



# ADDENDUM NO. 6

**CLARIFICATIONS ON THE TENDER FOR DESIGN, PROCUREMENT AND CONSTRUCTION OF NEW CRUDE OIL STORAGE TANK (TANK NO. S4) AT INDENI PETROLEUM REFINERY.**

**TENDER NO. IND/W/002/20**

**ISSUED ON: 15.05.2020**

No.	Reference	Bidder's Clarification	Employer's Response
1	<b>Topographical Survey Map</b>	<b><u>Survey</u></b> Please provide the existing as-built drawings for reference. The drawings should include the existing underground utilities and control point/bench marks.	<ul style="list-style-type: none"><li>• Reference Drawings are as per circulated copies</li><li>• Other details are as per Technical Scope of works item 3.1 Specific Tasks in the tender document.</li></ul>
2	<b>Technical Scope of works</b> Piping for steam lines from the battery limit (tie-in point) to the tank	<b><u>Thermotechnical</u></b> Please provide the steam lines parameters (including pipe material, size, pressure, temperature, insulation, etc.) to tie-in point. Piping for steam lines from the battery limit (tie-in point) to the tank	<ul style="list-style-type: none"><li>• Refer to provided drawings.</li><li>• Battery limit as shown during site visit.</li></ul>

3	<b><u>Specific Tasks Notes</u></b> A geotechnical investigation has not been conducted for this project. The information on soil or geological conditions is not provided and therefore the Contractor must carry out a geotechnical survey which will be inclusive in the total project cost.	<b><u>Geotechnical</u></b> Please provide the geotechnical reports and drawings of the three completed crude oil tanks.	<ul style="list-style-type: none"> <li>• Refer to Technical Scope of works item 3.1 under Specific Tasks in the tender document.</li> </ul>
4	<b><u>Specific Tasks Notes</u></b>	Clarify the painting specifications for all the parts including tank internal & external coatings and pipes coatings.	<ul style="list-style-type: none"> <li>• Paint specifications are as per documents sent through on Paint works for metal equipment.</li> </ul>
5	<b>Technical Scope of works</b>	<b><u>Geotechnical report</u></b> If contractor will have to do foundation design, then we will need some Geotech info for tendering.	<ul style="list-style-type: none"> <li>• Refer to Technical Scope of works item 3.1 under specific Tasks bullet No: 2 on Notes.</li> <li>• <i>Contractor must carry out a geotechnical survey which will be inclusive in the total project cost.</i></li> </ul>
6	<b>Technical Scope of works</b>	Termination points for new tank from existing pipeline, electrical cables / boxes, airlines – need to know so that we can allow for enough pipes, cables ext. in the tender	<ul style="list-style-type: none"> <li>• Termination points as shown during site visit. The termination points are within 200m radius.</li> </ul>
7	<b>Technical Scope of works</b>	Plant Lay out drawings for all 3 existing tanks	<ul style="list-style-type: none"> <li>• Ref to information Technical scope of works on background on the API650 for sizing in the solicitation document.</li> </ul>
8	<b>Technical Scope of works</b>	Civil and bund wall drawings ( We require more accurate measurements for the bund wall )	<ul style="list-style-type: none"> <li>• Ref to information Technical scope of works on background in the solicitation document.</li> <li>• The Bundwall to be designed in compliance with API650.</li> <li>• Bidders are encouraged to take site measurements if needed.</li> </ul>
9	<b>TECHNICAL SCOPE OF WORKS</b>	1. Please confirm the type of the External Floating Roof of the tank for this project,	<ul style="list-style-type: none"> <li>•</li> <li>• <b>Single deck</b></li> </ul>

		<p>single deck or double deck?</p> <p>2. For this project, If the tank Internal Diameter is 41.72m, Tank shell Height is 14.720m, the maximum capacity of the tank is about 17700m<sup>3</sup>, the maximum networking capacity of the tank is only about 16000m<sup>3</sup>, Please confirm if this can meet the requirements?</p>	<ul style="list-style-type: none"> <li>• This will meet the requirement</li> </ul>
10	<b>ADDITIONAL CONSIDERATIONS</b>	<p>1. Please provide the plot plan drawings for this project and existing tanks.</p> <p>2. Please confirm where is the <b>battery limit (tie-in point)</b> on the plot plan drawings.</p>	<ul style="list-style-type: none"> <li>• Site clarification can still be done before bid closing date.</li> <li>• Battery limit as shown during site visit.</li> </ul>
12	<b>TECHNICAL SCOPE OF WORKS</b>	Please provide lighting requirements for the tank farm, please provide lighting layout drawing for the plot plan of the previous stage.	<ul style="list-style-type: none"> <li>• INDENI will provide lighting for the project site</li> </ul>
13	<b>TECHNICAL SCOPE OF WORKS</b>	Please provide outdoor electrical cable routing drawing of the previous project stage	<ul style="list-style-type: none"> <li>•</li> </ul>
14	<b>TECHNICAL SCOPE OF WORKS</b> The tank design and construction shall be done strictly in accordance with the latest editions of API 650 (12th Edition published in March 2013), API 653 (5th Edition published in November 2014).	Please provide the parameter of oil such as flow rate, design temperature, pressure, density, flash point and so on for process design.	<ul style="list-style-type: none"> <li>• Crude oil SG approx. 0.8 – 0.95, flow rate 85 – 160m<sup>3</sup>/hr, operating temperature is ambient, flash point is ambient</li> </ul>
15	<b>Automatic Tank Gauging System:</b> The Contractor shall supply and install automatic tank gauging and overfill protection compliant with the existing system for other tanks at INDENI as a minimum.	Please provide information of existing system for other tanks at INDENI, includes: supplier name, the system status etc. Please provide information of existing control system, includes: the spare quantity, arrangement of cabinet room etc.	<ul style="list-style-type: none"> <li>• Current tank gauging and overfill protection system is Emerson-Rosemount.</li> </ul>
16		Design wind speed. Seismic parameters if required.	<ul style="list-style-type: none"> <li>• Approximately 16mph max.</li> </ul>

**NOTE: BID CLOSING DATE REMAIN UNCHANGED ON 29<sup>TH</sup> MAY 2020.**

**CHARLES MWANZA  
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FOR/MANAGING DIRECTOR**