



PRE BID CLARIFICATION

**DARU-MANGRIO GAS PROCESSING FACILITY & LPG EXTRACTION PROJECT
TENDER NO. PROC-FC/CB/PROJ/DARU-MANGRIO-5026/2021**

Dated: April 30, 2021		CLARIFICATIONS #: 01	Dated 30-04-2021
Sr.#	Reference Clause / Section	BIDDER'S QUERIES	OGDCL RESPONSE
1	Clause 5.4.1 Consultant shall review of drawings and documents provided in this Tender Document for any missing / deficient or additional design engineering and drawing requirement and shall develop the same for successful completion and commissioning of the Project meeting all functional requirement of the integrated plant. All drawings (whichever are available) are in PDF format. Consultant shall reproduce these drawings in auto cad version for further development to depict as-built conditions.	i. Kunnar and Daru facility is old facility therefore, we, understands that the existing available data in PDF form and it might be possible the new modification works not be updated in the drawing e.g(plot plan, piping layout) so, in the regard bidder shall be responsible to perform as-built activity and update the existing drawings. Please confirm.	The provided as Built of Daru are fresh, if Bidder needs verification they may proceed accordingly
		ii. Bidder understands that the updation and development the existing drawings will be only for LPG Extraction plant please confirm	Yes ,Only for LPG plant and its off-sites as well.
		iii. Bidder will not develop isometrics, pipe supports and platform of existing LPG extraction plant only limited to plot plan and piping layout please confirm.	Bidder will have to develop isometrics, pipe supports and platform of existing LPG extraction plant only limited to plot plan and piping layout for Daru Facility (Plant)
2	Clause 5.4.2 of Appendix-A Consultant shall carry out simulation at Do Noting Case and also evaluate various option for increase LPG recovery and identify bottlenecks and suggest cost effective increase LPG recovery plant with CAPEX , OPEX and Pay back estimation.	i. Client to clarify/identify various options, to be evaluated by process simulation to increase LPG recovery. Please elaborate sufficiently.	Bidder will have to perform the simulation model for the maximum LPG extraction by considering the Kunnar LPG Plant .
		ii. Furthermore, bidder understands that technology used in existing Kunnar LPG plant shall remain the same. Please confirm.	Yes,
3	Clause 5.4.2 of Appendix-A Evaluation of utilities and off site of Daru Facility including Control System and Power Generation.	Bidder understand that only Kunnar LPG Plant shall be relocated at Daru Central Facility without its utilities & off sites. The existing utilities & off-sites present at the Daru Central Facility shall be used for relocated Kunnar LPG Plant after necessary modification/addition. Please confirm.	The reply is given at serial no ii.
4	Clause 5.4.2 of Appendix-A High Level specification of additional utilities required for successful integration and operation of LPG plant at Daru Central facility.	Bidder understand that requirement of additional utilities will be estimated at stage-I and specification/datasheets shall be developed at FEED (stage-II). Please confirm	Yes
5	Clause 5.4.2 of Appendix-A Plant completion Assessment in terms of required equipment/systems. COMPANY may offer redundant material/equipment/machines located at different sites of OGDCL, therefore the Consultant shall be responsible to visit the different sites all over Pakistan, collect necessary information and evaluate the material/equipment/machines for adequacy.	i. Bidder understand that, the integrity of redundant material/equipment/machines present/located at different sites of OGDCL are not included in bidder scope. Please confirm.	Yes,
		ii. Please specify the number and type of material/equipment/machines related to this project is expected for its evaluation/adequacy checks.	No.
		iii. The vendor design documents and all other design data of material/equipment/machines shall be provided by OGDCL for evaluation/adequacy check. Please confirm	Yes
6	Clause 5.4.2 of Appendix-A Identify required modification and replacement of any item of relocated Plant/equipment.	i. The modification required in existing vendorized equipment's (refrigeration, columns, heating system, etc.) shall be performed through its vendor. Please confirm.	(i)Not required (ii)Yes
		ii. Bidder understand that all the required existing data of Daru Central Facility is available and shall be provided at start of stage-II of phase-I for adequacy check of utilities & off-sites. Please confirm.	The data of equipments of existing Daru Facilities is provided in the As Builts.



