QATAR NAVIGATION (QPSC)

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USD A/C No. 0013-000309-061

INVOICE

103199
QATAR PETROLEUM
MESAIEED INDUSTRIAL CITY MESAIEED QA 70

INVOICE NO: SFWK/INV/012920/2021
DATE: 23/08/2021
EXPENSE A/C:
W/O NO: 21-011113 / 1
W/O REF: NMO21089

Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	Contract No:- GC21101600 Contract Title: DRY DOCK REPAIR ON SPM BUOY AT MESAIEED SAP ID No : 101921	
1100	PRELIMINARIES AND GENERAL MATTERS:- Provision of performance bond. Mobilization of contractor resources. Demobilization of contractor resources.	679,140.69
1101	GENERAL SERVICES:- Provide the services of an IMODCO engineer or IMODCOs authorized third party technical representaive for duration of contrct for supervision and inspection of the services carried out in the drydock and disconnection, reinstallation and offshore commisioning of SBM Buoy, as detailed in clause 3.1.2 of Appendix A. Carried out condition survey to determine the operational feasilibility and future life span recommendation of SPM Buoy following the tests upon overhauling and shall include detailed condition report of the SPM Buoy, recommendation on the continuity of the operation of the SPM Buoy until replaement, as per clause 3.1.6 of Appendix A.	3,235,990.30
1102	OVERHAUL PREPARATION :- Water flush with cleaning / emulsifying agent and gas-free the MPDU including its associated product piping.	152,277.38

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Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	Open all compartments (i.e., watertight hatches and manholes) and gasfree the respective spaces.	
	Deactivate and remove the navigation light, batteries, wiring and other ancillary equipment.	
	Disassemble the entire rotating assembly and lift-off all arms from the buoy.	
	Disassemble all SPM arms and its accessories before start of the overhauling works.	
1103	BUOY HULL:-	1,283,925.00
	Grit-blast the entire exterior of the buoy hull to remove all existing paintwork and corrosion.	
	Perform ultrasonic thickness gauging, around 200 points of all plating of the hull and skirt structure.	
	Replace all corroded or damaged plating and structural members on the deck, outer shell, inner shell, bulk heads and bottom - 196.956 m2 of area.	
	Replace all damaged buoy body fenders, attachment clips and fastening bolts.	
	Replace any corroded or damaged skirt pipe - 25 m	
	Replace any corroded or damaged skirt support braces - 8 nos	
	Replace any corroded or damaged skirt plating - 1 m2	
	~~Replace all anodes, mounting brackets and fastening bolts -21~~	

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W/O REF: NMO21089

Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	nos	
	Replace the chafe end of hawse-pipes at proxy of 6 o'clock and 12 o'clock positions - 6 nos	
	Replace all chain locker covers (6 nos.), fasteners, drill and tap new bolt holes and fit new bolts.	
	Replace the cover plate of submarine hose pulling tube along with new bolting and gasket.	
	Install twelve (12) new pad eyes at the bottom of the hull clockwise to the product piping flanges.	
	Replace two (2) units of watertight deck hatches and four (4) units of manhole covers and its reinforcement ring and with complement of new sealing gaskets and bolting.	
	Dismantle and remove the existing wheels and rails and replace with new wheel and rail.	
	Remove rigid polyurethane foam from compartment within the proximity of any hot work - 3 nos	
1104	CALM BUOY ACCESS COMPARTMENT:-	19,956.63
	Remove and plugged off all twelve (12) pieces of ½" NPT pipe plugs of the hydraulic umbilical, penetration plate at the bottom point adjacent to bulk head #45 in compartment #1.	
	Overhaul or replace bilge pump including replacement of suction and discharge hoses and securing clips and bolting.	

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W/O REF: NMO21089

Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
1105	CALM BUOY CENTRAL CHAMBER:-	85,322.63
	Re-condition the dogs, glands, rubber packings, hinge pins and lubrication fittings of the two (2) units of watertight doors in the central chamber (one of 42" x 30" and one of 30" x 24")	
	Dismantle and remove six (6) connections of 24 inch size pipe flanges of two elbow spools, two 24 inch ball valves and two units of 24 inch bottom penetration pipes.	
	Remove two units of 1 1/2 inch pipe plugs from the elbow spools.	
	Dismantle and remove three (3) connections of 16 inch size pipe flanges of one removable spool, one unit of 16 inch ball valve and one unit of 1 1/2 inch pipe plug.	
	Inspect the faces of all pipe flanges to determine its sealing integrity to carryout machining or replacement.	
	Replacement of two (2) units of 24 inch and one (1) unit of 16 inch ball valves.	
	Dismantle and remove all under-buoy hose spools with direct corresponding flanges.	
	Perform ultrasonic flaw detection and/or magnetic particles NDT to the full penetration welds at bottom reinforcement plate, pipe penetrations, girder welds at under buoy inlet nozzles and fillet welds of brackets and girders with direct attachment to the fixed pipes.	
1106	CALM BUOY MULTI PRODUCTION DISTRIBUTION UNIT:-	121,606.00

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W/O NO: 21-011113 / 1
W/O REF: NMO21089

Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	Remove the MPDU from the buoy and transport it to a clean covered work area. Measure and record the thickness of existing choking resin on the buoy deck before its removal. Disassemble the MPDU, grit-blast and paint all previously painted surfaces according to IMODCO paint specification appended as Attachment 2 to Appendix A. Reassemble the MPDU with new top and bottom bearings, seal holders, product seals, seal rings, damp down ring, retaining ring, O-rings and fasteners. Remove the existing bushing of hinges on the arm connector and fit new ones with interference fit (0.002 inch) After the completion of the above works, stop test the MPDU as per the IMODCO testing requirements. Re-install the overhauled MPDU to the buoy deck using new mounting bolts.	
1107	CALM BUOY PIPE ARM:- Remove and refit pipe spools, valves, new expansion joints and all other removable fittings. Replace all corroded plating - 6 m2 Replacement of two (2) units of 24 inch and one (1) unit of 16 inch butterfly valves. Remove damaged ladder and sacrifical anode at the 16 inch and 24 inch down drop pipes respectively.	441,825.53

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Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	Remove two (2) wheel assemblies and clean up mounting face and recondition assemblies using new wheels, bearings and seals. Perform magnetic particles inspection at all stress concentration areas, particularly the welding attachments of down drop pipes supporting girders, flange connecting plate and wheels mounting support and evaluate for any weld failure. Repair weld failures and perform magnetic particles inspection. Inspect the faces of all pipe flanges to determine its sealing integrity to carryout machining or replacement. Machining work on the deteriorated flange which is not exceeding the takeoff of 2.25 mm in depth, to ensure its sealing integrity.- 6 nos Replacement of deteriorated flange which exceed the take-off of 2.25 mm in depth - 10 nos Install new access ladders to the outboard down drop pipes and a section of the horizontal fairlead tubular. After the completion of all the of the above works, grit blast all components of the loading arm to SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A. Remove existing and install new hinge bushings with interference fit. Install reconditioned wheel assemblies with new bolting.	
1108	CALM BUOY MOORING ARM:-	165,619.50

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Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	Perform ultrasonic and/or magnetic particle inspection to weldments at mooring pad eyes and bollards.	
	Remove two (2) wheel assemblies and clean up mounting face and recondition assemblies using new wheels, bearing and seal.	
	Cut out and renew the damaged area of radius plate at outboard end.	
	Cut out and renew the two (2) units of 6 inch size tubular stays at out board end.	
	Repair or replace rusted and damaged top guard pipe.	
	Cut out and renew any other corroded structural member. Remove existing and fabricate new hawser handling davit.	
	Replace of the damaged frame pipe. Replace the corroded solar panel steel cage.	
	Grit-blast the entire structure of SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A.	
	Remove existing and install new mooring pad-eye bushings with interference fit.	
	Remove existing and install new bushings at hinge connector.	
	Install two (2) reconditioned wheel assemblies complete with new bolting.	
	Install new timber decking. Allow for 1) 24" x 6" x 1", 2) 15" x 6" x 3", and 3) 36" x 3" x 3".	

