JKMSCL

JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.

(Public Sector Undertaking of the Government of Jammu and Kashmir)
Corporate Head Office: **Corporate Head Office**: Plot No. 58, Friends Colony Satyam Road Trikuta Nagar Jammu
Corporate Office: Kashmir, Near Haj House, Bemina 190018, Srinagar
email: mdjkmscl2@gmail.com; **website**: www.jkmsclbuisness.com

CORRIGENDUM

In light of the representation(s) submitted by the prospective bidder(s) thereof, the critical dates for the finalization of Rate Contract for the procurement of "Machinery & Equipments" uploaded vide No. Mach/2025/646 dated 09.12.2024 are extended with the approval of tender inviting authority. **The amendments in the technical specifications of "Sample Delivery Module" as recommended by the technical experts are annexed as Annexure I (07 Pages).** The critical dates shall remains the same.

Please Note:

1. *Those firms/bidders who have already uploaded their bids are required to re-upload their bids as per amendments and corrigendum issued thereof.*
2. All the bidders are requested to keep themselves updated & submit their e-bids through e-portal as per specifications & BOQs. The amendments/modifications shall be available on e-Portal and www.jkmsclbusiness.com.

21.7.25

(Mohd. Ashraf Choudhary) JKAS
General Manager (Adm), JKMSCL.

No.: JKMSCL/Corg/2025/3604-07 Dated: 21 .07.2025.

Copy for information to the:-

1. General Manager-(K), JKMSCL.
2. Dy. General Manager (T & Legal), JKMSCL.
3. P.A to Managing Director, JKMSCL for the information of Managing Director.
4. Assistant Progammer, JKMSCL for uploading on web portal.
5. File

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General Technical Specification

1.1 System has capability for transports over long distances transport frequently and efficiently. It will optimize the path inside the conduit network.

1.2 While shipment is running, system has feature to keep other shipments in queue. User or system must be able to cancel the queued transport, if dispatcher changes his/her mind before it leave the dispatching terminal and takes back the shipper from terminal.

1.3 The system controlled by Computer of Operating System driven should also be working with Linux LTS 64-bit version. It should have remote accessibility using remote desktop control software.

1.4 The system has live and real time supervision with the entire network view with remote accessibility.

1.5 The system has live and real time communications channels between all the modules and is visible on PC monitor in topology view.

1.6 The System is flexible with modular technology for spontaneous transport with speeds up four-six meter per second with conduit outer diameter of one hundred sixty millimeters and must be able to carry up to two kilograms of weight.

1.7 All modules are connected with TCP/IP protocol. It provides the communication to all terminals and devices in the network and hence are digital in nature and maintaining a real time with speed. However, TCP/IP protocol is faster, secure than serial communication.

1.8 Minimum communication speed of main server to each component is 10 Mbps irrespective of the location or distance of component. Hence reduction in cost of long cable installation and nullify the chance of error in communication.

1.9 Every component gets power from nearby plug of single phase, 230V, 5 A.

1.10 Cables used must be following IS and CE standards.

1.11 Movement inside component units works on timing belt/pulley or teeth-gear/pulley mechanism.

1.12 Logging of each and every state change of all the devices used in components.

1.13 Replacement or damage of device or mechanical part has to be also logged with proper reason and timestamp.

1.14 System can update component software over the time if required and requested by authorities.

1.15 Parallel movement of component has to take place.

1.16 All shipment and logging related data has to be considered as medical record and related data. Confidentiality of system usage and system must not be stored in any form outside country.

1.17 A user can be assigned to multiple terminals; in that case shipment has to be delivered to closest terminal.

1.18 Mail notification has to be possible on receiving of shipment to user.

1.19 Login into the visualization software can be performed from other computer as well located in same LAN network.

1.20 There must be web interface to download the system backup from remote computer in the network.

of Operating system license, any other third party tools license provided during warranty, AMC/CMC period.

1.22 Parts of the system must be available at least 10 years from the date of commissioning.

1.23 Data of entire system usage or remote desktop tools or backup must not be routed or stored outside India.

2 Control Computer With Peripherals

2.1 Latest processor Intel or AMD CPU with SMPS Cabinet.

2.2 Min 8GB RAM.

2.3 Min 480GB NVMe.

2.4 Min 2 USB 3.0 Ports.

2.5 PCI Slot for ISDN/Modem Card.

2.6 Ethernet 100/1000 Lan Card.

2.7 Wireless Keyboard and Wireless Mouse.

2.8 22" Monitor.

3 Control & Visualization Software (Pre-loaded on Control Computer Mentioned in Item No 2)

3.1 Supervision with real time monitoring for viewing and maintenance of system.

3.2 Network viewing.

3.3 Software in local Indian language.

3.4 System access and controls for each component on the network.

3.5 Shipment history.

3.6 Statistics with bar or pie chart with shipment records of daily, weekly, monthly analysis.

3.7 Logging of each transaction and error; with transaction ID, send terminal ID, receive terminal ID, start time and send/receive time with dates.

