Query No.	Ref.	References	Tenderers Query	MOEW Response
1	Q 1	Inspection Package	Wall Thickness of each pipeline subject for inspection.	Mostly existing onshore/offshore pipeline wall thickness is around 8-11 mm.
2	Q 2	Inspection Package	Is UT Technology mandatory? Can We suggest a different technology?	UT technology is mandatory where there is no alternative testing method.
3	Q 3	Inspection Package	Regarding Site visit, is there a specific date assigned?	You are welcome to conduct the site visit on your proposed dates, when you arrive to Tripoli, you can contact Eng. Joseph Ahel (03897977) will escort you during the visit.
4	Q 4	Inspection Package	Employer's approval to visit and inspect the site,	You are welcome to conduct the site visit on your proposed dates, when you arrive to Tripoli, you can contact Eng. Joseph Ahel (03897977) will escort you during the visit.
5	Q 6	Inspection Package	LRUT & MFL both are two different inspection techniques for same purpose, can please advise why you need to use MFL along with LRUT	MFL (Magnetic Flux Leakage) to be used for uderground piplines .
6	Q 7	Inspection Package	This refers GP (CCTV). What do you mean by GP?	GP stands for Geometry Pig. It is is the pig type to be used
7	Q 8	Inspection Package	We need information about type of future expansion in Berth no. 4 & 5, in terms of Berth Size-length, additional pipeline, and/or another future plan	Berth no 4 and 5 will no be involved in any future plans, they will remain for TOIL future use. Berth no 5 is connected for LPG onshore tanks.
8	Q 10	Inspection Package	Volume 1/Conditions of Contract/1.Information For Tenderers/ section 1.2.1, 2nd para: the scope of work is including onshore tanks. But there is no details provided about tanks in Volume 2 (scope of work, BOQ, …). Please	Onshore tank (1 tank) exists besides the sea manifold and it is name by the back pressure vessel used to make a depression in the sea lines. If you are asking for the 3 on shore tanks that exist in the tank farm, they are not subject to this tender.
9	Q 11	Inspection Package	Volume 1/Conditions of Contract/2.Tender Conditions and Procedures/section 2.2.4: No JV is allowed - Could you please clarify more about this?	With reference to Tender Conditions and Procedures, Sub-clause 2.2.4 Joint Ventures are not allowed for this project
10	Q 12	Inspection Package	Volume 1/Conditions of Contract/2.Tender Conditions and Procedures/section 2.3: Please advise when will be the site visit ?	You are welcome to conduct the site visit on your proposed dates, when you arrive to Tripoli, you can contact Eng. Joseph Ahel (03897977) will escort you during the visit.
11	Q 13	Inspection Package	Volume 2/ section 4/ Scope of work: Please advise if the undersea pipelines are flexible.	Last part of the undersea pipelines is flexible
12	Q 15	Inspection Package	Volume 2: As per the scope, the pipelines shall be cleaned internally by using PIG. In this case, will the Client remove the crude oil / fuel from the pipeline? Please advise.	The Employer will remove the crude oil/ fuel from the pipeline. The pipelines shall be cleaned internally by the Contractor
13	Q 16	Inspection Package	Volume 2: The total length of the pipelines are very small (3.2 Kms for underground and 10 Kms for undersea) for Intelligent Pigging. for Intelligent Pigging. Moreover these pipelines are not continuous line too. In this case, can we propose alternative NDT methods for random inspection instead of ILI ? Please advise.	Bidder to abide by the tender documents
14	Q 17	Inspection Package	Volume 2: As per the scope, underwater pipelines shall be inspected visually on external side after cleaning. In this case, could you please clarify the following points? 1) What is present on the external side of the undersea pipelines like coating, wrapping , marine growth etc. ? 2) If any of the above items are present, please provide more details like type of coating / painting / Marine growth, thickness, hard or soft etc.	1) As per the existing infos, undersea pipelines are PU wrapped. 2) No existing data about the pu thickness.
15	Q 18	Inspection Package	Volume 2: ILI shall be inspected all the area including internal surface anomalies. In this case, why need CCTV Internal inspection?	CCTV is part of the ILI in order to check the pipeline internal geometry an Deformation
16	Q 19	Inspection Package	Volume 2: If we perform UT ILI tool, then why we need to use MFL ILI tool as well; since UT ILI tool is very powerful than MFL ?	MFL required for determining Metal Loss features
17	Q 20	Inspection Package	Volume 2: We need some liquid medium present inside the pipe for UT ILI service. Is this will be available?	The liquid medium that can be provided inside the pipes is a quantity of the existing product.