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		iii. The vendor data of existing equipment's shall be provided by OGDCL for their adequacy check, if required vendor data of existing equipment's are not available then, new data sheet for new equipment procurement shall be developed. Please confirm.	Yes,
7	Clause 5.4.2 of Appendix-A Development of PFDs and P&IDs for integration scheme at Daru Facility (multiple options, as necessary).	i. Bidder understands that PFD & P&IDs shall be developed ONLY for the selcted/viable option. Please confirm	Yes,
		ii. Bidder understand that, P&ID's & PFD's are the deliverables of the FEED stage, a preliminary PFD will be developed for stage-I to identify the new/modification required. Please confirm	Yes,
8	Clause 5.4.2 of Appendix-A The feasibility report shall be focused on the Economic evaluation of the project in terms of total life of plant, operational feasibility assessment under the influencing parameters as well as the project schedule feasibility. The report should cover all aspects including pros and cons of such a project to be undertaken.	i. Please clarify/elaborate operational feasibility assessment under influencing parameters.	Not required
		ii. Please specify what other aspects/parameters to be taken up for considerations of pros & cons of the project	Life of the plant, production parameters required modification
9	Clause 5.4.2 of Appendix-A Class 4 estimates of the Project and Level -I implementation plan.	The realizable cost of all existing equipment's shall be provided by OGDCL, whereas the cost of new equipment will be estimated by consultant. Please confirm.	Yes
10	Clause 5.4.2 Proposed modified Plot Plan at Daru Facility with integration of Kunnar Plant. Consultant shall identify if any additional land requirement at Phase-I (stage 1)	4. Bidder understand the requirement of additional land will not be finalized at phase-I (stage -I) and the plot plan shall be developed at FEED (stage-II) please confirm.	The bidder needs to develop the plot plan and provide the land requirement as per the KNR plot plan.
11	Clause 5.5.3 of Appendix-A Detailed operational analysis of the equipment to be modified/procured/relocated under the new parameters.	Please clarify/elaborate the detailed operational analysis and issues anticipated to be covered.	New performance parameters at Daru
12	Clause 5.5.3 of Appendix-A Detailed evaluation of Existing Kunnar process Plant Equipment including capacities, sizes, and adequacy with respect to Daru Gas feed. Evaluation of items required at Daru Central Facility to meet required gas and liquid hydrocarbon specifications.	All the evaluations/adequacy checks are already performed at stage-I of phase-I, please clarify/elaborate any other required items evaluation of Daru facility at FEED stage.	In case if required during FEED stage
13	Clause 5.5.3 of Appendix-A Development of Cause and Effect Documents and Control Narrative.	Bidder understand that, existing editable Cause & Effect Diagram shall be provided for Daru Facility and same shall be updated considering relocated Kunnar LPG plant. Please confirm.	Yes
14	Clause 5.5.3 Updation of list of equipment required to be replaced (procured new) and / or to be repaired / refurbished / modified based on results of physical assessment.	Bidder understands that 3rd party verification may be carried out by OGDCL fitness for service Please confirm.	The bidder has to provide the list of these equipmnet
15	Clause 5.5.4 of Appendix-A HAZOP study	Bidder understand that, HAZOP study shall be performed ONLY for relocated facility (Kunnar LPG Plant), modification and new equipment's added at Daru Facility. Please confirm.	Yes



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16	Clause 5.6.1 of Appendix-A Consequence modeling and Detailed Engineering design of Fire Water System including but not limited to Fire Water Tanks, Fire Water Pumps, Hydrant, Monitor, Foam system etc	i. Please clarify/elaborate consequence modeling.	To predict accident effects and impact on people, the environment and property
		ii. Bidder understand that, existing firefighting system shall be evaluated for additional equipment's/Kunnar LPG Plant at Daru Facility and necessary modification or addition in firefighting system shall be added to protect assets from potential fire hazards. Please confirm	Yes
17	Clause 5.6.2 of Appendix-A Any performance issue arising due to failure in identification of these gaps or shortcomings shall result in invoking Clauses relevant to Performance Guarantee as will be expressly mentioned at the time of Contract. OGDCL's decision in light of those clauses will be deemed final and binding to the Consultant.	Please note that, Consultant responsibility shall be limited to confirm the accuracy of the calculation performed for adequacy check of existing/new equipment's sizing. The process guarantee of the existing/new vendorized equipment shall be provided by its vendor. Furthermore, the required testings, inspections, cleaning, etc. of existing equipment's (Kunnar LPG Plant, Other equipment's) shall be performed by OGDCL to confirm its suitability, compatibility, fit to use, etc. Please confirm our above understanding for performance related matters.	Yes
18	Clause 5.6.4 Consultant shall prepare Plot plan and other layouts for Daru Central Facility based on the existing plot plan with the intention of not increasing equipment spacing, piping and cable lengths. Consultant can re-arrange the equipment for decreasing the lengths to optimize the facility layout.	Kunnar is old facility we understand that plant was design in old version of OGRA, NFPA regulations. Therefore, it might be possible the safety distances may be increased with latest version of OGRA NFPA regulations.	Yes as per the latest version of OGRA NFPA regulations.
19	Clause 5.6.2.1 of Appendix-A Process Engineering Deliverable	Bidder understand that, following existing documents are available and will be provided for updation as per project requirement. * Operating Philosophy * Process Control Philosophy * Process Control Description * Plant Operating Instruction * Performance Test Procedure Please confirm our understanding.	Yes
20		Bidder understands that, battery limit conditions (composition, temperature, pressure, etc.) that will be the inlet of Relocated Kunnar LPG Plant at Daru Facility shall be provided by OGDCL. Please confirm	Yes
21	Clause 14.1 of Appendix-A Payment of (Sr. No. 1) will be made upon completion, submission and acceptance of final documents	Payment of (Sr. No. 1) will be made upon submission of issued for approval documents	Bidder to follow Tender clause
22	Clause 14.1 of Appendix-A Payment of (Sr. No. 2) will be made after completion and submission of final Documents and study report.	Payment of (Sr. No. 2) will be made after client comment incorporation and submission of final Documents and study report.	Bidder to follow Tender clause