3.8 Remote service accessibility.

3.9 Component connection status visualization.

3.10 Dynamic clearing terminal configuration for flush of stuck/delayed shipper.

3.11 Various priority settings for urgent and emergency transports.

3.12 Optimization of pathways with intelligent alternate routing of shippers.

3.13 Print pdf for reports and statistics, analysis reports.

3.14 User profiles and rights.

3.15 System graphic visualizations.

3.16 System and device parameter settings for management and maintenance.

3.17 Terminal pin setting for access control.

3.18 Priority settings configure the priority of the shipment of goods from and/or to designated terminals.

3.19 User profiles and rights: user profiles determine the access level to data and devices in the system. User rights are permissions granted to users according to their user profile. They define what data and devices a user profile can read or modify.

3.20 System visualization for remote monitoring, controlling and maintenance remote assistance from anywhere on-site and/or off-site.

3.21 Topographic view of the system offers a detailed, accurate diagram in real time. Track and trace tools for information and analysis: generates a basic view of every realized transport whereas log generates a detailed view. Log book records chronologically many kinds of information that user might want to record manually.

3.22 System should have possibility to update the software version.

3.23 Backup and restore of system data.

3.24 Beeper/signal notification features (optional).

3.25 Radio frequency identification configuration features (optional).

3.26 Star topology connection of server with all components.

3.27 Event driven approach allows to take action simultaneously.

3.28 Control system is subscription based.

3.29 Software for remote access must be installed to take remote control of system and diagnose the system. Any data storage outside India prior to written approval will lead to punishable offense.

4 Verge Passage Blusterers With Aerate Circulate Transpose Element/Side Channel Blower Unit

4.1 The low maintenance unidirectional verge passage blusterer with automatic device to swap aerate circulate transpose element mode with silencer, shipper damper and accessories.

4.2 Insulation coordination for equipment within low voltage systems.

4.3 Three phase power supply.

4.4 Frequency (Hz): 50-75, the blusterer must be unidirectional rotation.

4.5 The verge passage bluster has high degree of safety and produce powerful absorption effect. The blusterer should be automatically activated through centralized control system.

4.6 It must be CE/ISI certified as applicable.

4.7 Capacity of blusterer must be based on site requirement.

4.8 It has variable frequency drive to adjust blusterer speed.

4.9 Speed of blusterer must be adjusted based on configured speed of receiving terminal.

4.10 The blusterer is safe guarded with motor circuit-breaker.

4.11 Solid particles or contaminants withheld using the filters before entering the verge passage blusterer.

4.12 Blusterer should be supplied with silencer, filters, dampers & installation accessories and aerate circulate transpose element as applicable.

5 Applicable For Crown/Plummet/Varied Charge Kind Terminal/Top Loading /Bottom/Multi Send Station

5.1 User interface has to be designed in a way that if larger screen is attached, it should be able to adjust the graphics and resolutions.

5.2 7" capacitive touch screen.

5.3 Keypad to dial number and directory/address book to search name.

5.4 The address book name should be shown during input of address key using number keys.

5.5 Quick dial destination list as easy access.

5.6 Local service and visualization of all devices.

5.7 Software in local language like Hindi, Gujarati, Marathi, Telugu, Tamil, Bengali etc.

5.8 Screen saver on screen when not in use for few seconds.

5.9 Possibility to customize screensaver text.

5.10 Last minimum 20 shipment history.

5.11 Screen lock code to restrict the access in common area and customization on each terminal.

5.12 It is equipped with shipper case.

5.13 Speed-dial button for direct dialing of the receiver.

5.14 Keep the last dialed destination in display to keep sending the same destination.

5.15 Beeper and LEDs based signal notification (Optional).

5.16 Feature in graphics to cancel the queued or last created shipment until shipper leaves the terminal.

5.17 Connection with server has to be based on event driven and terminals must initiate connection.

5.18 Server has to serve the request of client. This communication must not be polling driven. It has to be event driven. Change in any device state will directly be transmitted to server and it will take necessary action.

5.19 Current date and time visualization using standard date time clock sync protocols.

5.20 It should be powered from nearby plug of 230V, 5A pin with 3 pin and LAN for power and communication.

5.21 Operating system of processor has to be optimized with minimum sized with latest libraries and kernel version > 4.4.

5.22 Communication with server has to be encrypted.

5.23 Each terminal must be equipped with shipper case and cushion for softly ejection of shipper from terminal except varied dispatch kind as varied dispatch will not obtain shipper.

6 Plummet Charge Terminal/Standard Top Loading Station

6.1 Mounting height of the plummet plate of terminal has to be at height 1.0 - 1.1 m from fully finished floor.

6.2 It has to be plummet charge kind terminal. This means shipper must be inserted at the downside of terminal while dispatching.

6.3 Terminals are equipped with radio frequency identification readers for various functions such as shipper ID and inventory, shipper ID with properties, permitted addresses or groups, prohibited addresses or groups, automatic destination, reject items not identifiable etc (Optional).