18	Q 21	Inspection Package	Volume 2: Are these pipeline having launcher & receiver arrangements for ILI ?	Arrangment to be provide by Contractor
19	Q 22	Inspection Package	Volume 2: Do you have dummy flange to perform Pressure test ?	Yes
20	Q 23	Inspection Package	Volume 2: As per the scope, After pressure test, the pipe shall be emptied from the testing media (water or air), dried, sealed from both the ends and filled with Nitrogen for preservation - Normally this shall be performed by client scope. Please clarify it.	This should be performed by Contractor
21	Q 24	Inspection Package	Volume 2: As per the scope, LRUT shall be performed on the drain system hence please provide the scope for LRUT like diameter, thickness, length, surface condition etc.	Data to be collected during site Visit
22	Q 25	Inspection Package	Volume 2: As per the scope, contractor has to clean the berth system and visually inspect their structures and report the defects / damages of berth 1, 2, 3, 4, & 5 - This scope is not clear for us. Could you please provide more details>?	To enable an accurate visual inspection, the contractor must thoroughly clean the berth system of any sediments and residues that may have built up over time.
23	Q 29	Inspection Package	Page/ Clause: Page 1 of 10: “c) Undersea product pipeline including testing of flexible pipes and monobuoys for docking with the flange of the ship’s stander” The inspection of the monobuoy is not described further in the SoW document, Should the contractor provide the inspection services for the monobuoy as well or only for the subsea rigid and flexible pipeline?	Yes to be included
24	Q 30	Inspection Package	Page/ Clause: Page 2 of 10: “c) Undersea product pipeline including testing of flexible pipes and monobuoys for docking with the flange of the ship’s stander” If the monobuoys needs to be inspected kindly provide the details of the monobuoys such as the equipment data sheets and drawings.	Buoys details drawings will be provided by the next week.
25	Q 31	Inspection Package	Page/ Clause: Page 2 of 10 “The existing facility was built in the early 1900s. Part of these pipelines and other facilities were put out of service after the Lebanese civil war (1980-1990). Some of these were re-entered into service recently to transport and store Fuel Oil and Diesel. Pipelines that are out of service, currently contain crude oil to preserve them from internal corrosion”. Please identify which pipelines are in operation and which pipelines are out of operation?	Berth no1: pipeline no1 : pipes (2 no) are working. As for Berth no2: out of service. Berth no3: 1 fuel pipeline (32") is working. Second pipeline is out of service.

Query No.	Ref.	References	Tenderers Query	MOEW Response
26	Q 32	Inspection Package	Page/ Clause: Page 2 of 10: "The existing facility was built in the early 1900s. Part of these pipelines and other facilities were put out of service after the Lebanese civil war (1980-1990). Some of these were re-entered into service recently to transport and store Fuel Oil and Diesel. Pipelines that are out of service, currently contain crude oil to preserve them from internal corrosion" Please specify the crude oil grade/type which is contained in the out of service pipelines.	No clear idea about crude oil grade.
27	Q 33	Inspection Package	General Question Are all pipelines in a "flowing" condition or has the crude oil solidified in any of the pipelines? If pipelines some pipelines are blocked kindly identify the pipeline designations	All the pipeline that contains crude oil are under pressure and no clear idea about the crude oil status inside.
28	Q 34	Inspection Package	Page/ Clause: Page 4 of 10: Please clarify the design of the underground pipelines: 32" Gasoline 95 32" Gasoline 98 32" Diesel 32" Fuel Oil Kindly provide for each pipeline the following details: • Pipeline Length? • Wall thickness? • Minimum Bend Radius? • Number of bends? • Flange Rating? • Design pressure? • Is the pipeline currently operational? • Which product is currently in the pipeline? Please provide the following documents for each pipeline: • Alignment sheets • Isometric Drawings of connections of the pipelines to the manifolds.	Not available
29	Q 35	Inspection Package	Page/ Clause: Clause 4.1. Project Components: Please clarify the design Undersea Pipelines with berths; 32" gasoline 95; with berth 2 and flexible pipe connection 24" gasoline 98 with berth 1 and flexible pipe connection 24" Diesel with berth 1 and flexible pipe connection 32" Fuel Oil; with berth 3 and flexible pipe connection Kindly provide for each pipeline the following details: • Pipeline Length? • Wall thickness? • Minimum Bend Radius? • Number of bends? • Flange Rating? • Design pressure? • Is the pipeline currently operational? • Which product is currently in the pipeline? Please provide the following documents for each pipeline: • Alignment sheets • Isometric Drawings of connections of the pipelines to the manifold and subsea berths	No isometric drawings for the pipelines.as for the containing products please check above answered questions.