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Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
1109	CALM BUOY BALANCE ARM:-	109,860.23

Renew any corroded or damaged plating on the balance arm structure - 52.47 m2

Replace existing divers ladder with new ones.

Perform ultrasonic and/or magnetic particles inspection at wheel mounting structure.

Remove the existing two (2) wheel assemblies, clean up the mounting face, and recondition assemblies with new wheels, bearings and seals.

Remove the sheave clamps, pins and replace bushings on the chain tensioning sheave assembly.

Replace of the damaged frame pipe.

Grit-blast the entire balance arm structure to SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A.

Remove existing and install new bushings at hinge connections with interference fit (0.002 inch).

Install two (2) reconditioned wheel assemblies complete with new bolting.

Install the sheave assembly complete with new sheave pin, Teflon bushings and fastening bolts.

Install the chain tensioning winch.

~~Install two lengths of rubber fenders at boat landing beams~~

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Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	with new retaining bars with stainless steel bolts.	
1110	CALM BUOY ANTIFOULING GEAR:-	81,313.60
	Replace any damaged anti-fouling tubulars, live bolted connections, mounting bases and the two panels of expanded metal shield with new ones and replace all bolts and nuts with stainless steel bolts and nuts on all connections of mounting pads.	
	Fabricate and fit bird-deterrent device on tubulars consisting of 15 cm high metal vertical spikes spaced 20 cm apart strung with piano wire on the top.	
1111	CALM BUOY TELEMETRY SYSTEM:-	41,635.06
	Inspect all the components (including but not limited to antenna, cable, brackets) of the Buoy Remote Telemetry Unit (RTU) and replace defective component (free issue)	
	Test the Buoy RTU in the dry dock and at original offshore location to confirm data transmitted from the Buoy RTU is received by MPB Control Room.	
1112	SURGE PROTECTION SYSTEM:-	85,801.52
	Inspect all the components of surge protection instruments(pressure transmitter, pressure/temperature gage,cable glands, barriers and replace any defective component if required.	
	Test the Buoy RTU in the dry dock and at original offshore location to confirm data transmitted from the Buoy RTU is	

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Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	received by MPB Control Room. Perform surge protection instruments communication/interface test at original ofshore location to confirm instruments signal transmission to Buoy RTU and MPB control room.	
1113	CALM BUOY NAVAIDS EQUIPMENT:- Attach all electrical cables properly. Install earth cable for the navigation light and solar panel. Carry out tagging of the electrical cables. Replace the fog horn including the new frame support.	34,274.63
1114	SAFETY EQUIPMENTS:- Supply and install new portable fire extinguishers complete set with box. Supply and install new warning information panel. Supply and install new life buoys with mounting bracket, as required.	48,740.85
1115	CALM BUOY PAINTING:- Grit-blast all external and accessible internal surfaces of the buoy body, the rotating arm and all associated structure to SA 2.5, and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A or QP Specification for Painting and Wrapping of Metal Surfaces (New Construction & Maintenance) ~~(QP-SPC-L-002-Rev 2) appended as Attachment 5 to Appendix A,~~	528,605.42

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Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	whichever is more stringent.	
1116	CALM BUOY ASSEMBLY Reinstall and activate the navigation light, batteries, wiring and other ancillary equipment. Reassemble the entire rotating assembly and lift-off all arms to the buoy. Reassemble all SPM arms and its accessories.	119,820.54
1117	CALM BUOY TESTING:- Conduct hull / buoyancy tank watertight integrity test in accordance with Clause 2 of Attachment 3 to Appendix A. Conduct hydraulic test to MPDU piping system. Conduct 'rotation test'. Conduct test of the navigation light . Check that all compartments are dry and check that all hatches and penetrations are closed and secured. Hose test all manholes and hatches according to classification requirements. Lauch buoy and conduct balance test in accordance with clause 7 of attachment 3 to Appendix A Additional ballast exceeding 1000 kg if reqired for stability, as per Clause 7 of Attachment 3 to Appendix A - Qty replaced 5000 kg	284,563.21

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Vessel Name/Description : SPM BUOY- QATAR PETROLEUM

Job No	Description	Line Amount
	Conduct test of the bilge pump system in accordance with clause 8 of attachment 3 to Appendix A	

Note:-

Payment as per contract.

Encl:-

-Copy of schedule of prices/amount invoiced against each item of bill of quantities invoiced.

-Documents certifying the work done for which invoice raised.

-Copy of signed form of agreement.

Invoice Amount --> 7,520,278.72

(QAR - Seven Million Five Hundred Twenty Thousand Two Hundred Seventy-Eight And 72/100 Only)

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SCHEDULE OF PRICES

Contract No : GC 21101600
Contract Title : Drydock repair on SPM Buoy at Mesaieed.
SAP ID No: 101921

Invoice No: SFWK/INV/012920/2021
Date: 23.08.2021
Invoice Currency: Qatari Riyals