6.4 Modular replaceable circuits in case of damage.

6.5 This must keep shipper in queue, while obtaining the shipper hence behaves like a full duplex operation mode.

Crown Charge Terminal/Compact Bottom Loading Station

7.1 Mounting height of the crown plate of terminal has to be at height 1.5m - 1.6m from fully finished floor.

7.2 It has to be crown charge terminal. This means shipper must be inserted at the upside of terminal while dispatching.

7.3 Terminals are equipped with radio frequency identification readers for various functions such as shipper ID and inventory, shipper ID with properties, permitted addresses or groups, prohibited addresses or groups, automatic destination, reject items not identifiable etc (Optional).

7.4 Modular replaceable circuits in case of damage.

7.5 This must keep shipper in queue, while obtaining the shipper hence behaves like a full duplex operation mode.

8 Varied Charge Terminal/Multi Send Station

8.1 This has to be plummet charge kind terminal. This means shipper must be inserted at the downside of terminal while dispatching. It must have minimum three shipper insert possibility.

8.2 Mounting height of the plummet plate of terminal has to be at height 1.0 - 1.1 m from fully finished floor.

8.3 This type will only be used to dispatch shipper and it will not obtain any shipper.

9 Obtaining terminal/Horizontal Lab Receiving station

9.1 This sort terminal will be only used for obtaining shipper. It can obtain queue of shipper.

9.2 Mounting height of the plummet plate of terminal has to be suitable to obtain the shipper at table height. It can be provided with suitable material to gain shipper smoothly.

9.3 This type will only be used to gain shipper and it will not dispatch shipper to any destination.

10 Disport unit/Diverter Unit

10.1 The disport units are switching device used at branching points in the system to direct the path of the shipper from a single conduit at one end to three or four selectable conduits at the other end.

10.2 The ends of the disport unit should be attached with progressing conduits or arch channel using steel capo that is easily removable during servicing.

10.3 It must have optical sensor to detect passage of the shipper.

10.4 It must have movable conduit that gently guides the shipper through the disport unit in pre and auto selected direction. The conduit is positioned precisely at the selected port using servo motor.

10.5 The disport unit should have enclosed rigid frame with removable verge covers for services with minimized electrostatic interference and alignment to necessary port based on servo motor.

10.6 The component should be wall/ceiling mountable; each device should be equipped with state of art maintenance free gear drive and timing belt-pulley mechanism & servo motor.

10.7 It must be connected to the network via TCP/IP protocol or Serial RS232/RS485 protocols.

11 Shipper/Carrier

11.1 These special shippers are enclosed for secure use.

11.2 Impact resistant and crystal clear polycarbonate/acrylic middle body.

11.3 Strap must be easily replaceable and must have certain level of elasticity to remove.

12 Conduits,wrapping and archs/uPVC Tubes & Bend Grey

12.1 Archs must be smoothly crafted with minimum radius eight hundred millimeters.

12.2 Linear and arch conduits must be made from lead-free U-PVC material with IS4985.

12.3 Conduits must be able to sustain minimum of one bar of pressure. System blusterer generates two hundred fifty mbar to four hundred mbar of positive or negative pressure. Thus it ensures that conduit will not be damaged during operation.

12.4 To above three points grey color applies.

12.5 Wrapping length must be minimum one hundred fifty millimeters.

13 Pellucid Conduits, Wrapping And Archs/uPVC Tubes & Bend Transparent

13.1 Archs must be smoothly crafted with minimum radius eight hundred millimeters from lead-free pellucid PVC material.

13.2 It must have matching conduit thickness with grey conduit so that entire system will have same internal diameter of conduits and archs.

13.3 Conduits must be able to sustain maximum of one bar of positive and negative pressure.

13.4 Wrapping length must be minimum one hundred fifty millimeters.

14 Section Swapper Modules

14.1 Section transfer is basically a handover and takes over device from dispatcher section to obtainer section.

14.2 Every section will have one or two conduits for hand over or/and take over operations. Normal section will have two conduits coming to section swapper and dedicated section will have one line coming to section swapper.

14.3 It handles one shipper at a time and takes it from dispatching section and gives it to the obtaining section. Obtaining section blusterer will take it to destination.

14.4 Whenever dispatching terminal and obtaining terminals are not in same section this component will be used.

14.5 It can be made from set of disport units and blusterer or a specially designed linear movement or rotational movement based section swapper module. Yet it must be serving the purpose.

15 Devices Specification

15.1 Photo electrical sensor switch should be modular, provided built-in various devices and should be portable in nature, easily replaceable.

15.2 Photo electrical sensor must work on low voltage supply of 10-30V.

15.3 All other sensors must be operable in 10-30V.

15.4 Displays used in terminal must be seven inch size corner to corner in size and capacitive touch screen.

15.5 Display and sensors used must be CE and ROHS compliant.

15.6 DC motors of 10-30V has to be used for movement inside terminal/disport unit.

15.7 It is recommend using servo DC motor and PID controller to achieve terminal/disport unit position. DC servos are accurate, fast and reliable.

15.8 Motor must be operable with DC 12-48V.