

Corrigendum - 01

Minutes of Pre Bid Meeting

Tender No: 04/SE/Civil/2023-24

Name of the work: Supply, installation testing & commissioning of additional 2x10kl Liquid Medical Oxygen (LMO) Tank & allied work at AIIMS Rishikesh.

Pre Bid Meeting Venue: SE Office, AIIMS Rishikesh

Pre Bid Meeting Date & Time: 08.05.2023 & 3:00 P.M.

Sl. No.	Bidder Queries in pre-bid meeting	Condition in Tender Document	Amended Condition in Tender Document
1	Whether 2 nos 10 KL LMO tank and 2 nos Vaporizer are to be considered in the scope of work.	2 nos 10 KL LMO tank and each LMO tank to be provided with separate vaporizer with flow rate: 1200 cubic metre/ hour.	It is clarified and amended that, "2 nos 10 KL capacity LMO tank and 2 nos Vaporizer with flow rate capacity: 1200 N cubic metre/ hour are to be considered in the scope of work".
2	Whether foundation and laying of cement concrete work for 2 nos LMO tank and 2 nos Vaporizer to be considered in the scope of work.	Foundation work is mentioned in the scope of work.	It is clarified and amended that, "Foundation work and laying of cement concrete works for 2 nos LMO tank and 2 nos Vaporizer are to be considered in the scope of work".
3	Flow rate of Pressure reducing station (PRS) shall be 10,000 LPM and whether working and standby for PRS to be considered.	Flow rate of Pressure reducing station (PRS) shall be 8000 LPM.	It is clarified and amended that, "Flow rate of Pressure Reducing Station (PRS) shall be 10,000 LPM. PRS shall be floor mounted type with working capacity of 10,000 LPM and standby arrangement capacity of 10,000 LPM. PRS shall be with all required accessories like safety valve, isolation valves, gauges etc. are included in the scope of work". The total qty of PRS is 2 nos (1 working + 1 standby).
4	Whether Telemetry for LMO tanks to be considered in the scope of work.	Telemetry system for LMO tanks are mentioned in the scope of work.	It is clarified and amended that, "Remote Telemetry Unit is mandatory to be installed with Medical Liquid Oxygen Tanks as per recommendations of PESO. It should allow user to see the

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			<p>Level and Pressure of tank in digital format. It should have efficient low power design with Lithium Battery. It should have Free Mobile Application with Notifications. It should have Free access to Unlimited web users. It should have Free Emails / SMS alerts every hour. It should send Alerts when tank level reaches to 50%, 30%, empty of its capacity. Complete integrated unit including level & pressure sensor, transmitter, battery as well remote telemetry. Accuracy $\pm 0.5\%$. included in the scope of work".</p> <p>The total qty of Remote Telemetry Unit required is 2 nos (1 no. for each 10 KL LMO tank).</p>
5	Copper pipe shall be of latest version of standard BS:EN 13348 :2016.	Copper pipe should be as per standard BS: EN 13348:2008/latest version is mentioned in the tender document.	<p>It is clarified and amended that,</p> <p>"Copper pipe should be as per standard BS: EN 13348 : 2016/latest version"</p>
6	Isolation valve specification shall be mentioned.	Isolation valve body shall be made of chromium plated brass with non lubricated ball type.	<p>It is clarified and amended that,</p> <p>"The Lockable line valves must be degreased and complete valve with stuffed pipe & fittings, factory tested and compliant with applicable standard.</p> <p>a) All Medical Gas Valves shall be specially prepared for oxygen service and shall conform to latest international standard. Valves shall be ball-type, with Teflon seats and adjusting stem packing gland with Teflon stem seal.</p> <p>b) Ball Valves shall operate from the fully open to the fully closed position by manual operation of a lever through 900. Valve nominal bores shall be equal to the nominal pipework size.</p> <p>c) Furnish and install only valves with factory brazed Copper stub pipes shall be manufactured from medical grade copper pipe to BS EN 13348:2001 / latest version which should be</p>

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			<p>Lloyds/SGS/TUV/DNVGLcertified or any accredited third-party certified agency.</p> <p>d) Ball valve shall be provided with locking handles.</p> <p>e) All valves shall be cleaned for oxygen, capped and sealed in a polyethylene bag for shipping and storage.</p> <p>f) Apply labels to each valve in the assembly for gas service identification according to manufactures recommendations.</p> <p>g) Medical gas line ball valve assemblies shall be constructed in a two-piece full-bore design with brass body, Teflon ball seals, stem packing seal, stem 'O' ring seal and a hard chrome plated brass ball. Medical gas line ball valves complete with lockable NIST connections.</p> <p>h) Ball Valve sizes 15 to 54mm inclusive shall have flat-face connectors with 'O' ring seals. The 76 to 108mm inclusive shall be flanged and installed with stainless steel bolts, nuts and spring washers with sealing gaskets. PTFE tape or any other thread sealing media is not acceptable.</p> <p>i) All Medical Gas Valves should be factory tested and certified from OEM. Performance reports (Valve Size, Torque, Working pressure and material certification) has to be submit by the bidder on behalf of OEM".</p>
7	Copper pipe routing through trench and overhead piping shall be mentioned in layout for better understanding.		Copper pipe routing through trench and overhead piping shown in layout as " Annexure-01" for better understanding.