Contractor: Qatar Navigation QPSC

S. No.	Description	Qty	Unit	Unit Rate	Amount (QRs)
1	**PRELIMINARIES AND GENERAL MATTERS**				
1.1	Provision of performance bond	1	Lump sum	469.85	469.85
1.2	Mobilization of contractor resources	1	Lump sum	407,202.50	407,202.50
1.3	Demobilization of contractor resources	1	Lump sum	271,468.34	271,468.34
2.1	Provide the services of an IMODCO engineer or IMODCOs authorized third party technical representaive for duration of contrct for supervision and inspection of the services carried out in the drydock and disconnection, reinstallation and offshore commisioning of SBM Buoy, as detailed in clause 3.1.2 of Appendix A.	1	Lump sum	2,710,311.04	2,710,311.04
2.3	Carry out condition survey to determine the operational feasilibility and future life span recommendation of SPM Buoy following the tests upon overhauling and shall include detailed condition report of the SPM Buoy, recommendation on the continuity of the operation of the SPM Buoy until replaement, as per clause 3.1.6 of Appendix A.	1	Lump sum	525,679.26	525,679.26
	Overhaul Preparation				
3.1.1	Water flush with cleaning / emulsifying agent and gas-free the MPDU including its associated product piping.	1	Lump sum	9,166.83	9,166.83
3.1.2	Open all compartments (i.e., watertight hatches and manholes) and gasfree the respective spaces.	1	Lump sum	14,759.85	14,759.85
3.1.3	Deactivate and remove the navigation light, batteries, wiring and other ancillary equipment.	1	Lump sum	22,235.27	22,235.27
3.1.4	Disassemble the entire rotating assembly and lift-off all arms from the buoy.	1	Lump sum	69,119.37	69,119.37
3.1.5	Disassemble all SPM arms and its accessories before start of the overhauling works.	1	Lump sum	36,996.06	36,996.06
	Calm Buoy Hull				
3.2.1	Grit-blast the entire exterior of the buoy hull to remove all existing paintwork and corrosion.	1	Lump sum	incl in 3.14.1	
3.2.2	Perform ultrasonic thickness gauging, around 200 points or as necessary, of all plating of the hull and skirt structure.	1	Lump sum	7,683.52	7,683.52
3.2.3	Replace all corroded or damaged plating and structural members on the deck, outer shell, inner shell, bulk heads and bottom. (CONTRACTOR shall be paid for minimum of 1 m2 if the total replacement at any one given location is less or equal to 1 m2.) (The quantity is re-measured based on actual utlization.)	196.96	m2	5,765.76	1,135,601.03
3.2.4	Replace all damaged buoy body fenders, attachment clips and fastening bolts.	1	Lump sum	22,567.84	22,567.84
3.2.5	Replace any corroded or damaged skirt pipe. (The quantity is remeasured based on actual utlization.)	25	m	Nil	
3.2.6	Replace any corroded or damaged skirt support braces. (The quantity is remeasurable based on actual utlization.)	8	No.	Nil	
3.2.7	Replace any corroded or damaged skirt plating. (The quantity is remeasurable based on actual utlization.)	1	m2	6,411.81	6,411.81
3.2.8	Replace all anodes, mounting brackets and fastening bolts. (The quantity is re-measurable based on actual utlization.)	21	No.	282.12	5,924.52
3.2.9	Replace the chafe section of hawse-pipes in way of rubbing castings of catenary chains. (The quantity is re-measurable based on actual utlization).	6	No.	nil	
3.2.10	Replace the chafe end of hawse-pipes at proxy of 6 o'clock and 12 o'clock positions. (The quantity is re-measurable based on actual utlization.)	6	No.	nil	
3.2.11	Replace all chain locker covers (6 nos.), fasteners, drill and tap new bolt holes and fit new bolts.	1	Lump sum	10,502.84	10,502.84
3.2.12	Replace the cover plate of submarine hose pulling tube along with new bolting and gasket.	1	Lump sum	1,781.68	1,781.68
3.2.13	Install twelve (12) new pad eyes at the bottom of the hull clockwise to the product piping flanges.	1	Lump sum	7,061.13	7,061.13
3.2.14	Replace two (2) units of watertight deck hatches and four (4) units of manhole covers and its reinforcement ring and with complement of new sealing gaskets and bolting	1	Lump sum	28,613.18	28,613.18
3.2.15	Dismantle and remove the existing wheels and rails and replace with new wheel and rail.	1	Lump sum	11,064.42	11,064.42
3.2.16	Remove, inspect and reinstall or replace (if required) rigid polyurethane foam from compartment within the proximity of any hot work. (The quantity is re-measurable based on actual utlization.	3	No.	15,571.01	46,713.03
	Calm Buoy Access Compartment				
3.3.1	Remove and plugged off all twelve (12) pieces of ½" NPT pipe plugs of the hydraulic umbilical, penetration plate at the bottom point adjacent to bulk head #45 in compartment #1.	1	Lump sum	9,781.62	9,781.62
3.3.2	Overhaul or replace bilge pump including replacement of suction and discharge hoses and securing clips and bolting.	1	Lump sum	10,175.01	10,175.01
	Calm Buoy Central Chamber				
3.4.1	Re-condition the dogs, glands, rubber packings, hinge pins and lubrication fittings of the two (2) units of watertight doors in the central chamber (one of 42" x 30" and one of 30" x 24")	1	Lump sum	6,129.91	6,129.91
3.4.2	Dismantle and remove six (6) connections of 24 inch size pipe flanges of two elbow spools, two 24 inch ball valves and two units of 24 inch bottom penetration pipes. Remove two units of 1 1/2 inch pipe plugs from the elbow spools	1	Lump sum	14,524.19	14,524.19
3.4.3	Dismantle and remove three (3) connections of 16 inch size pipe flanges of one removable spool, one unit of 16 inch ball valve and one unit of 1 1/2 inch pipe plug.	1	Lump sum	5,785.93	5,785.93
3.4.4	Inspect the faces of all pipe flanges to determine its sealing integrity to carryout machining or replacement.	1	Lump sum	5,097.01	5,097.01
3.4.5	Machining work on the deteriorated flange referred to in line item 3.4.3 above which is not exceeding the take-off of 2.25 mm in depth, to ensure its sealing integrity. (The quantity is re-measurable based on actual utlization.)	2	No.	nil	
3.4.6	Replacement of deteriorated flange referred to in Item 3.4.3 above which exceed the take-off of 2.25 mm in depth. (The quantity is re-measurable based on actual utlization.)	2	No.	nil	
3.4.7	Replacement of two (2) units of 24 inch and one (1) unit of 16 inch ball valves.	1	Lump sum	35,061.40	35,061.40
3.4.8	Dismantle and remove all under-buoy hose spools with direct corresponding flanges.	1	Lump sum	12,902.16	12,902.16
3.4.9	Correct the breached sealing surface of the flange referred to in Item 3.4.7 above by in-situ flange facing mechanical work if it is not a severe case. (The quantity is re-measurable based on actual utlization.)	1	No.	nil	
3.4.10	Replacement of affected flange referred to in line item 3.4.7 above if it is a severe case. (The quantity is re-measurable based on actual utlization.)	1	No.	nil	

