Marine & Technical Services
Maritime & Logistics
Gas & Petrochem
Offshore Marine
Capital

To,
Qatar Petroleum
Finance & Planning Directorate
PO Box 70, Doha, Qatar

CONTRACT NO: **GC 21101600**
CONTRACT TITLE: **DRYDOCK REPAIR ON SPM BUOY AT MESAIEED**
CONTRACTOR: **QATAR NAVIGATION Q.P.S.C**

Please find attached our invoice (Invoice no SFWK/INV/012920-1/2021) and supporting documents for the drydocking works carried out for the SPM Buoy at Mesaieed from 10.03.2021 to 09.06.2021.

Separate invoices for the variation of woks carried out shall be sent to you later after getting approval from QP.

Hoping the above to your satisfaction, we remain,

Your sincerely,

Patryk Ryszard Michalak 29/9/2021
Manger – Sales and Marketing
Milaha Shipyard

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QATAR NAVIGATION Q.P.S.C
SHIP REPAIR AND FABRICATION DIVISION
INVOICE

Client: Qatar Petroleum, PO Box 3212,Doha
Qatar Navigation Ref : 21-011113

Part 1	
1.1	Invoice Number: **SFWK/INV/012920-1/2021** 1.2 Date: **22.09.2021**
1.3	Vendor Number: **101921** 1.4 Invoice Currency: **Qatari Riyals**
1.5	Contract No : **GC 21101600**
1.6	Period of work done / invoiced: **From 10.03.2021** End: **09.06.2021**
1.7	Contract Title: **Drydock Repair on SPM Buoy at Mesaieed**
1.8	Release Order No(s): **GC21101601/00001**
1.9	Service Entry Sheet No(s) : **9211050741**
Part 2	
2.1	Original Contract Value : **QRs 6,937,203.70**
2.2	Variations, if any (+/-) : **Variation request under QP review**
2.3	Current Contract Value : **To be provided upon variation approval.**
Part 3	
3.1	Total Advance Paid: **Nil**
3.2	Advance recovered till last invoice : **Nil**
3.3	Balance advance to be recovered as of date : **Nil**
Part 4	
4.1	Cumulative Value of work done / Invoiced as of date : **Nil**
4.2	Less: Value of work done up to last invoice : **Nil**
4.3	Gross value of work done as per this invoice : **QRs 6,243,163.27**
Part 5	
5.1	Gross Value of work done as per this invoice : **QRs 6,243,163.27**
5.2	Less Advance : Nil
5.3	Less: Liquidated Damages as per this invoice : **Nil**
5.4	Less: Other Recovery as per this invoice : **Nil**
5.5	Net amount claimed as per this Invoice : **QRs 6,243,163.27**
5.6	Amount in words : **Qatari Riyals Six Million Two Hundred Forty Three Thousand One Hundred Sixty Three & 27/100 Only**

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Part 6	**Bank Details for Payments:** Account Number: **0013-000309-060** Currency: **Qatari Riyals** Account Name: **Qatar Navigation** Bank Name: **Qatar National Bank Q.P.S.C** **Branch & Address: Corporate Branch, PO Box 1000, Doha – Qatar** IBAN No: **QA75 QNBA 0000 0000 0013 0003 09060** Swift code: **QNBAQAQA**
Part 7	Declaration: We confirm the following: i. The bank account details mentioned in the invoice submitted to QP is already registered with QP (via the Vendor e-Registration system). ii. QP shall not be held responsible in case of payments to our other bank accounts if the correct bank account information is not mentioned or no bank details are mentioned in the invoice. Authorized Signature: Name of Authorized Signatory: **Dario Arcella** Designation: **Vice President – Milaha Shipyard** Company Seal: S & F

SCHEDULE OF PRICES FOR COMPLETED JOBS - AS PER CONTRACT

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

Ref No: sfwk-inv-012920-1-2021
Date: 23-09-2021
Invoice Currency: Qatari Riyals

Contractor: Qatar Navigation QPSC
SAP ID No: 101921

Service entry sheet No: 9211050741
Release Order No./Item : GC 21101601/00001

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
3.2.4	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
3.2.16	Remove, inspect 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 ¾" 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 integrityto 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

