

## Corrigendum - 02

### Minutes of Pre Bid Meeting


Tender No: 03/EE/AC&R/2024-25

Name of the work: SITC for additional Medical Gas Pipe Line System (MGPS) work at AIIMS Rishikesh.

Pre Bid Meeting Venue: EE Office, AIIMS Rishikesh

Pre Bid Meeting Date & Time: 25.10.2024 & 3:00 P.M.

Sl. No.	Bidder Queries in pre-bid meeting	Condition in Tender Document	Amended Condition in Tender Document
1	Technical specification of Oxygen flow meter with humidifier bottle for ICU area & ward vacuum unit for ICU area are not generic.	<p>Tender document - technical specification of medical gas pipeline system mentioned in page no. 43 of 50 for,</p> <p><b>Oxygen Flow meter &amp; Humidifier Bottle for ICU</b></p> <p>The graduated scale should have an oval shape this allows a "lens effect" get the scale values easy reading in any condition of use. I/O switch button green and red allows the operator to quickly lock and reactivate the flowmeter gas supply, keeping unchanged the previous flow preset value. When the flowmeter is not working, the green button is visible and pushing it, the flow is activated. On the contrary, to stop the flow, the red button must be pushed. It should have ADJUSTING KNOB WITH PUSH &amp; LOCK SYSTEM: it keep locked the pre-set flow value. To adjust the flow pull the knob, set the flow value you need to deliver to the patient and push the knob to lock the selected value. The flowmeter should have an integrated pressure reducer for the stabilization of supplied pressure at 2.8 bar, to guarantee always and in any condition the flow accuracy of the device. The flowmeter can be used in any hospital with different pressure from the plants and it is not necessary to calibrate it. The outlet nipple should have a double thread interchangeable by the end user. The flowmeter should have 50 mm adjusting knob with soft grip inserts for easy handling The humidifier should completely made of</p>	<p>It is amended that,</p> <p>Tender document - technical specification of medical gas pipeline system mentioned in page no. 43 of 50 for,</p> <p><b>"Oxygen Flow meter &amp; Humidifier Bottle for ICU" – stands deleted.</b></p>

  
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		<p>polycarbonate and it can be sterilized in autoclave at 121 °C for 15 min for the inlet connection it should have some snap inserts, identified with color-code, with different threads to be chosen by the end user an ergonomic and big size rotating nut allows to easily connect and disconnect the humidifier to the oxygen supply device, the 360° rolling positioning hose connector <math>\varnothing 6\pm 9</math> mm allows an easy use of the humidifier. The bottle should have hollow shape, besides being a design unique element, offers the operator an easy and safe handling. The humidifier should have an integrated relief valve.</p>	
2	<p>Technical specification of Oxygen flow meter with humidifier bottle for ICU area &amp; ward vacuum unit for ICU area are not generic.</p>	<p>Tender document - technical specification of medical gas pipeline system mentioned in page no. 47 of 50 for,</p> <p><b>b) Ward Vacuum Units (for ICU area)</b> It must consists of the following: - i. 1no of Suction Regulator and 1no of 1000 ml polysulfone /polycarbonate collection jar. ii. Suction regulator (Digital/Analogue): Suction regulator shall be supplied with a safety jar, including and antibacterial filter and an anti-overflow safety device. Shall have wide membrane continuous suction controller. iii. Shall have vacuum levels: 0-750 mm Hg or more iv. Shall have vacuum gauge fitted with a protective bumper device. v. The digital vacuum regulator should have a digital vacuum gauge with monochromatic LCD display, it is available with three possible end of scale: -250 mbar, -600 mbar and -1000 mbar. vi. The scale should be able to set in mbar/hpa or mmhg by the end user vii. The numerical display should show the vacuum value and a sector bar proportional to the adjusted de-pressure. The reading resolution is 1 mbar/hpa (1 mmhg). viii. The frontal part of the digital gauge should be equipped with 3 buttons: one to switch ON/OFF the vacuum regulator, the other 2 for various settings such as: set the timer</p>	<p>It is amended that,</p> <p>Tender document - technical specification of medical gas pipeline system mentioned in page no. 47 of 50 for,</p> <p><b>"Ward Vacuum Units (for ICU area)" – stands deleted.</b></p>