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S. No.	Description	Qty	Unit	Unit Rate	Amount (QRs)
3.4.11	Perform ultrasonic flaw detection and/or magnetic particles NDT to the full penetration welds at bottom reinforcement plate, pipe penetrations, girder welds at bottom reinforcement plate, pipe penetrations, girder welds at under buoy inlet nozzles and fillet welds of brackets and girders with direct attachment to the fixed pipes.	1	Lump sum	5,822.03	5,822.03
	Calm Buoy MultiProductDistributionUnit(MPDU)				
3.5.1	Remove the MPDU from the buoy and transport it to a clean covered work area. Measure and record the thickness of existing choking resin on the buoy deck before its removal.	1	Lump sum	22,349.29	22,349.29
3.5.2	Disassemble the MPDU, grit-blast and paint all previously painted surfaces according to IMODCO paint specification appended as Attachment 2 to Appendix A.	1	Lump sum	17,127.81	17,127.81
3.5.3	Reassemble the MPDU with new top and bottom bearings, seal holders, product seals, seal rings, damp down ring, retaining ring, O-rings and fasteners.	1	Lump sum	14,970.80	14,970.80
3.5.4	Remove the existing bushing of hinges on the arm connector and fit new ones with interference fit (0.002 inch)	1	Lump sum	27,662.00	27,662.00
3.5.5	After the completion of the above works, stop test the MPDU as per the IMODCO testing requirements.	1	Lump sum	11,163.24	11,163.24
3.5.6	Re-install the overhauled MPDU to the buoy deck using new mounting bolts.	1	Lump sum	28,332.86	28,332.86
	Calm Buoy Pipe Arm				
3.6.1	Remove and refit pipe spools, valves, new expansion joints and all other removable fittings.	1	Lump sum	25,011.82	25,011.82
3.6.2	Replace or repair all corroded plating.	6	m2	6,101.30	36,607.80
3.6.3	Replace or repair all corroded product pipe	15	m2	nil	
3.6.4	Replacement of two (2) units of 24 inch and one (1) unit of 16 inch butterfly valves	1	Lump sum	34,815.30	34,815.30
3.6.5	Remove damaged ladder and sacrifical anode at the 16 inch and 24 inch down drop pipes respectivel	1	Lump sum	2,974.20	2,974.20
3.6.6	Remove two (2) wheel assemblies and clean up mounting face and recondition assemblies using new wheels, bearings and seals.	1	Lump sum	13,590.12	13,590.12
3.6.7	Perform magnetic particles inspection at all stress concentration areas, particularly the welding attachments of down drop pipes supporting girders, flange connecting plate and wheels mounting support and evaluate for any weld failure	1	Lump sum	3,618.46	3,618.46
3.6.8	Repair weld failures and perform magnetic particles inspection.	1	m	5,975.01	5,975.01
3.6.9	Inspect the faces of all pipe flanges to determine its sealing integrity to carryout machining or replacement	1	Lump sum	2,584.61	2,584.61
3.6.10	Machining work on the deteriorated flange which is not exceeding the takeoff of 2.25 mm in depth, to ensure its sealing integrity. (The quantity is remeasurable based on actual utlization.)	6	No.	10,896.70	65,380.20
3.6.11	Replacement of deteriorated flange which exceed the take-off of 2.25 mm in depth. (The quantity is re-measurable based on actual utlization.)	10	No.	22,608.23	226,082.30
3.6.12	Install new access ladders to the outboard down drop pipes and a section of the horizontal fairlead tubular.	1	Lump sum	12,428.94	12,428.94
3.6.13	After the completion of all the of the above works, grit blast all components of the loading arm to SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A.	1	Lump sum	incl in 3.14.1	
3.6.14	Remove existing and install new hinge bushings with interference fit.	1	Lump sum	9,029.99	9,029.99
3.6.15	Install reconditioned wheel assemblies with new bolting.	1	Lump sum	3,726.78	3,726.78
	Calm Buoy Mooring Arm				
3.7.1	Perform ultrasonic and/or magnetic particle inspection to weldments at mooring pad eyes and bollards	1	Lump sum	3,115.79	3,115.79
3.7.2	Remove two (2) wheel assemblies and clean up mounting face and recondition assemblies using new wheels, bearing and seal	1	Lump sum	13,739.31	13,739.31
3.7.3	Cut out and renew the damaged area of radius plate at outboard end	1	Lump sum	15,462.06	15,462.06
3.7.4	Cut out and renew the two (2) units of 6 inch size tubular stays at out board end.	1	Lump sum	9,651.44	9,651.44
3.7.5	Repair or replace rusted and damaged top guard pipe.	1	Lump sum	31,257.66	31,257.66
3.7.6	Cut out and renew any other corroded structural member. Remove existing and fabricate new hawser handling davit.	1	Lump sum	9,923.20	9,923.20
3.7.7	Repair or replace of the damaged frame pipe.	1	Lump sum	31,257.66	31,257.66
3.7.8	Repair or replace the corroded solar panel steel cage	1	Lump sum	15,190.30	15,190.30
3.7.9	Grit-blast the entire structure of SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A.	1	Lump sum	incl in 3.14.1	
3.7.10	Remove existing and install new mooring pad-eye bushings with interference fit.	1	Lump sum	5,762.16	5,762.16
3.7.11	Remove existing and install new bushings at hinge connector	1	Lump sum	9,180.13	9,180.13
3.7.12	Install two (2) reconditioned wheel assemblies complete with new bolting	1	Lump sum	3,876.92	3,876.92
3.7.13	Install new timber decking. Allow for 1) 24" x 6" x 1", 2) 15" x 6" x 3", and 3) 36" x 3" x 3".	1	Lump sum	17,202.87	17,202.87
	Calm Buoy Balance Arm				
3.8.1	Renew any corroded or damaged plating on the balance arm structure. (The quantity is re-measurable based on actual utlization.)	52.47	m2	627.47	32,923.35
3.8.2	Replace existing divers ladder with new ones.	1	No.	8,667.95	8,667.95
3.8.3	Perform ultrasonic and/or magnetic particles inspection at wheel mounting structure	1	Lump sum	2,367.96	2,367.96
3.8.4	Remove the existing two (2) wheel assemblies, clean up the mounting face, and recondition assemblies with new wheels, bearings and seals	1	Lump sum	5,686.15	5,686.15
3.8.5	Remove the sheave clamps, pins and replace bushings on the chain tensioning sheave assembly.	1	Lump sum	8,731.62	8,731.62
3.8.6	Repair or replace of the damaged frame pipe.	1	Lump sum	10,616.87	10,616.87
3.8.7	Grit-blast the entire balance arm structure to SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A	1	Lump sum	incl in 3.14.1	
3.8.8	Remove existing and install new bushings at hinge connections with interference fit (0.002 inch).	1	Lump sum	9,248.54	9,248.54
3.8.9	Install two (2) reconditioned wheel assemblies complete with new bolting.	1	Lump sum	6,818.81	6,818.81
3.8.10	Install the sheave assembly complete with new sheave pin, Teflon bushings and fastening bolts.	1	Lump sum	6,247.73	6,247.73
3.8.11	Install the chain tensioning winch.	1	Lump sum	9,456.64	9,456.64
3.8.12	Install two lengths of rubber fenders at boat landing beams with new retaining bars with stainless steel bolts.	1	Lump sum	9,094.61	9,094.61
	Calm Buoy Anti-Fouling Gear				
3.9.1	Replace any damaged anti-fouling tubulars, live bolted connections, mounting bases and the two panels of expanded metal shield with new ones and replace all bolts and nuts with stainless steel bolts and nuts on all connections of mounting pads.	1	Lump sum	31,904.75	31,904.75
3.9.2	Fabricate and fit bird-deterrent device on tubulars consisting of 15 cm high metal vertical spikes spaced 20 cm apart strung with piano wire on the top.	1	Lump sum	49,408.85	49,408.85
	Calm Buoy Telemetry System				
3.10.1	Inspect all the components (including but not limited to antenna, cable, brackets) of the Buoy Remote Telemetry Unit (RTU) and replace any defective component (free issue) if required.	1	Lump sum	22,467.12	22,467.12
3.10.2	Test the Buoy RTU in the dry dock and at original offshore location to confirm data transmitted from the Buoy RTU is received by MPB Control Room.	1	Lump sum	19,167.94	19,167.94
	Surge Protection System				

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S. No.	Description	Qty	Unit	Unit Rate	Amount (QRs)
3.11.1	Inspect all the components of surge protection instruments(pressure transmitter, pressure/temperature gage,cable glands, barriers and replace any defective component if required.	1	Lump sum	26,496.07	26,496.07
3.11.2	Test the Buoy RTU in the dry dock and at original offshore location to confirm data transmitted from the Buoy RTU is received by MPB Control Room.	1	Lump sum	34,111.18	34,111.18
3.11.3	Perform surge protection instruments communication/interface test at original ofshore location to confirm instruments signal transmission to Buoy RTU and MPB control room.	1	Lump sum	25,194.27	25,194.27
	Calm Buoy Navaids Equipment				
3.12.1	Attach all electrical cables properly. Install earth cable for the navigation light and solar panel. Carry out tagging of the electrical cables.	1	Lump sum	22,105.09	22,105.09
3.12.2	Replace the fog horn including the new frame support.	1	Lump sum	12,169.54	12,169.54
	Calm Buoy Safety Equipment				
3.13.1	Supply and install new portable fire extinguishers complete set with box.	2	No.	7,972.39	15,944.78
3.13.2	Supply and install new warning information panel.	1	No.	17,975.41	17,975.41
3.13.3	Supply and install new life buoys with mounting bracket, as required.	2	No.	7,410.33	14,820.66
	Calm Buoy PAINTING				
3.14.1	Grit-blast all external and accessible internal surfaces of the buoy body, the rotating arm and all associated structure to SA 2.5, and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A or QP Specification for Painting and Wrapping of Metal Surfaces (New Construction & Maintenance) (QP-SPC-L-002-Rev 2) appended as Attachment 5 to Appendix A, whichever is more stringent.	1	Lump sum	528,605.42	528,605.42
	Calm Buoy Buoy Assembly				
3.15.1	Reinstall and activate the navigation light, batteries, wiring and other ancillary equipment	1	Lump sum	25,309.25	25,309.25
3.15.2	Reassemble the entire rotating assembly and lift-off all arms to the buoy.	1	Lump sum	57,227.31	57,227.31
3.15.3	Reassemble all SPM arms and its accessories.	1	Lump sum	37,283.98	37,283.98
	Calm Buoy Testing				
3.16.1	Conduct hull / buoyancy tank watertight integrity test in accordance with Clause 2 of Attachment 3 to Appendix A	1	Lump sum	14,035.78	14,035.78
3.16.2	Conduct hydraulic test to MPDU piping system.	1	Lump sum	21,777.26	21,777.26
3.16.3	Conduct 'rotation test'.	1	Lump sum	26,954.08	26,954.08
3.16.4	Conduct test of the navigation light .	1	Lump sum	6,028.23	6,028.23
3.16.5	Check that all compartments are dry and check that all hatches and penetrations are closed and secured. Hose test all manholes and hatches according to classification requirements	1	Lump sum	17,162.96	17,162.96
3.16.6	Lauch buoy and conduct balance test in accordance with clause 7 of attachment 3 to Appendix A	1	Lump sum	57,820.25	57,820.25
3.16.7	Additional ballast exceeding 1000 kg if reqired for stability, as per Clause 7 of Attachment 3 to Appendix A. (The quantity is re-measurable based on actual utlization.)	5000	kg	26.09	130,450.00
3.16.8	Conduct test of the bilge pump system in accordance with clause 8 of attachment 3 to Appendix A	1	Lump sum	10,334.65	10,334.65
	Total invoice amount in QAR				**7,520,278.72**