S. No.	Description	Qty	Unit	Unit Rate	Amount (QRs)
	Surge Protection System				
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 Navalds 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
3.16.8	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				**6,243,163.27**

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Qatar Petroleum

SERVICE ENTRY SHEET

ENTRY SHEET NO	: 9211050741
ENTRY SHEET DATE	: 16.09.2021
RELEASE ORDER NO / ITEM	: GC21101601 / 00001
RELEASE ORDER DATE	: 13.09.2021

Contractor Code	Contractor Name	Currency	Est.Start Date	Est.End Date	Act.Start Date	Act.End Date
101921	QATAR NAVIGATION	QAR	10.03.2021	09.06.2021	10.03.2021	09.06.2021

Ref. Cont.	Ref. Item	Entry Sheet Title	Plant	Department	Work Location
GC21101600	00001	DRY DOCK REPAIR ON SPM BUOY AT	Mesaieed Industrial City	INDUSTRIAL CITY	

Serv. Item	RO Serv. Item	G/L Acct / Project	Service No	Service Description	Unit	Rate	Per Unit	Act.Qty	Act.Cost	Ext.Serv.No
10	SCH 1/10	638030 / C930/1703/M/2400-001		Provision of Performance Bond	LS	469.85	1	1.000	469.85	1.1
20	SCH 1/20	638030 / C930/1703/M/2400-001		Mobilization of CONTRACTOR's resources.	LS	407,202.50	1	1.000	407,202.50	1.2
30	SCH 1/30	638030 / C930/1703/M/2400-001		Demobilization of CONTRACTOR's resources	LS	271,468.34	1	1.000	271,468.34	1.3
40	SCH 1/40	638030 / C930/1703/M/2400-001		Provide the services of an IMODCO Engine	LS	2,710,311.04	1	1.000	2,710,311.04	2.1
50	SCH 1/50	638030 / C930/1703/M/2400-001		Carry out condition survey to determine	LS	525,679.26	1	1.000	525,679.26	2.3
60	SCH 1/60	638030 / C930/1703/M/2400-001		Water flush with cleaning / emulsifying	LS	9,166.83	1	1.000	9,166.83	3.1.1
70	SCH 1/70	638030 / C930/1703/M/2400-001		Open all compartments (i.e., watertight	LS	14,759.85	1	1.000	14,759.85	3.1.2
80	SCH 1/80	638030 / C930/1703/M/2400-001		Deactivate and remove the navigation lig	LS	22,235.27	1	1.000	22,235.27	3.1.3
90	SCH 1/90	638030 / C930/1703/M/2400-001		Disassemble the entire rotating assembly	LS	69,119.37	1	1.000	69,119.37	3.1.4
100	SCH 1/100	638030 / C930/1703/M/2400-001		Disassemble all SPM arms and its accesso	LS	36,996.06	1	1.000	36,996.06	3.1.5
110	SCH 1/110	638030 / C930/1703/M/2400-001		Perform ultrasonic thickness gauging, ar	LS	7,683.52	1	1.000	7,683.52	3.2.2

Person Responsible	AHMED ABDULLA MOHD ALJAMMAL,IOM/2(M)	Issued By	
Approved By	ABDULAZIZ JASSIM MOHD AL-MUFTAH,VI	Contractor Signature	

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Qatar Petroleum

SERVICE ENTRY SHEET

ENTRY SHEET NO	: 9211050741
ENTRY SHEET DATE	: 16.09.2021
RELEASE ORDER NO / ITEM	: GC21101601 / 00001
RELEASE ORDER DATE	: 13.09.2021

