



## KPD-TAY COMPRESSION PROJECT

Tender Enquiry No.: PROC/FC/PROJ/KPD-TAY/COMP/5313/2022

### PRE-BID CLARIFICATION # 18



One of the bidder has asked following queries, OGDCL/ENAR's response is as follows:

Sr. No.	Tender Documents Reference	Bidder's Query	OGDCL/ENAR's Response
1	0258-PC-2205-2 (PLOTPLAN TAY-03 GGS)	Relocation of High tension lines Indicated from Facility without any project number marking for Tay-3 whereas in other Plot Plans (KPD GPP), Relocation is marked for other project (Proj-667) not part of this tender scope. Company to please confirm Relocation of High tension line is not part of the scope and it will be managed by other.	Relocation of High tension lines at Tay-03 GGS is not in the scope of EPCC Contractor.
2	0258-PC-2205-2 (PLOTPLAN TAY-03 GGS)	With reference to High tension line relocation points, in case if it is part of the project scope, Company to advise proposed route survey and relocation place for these line?	Refer response against point # 01 above.
3	Scope of wok clause 12.2.3 Temporary Site Facilities	Bidder understand that Company will provide Place for Temporary Site Facilities nearby or inside plant.	It is already mentioned on page 10 of 74 in clause 11.1 – General Obligations (SEC-IV Conditions of Contract) that:  'The Contractor shall be responsible for obtaining, at its own cost, security, water and power required for the Works, acquiring land and construction of camps, Site offices, Workshop, store etc. OGDCL will not be responsible in this regard.'
4	Scope of wok clause 12.2.3 Temporary Site Facilities	Company to advise location of Temporary Site Facilities? Will TSF will be single location considering GPP is around 10 KM away from Thora and around 28 KM from TAY-3 or multiple location can be allow?	The bidder is required to please select the location and total number of TSF according to their suitability, since land acquiring, security, transportation arrangements etc. are within the scope of Contractor's responsibility.
5	Scope of wok clause 12.2.3 Temporary Site Facilities	Company to confirm that Overall Project Site Security will be by Company during project execution?	It is mentioned on page 10 of 74 in clause 11.1 – General Obligations (SEC-IV Conditions of Contract) that:  'The Contractor shall be responsible for obtaining, at its own cost, security, water and power required for the Works, acquiring land and construction of camps, Site offices, Workshop, store etc. OGDCL will not be responsible in this regard.'
6	Scope of Work Clause 12.3.11 Miscellaneous	Company to advise proposed location for waste disposal (Solid Waste and Liquid Water etc.) Further some items will be demolished as part of the scope. Company to advise proposed location for handover of these item?	All types of disposal shall be carried out in accordance with OGDCL HSE requirements. Waste disposal location to be worked out by the Contractor/Bidders.  The demolished materials shall be handed over to Store section or relevant discipline section at "KNR/KPD-TAY Plant Premises" through consultant.
7	Scope of work clause 7.14 Pipeline point "b"	Company to share pipeline alignment sheet as it is required to identify type and no. of crossing, buried depth and other detail for our further working.	Please refer existing flow line drawings in volume IIB of the tender document. Furthermore, flowline elevation profiles of existing Thora Deep-1 and Thora Deep-02 are also attached.
8	Scope of work clause 7.14 Pipeline point "b"	Company to advise pipeline available can be intelligently pig and has provision of Pig launcher and receiver.	In the existing philosophy, all pipelines has provision of Pig Launcher & receiver (Mobile) and same shall be considered for the pipelines for Thora Deep-1 and Thora Deep-3 GGS trunkline (existing Thora Deep-2 flowline).