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CLASSIFICATION: C1 - CONTROLLED

GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF PARTS RELATED TO ITEM 3.2.3 OF APPENDIX B

Sl no.	Location	Thk	Length	Width	Qty	CTR Area Sq. m (m	Area Sq.m accepted by QP	Remarks
1	Main Deck	10	2200	2260	1	4.972	4.972	Accepted
2	Main Deck	10	2100	2220	1	4.662	4.662	Accepted
3	Main Deck	10	2000	8575	1	17.15	17.15	Accepted
4	Main Deck	10	1030	950	1	1	1	Accepted
5	Main Deck	10	2200	2600	1	5.72	5.72	Accepted
6	Main Deck	10	1080	1900	1	2.052	2.052	Accepted
7	Main Deck 2" pipe bracket	10	230	120	31	15.5	15.5	Accepted
8	Manhole plate	25	770	620	3	3	3	Accepted
9	Manhole plate cover plate	12	700	550	3	3	3	Accepted
10	Verticle track	10	2700	550	1	2	2	Accepted
11	Verticle track	10	700	550	1	1	1	Accepted
12	Verticle track	10	3500	550	1	2	2	Accepted
13	Lower track	35	1025	650	1	1	1	Accepted
14	Lower track rail base plate	40	102	370	48	24	24	Accepted
15	Upper track	35	2000	5000	1	10	10	Accepted
16	Upper track bracket	25	102	175	26	13	13	Accepted
17	Side shell	10	3050	1000	1	3	3	Accepted
18	Side shell	10	550	760	1	1	1	Accepted
19	Side shell	10	550	1500	1	1	1	Accepted
20	Side shell	10	850	1550	1	2	2	Accepted
21	Side shell	10	2000	2000	1	4	4	Accepted
22	Side shell	10	1500	1500	1	3	3	Accepted
23	Bottom plate	10	550	750	6	6	6	Accepted
24	Skirt plate	25	400	1400	1	1	1	Accepted
25	Anti fouling pipe plate	20	300	300	10	10	10	Accepted
26	Anti fouling pipe bracket	10	200	100	42	10	10	Accepted
27	Anti fouling pipe 4"	8	358	48000	1	17.18	17.18	Accepted
28	Anti fouling pipe 3"	7	280	24000	1	6.72	6.72	Accepted
29	Fender Bracket plate with 02 bend	20	90	460	29	3.5	3.5	Accepted
30	Fender Bracket plate with 02 bend	10	100	150	26	3.5	3.5	Accepted
31	Fender Bracket doubler plate	10	130	130	5	2	2	Accepted
32	Anchor plate	10	900	1280	1	2	2	Accepted
33	Anchor plate	16	500	900	1	1	1	Accepted
34	Anchor plate	10	900	1880	1	1	1	Accepted
35	Anchor chain hawse pipe 8"	12.5	688	6000	2	9	9	Accepted
				TOTAL		196.956	196.956	
SIGN								
NAME	PREPARED BY -MILAHA (MR. AZIZ)		APPROVED By mre at 10:03 am, Jun 29, 2021 VERIFIED BY IMODCO SITE SUP. (MR. MARVIN)				AUTHORIZED BY QP (MR. SARFRAZ) 5/7/21	

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CLASSIFICATION: C1 - CONTROLLED

GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF PARTS RELATED TO ITEM 3.8.1 OF APPENDIX B (BALANCE ARM)

Sl no.	Location	Thk	Length	Width	Qty	CTR Area Sq. m (mi	QP Remarks
1	Balancing arm bracket	20	400	650	4	1	1
2	Balancing arm top plate	10	400	650	1	1	1
3	Balancing arm plate	10	1500	2000	1	3	3
4	Balance arm 14" pipe	12.5	1162	1200	1	2	2
5	Balance arm verticle pipe 12" x 4750mm long	12.5	4750	957	2	9	9
6	Balance arm verticle pipe plate	25	220	270	2	2	2
7	Balance arm verticle pipe plate	25	220	490	2	2	2
8	Balance arm verticle pipe plate	25	360	142	12	4	4
9	Balance arm verticle pipe plate	25	230	190	12	4	4
10	Balance arm verticle pipe plate	25	230	2920	2	3	3
11	Balance arm verticle pipe plate	16	360	480	2	2	2
12	Balance arm verticle pipe plate	12	165	165	2	2	2
13	Balance arm verticle pipe plate	12	340	340	2	2	2
14	Balance arm verticle pipe plate 4"	8	358	160	2	2	2
15	Balance arm verticle pipe plate	20	400	200	2	2	2
16	Balance arm tank top plate	20	1000	1300	1	2	2
17	Balance arm extension plate	10	1600	1900	1	3	3
18	Balance arm extension bracket	20	400	1580	1	1	1
19	Balance arm extension bracket	20	400	1000	1	1	1
20	Balance arm extension bracket	20	150	1900	1	1	1
21	Balance arm extension bracket	20	200	600	1	1	1
22	Balance arm extension bracket	20	200	600	1	1	1
22	T- Girder face plate	25	105	3500	4	1.47	1.47
				TOTAL		52.47	52.47
SIGN							
NAME	PREPARED BY -MILAHA (MR. AZIZ)		APPROVED By mre at 10:02 am, Jun 29, 2021 VERIFIED BY IMODCO SITE SUP. (MR. MARVIN)			AUTHORIZED BY QP (MR. SARFRAZ)	

(10:14 AM) 5/7/21

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed				
DESCRIPTION OF RE-MEASURABLE ITEMS RELATED TO ITEM 3.4 (CALM BUOY CENTRAL CHAMBER) OF APPENDIX B				
Item no.	Description	Qty as per scope	Qty actually replacement	Remarks
3.4.5	Machining work on the deteriorated flange referred to in line item 3.4.3 above which is not exceeding the take-off of 2.25 mm in depth, to ensure its sealing integrity. (The quantity is re-measurable based on actual utlization.)	2 no.	0 no.	
3.4.6	Replacement of deteriorated flange referred to in Item 3.4.3 above which exceed the take-off of 2.25 mm in depth. (The quantity is re-measurable based on actual utlization.)	2 no.	0 no.	
3.4.9	Correct the breached sealing surface of the flange referred to in Item 3.4.7 above by in-situ flange facing mechanical work if it is not a severe case. (The quantity is re-measurable based on actual utlization.)	2 no.	0 no.	
3.4.10	Replacement of affected flange referred to in line item 3.4.7 above if it is a severe case. (The quantity is re-measurable based on actual utlization.)	2 no.	0 no.	
SIGN	Anto Lawrence Digitally signed by Anto Lawrence DN: cn=Anto Lawrence, o=Milaha, ou, email=alawrence@milaha.com, c=QA Date: 2021.06.29 16:21:34 +03'00'	For JMDC Marvin	10M/H (M) 05/07/21	
NAME	PREPARED BY -MILAHA (MR. ANTO)	VERIFIED BY JMODCO SITE SUP (MR. MARVIN)	AUTHORIZED BY QP (MR. SARFRAZ)	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed				
DESCRIPTION OF RE-MEASURABLE ITEMS RELATED TO ITEM 3.8 (CALM BUOY BALANCE ARM) OF APPENDIX B				
Item no.	Description	Qty as per scope	Qty actually replacement	QP Remarks
~~3.8.1~~	~~Renew any corroded or damaged plating on the balance arm structure. (The quantity is re-measurable based on actual utlization.)~~	~~15 m2~~	~~52.47 m2~~	~~Details in Attachment 1~~
3.8.2	Replace existing divers ladder with new ones.	1 no.	1 no.	Confirmed
SIGN	Anto Lawrence Digitally signed by Anto Lawrence DN: cn=Anto Lawrence, o=Milaha, ou, email=alawrence@milaha.com, c=QA Date: 2021.06.29 16:22:24 +03'00'	For IMP Marvin S. Reyes	10M/U(M) 5/7/21	
NAME	PREPARED BY -MILAHA (MR. ANTO)	VERIFIED BY IMODCO SITE SUP (MR. MARVIN)	AUTHORIZED BY QP (MR. SARFRAZ)	

* Line Item 3.8.1 is signed in seperate sheet.