Serv. Item	RO Serv. Item	G/L Acct / Project	Service No	Service Description	Unit	Rate	Per Unit	Act.Qty	Act.Cost	Ext.Serv.No
120	SCH 1/130	638030 / C930/1703/M/2400-001		Replace all damaged buoy body fende	LS	22,567.84	1	1.000	22,567.84	3.2.4
130	SCH 1/140	638030 / C930/1703/M/2400-001		Replace any corroded or damaged skirt pl	M2	6,411.81	1	1.000	6,411.81	3.2.7
140	SCH 1/150	638030 / C930/1703/M/2400-001		Replace all anodes, mounting brackets	NO	282.12	1	21	5,924.52	3.2.8
150	SCH 1/160	638030 / C930/1703/M/2400-001		Replace all chain locker covers (6 nos.)	LS	10,502.84	1	1.000	10,502.84	3.2.11
160	SCH 1/170	638030 / C930/1703/M/2400-001		Replace the cover plate of submarine hos	NO	1,781.68	1	1	1,781.68	3.2.12
170	SCH 1/180	638030 / C930/1703/M/2400-001		Install twelve (12) new pad eyes at the	LS	7,061.13	1	1.000	7,061.13	3.2.13
180	SCH 1/190	638030 / C930/1703/M/2400-001		Replace two (2) units of watertight deck	LS	28,613.18	1	1.000	28,613.18	3.2.14
190	SCH 1/210	638030 / C930/1703/M/2400-001		Remove, inspect and reinstall or replace	NO	15,571.01	1	3	46,713.03	3.2.16
200	SCH 1/220	638030 / C930/1703/M/2400-001		Remove and plugged off all twelve (12) p	LS	9,781.62	1	1.000	9,781.62	3.3.1
210	SCH 1/230	638030 / C930/1703/M/2400-001		Overhaul or replace bilge pump including	LS	10,175.01	1	1.000	10,175.01	3.3.2
220	SCH 1/240	638030 / C930/1703/M/2400-001		Re-condition the dogs, glands, rubber pa	LS	6,129.91	1	1.000	6,129.91	3.4.1
230	SCH 1/250	638030 / C930/1703/M/2400-001		Dismantle and remove six (6) connections	LS	14,524.19	1	1.000	14,524.19	3.4.2
240	SCH 1/260	638030 / C930/1703/M/2400-001		Dismantle and remove three (3) connectio	LS	5,785.93	1	1.000	5,785.93	3.4.3
250	SCH 1/270	638030 / C930/1703/M/2400-001		Inspect the faces of all pipe flanges to	LS	5,097.01	1	1.000	5,097.01	3.4.4
260	SCH 1/280	638030 /		Replacement of two (2) units of 24 inch	LS	35,061.40	1	1.000	35,061.40	3.4.7

Person Responsible	AHMED ABDULLA MOHD ALJAMMAL,IOM/2(M)	Issued By	
Approved By	ABDULAZIZ JASSIM MOHD AL-MUFTAH,VI	Contractor Signature	

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Qatar Petroleum

SERVICE ENTRY SHEET

ENTRY SHEET NO	: 9211050741
ENTRY SHEET DATE	: 16.09.2021
RELEASE ORDER NO / ITEM	: GC21101601 / 00001
RELEASE ORDER DATE	: 13.09.2021