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23	Clause 14.2 of Appendix-A Payment of Sr. No. 5 shall be made upon submission of Final Front End Engineering Design (FEED) Package.	Payment of Sr. No. 5 Front End Engineering Design (FEED) Package shall be made as follows. i-90 % submission of issued for approval documents. ii-10% submission of final documents.	Bidder to follow Tender clause
24	Clause 14.3 of Appendix-A Payment of Sr. No. 7 shall be made upon submission of final Detailed Engineering design packages.	Payment of Sr. No. 7 final Detailed Engineering design packages shall be made as follows. i-90 % submission of issued for approval documents. ii-10% submission of final documents.	Bidder to follow Tender clause
25	Clause 14.4 of Appendix-A Payment of Sr. Nos. 9-10 shall be made upon carrying out Technical & Financial Evaluation and Preparation & Finalization of Contract, & contract negotiation.	The payment shall be made separately for sr. 9 and 10 as mentioned in bid price schedule.	As per Tender clause
26	Clause 5.6.6.1 Scope of Work Interfacing of additional equipment with Daru Plant Control System. Control system shall be design for Daru facility.	i. Please clarify/elaborate whether New Control System to be designed for Daru Facility or existing system of Daru Facility shall be evaluted and modified for this project.	No new system will be procured, existing systemwill be modified
		ii. The complete relevant Instrument design documents and drawings of relocated Kunnar LPG Plant Instrumentation and Daru Facility Control System for adequacy check shall be provided by OGDCL. Please confirm	Yes will be provided by OGDCL
		iii. Please clarify/elaborate whether existing Kunnar LPG Plant Control system (Control Panels, Workstations, control room equipments etc.) shall also be relocated to Daru Facility. Please confirm	Yes
27	Clause 5.6.6.1 Scope of Work Consultant will update and / or develop following documents. <input type="checkbox"/> Updating System Architecture Drawings. <input type="checkbox"/> Updating power supply details including distribution line diagrams <input type="checkbox"/> Review and updating I/O List <input type="checkbox"/> Redundancy details <input type="checkbox"/> Updating Cause & Effects <input type="checkbox"/> Updating Logic Diagrams <input type="checkbox"/> Review and updating Instrument & JB Location Layout <input type="checkbox"/> Instrument Cable Layout <input type="checkbox"/> Review and validate Cable Schedule <input type="checkbox"/> Review and updating wiring, termination and interfacing details drawings	Bidder understand that, following existing documents are available (in PDF convertible format not scanned PDF) and will be provided by OGDCL for updation as per project requirement. Please confirm	Soft form not available,only hard copies are available
28	Clause 5.6.6.1 Scope of Work The Consultant scope also shall include the dismantling plan, relocating plan and installation plan for all Instrumentation & Controls including, but not limited to, Transmitters, Gauges, in-line instruments such as Flow Elements, Shut Down and Control Valves, Pressure Regulators, Pressure Safety and Relief valves, Fire &	i. Please clarify/elaborate Fire & Gas monitoring and protection system, SCADA system scope in detail.	New fire & gas monitoring and portable system to develop while SCADA system not required.
		ii. We understand that vendor datasheets are available for adequacy check of said instruments.	Already provided (uploaded with tender)
29	Clause 4.3 of Tender Document (Performance Bond)	It is proposed that Performance Guarantee (PG) may please be considered to submit separately for Phase-I (Stage-I), Phase-I (Stage II - IV) and Phase-II as are being practice of other OGDCL's projects.	Yes
30	Bid Submission Date	As you are aware the prevailing situation in the country due to Pandemic Covid-19 and forthcoming EID Holidays. Therefore it is requested to extend the Bid Submission date atleast two (02) weeks.	Under consideration of OGDCL Management