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF RE-MEASURABLE ITEMS RELATED TO ITEM 3.2 (CALM BUOY HULL) OF APPENDIX B

Item no.	Description	Qty as per scope	Qty actually replacement	QP Remarks
~~3.2.3~~	~~Replace all corroded or damaged plating and structural members on the deck, outer shell, inner shell, bulk heads and bottom. (CONTRACTOR shall be paid for minimum of 1 m2 if the total replacement at any one given location is less or equal to 1 m2.) (The quantity is re-measurable based on actual utlization.)~~	~~50 m2~~	~~196.956 m2~~	~~Details in Attachment 2~~
3.2.5	Replace any corroded or damaged skirt pipe. (The quantity is remeasurable based on actual utlization.)	25m	0 m	
3.2.6	Replace any corroded or damaged skirt support braces. (The quantity is remeasurable based on actual utlization.)	8 no.	0 no.	
3.2.7	Replace any corroded or damaged skirt plating. (The quantity is remeasurable based on actual utlization.)	25 m2	1 m2	Confirmed
3.2.8	Replace all anodes, mounting brackets and fastening bolts. (The quantity is re-measurable based on actual utlization.)	21 no.	21 no.	Confirmed
3.2.9	Replace the chafe section of hawse-pipes in way of rubbing castings of catenary chains. (The quantity is re-measurable based on actual utlization).	6 no.	0 no.	
3.2.10	Replace the chafe end of hawse-pipes at proxy of 6 o'clock and 12 o'clock positions. (The quantity is re-measurable based on actual utlization.)	6 no.	0 no.	
3.2.16	Remove, inspect and reinstall or replace (if required) rigid polyurethane foam from compartment within the proximity of any hot work. (The quantity is re-measurable based on actual utlization.	3 no.	3 no.	Removed and inspected. No reinstallation.
SIGN		1m2	10m / 4(M)	5/7/21
NAME	PREPARED BY -MILAHA (MR. AZIZ)	VERIFIED BY IMODCO SITE SUP (MR. MARVIN)	AUTHORIZED BY QP (MR. SARFRAZ)	

* line Item 3.2.3 is signed in seperate sheet :

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF RE-MEASURABLE ITEMS RELATED TO ITEM 3.6 (CALM BUOY PIPE ARM) OF APPENDIX B

Item no.	Description	Qty as per scope	Qty actually replacement	QP Remarks
3.6.2	Replace or repair all corroded plating.	10 m2	6 m2	Confirmed
3.6.3	Replace or repair all corroded product pipe	15 m	0m	Confirmed
3.6.8	Repair weld failures and perform magnetic particles inspection.	1 m	1m	Confirmed
3.6.10	Machining work on the deteriorated flange which is not exceeding the takeoff of 2.25 mm in depth, to ensure its sealing integrity. (The quantity is remeasurable based on actual utlization.)	2 no.	6 no. (5+1)	Confirmed (1 no. additional machinng done on 1-Jul)
3.6.11	Replacement of deteriorated flange which exceed the take-off of 2.25 mm in depth. (The quantity is re-measurable based on actual utlization.)	2 no.	10 no.	Confirmed
SIGN		For IMP Marvin Reys	10M/4(M) 5/7/21	
NAME	PREPARED BY -MILAHA (MR. ANTO)	VERIFIED BY IMODCO SITE SUP (MR. MARVIN)	AUTHORIZED BY QP (MR. SARFRAZ)	

MILAHA S&F

GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed				
DESCRIPTION OF RE-MEASURABLE ITEMS RELATED TO ITEM 3.16 (CALM BUOY TESTING) OF APPENDIX B				
Item no.	Description	Qty as per scope	Qty actually replacement	Remarks
3.16.7	Additional ballast exceeding 1000 kg if reqired for stability, as per Clause 7 of Attachment 3 to Appendix A. (The quantity is re-measurable based on actual utlization.)	1000 Kg	5000 Kg	As per IMODCO report submitted to QP.
SIGN				5/7/21
NAME	PREPARED BY -MILAHA (MR. AZIZ)	VERIFIED BY IMODCO SITE SUP (MR. MARVIN)	AUTHORIZED BY QP (MR. SARFRAZ)	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed				
DESCRIPTION OF LUMPSUM ITEMS RELATED TO APPENDIX B				
Item no.	Description	Scope	Scope Completed	Remarks
3.12	**Calm Buoy Navaids Equipment**			
3.12.1	Attach all electrical cables properly. Install earth cable for the navigation light and solar panel. Carry out tagging of the electrical cables.	1 lump sum	Yes	
3.12.2	Replace the fog horn including the new frame support.	1 lump sum	Yes	
3.13	**Calm Buoy Safety Equipment**			
3.13.1	Supply and install new portable fire extinguishers complete set with box.	2 no.	Yes	Accepted
3.13.2	Supply and install new warning information panel.	1 no.	Yes	
3.13.3	Supply and install new life buoys with mounting bracket, as required.	2 no.	Yes	10m/4(m) 05/07/21
3.14	**Calm Buoy PAINTING**			
3.14.1	Grit-blast all external and accessible internal surfaces of the buoy body, the rotating arm and all associated structure to SA 2.5, and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A or QP Specification for Painting and Wrapping of Metal Surfaces (New Construction & Maintenance) (QP-SPC-L-002-Rev 2) appended as Attachment 5 to Appendix A, whichever is more stringent.	1 lump sum	Yes	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF LUMPSUM ITEMS RELATED TO APPENDIX B

Item no.	Description	Scope	Scope Completed	Remarks
3.1	**Calm Buoy Overhaul Preparation**			
3.1.1	Water flush with cleaning / emulsifying agent and gas-free the MPDU including its associated product piping.	1 lump sum	Yes	
3.1.2	Open all compartments (i.e., watertight hatches and manholes) and gasfree the respective spaces.	1 lump sum	Yes	
3.1.3	Deactivate and remove the navigation light, batteries, wiring and other ancillary equipment.	1 lump sum	Yes	
3.1.4	Disassemble the entire rotating assembly and lift-off all arms from the buoy.	1 lump sum	Yes	
3.1.5	Disassemble all SPM arms and its accessories before start of the overhauling works.	1 lump sum	Yes	
3.2	**Calm Buoy Hull**			
3.2.1	Grit-blast the entire exterior of the buoy hull to remove all existing paintwork and corrosion.	1 lump sum	Yes	
3.2.2	Perform ultrasonic thickness gauging, around 200 points or as necessary, of all plating of the hull and skirt structure.	1 lump sum	Yes	
3.2.4	Replace all damaged buoy body fenders, attachment clips and fastening bolts.	1 lump sum	Yes	
3.2.11	Replace all chain locker covers (6 nos.), fasteners, drill and tap new bolt holes and fit new bolts. (Old covers used as per QC reports and IMODCO confirmation)	1 lump sum	Yes	
3.2.12	Replace the cover plate of submarine hose pulling tube along with new bolting and gasket.	1 lump sum	Yes	
3.2.13	Install twelve (12) new pad eyes at the bottom of the hull clockwise to the product piping flanges. (Old covers used as per QC reports and IMODCO/QP confirmation)	1 lump sum	Yes	
3.2.14	Replace two (2) units of watertight deck hatches and four (4) units of manhole covers and its reinforcement ring and with complement of new sealing gaskets and bolting. (Old Deck hatches with new fittings used as per IMODCO confirmation)	1 lump sum	Yes	
3.2.15	Dismantle and remove the existing wheels and rails and replace with new wheel and rail.	1 lump sum	Yes	
3.3	**Calm Buoy Access Compartment**			
3.3.1	Remove and plugged off all twelve (12) pieces of ½" NPT pipe plugs of the hydraulic umbilical, penetration plate at the bottom point adjacent to bulk head #45 in compartment #1.	1 lump sum	Yes	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF LUMPSUM ITEMS RELATED TO APPENDIX B