Serv. Item	RO Serv. Item	G/L Acct / Project	Service No	Service Description	Unit	Rate	Per Unit	Act.Qty	Act.Cost	Ext.Serv.No
		C930/1703/M/2400-001								
270	SCH 1/290	638030 / C930/1703/M/2400-001		Dismantle and remove all under-buoy hose	LS	12,902.16	1	1.000	12,902.16	3.4.8
280	SCH 1/300	638030 / C930/1703/M/2400-001		Perform ultrasonic flaw detection an	LS	5,822.03	1	1.000	5,822.03	3.4.11
290	SCH 1/310	638030 / C930/1703/M/2400-001		Remove the MPDU from the buoy and transp	LS	22,349.29	1	1.000	22,349.29	3.5.1
300	SCH 1/320	638030 / C930/1703/M/2400-001		Disassemble the MPDU, grit-blast and pai	LS	17,127.81	1	1.000	17,127.81	3.5.2
310	SCH 1/330	638030 / C930/1703/M/2400-001		Reassemble the MPDU with new top and bo	LS	14,970.80	1	1.000	14,970.80	3.5.3
320	SCH 1/340	638030 / C930/1703/M/2400-001		Remove the existing bushing of hinges on	LS	27,662.00	1	1.000	27,662.00	3.5.4
330	SCH 1/350	638030 / C930/1703/M/2400-001		After the completion of the above works,	LS	11,163.24	1	1.000	11,163.24	3.5.5
340	SCH 1/360	638030 / C930/1703/M/2400-001		Re-install the overhauled MPDU to the bu	LS	28,332.86	1	1.000	28,332.86	3.5.6
350	SCH 1/370	638030 / C930/1703/M/2400-001		Remove and refit pipe spools, valves, ne	LS	25,011.82	1	1.000	25,011.82	3.6.1
360	SCH 1/380	638030 / C930/1703/M/2400-001		Replace or repair all corroded plating.	M2	6,101.30	1	6.000	36,607.80	3.6.2
370	SCH 1/390	638030 / C930/1703/M/2400-001		Replacement of two (2) units of 24 inch	LS	34,815.30	1	1.000	34,815.30	3.6.4
380	SCH 1/400	638030 / C930/1703/M/2400-001		Remove damaged ladder and sacrifical ano	LS	2,974.20	1	1.000	2,974.20	3.6.5
390	SCH 1/410	638030 / C930/1703/M/2400-001		Remove two (2) wheel assemblies and clea	LS	13,590.12	1	1.000	13,590.12	3.6.6
400	SCH 1/420	638030 / C930/1703/M/2400-001		Perform magnetic particles inspection	LS	3,618.46	1	1.000	3,618.46	3.6.7

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410	SCH 1/430	638030 / C930/1703/M/2400-001		Repair weld failures and perform magneti	M	5,975.01	1	1.000	5,975.01	3.6.8
420	SCH 1/440	638030 / C930/1703/M/2400-001		Inspect the faces of all pipe flanges to	LS	2,584.61	1	1.000	2,584.61	3.6.9
430	SCH 1/450	638030 / C930/1703/M/2400-001		Machining work on the deteriorated flang	NO	10,896.70	1	6	65,380.20	3.6.10
440	SCH 1/460	638030 / C930/1703/M/2400-001		Replacement of deteriorated flange which	NO	22,608.23	1	10	226,082.30	3.6.11
450	SCH 1/470	638030 / C930/1703/M/2400-001		Install new access ladders to the outboa	LS	12,428.94	1	1.000	12,428.94	3.6.12
460	SCH 1/480	638030 / C930/1703/M/2400-001		Remove existing and install new hinge bu	LS	9,029.99	1	1.000	9,029.99	3.6.14
470	SCH 1/490	638030 / C930/1703/M/2400-001		Install reconditioned wheel assemblies w	LS	3,726.78	1	1.000	3,726.78	3.6.15
480	SCH 1/500	638030 / C930/1703/M/2400-001		Perform ultrasonic and/or magnetic parti	LS	3,115.79	1	1.000	3,115.79	3.7.1
490	SCH 1/510	638030 / C930/1703/M/2400-001		Remove two (2) wheel assemblies and clea	LS	13,739.31	1	1.000	13,739.31	3.7.2
500	SCH 1/520	638030 / C930/1703/M/2400-001		Cut out and renew the damaged area of ra	LS	15,462.06	1	1.000	15,462.06	3.7.3
510	SCH 1/530	638030 / C930/1703/M/2400-001		Cut out and renew the two (2) units of 6	LS	9,651.44	1	1.000	9,651.44	3.7.4
520	SCH 1/540	638030 / C930/1703/M/2400-001		Repair or replace rusted and damaged top	LS	31,257.66	1	1.000	31,257.66	3.7.5
530	SCH 1/550	638030 / C930/1703/M/2400-001		Cut out and renew any other corroded str	LS	9,923.20	1	1.000	9,923.20	3.7.6
540	SCH 1/560	638030 / C930/1703/M/2400-001		Repair or replace of the damaged frame p	LS	31,257.66	1	1.000	31,257.66	3.7.7
550	SCH 1/570	638030 /		Repair or replace the corroded solar pan	LS	15,190.30	1	1.000	15,190.30	3.7.8