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		<p>for the automatic switch off of the regulator; select the unit scale (mbar/hPa or mmHg); set up a preferred vacuum value; zeroing the device at any time. ix. The device should have a quick I/O switch button that allows the operator to quickly lock and reactivate the vacuum, keeping unchanged the previous preset value. When the device is suctioning, the red button is outside and by pushing it, the operator can stop the vacuum at any time. While, to reactivate the vacuum, at the same pre-set value, the operator have to simply push the green button (visible when the device is not working). x. A vacuum adjustment knob with Soft Grip inserts for an easy handling with a "Push &amp; Lock" position system, the operator have to pull the knob, by rotating it regulate the level of vacuum needed and then push the knob to lock the selected value. xi. Suction jar should be made of Polysulfone/polycarbonate autoclave up to 121°C. The jar capacity is 1000 ml . The float &amp; cap assembly includes a patient port inlet that is horizontal to help prevent kinking of suction tubing . All collection bottle assemblies allow visual inspection of fluid level, color &amp; consistency &amp; can be steam autoclaved or gas sterilized. Polycarbonate bottles offer the additional advantage of eliminating breakage.</p>	
		<p>Tender document - technical specification of medical gas pipeline system mentioned in Page No. 44 to 45 of 50 of Tender Document for</p> <p><b>GAS OUTLETS</b> Terminal Units (Gas Outlets) with probes/Adaptors for O2, N2O, Compressed Air 4, Air 7, AGSS, Vacuum &amp; CO2 (CO2 can be optional depending on the requirement). Terminal units installed in walls, bedhead trunking, headwalls or fixed pendants shall be connected to the pipeline with a copper stub pipe. Pressure gases and shall incorporate a 12mm O/D copper stub pipe. Terminal units for vacuum and</p>	<p>It is amended that,</p> <p>Tender document - technical specification of medical gas pipeline system mentioned in page no. 44 to 45 of page 50 for,</p> <p><b>"GAS OUTLETS" – "Gas Outlets shall be fully Metallic body".</b></p>

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As per the technical specifications, the Bed Head Panels required should be "European CE Certified with 4 digit notified body number or American ETL/ American UL listed". However, nothing specifically is mentioned for the gas outlets. Gas outlets are an integral part of the BHPs and no manufacturer can provide CE 4 digit/ American UL listed certification without the gas outlets.

So please confirm whether the gas outlets should also be Imported or not. Further, please confirm whether the gas outlet is fully metallic body or not.

anaesthetic gas scavenging shall incorporate a 15mm O/D copper stub pipe. These terminal units must be in two fixes to have valve assembly. Each terminal unit shall consist of a primary valve (or assembly) and shall be permitted to include a secondary valve. The secondary valve shall close automatically to stop the flow of gas (or vacuum, if provided) when the primary valve is removed. Front Loading Type Terminal Outlets shall be designed to dispense medical gases (or an inlet for medical vacuum) to the secondary equipment (flow meters, Suction regulators, etc.) at the point of use and is gas specific so that secondary devices cannot be "attached" to the wrong gas. When not in use the gas in a non-flowing state within the Outlet (Terminal unit) sealed by "O" ring. The adapter when inserted pushes the poppet inside and the gas starts flowing and sealing is ensured by the "O" ring or a seat. The Outlets are Quick Connect Type and gas specificity is accomplished by "Pin indexing." The outlets shall have following features:

- Push to insert and press-to-release mechanism for probes.
- Allows plugging of probes from front.
- Self-sealing valve on disengaging the probe (Quick disconnect)
- Smooth quite action.
- Non return valve for on line servicing/ repairing
- Indexed to eliminate interchangeability of gas services
- Color-coded gas specific front plate
- Totally leak proof, safe & easy to operate
- Configurations possible: surface, flush & Bead-head.
- All outlets shall have respective labels (i. e. O<sub>2</sub>/ N<sub>2</sub> O / CO<sub>2</sub> / Air 4 / Air7/Vacuum/AGSS/etc.) displayed accordingly. The medical gas terminal units shall conform to BS EN ISO 9170-1 and accept probes to BS5682. Terminal units shall be capable of single-handed insertion and removal of the medical gas probe. The anaesthetic gas scavenging (AGS) terminal unit shall conform to BS6834. OR Terminal units conform to gas specific dimensions and connection requirements stated in DIN 13260-2.