Item no.	Description	Scope	Scope Completed	Remarks
3.3.2	Overhaul or replace bilge pump including replacement of suction and discharge hoses and securing clips and bolting.	1 lump sum	Yes	
3.4	**Calm Buoy Central Chamber**			
3.4.1	Re-condition the dogs, glands, rubber packings, hinge pins and lubrication fittings of the two (2) units of watertight doors in the central chamber (one of 42" x 30" and one of 30" x 24").	1 lump sum	Yes	
3.4.2	Dismantle and remove six (6) connections of 24 inch size pipe flanges of two elbow spools, two 24 inch ball valves and two units of 24 inch bottom penetration pipes. Remove two units of 1 1/2 inch pipe plugs from the elbow spools	1 lump sum	Yes	
3.4.3	Dismantle and remove three (3) connections of 16 inch size pipe flanges of one removable spool, one unit of 16 inch ball valve and one unit of 1 1/2 inch pipe plug.	1 lump sum	Yes	
3.4.4	Inspect the faces of all pipe flanges to determine its sealing integrity to carryout machining or replacement.	1 lump sum	Yes	
3.4.7	Replacement of two (2) units of 24 inch and one (1) unit of 16 inch ball valves.	1 lump sum	Yes	
3.4.8	Dismantle and remove all under-buoy hose spools with direct corresponding flanges.	1 lump sum	Yes	
3.4.11	Perform ultrasonic flaw detection and/or magnetic particles NDT to the full penetration welds at bottom reinforcement plate, pipe penetrations, girder welds at bottom reinforcement plate, pipe penetrations, girder welds at under buoy inlet nozzles and fillet welds of brackets and girders with direct attachment to the fixed pipes.	1 lump sum	Yes	
3.5	**Calm Buoy MultiProductDistributionUnit(MPDU)**			
3.5.1	Remove the MPDU from the buoy and transport it to a clean covered work area. Measure and record the thickness of existing choking resin on the buoy deck before its removal.	1 lump sum	Yes	
3.5.2	Disassemble the MPDU, grit-blast and paint all previously painted surfaces according to IMODCO paint specification appended as Attachment 2 to Appendix A.	1 lump sum	Yes	
3.5.3	Reassemble the MPDU with new top and bottom bearings, seal holders, product seals, seal rings, damp down ring, retaining ring, O-rings and fasteners.	1 lump sum	Yes	
3.5.4	Remove the existing bushing of hinges on the arm connector and fit new ones with interference fit (0.002 inch)	1 lump sum	Yes	
3.5.5	After the completion of the above works, stop test the MPDU as per the IMODCO testing requirements.	1 lump sum	Yes	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF LUMPSUM ITEMS RELATED TO APPENDIX B

Item no.	Description	Scope	Scope Completed	Remarks
3.5.6	Re-install the overhauled MPDU to the buoy deck using new mounting bolts.	1 lump sum	Yes	
3.6	**Calm Buoy Pipe Arm**			
3.6.1	Remove and refit pipe spools, valves, new expansion joints and all other removable fittings.	1 lump sum	Yes	
3.6.4	Replacement of one (1) units of 24 inch and one (1) unit of 16 inch butterfly valves	1 lump sum	Yes	
3.6.5	Remove damaged ladder and sacrifical anode at the 16 inch and 24 inch down drop pipes respectivel	1 lump sum	Yes	
3.6.6	Remove two (2) wheel assemblies and clean up mounting face and recondition assemblies using new wheels, bearings and seals.	1 lump sum	Yes	
3.6.7	Perform magnetic particles inspection at all stress concentration areas, particularly the welding attachments of down drop pipes supporting girders, flange connecting plate and wheels mounting support and evaluate for any weld failure	1 lump sum	Yes	
3.6.9	Inspect the faces of all pipe flanges to determine its sealing integrity to carryout machining or replacement	1 lump sum	Yes	
3.6.12	Install new access ladders to the outboard down drop pipes and a section of the horizontal fairlead tubular.	1 lump sum	Yes	
3.6.13	After the completion of all the of the above works, grit blast all components of the loading arm to SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A.	1 lump sum	Yes	
3.6.14	Remove existing and install new hinge bushings with interference fit.	1 lump sum	Yes	
3.6.15	Install reconditioned wheel assemblies with new bolting.	1 lump sum	Yes	
3.7	**Calm Buoy Mooring Arm**			
3.7.1	Perform ultrasonic and/or magnetic particle inspection to weldments at mooring pad eyes and bollards	1 lump sum	Yes	
3.7.2	Remove two (2) wheel assemblies and clean up mounting face and recondition assemblies using new wheels, bearing and seal	1 lump sum	Yes	
3.7.3	Cut out and renew the damaged area of radius plate at outboard end	1 lump sum	Yes	
3.7.4	Cut out and renew the two (2) units of 6 inch size tubular stays at out board end.	1 lump sum	Yes	
3.7.5	Repair or replace rusted and damaged top guard pipe.	1 lump sum	Yes	
3.7.6	Cut out and renew any other corroded structural member. Remove existing and fabricate new hawser handling davit.	1 lump sum	Yes	
3.7.7	Repair or replace of the damaged frame pipe.	1 lump sum	Yes	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF LUMPSUM ITEMS RELATED TO APPENDIX B

Item no.	Description	Scope	Scope Completed	Remarks
3.7.8	Repair or replace the corroded solar panel steel cage	1 lump sum	Yes	
3.7.9	Grit-blast the entire structure of SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A.	1 lump sum	Yes	
3.7.10	Remove existing and install new mooring pad-eye bushings with interference fit.	1 lump sum	Yes	
3.7.11	Remove existing and install new bushings at hinge connector	1 lump sum	Yes	
3.7.12	Install two (2) reconditioned wheel assemblies complete with new bolting	1 lump sum	Yes	
3.7.13	Install new timber decking. Allow for 1) 24" x 6" x 1", 2) 15" x 6" x 3", and 3) 36" x 3" x 3".	1 lump sum	Yes	
3.8	**Calm Buoy Balance Arm**			
3.8.3	Perform ultrasonic and/or magnetic particles inspection at wheel mounting structure	1 lump sum	Yes	
3.8.4	Remove the existing two (2) wheel assemblies, clean up the mounting face, and recondition assemblies with new wheels, bearings and seals	1 lump sum	Yes	
3.8.5	Remove the sheave clamps, pins and replace bushings on the chain tensioning sheave assembly.	1 lump sum	Yes	
3.8.6	Repair or replace of the damaged frame pipe.	1 lump sum	Yes	
3.8.7	Grit-blast the entire balance arm structure to SA 2.5 and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A	1 lump sum	Yes	
3.8.8	Remove existing and install new bushings at hinge connections with interference fit (0.002 inch).	1 lump sum	Yes	
3.8.9	Install two (2) reconditioned wheel assemblies complete with new bolting.	1 lump sum	Yes	
3.8.10	Install the sheave assembly complete with new sheave pin, Teflon bushings and fastening bolts.	1 lump sum	Yes	
3.8.11	Install the chain tensioning winch.	1 lump sum	Yes	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF LUMPSUM ITEMS RELATED TO APPENDIX B