Person Responsible	AHMED ABDULLA MOHD ALJAMMAL,IOM/2(M)	Issued By	
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		C930/1703/M/2400-001								
560	SCH 1/580	638030 / C930/1703/M/2400-001		Remove existing and install new mooring	LS	5,762.16	1	1.000	5,762.16	3.7.10
570	SCH 1/590	638030 / C930/1703/M/2400-001		Remove existing and install new bushings	LS	9,180.13	1	1.000	9,180.13	3.7.11
580	SCH 1/600	638030 / C930/1703/M/2400-001		Install two (2) reconditioned wheel a	LS	3,876.92	1	1.000	3,876.92	3.7.12
590	SCH 1/610	638030 / C930/1703/M/2400-001		Install new timber decking. Allow for 1)	LS	17,202.87	1	1.000	17,202.87	3.7.13
600	SCH 1/620	638030 / C930/1703/M/2400-001		Renew any corroded or damaged plating on	M2	627.47	1	52.470	32,923.35	3.8.1
610	SCH 1/630	638030 / C930/1703/M/2400-001		Replace existing divers ladder with new	NO	8,667.95	1	1	8,667.95	3.8.2
620	SCH 1/640	638030 / C930/1703/M/2400-001		Perform ultrasonic and/or magnetic p	LS	2,367.96	1	1.000	2,367.96	3.8.3
630	SCH 1/650	638030 / C930/1703/M/2400-001		Remove the existing two (2) wheel assemb	LS	5,686.15	1	1.000	5,686.15	3.8.4
640	SCH 1/660	638030 / C930/1703/M/2400-001		Remove the sheave clamps, pins and rep	LS	8,731.62	1	1.000	8,731.62	3.8.5
650	SCH 1/670	638030 / C930/1703/M/2400-001		Repair or replace of the damaged frame p	LS	10,616.87	1	1.000	10,616.87	3.8.6
660	SCH 1/680	638030 / C930/1703/M/2400-001		Remove existing and install new	LS	9,248.54	1	1.000	9,248.54	3.8.8
670	SCH 1/690	638030 / C930/1703/M/2400-001		Install two (2) reconditioned wheel a	LS	6,818.81	1	1.000	6,818.81	3.8.9
680	SCH 1/700	638030 / C930/1703/M/2400-001		Install the sheave assembly complete wit	LS	6,247.73	1	1.000	6,247.73	3.8.10
690	SCH 1/710	638030 / C930/1703/M/2400-001		Install the chain tensioning winch.	LS	9,456.64	1	1.000	9,456.64	3.8.11