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Components are designed and manufactured in accordance with BS EN ISO 9170 for medical gas distribution systems. Terminal units installed in walls, bedhead trunking, headwalls or fixed pendants shall be connected to the pipeline with a copper stub pipe. Pressure gases and vacuum shall incorporate minimum 12mm O/D or more copper stub pipe. Terminal units for anaesthetic gas scavenging shall incorporate minimum 15mm O/D copper stub pipe. Medical gas terminal units consist of two parts: First fix – the wall mounted assembly consists of brass pipeline termination block with copper stub pipe secured between a back plate and a gas specific plate to allow 130 degrees radial movement of the copper stub to align with the pipeline. The second fix components shall be manufactured with the pin index permanently moulded into the gas specific socket. The socket assembly shall retain a capsule assembly, containing the check valve and probe 'O' ring seals. Second fix terminal units shall be supplied with the anti-rotation pin loose and bagged to be fitted as required. The socket is fixed to the base block with a design that ensure profile is always in the correct position. Probes are gas specific connectors that couple to the medical gas terminal unit sockets to provide access to gas systems. The replaceable capsule assembly shall enable all working parts subject to wear through usage to be replaced as a factory tested assembly, thereby reducing maintenance time. Each termination block assembly shall be pressure tested by the pressure decay method.

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4	<p>As per the technical specifications, the Bed Head Panels required should be "European CE Certified with 4 digit notified body number or American ETL/ American UL listed". However, nothing specifically is mentioned for the gas outlets. Gas outlets are an integral part of the BHPs and no manufacturer can provide CE 4 digit/ American UL listed certification without the gas outlets. So please confirm whether the gas outlets should also be Imported or not.</p>	<p>Tender document - technical specification of medical gas pipeline system mentioned in Page No. 44 to 45 of 50 of Tender Document for</p> <p><b>Horizontal/ Vertical Bed Head Panel</b> The design shall be approved by the respective hospital authority/ department before installation and it is responsibility of the bidder after getting order they have to interact with respective hospital authority/ department and finalize the Bed Head Panel (Vertical/Horizontal) as per site condition. Vertical BHP shall be upto False Ceiling Level and all outlets and sockets shall be located at a height of 1050-1250 mm from FFL, as per the site conditions. Horizontal BHP shall be of maximum 1000mm for 2 Gas outlet configuration, maximum 1200mm for upto 4 outlets configuration and maximum 1500mm for 6 Outlet configurations and maximum 1800mm for 8 Outlet configurations. a) It shall have following features: - Efficient, Safe &amp; Robust design in extruded aluminum section. Smooth curved surfaces, and choice of base colour and fascia plates. Unit shall have integrated rail system to mount accessories The headwall system shall be constructed of aluminum extrusions joined together to form a carcass to suit the particular application. Unit shall be factory assembled for electrical and mechanical components. Segregation of services i.e. Low voltage supplies, High Voltage supply and Medical gases shall be maintained with minimum 2/3 tier/2/3 channel arrangements with built-in LED Lighting (with ON/OFF control) Shall be European CE Certified with 4 digit notified body number or American ETL/ American UL listed. Front fascia plate shall be removable individually to access for respective service. b) It shall have one rail for mounting Accessories. Each bed-head unit shall be supplied with electrical</p>	<p>It is amended that,</p> <p>Tender document - technical specification of medical gas pipeline system mentioned in page no. 46 of 50 for,</p> <p><b>"GAS OUTLETS" – "Gas Outlets shall be fully Metallic body".</b></p> <p><b>Horizontal/ Vertical Bed Head Panel – "Shall be European CE Certified with 4 digit notified body number or American ETL/ American UL listed "-stands deleted.</b></p>

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		<p>and electrical outlets pre-fitted, wired and certified. c) Shall have per unit as under: Oxygen – 2 Vacuum – 2 Medical Air-1 Holder for vacuum collection jar – 1 Nurse call switch – 1 (not in the scope of MGPS Vendor only space for same has to provide) 5 /15A combined Electrical socket with switch – minimum 4 Nos. with 2 outlet combination, 6 Nos. with 1outlat combination and 8 Nos. with 6/8 outlet combination RJ-45 socket/ Ethernet -01 Two spare spaces.</p>	
5	<ol style="list-style-type: none"> <li>1. Please confirm whether all offered MGPS products must have CDSCO registration.</li> <li>2. Please confirm whether all MGPS items samples to be submitted for approval before supply of materials.</li> </ol>		<p>It is amended that,</p> <ol style="list-style-type: none"> <li>1. All offered MGPS products must have CDSCO registration.</li> <li>2. All MGPS items samples to be submitted for approval of the client before supply of materials.</li> </ol>

**Note:-**

1. The above minutes of pre bid meeting shall form part of the tender document and is to be submitted duly signed, stamped and uploaded by the Bidder along with Bid document.
2. All other terms and condition of tender document remains unchanged.

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