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9	Scope of work clause 7.14 Pipeline point "b"	<p>Company to share pipeline additional detail as listed below: This is important to check health of the proposed pipeline to be installed.</p> <p>a) Year of Installation            b) Method used by Company to check integrity of Pipeline (Intelligent Pigging, leak detection etc.), Company to share relevant detail for last integrity check (i.e. if intelligent pig, detail on remaining thickness of pipeline from installation etc.)            c) Cathodic protection installed or not and its related document.            d) Hot bend/Cold bend details            e) Thickness calculation of existing pipeline?</p>	<p>a) Year of Installation is 2016.            b) Intelligent Pigging not performed . Hydro testing was done at the time of commissioning in 2016.            c) Cathodic Protection system is installed, furthermore, refer ENAR/OGDCL response against point no.20.            d) Hot bend /Cold bend details not available.            e) The designed thickness of pipelines are given below:                4 inch = 7.14 mm                6 inch = 8.74 mm                12 inch = 14.27 mm</p>
10	12.3.12 Civil and Structural Works page no. 90 last paragraph	Company to share underground piping routing (i.e. Fire water network, close drain and oily water, for existing system). This is required to assess underground and any rerouting work. Further, it is required for Cathodic protection work.	Please find attached Existing Underground Piping/Cable network of KPD Tay plant which needs to be updated as per scope of this project for KPD Compressor area & Tay Compressor's area. Further fully new underground network (Fire Water Network, close drain and Oily water) for Tay-03 GGS of complete facility and Thora Deep-03 GGS is in the scope of EPCC Contractor.
11	165-4-GPP-007 REV 0 (General Plot Plan for Fire Water Network)	TP-K51 is marked to be used for KPD FEC Compression area. However, Tie-in Point exact location and further routing toward FEC Compression Area is not clear? Company to share clear marking on Plot plan and proposed route marking to help us identify total underground length for cathodic protection and any underground/above ground obstruction.	<p>Please note that the referred Drawing is comprised of two (02) sections, the below one indicates gathering area, however, the upper one indicates Plant North (near to existing Fire Water Tank).</p> <p>However, this tie-in point may further be verified during pre-bid site visit.</p>
12	Scope of Work Material Selection page no.4 bullet point no. 3	<p>Please share basis of material selected during feed stage as marked for equipment and piping on the P&amp;IDs and Datasheet. Company to also advise chloride content considered for material selection at following all locations:</p> <ul style="list-style-type: none"> <li>• Thora Deep-3</li> <li>• TAY-3</li> <li>• KPD</li> <li>• Tay</li> </ul>	Compositions are already provided in the Tender Documents. Material selection study for entire project is in EPCC Contractor scope of work (Refer SOW/Sec 1.1.2/Bullet # 6).
13	Scope of Work Material Selection page no.4 bullet point no. 3	Please share existing plant & equipment material selection report and diagrams for bidder further evaluation and understanding to allow us to follow same terms for adequacy of feed stage proposed materials.	Refer response against point # 12 above.
14	0258-IMF-6312-1 (Control System Architecture Thora Deep -3)	NOTE-10 all activities related to this "NOTE" is not in EPCC contractor scope.	Bidder understanding is correct.