Item no.	Description	Scope	Scope Completed	Remarks
3.8.12	Install two lengths of rubber fenders at boat landing beams with new retaining bars with stainless steel bolts.	1 lump sum	Yes	
3.9	**Calm Buoy Anti-Fouling Gear**			
3.9.1	Replace any damaged anti-fouling tubulars, live bolted connections, mounting bases and the two panels of expanded metal shield with new ones and replace all bolts and nuts with stainless steel bolts and nuts on all connections of mounting pads.	1 lump sum	Yes	
3.9.2	Fabricate and fit bird-deterrent device on tubulars consisting of 15 cm high metal vertical spikes spaced 20 cm apart strung with piano wire on the top.	1 lump sum	Yes	
3.10	**Calm Buoy Telemetry System**			
3.10.1	Inspect all the components (including but not limited to antenna, cable, brackets) of the Buoy Remote Telemetry Unit (RTU) and replace any defective component (free issue) if required.	1 lump sum	Yes	
3.10.2	Test the Buoy RTU in the dry dock and at original offshore location to confirm data transmitted from the Buoy RTU is received by MPB Control Room.	1 lump sum	Yes	
3.11	**Calm Buoy Surge Protection System**			
3.11.1	Inspect all the components of surge protection instruments (pressure transmitter, pressure/ temperature gauge, cable, cable glands, barriers and fuse) and replace any defective component (free issue by QP) if required.	1 lump sum	Yes	
3.11.2	Perform pressure transmitters calibration and generate calibration report with certificates of master/test equipment used for calibration work.	1 lump sum	Yes	
3.11.3	Perform surge protection instruments communication/interface test at original pfshore location to confirm instruments signal transmission to Buoy RTU and MPB control room.	1 lump sum	Yes	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF LUMPSUM ITEMS RELATED TO APPENDIX B

Item no.	Description	Scope	Scope Completed	Remarks
3.12	**Calm Buoy Navaids Equipment**			
3.12.1	Attach all electrical cables properly. Install earth cable for the navigation light and solar panel. Carry out tagging of the electrical cables.	1 lump sum	Yes	
3.12.2	Replace the fog horn including the new frame support.	1 lump sum	Yes	
3.13	**Calm Buoy Safety Equipment**			
3.13.1	Supply and install new portable fire extinguishers complete set with box.	2 no.	Yes	
3.13.2	Supply and install new warning information panel.	1 no.	Yes	
3.13.3	Supply and install new life buoys with mounting bracket, as required.	2 no.	Yes	
3.14	**Calm Buoy PAINTING**			
3.14.1	Grit-blast all external and accessible internal surfaces of the buoy body, the rotating arm and all associated structure to SA 2.5, and paint as per IMODCO Painting Specification appended as Attachment 2 to Appendix A or QP Specification for Painting and Wrapping of Metal Surfaces (New Construction & Maintenance) (QP-SPC-L-002-Rev 2) appended as Attachment 5 to Appendix A, whichever is more stringent.	1 lump sum	Yes	

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GC21101600 Dry Dock Repair on SPM Buoy at Mesaieed

DESCRIPTION OF LUMPSUM ITEMS RELATED TO APPENDIX B

Item no.	Description	Scope	Scope Completed	Remarks
3.15	**Calm Buoy Buoy Assembly**			
3.15.1	Reinstall and activate the navigation light, batteries, wiring and other ancillary equipment	1 lump sum	Yes	
3.15.2	Reassemble the entire rotating assembly and lift-off all arms to the buoy.	1 lump sum	Yes	
3.15.3	Reassemble all SPM arms and its accessories.	1 lump sum	Yes	
3.16	**Calm Buoy Testing**			
3.16.1	Conduct hull / buoyancy tank watertight integrity test in accordance with Clause 2 of Attachment 3 to Appendix A	1 lump sum	Yes	
3.16.2	Conduct hydraulic test to MPDU piping system.	1 lump sum	Yes	
3.16.3	Conduct 'rotation test'.	1 lump sum	Yes	
3.16.4	Conduct test of the navigation light .	1 lump sum	Yes	
3.16.5	Check that all compartments are dry and check that all hatches and penetrations are closed and secured. Hose test all manholes and hatches according to classification requirements	1 lump sum	Yes	
3.16.6	Lauch Buoy and conduct balance test in accordance with clause 7 of attachment 3 to Appendix A	1 lump sum	Yes	
3.16.8	Conduct test of the Bilge pump system	1 lump sum	Yes	
SIGN		For IMP		
NAME	PREPARED BY -MILAHA (MR.ANTO)	VERIFIED BY IMODCO SITE SUP (MR. MARVIN)	AUTHORIZED BY QP (MR. SARFRAZ)	

قطر للبترول
Qatar Petroleum

FORM OF AGREEMENT

CONTRACT NO. : **GC21101600**

CONTRACT TITLE : **DRY DOCK REPAIR ON SPM BUOY AT MESAIEED**

DIRECTORATE/ DEPARTMENT : **INDUSTRIAL CITIES/ INDUSTRIAL CITIES OPERATIONS (MIC)**

This CONTRACT is made by and between QATAR PETROLEUM, P.O. Box 3212, Doha, State of Qatar (hereinafter called QP)

and

M/s. Qatar Navigation (QPSC), established under the laws of Qatar with Commercial Registration No. 1, having its registered office at Building No.149, Street No.523, Zone No.56, P.O. Box No. 153, Doha, Qatar (hereinafter called CONTRACTOR).

QP and CONTRACTOR (hereinafter referred to as the PARTIES) agree as follows:

(1) This CONTRACT, comprises this Form of Agreement, the attached General Conditions of Contract and the Appendices thereto, and embodies the entire agreement between the PARTIES.

(2) In this Form of Agreement all capitalized words and expressions shall have the same meanings as are assigned to them in the General Conditions of Contract.

(3) In consideration of CONTRACTOR performing the SERVICES in accordance with the CONTRACT, QP shall pay CONTRACTOR the estimated CONTRACT PRICE, viz **Qatari Riyals Six Million Nine Hundred Thirty Seven Thousand Two Hundred Three and Dirhams Seventy (QR. 6,937,203.70),** comprising a fixed lump sum portion and a re-measurement portion as specified in Appendix B.

(4) The CONTRACT shall be deemed to have come into force on **10/03/2021**, which date shall be the EFFECTIVE DATE of the CONTRACT.

(5) CONTRACTOR shall achieve COMPLETION by the SCHEDULED COMPLETION DATE, which is **09/06/2021.**

IN WITNESS WHEREOF, the PARTIES have executed this CONTRACT in duplicate on the dates stated below.

FOR QP:

Signature :
Name for : **ABDULAZIZ J. AL-MUFTAH**
Title : **EXECUTIVE VP, INDUSTRIAL CITIES**
Date : 14 July 2021

قطر للبترول
Qatar Petroleum

DULY AUTHORIZED FOR CONTRACTOR:

Signature :
Name : ABDULRAHMAN ESSA AL TAMIMI
Title : PRESIDENT & CEO
Date : 04/07/2021

MILAHA

QNB

Ref: CCS/099/20
Date: 25/02/2020

TO WHOM IT MAY CONCERN

This is to certify that **QATAR NAVIGATION (Q.S.C.)** is one of our valuable customers and maintains the following satisfactory account with Qatar National Bank Q.P.S.C.

Beneficiary Name	**QATAR NAVIGATION (Q.S.C.)**
A/C NO	**0013-000309-060**
IBAN	**QA75 QNBA 0000 0000 0013 0003 0906 0**
Swift Code No	**QNBAQAQA**
Branch Address	**Corporate Branch, P.O. Box 1000, Doha - Qatar**
Currency	**QAR**

This certificate is issued at the request of our customer without any responsibility or engagement on our part.

Thanking You.

Qatar National Bank Q.P.S.C.
Head Office - Corporate Branch
Corporate Banking

QNB
2
Main Branch Corporate

Qatar National Bank (Q.P.S.C.)
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فاكس: ٤٤٤١٣٧٥٣ (٩٧٤+)
بنك قطر الوطني (ش.م.ع.ق)
ص.ب. ١٠٠٠، الدوحة، قطر
Authorized & Paid Capital: QAR 9.2 billion
CR Number: 21
رقم السجل التجاري: ٢١
رأس المال المصرح والمدفوع: ٩.٢ مليار ر.ق
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