

OIL & GAS DEVELOPMENT COMPANY LIMITED  
CEMENT & STIMULATION DEPARTMENT  
ISLAMABAD

21 Jan 2022

DS/NPU(STIM)/DOC/22/01/21

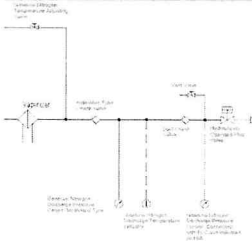
**CLARIFICATIONS ADDRESSED FOR**  
**TENDER ENQUIRY NO. PROC-FE/CB/STIM-5167/2021**

With refer to the queries by the Bidders via emails for the subject Tender Enquiry, reply for the clarifications is mentioned as under:

Sr.No.	Clause	Query by the bidder	Reply
1	2	Truck axles	Truck must have at least a front axle & Tridem axles having provision of last lift able wheel to bear the entire Unit Load adequately comprises of Engines, pumps, Vaporizer, control cabin, Nitrogen Tank, piping and Transmissions etc.
2	13.1	Treating Iron	Treating Iron is for standard services.
3	13.1	Item 14; Pipe Chokers	Already addressed.
4	20.7	Delivery period	Maximum delivery period of the Unit is 40 weeks after LC opening.

### Technical Clarification (contd.)

No.	Clause	Tender Specification	Clarification	Remarks	OGDCL REPLY
1	2. TRUCK CHASSIS- 2.2 CAB	... Aluminum and Fiberglass construction, Aluminum door ...	... Aluminum/ Steel and Fiberglass construction, Aluminm/ Steel door ...	The Chassis supplier could only provide steel cab, we request to add steel cab as an option, kindly confirm your acceptance.	Please refer to T.O.R. and quote as per requisite information available.
2	2. TRUCK CHASSIS- 2.12 CAB	... -Low oil pressure warning light/buzzer -High coolant warning light/buzzer -low air pressure warning light/buzzer ...	... -Low oil pressure warning -High coolant warning -low air pressure warning ...	As per Supplier's confirmation, the chassis can give graphical and literal warnings on the dashboard rather than light/buzzer warnings, it will be same warning function, kindly confirm your acceptance	Please refer to T.O.R. and quote as per requisite information available.
3	2. TRUCK CHASSIS	Important Note Bidder will quote a latest and specific model, actual figure, dimensions. Engine capacity and literature/ Manuals of the Truck and that model could be accessible on the OEM website too. (Please mention the web address of the company)	Bidder request to delete the relevant description.	The chassis shall be customized and details could be different with the standard OEM model, and information may not be available from the OEM website.	Please refer to T.O.R. and quote as per requisite information available.
4	3.1 Control Panel	The water/rust proof panel, engraved with rate and tank content charts should be provided.	This will be a water/rust proof panel. There will be a HMI installed on the panel to show rate and tank content chart information.	The rate and tank content charts will be shown on the HMI, to integrate with other functions. Kindly confirm your acceptance	Please refer to T.O.R. and quote as per requisite information available.

5	4. Engines	<p>4.1 Road Engine The Engine should have minimum Caterpillar C15 ACERT (Industrial) or equivalent rated 440BHP to 595BHP @ 2100RPM along with Allison or equivalent transmission. This Engine is used to drive high-pressure Triplex pump via power shift transmission and flexible drivelines</p> <p>4.2 Deck Engine The Engine should have minimum Caterpillar 3406C (Industrial) or equivalent rated 375BHP to 465BHP @ 2100RPM along with Allison or equivalent transmission. This Engine is used to drive Boost pump, Hydraulic system etc.</p>	<p>4.1 Road Engine The Engine should have minimum Caterpillar C15 ACERT (Industrial) or equivalent rated 440BHP to 600BHP @ OEM designed RPM along with Allison or equivalent transmission. There will be a transfer case installed on the chassis used to drive the deck hydraulic system and lubrication system via different kinds of hydraulic pumps, motors, valves, etc.</p> <p>4.2 Deck Engine Remove the description of deck engine. ...</p>	<p>Bidder suggests to use the chassis power system to drive the unit hydraulic &amp; lubrication system via a self-mounted transfer case. In this case, the deck engine will not be required. Bidder raises this clarification on the basis of the following consideration.</p> <p>1-This will reduce oil consumption and spare quantities as well as maintenance job in the future.</p> <p>2- What's more important, Bidder has manufactured and supplied several sets of similar Truck Mounted Nitrogen Pumping Unit before. According to the weighing result, the overall weight of the unit with deck engine will exceed the loading capacity of a three axle truck. Please refer to Annexure One for details.</p>	Please refer to T.O.R. and quote as per requisite information available.
6	4. Engines	Performance Certificate along with specs from OEM must be submitted along with the Bid.	Specs of the engine must be submitted along with the Bid.	Performance Certificate of the engine will not be available until the engine is tested, Bidder request to provide specification of the engine instead.	Please refer to T.O.R. and quote as per requisite information available.
7	2. Tank 7.1 Nitrogen Tank	A cryogenic Tank having gross capacity of 3,200 US Gallon and Net Liquid Nitrogen (pump able) 3,040 US Gallon, 46psi will be required along with the following specifications:	A cryogenic Tank having Net Liquid Nitrogen (pump able) 1,980 US Gallon/ 7.5 m3, 116 psi will be required along with the following specifications:	Bidder has manufactured and supplied several sets of similar Truck Mounted Nitrogen Pumping Unit before. According to the weighting result, the overall weight of the unit with 3,040 US Gallon tank will exceed the loading capacity of a three axle truck. Please refer to Annexure One for details.	Please refer to T.O.R. and quote as per requisite information available.
8	8. Piping Work	The tee will be fitted with a 2-1502 bull plug, which will be used to pump only gaseous nitrogen. Between the autoclave type check valve and the tee there will be a temperature probe and bleed valve for relieving trapped pressure. Downstream of the tee, there will be a 1502 hydraulically operated plug valve and a 1502 dart style check	Please confirm if the manifold schematic is as attached.		Please refer to T.O.R. and quote as per requisite information available.
9	13.1 Treating Iron	8-2"x2" 1502 Plug Valves (Air Operated)	8-2"x2" 1502 Plug Valves (Hydraulically Operated)	Major plug valve manufacturers do not provide "Air Operated 2"x2" 1502 Plug Valves" due to torque limitation. Bidder requests to change it from Air Operated to Hydraulically Operated and the hydraulic power could be taken from the unit power system. kindly confirm your acceptance.	Please refer to T.O.R. and quote as per requisite information available.