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15	0258-IMF-6309-1 (Control System Architecture TAY-3)	<p>Bidder understand that TAY-3 has already RTU (ABB) and integrated with KPD GPP CCR via SCADA. Company to please share SCADA System detail/documents and OEM for bidder further working.</p> <ul style="list-style-type: none"> <li>• Make/Model and brand of RTU PLC</li> <li>• Spare IOs list</li> <li>• Vendor/Manufacturer data e.g. schematic/wiring drawings, panels GA drawings and architecture diagram etc.</li> </ul> <p>Existing licensed software will be used for the modification/ existing Wellhead RTU which is available with Client.</p>	<p>At TAY-03 GGS Existing RTU System Make / Model: ABB PM861.</p> <p>Existing Scada details and IO Capability of Existing RTU at TAY-03 GGS are attached with this clarification.</p> <p>Further, Basic technical details already mentioned in tender documents. Details of existing system shall be shared with the successful bidder.</p>
16	0258-DS-1006-0 (New LP K-Finger Slug catcher(SC-4601))	<p>Finger type slug catcher is proposed as per FEED datasheet. Company to confirm, if simple pressure type separator can be used considering slug volume and other process parameters.</p>	<p>Bidder to adhere Tender requirement.</p>
17	Scope of Work Section; 5.0 Instrumentation and Control Engineering; Clause 5.23	<p>New Instrument Air Compressor and Dryer Package shall be supplied and installed by EPCC Contractor. EPCC Contractor scope includes the supply and installation of all instrumentation &amp; controls for Compressor and Dryer Package. Instruments, Valves, control system and Graphical User Interface HMI/MMI shall be same as installed in existing air compressors and air dryer.</p> <p>Client to provide vendor/OEM data of Graphical User Interface HMI/MMI installed in existing air compressors and air dryer.</p>	<p>Make / Model# of existing Instrument Air Compressor / Dryer Package PLC / HMI are as follows:</p> <p><b>PLC:</b> Allen-Bradley ControlLogix PLC; CPU: 1756-71 (details of I/O Modules can be seen in attached pdf file)</p> <p><b>HMI:</b> Allen-Bradley Panelview Plus 1000 HMI; Panel View Plus 1000 Assembled Terminal CAT 2711P-T10C4D8, SER A complete with Panelview Plus 1000 Display Module CAT 2711P-RDT10C, SER B and Panelview Plus Logic Module CAT 2711P-RP8D, SER A.</p>
18	0258-IMF-6312-1 (Control System Architecture Thora Deep -3)	<p>NOTE-4 Compressor Package PLC shall be hardwired interfaced with Wellhead RTU.</p> <p>Bidder understand that only the provision of hardwired interfaced for Wellhead RTU will be available in Compressor Package PLC. Supply, installation and any hardwired/software in Thora Deep-3 RTU and in DCS/ESD system in GPP is not in EPCC Contractor scope as per NOTE-5 and 7.</p>	<p>Bidder understanding is correct.</p> <p>Further, Note-5 &amp; Note-7 are very well defined in said document for bidder's clear understanding.</p>
19	0258-IMF-6312-1 (Control System Architecture Thora Deep -3)	<p>Provision in Compressor PLC shall be considered for Compressor shutdown from wellhead RTU/GPP. Also in receiving the supervisory signals from GPP CCR (Remote ESD) RTU shall be able to shutdown compressor package, this requirement shall also be implemented.</p> <p>Bidder considered following IOs provision in Compressor Package PLC against above requirements.</p> <ul style="list-style-type: none"> <li>• 01 No. I/O signal for Compressor shutdown from wellhead RTU/GPP (CCR (Remote ESD)).</li> <li>• 01 No. I/O signal from Compressor PLC shutdown signal to RTU/GPP (Main Control system).</li> </ul>	<p>For I/O's details refer Doc # 0258-IMA-6012-1 (Instrument List - Thora Deep-3). Further shall be discussed and finalized during detail engineering stage.</p>



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20	4.9 Cathodic Protection (CP), 0258-ELA-6500 page 18 of 19	Cathodic protection system required for buried lines (Fire Water and Close drain lines). Since, KPD-TAY GPP has existing close drain and Fire water network and only new area will be connected to these existing system, Therefore, bidder understand that existing Cathodic protection will be extended/modified for these new fire water and close drain lines. Keeping this in view, Company to share existing Cathodic protection system detail for KPD-TAY GPP including OEM for all components.	<p>Please refer to Doc# 0258-ELA-6500, section 4.9, Cathodic Protection (CP) system shall be provided to following tanks and buried pipes.</p> <ul style="list-style-type: none"><li>- Raw Water and Fire Water storage tanks</li><li>- Close drain and oily water lines</li></ul> <p>Fire water lines don't require CP system. Further, where, KPD-TAY GPP has existing close drain and Fire water network and only new area will be connected to these existing system; in that case, new CP system to be considered for the facilities comes under the subject project. Requirement of isolating joints and their location is the part of detail engineering, therefore, EPCC Contractor shall determine the requirement of isolating joints during detail engineering and shall mention accordingly on to respective layout .i.e. piping layouts, CP layouts.</p> <p>Further, bidder shall be responsible to acquire all the existing cathodic protection system details / data (if required) at their own during pre-bid site visit.</p>
21	Piping Material Specifications	<p>Company to provide following missing piping specs.</p> <ul style="list-style-type: none"><li>• A1S</li><li>• A4S</li><li>• B2S</li><li>• D2S</li><li>• D8S</li></ul>	<p>Please find attached specification in which A1(S) , D2(S) and D8(S) are available. Further, for B2(S) same B2 specification will be considered, as (S) denoted sour service so all materials will be NACE MR-01-75 in B2 (S) specification . Also refer General Notes on Page 43, Point 28 (a) for further clarification.</p> <p>Furthermore for A4(S) it is a typo error in P&amp;IDs and in Line List, It is A4 only.</p>