lower Control Limits) for each value.

O.   Energy Log Information: Display information in standard engineering units.

1.   Periodically gather energy log data in field controller and archive information. Append files with new data. Overwriting archived data is not allowed unless file size is limited.

2.   Store data in database format for use by third-party programs. System operation to stay online during graphing operations.

3.   Operators to be able to change energy log setup information. Includes meters, meter pulse value, and type of energy units. Meters monitored by system may be logged. Support using flow and temperature sensors for BTU monitoring.

4.   Web Client: Display data in tabular and graphical formats. Display in hourly, daily, weekly, monthly and yearly formats. Be able to select specific data periods to view.

P.   Demand Limiting: Sheds and restores equipment based on energy usage when compared to shed and restore settings.

1.   Shedding: Implemented independently on each zone or piece of system equipment.

2.   Binary Shedding: 5 priority levels. Loads in a given priority level to be shed before any loads in a higher priority level are shed. Load shedding within a given priority level includes two methods: a "first off-first on" mode, and a "first off-last on" linear mode.

3.   Analog Shedding: Program generated ramp used by individual zones or control algorithm to raise and lower cooling and heating settings reducing energy usage.

4.   Status of each program to be displayed with description of each load on Web Client.

Q.   Tenant Activity: A program monitoring after-hours overrides by tenants, logs data, and generates bill based on usage and rate charged for each tenant space.

1.   Tenant after-hours override usage is logged in Operator Workstation database.

2.   Include entry of following information for use in logging and billing.

a.   Tenant's contact name and address.

b.   One or multiple tenant zones making up a total tenant space, including separate billing rate for each separate zone.

c.   Minimum and maximum values an event duration and event limit.

d.   Property management information.

e.   Overall billing rate.

f.   Seasonal adjustments or surcharge to billing rate.

g.   Billing notification type including, but not limited to printer, file and email.

h.   Billing form template.

3.   Logging: Include recording the following information for each and every tenant event.

a.   Zone description.

b.   Time the event begins.

       c.   Total override time.

       d.   Limits shall be applied to override time.

    4.   A Tenant Bill: Generated for a specific period using entered configuration data and logged data. User with appropriate security level will be able to view and override billing information. User to be able to select a billing period to view and be able to delete events from billing and edit a selected tenant activity event's override time.

R.   Reports: Capable of producing the following reports. Deliverable Format: CSV.

    1.   Trendlog configurations.

    2.   Alarm configurations.

    3.   Tenant activity configurations.

    4.   Device summary.

    5.   Energy log configurations.

    6.   Schedule configurations.

    7.   Deliverable Format: CSV files.

S.   Field Engineering Tools: For programming controllers supplied.

    1.   Database Application Manager: Include controller logic files and associated graphics.

    2.   Device Manager: Detect devices connected on BACnet network by scanning. Display device instance, network ID, model, and description. Record and display software file loaded in each controller. Store file copies in project folder on computer's hard drive.

    3.   Audit when device not in database is added to network.

    4.   Backup/restore function for system to selected medium. System to be capable of restoring systems and creating a backup for instantiating a new client PC.

    5.   A means to scan, detect, interrogate, and edit third-party BACnet devices and BACnet objects within those devices.

T.   Web Interface: System software based upon server/thin client architecture, designed around open standards of web technology.

    1.   Communicate using Ethernet and TCP. Access server using a web browser across Owner's intranet and remotely via the Internet. Support 200 users with single license.

    2.   Web Browser: Microsoft Edge v95 or later, Firefox v70 or later, Chrome v95 or later, and Safari 13 or later. No special vendor-supplied software to be required. Display data in real-time. Update automatically without user interaction.

    3.   Web Pages: Automatically generated with HTML5 from data display files on Operator Workstation. Do not use systems requiring an HTML editor for web page generation.

    4.   Launching Web Browser on Operator Workstation presents a login page requiring a login name and password. Navigation and system adjustments dependent upon operators assigned privileges. User activity reports will show activity of operators, whether changes were made using a web client or Operator Workstation.

    5.   User Session Management including ability to view connected user sessions to the web client, see how long they have been active/inactive for each unique session, and force log-out for any or all sessions.

U.   Context Menu Navigation: Web Browser: Support Context Menu Navigation via a right mouse click on a data point.

    1.   Operations to be dependent upon logged in user privileges and include:

       a.   View and setup Alarms.

       b.   View and setup Trend Logs.

       c.   Display the BACnet properties for the selected Object.

       d.   View and setup Schedules.

       e.   View System activity for the selected Object.

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V.   Summary Pages:

1.   Present system data in tabular form. Data to be from multiple devices. Points presented horizontally and devices listed on left side of table.

2.   Built using spreadsheet that can be imported into Operator Workstation.

3.   Data in summary pages to be live. Configure each object to be read only or writeable.

4.   Both analog and binary data shall be supported.

5.   Summary page, when populated, captured for archiving and review for analysis.

6.   The data shall be sortable by clicking on the column headings.

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End of Specifications – End of Addendum (1)