Note:-

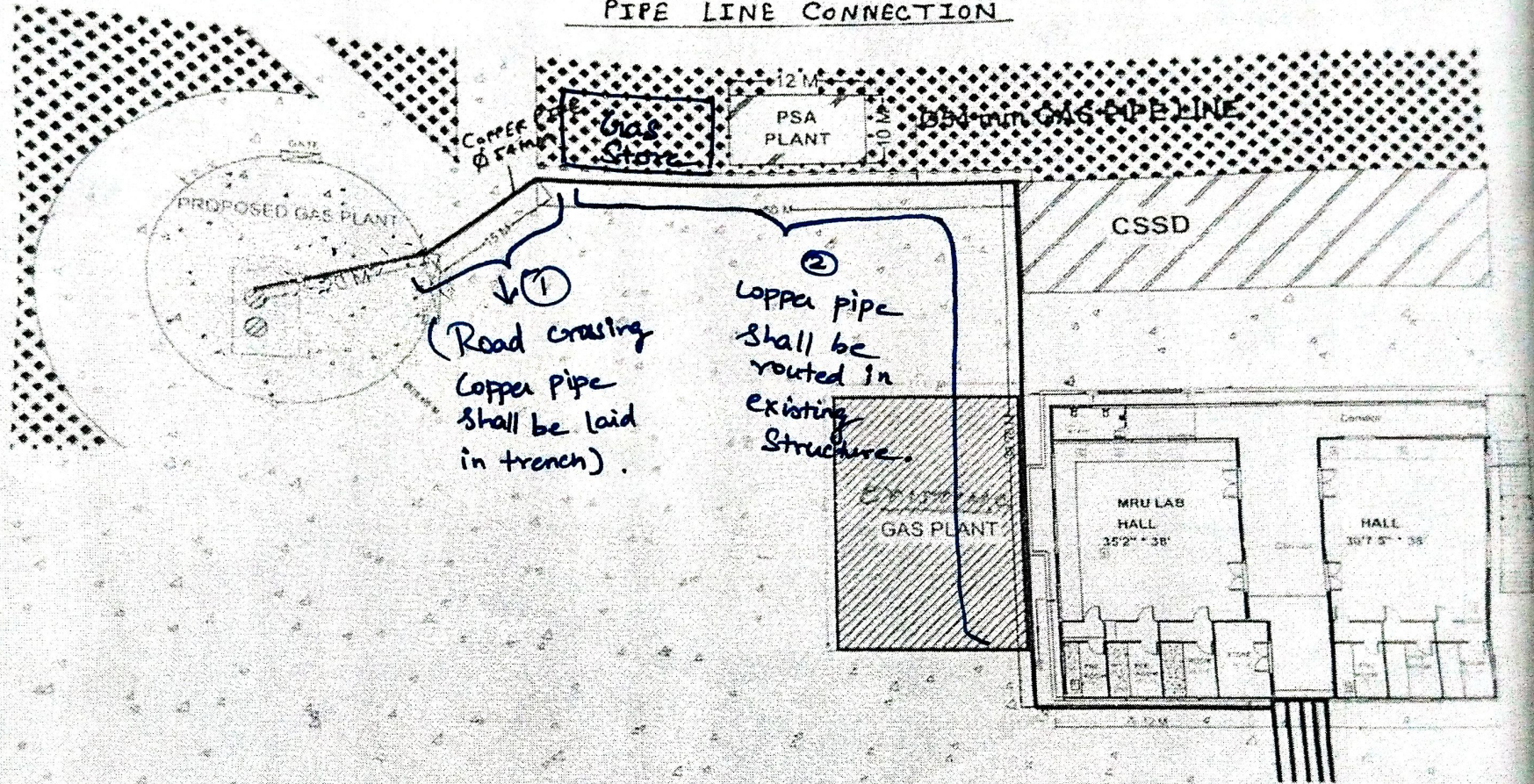
1. The above minutes of pre bid meeting shall form part of the tender document and is to be submitted duly signed, stamped and uploaded by the Bidder along with Bid document.
2. All other terms and condition of tender document remains unchanged.

"Annexure-01"

Copper Pipe routing - Trench & Overhead

2021/ENGG_CELL

DETAIL OF PROPOSED LMO TANK LAYOUT OF PIPE LINE CONNECTION



①
(Road crossing
Copper pipe
shall be laid
in trench).

②
Copper pipe
shall be
routed in
existing
structure.

Rev
AFC