Person Responsible	AHMED ABDULLA MOHD ALJAMMAL,IOM/2(M)	Issued By	
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Serv. Item	RO Serv. Item	G/L Acct / Project	Service No	Service Description	Unit	Rate	Per Unit	Act.Qty	Act.Cost	Ext.Serv.No
700	SCH 1/720	638030 / C930/1703/M/2400-001		Install two lengths of rubber fenders at	LS	9,094.61	1	1.000	9,094.61	3.8.12
710	SCH 1/730	638030 / C930/1703/M/2400-001		Replace any damaged anti-fouling tubular	LS	31,904.75	1	1.000	31,904.75	3.9.1
720	SCH 1/740	638030 / C930/1703/M/2400-001		Fabricate and fit bird-deterrent device	LS	49,408.85	1	1.000	49,408.85	3.9.2
730	SCH 1/750	638030 / C930/1703/M/2400-001		Inspect all the components (including bu	LS	22,467.12	1	1.000	22,467.12	3.10.1
740	SCH 1/760	638030 / C930/1703/M/2400-001		Test the Buoy RTU in the dry dock and at	LS	19,167.94	1	1.000	19,167.94	3.10.2
750	SCH 1/770	638030 / C930/1703/M/2400-001		Inspect all the components of surge prot	LS	26,496.07	1	1.000	26,496.07	3.11.1
760	SCH 1/780	638030 / C930/1703/M/2400-001		Perform pressure transmitters calibratio	LS	34,111.18	1	1.000	34,111.18	3.11.2
770	SCH 1/790	638030 / C930/1703/M/2400-001		Perform surge protection instruments com	LS	25,194.27	1	1.000	25,194.27	3.11.3
780	SCH 1/800	638030 / C930/1703/M/2400-001		Attach all electrical cables properly. I	LS	22,105.09	1	1.000	22,105.09	3.12.1
790	SCH 1/810	638030 / C930/1703/M/2400-001		Replace the fog horn including the new f	LS	12,169.54	1	1.000	12,169.54	3.12.2
800	SCH 1/820	638030 / C930/1703/M/2400-001		Supply and install new portable fire ext	NO	7,972.39	1	2	15,944.78	3.13.1
810	SCH 1/830	638030 / C930/1703/M/2400-001		Supply and install new warning informati	NO	17,975.41	1	1	17,975.41	3.13.2
820	SCH 1/840	638030 / C930/1703/M/2400-001		Supply and install new life buoys with m	NO	7,410.33	1	2	14,820.66	3.13.3
830	SCH 1/850	638030 / C930/1703/M/2400-001		Grit-blast all external and accessible i	LS	528,605.42	1	1.000	528,605.42	3.14.1
840	SCH 1/860	638030 /		Reinstall and activate the navigation li	LS	25,309.25	1	1.000	25,309.25	3.15.1

Person Responsible	AHMED ABDULLA MOHD ALJAMMAL,IOM/2(M)	Issued By	
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		C930/1703/M/2400-001								
850	SCH 1/870	638030 / C930/1703/M/2400-001		Reassemble the entire rotating assembly	LS	57,227.31	1	1.000	57,227.31	3.15.2
860	SCH 1/880	638030 / C930/1703/M/2400-001		Reassemble all SPM arms and its accessor	LS	37,283.98	1	1.000	37,283.98	3.15.3
870	SCH 1/890	638030 / C930/1703/M/2400-001		Conduct hull / buoyancy tank watertight	LS	14,035.78	1	1.000	14,035.78	3.16.1
880	SCH 1/900	638030 / C930/1703/M/2400-001		Conduct hydraulic test to MPDU piping sy	LS	21,777.26	1	1.000	21,777.26	3.16.2
890	SCH 1/910	638030 / C930/1703/M/2400-001		Conduct 'rotation test' in accordance wi	LS	26,954.08	1	1.000	26,954.08	3.16.3
900	SCH 1/920	638030 / C930/1703/M/2400-001		Conduct test of the navigation light in	LS	6,028.23	1	1.000	6,028.23	3.16.4
910	SCH 1/930	638030 / C930/1703/M/2400-001		Check that all compartments are dry and	LS	17,162.96	1	1.000	17,162.96	3.16.5
920	SCH 1/940	638030 / C930/1703/M/2400-001		Launch buoy and conduct balance test in	LS	57,820.25	1	1.000	57,820.25	3.16.6
930	SCH 1/960	638030 / C930/1703/M/2400-001		Conduct test of the Bilge pump system in	LS	10,334.65	1	1.000	10,334.65	3.16.8

Total Value 6,243,163.27 QAR

CERTIFICATION DETAILS

Total Value of Services Performed	6,243,163.27	QAR
Recoveries for delayed completion	0.00	QAR
Other recoveries	0.00	QAR
Net certified amount after recoveries	6,243,163.27	QAR

REMARKS

LD Recovery Remarks	
Other Recovery Remarks	

Person Responsible	AHMED ABDULLA MOHD ALJAMMAL,IOM/2(M)	Issued By	
Approved By	ABDULAZIZ JASSIM MOHD AL-MUFTAH,VI	Contractor Signature	