30	Q 36	Inspection Package	Page/ Clause: Page 4 of 10: Inspection shall be carried out on the underground / subsea piping to detect metal loss, crack features, deformations and cathodic protection effectiveness. Please specify for each pipeline both subsea and underground the number anodes that need to be tested as part of the cathodic protection effectiveness survey.	to be determined by the contractor and a relevant method statement to be submitted prior to execution of the works to be reviewed and approved by MOEW
31	Q 37	Inspection Package	Page/ Clause: Page 4 of 10, Clause 4.2: "The underwater pipeline shall be visually inspected and cleaned from the outside and any visible defects of damage shall be reported" Please specify for each pipeline both subsea and underground the number anodes that need to be tested as part of the cathodic protection effectiveness survey.	to be determined by the contractor and a relevant method statement to be submitted prior to execution of the works to be reviewed and approved by MOEW

Query No.	Ref.	References	Tenderers Query	MOEW Response
32	Q 38	Inspection Package	Page/ Clause: Page 5 of 10, Clause 4.2: "Following the success of the above tests the pipelines shall be pressure tested at 1.5 times the design pressure". Please provide the design pressure for each pipeline	As noticed from the charged staff who used to work, the design pressure was 150 Psi.
33	Q 39	Inspection Package	Page/ Clause: Page 5 of 10, Clause 4.2: "Inspect the existing subsea pipelines with flexible pipe connections according to API-RP-17B" How many flexibles are connected to each line? Please provide datasheets of the flexibles and the length and diameter for each flexible.	N/A
34	Q 40	Inspection Package	Page/ Clause: Page 6 of 10. Please provide drawings of: - MFLD Onshore; - MFLD Transition	N/A
35	Q 41	Inspection Package	Further to our meeting of today with Eng. Zaher Sleiman, we kindly ask your approval for Two (2) site visits for On-shore & Off-shore respectively. We propose the following dates: 1. Friday 17th of June 2022 for Onshore inspection. 2. Monday 20th of June 2022 or Friday 24th of June 2022 for Offshore Inspection. Awaiting your kind confirmation and approval of our above request.	You are welcome to conduct the site visit on your proposed dates, when you arrive to Tripoli, you can contact Eng. Joseph Ahel (03897977) will escort you during the visit.
36	Q 42	Inspection Package	Kindly note that we are ready to conduct a site visit for Tripoli tank farm as required by the tender in subject on Tuesday 21 June 2022. Kindly confirm if this date is acceptable to you. Else, please advise on an alternative date. Also, please provide us the contact of the person to whom we should coordinate with him for the site visit	You are welcome to conduct the site visit on your proposed dates, when you arrive to Tripoli, you can contact Eng. Joseph Ahel (03897977) who will escort you during the visit.
37	Q 45	Inspection Package	Kindly provide the data sheets of the flexibles and the manufacturers details	Not Available
38	Q 46	Inspection Package	The SoW requests both axial and Circumferential crack detection technology, these are separate crack detection technologies. Can you please confirm that both circumferntial and axial crack detection are a firm part of the SoW?	Confirmed
39	Q 47	Inspection Package	Please further explain to what extend the contractor is expected to clean the external pipeline and berth system.	The Employer will remove the crude oil/ fuel from the pipeline. The pipelines shall be cleaned internally by the Contractor
40	Q 48	Inspection Package	Please share following data: Pipe line drawings of each line from onshore to berths Few pictures of berths, even old pictures	Not available
41	Q 49	Inspection Package	Please clarify following: We understand that nothing would be dismantle from subsea piping and hoses.	Confirmed.
42	Q 50	Inspection Package	Please clarify following: We understand no separate marine hoses or cargo hoses would be part of this job.	Confirmed.
43	Q 51	Inspection Package	Please clarify following: PIG cleaning is very difficult if PIG launcher/receiver not part of pipelines system. in this case PIG cleaning would be decided after review of drawing and/or physical site visit.	Confirmed.