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QP APPROVAL			
	Person Responsibe	Released By	Issued By
Name	AHMED ABDULLA MOHD ALJAMMAL,IOM/2(M)	ABDULAZIZ JASSIM MOHD AL-MUFTAH	MUHAMMAD SARFRAZ AHMAD
Position / Ref.Ind	IOM/2(M)	VI	IOM/4(M)
			Signature

Person Responsible	AHMED ABDULLA MOHD ALJAMMAL,IOM/2(M)	Issued By	
Approved By	ABDULAZIZ JASSIM MOHD AL-MUFTAH,VI	Contractor Signature	

JOB STATUS - AS PER CONTRACT

Contract No : GC 21101600
Contract Title : Drydock repair on SPM Buoy at Mesaieed. Date: 23-09-2021

Contractor: Qatar Navigation QPSC
SAP ID No: 101921

Service entry sheet No: 9211050741
Release Order No./Item : GC 21101601/00001

S. No.	Description	Qty	Unit	Status
1	PRELIMINARIES AND GENERAL MATTERS			
1.1	Provision of performance bond	1	Lump sum	100% completed
1.2	Mobilization of contractor resources	1	Lump sum	100% completed
1.3	Demobilization of contractor resources	1	Lump sum	100% completed
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	100% completed
2.3	Carry out condition survey to determine the operational feasibility 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	100% completed
	Overhaul Preparation			
3.1.1	Water flush with cleaning / emulsifying agent and gas-free the MPDU including its associated product piping.	1	Lump sum	100% completed
3.1.2	Open all compartments (i.e., watertight hatches and manholes) and gasfree the respective spaces.	1	Lump sum	100% completed
3.1.3	Deactivate and remove the navigation light, batteries, wiring and other ancillary equipment.	1	Lump sum	100% completed
3.1.4	Disassemble the entire rotating assembly and lift-off all arms from the buoy.	1	Lump sum	100% completed
3.1.5	Disassemble all SPM arms and its accessories before start of the overhauling works.	1	Lump sum	100% completed
	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	100% completed
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	100% completed
3.2.4	Replace all damaged buoy body fenders, attachment clips and fastening bolts.	1	Lump sum	100% completed
3.2.5	Replace any corroded or damaged skirt pipe. (The quantity is remeasured based on actual utlization.)	25	m	cancelled
3.2.6	Replace any corroded or damaged skirt support braces. (The quantity is remeasurable based on actual utlization.)	8	No.	cancelled
3.2.7	Replace any corroded or damaged skirt plating. (The quantity is remeasurable based on actual utlization.)	1	m2	100% completed
3.2.8	Replace all anodes, mounting brackets and fastening bolts. (The quantity is re-measurable based on actual utlization.)	21	No.	100% completed
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.	cancelled
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.	cancelled
3.2.11	Replace all chain locker covers (6 nos.), fasteners, drill and tap new bolt holes and fit new bolts.	1	Lump sum	100% completed
3.2.12	Replace the cover plate of submarine hose pulling tube along with new bolting and gasket.	1	Lump sum	100% completed
3.2.13	Install twelve (12) new pad eyes at the bottom of the hull clockwise to the product piping flanges.	1	Lump sum	100% completed
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	100% completed
3.2.16	Remove, inspect rigid polyurethane foam from compartment within the proximity of any hot work. (The quantity is re-measurable based on actual utlization.	3	No.	100% completed
	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	100% completed
3.3.2	Overhaul or replace bilge pump including replacement of suction and discharge hoses and securing clips and bolting.	1	Lump sum	100% completed
	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	100% completed
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	100% completed
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	100% completed
3.4.4	Inspect the faces of all pipe flanges to determine its sealing integrity to carryout machining or replacement.	1	Lump sum	100% completed
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.	cancelled
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.	cancelled
3.4.7	Replacement of two (2) units of 24 inch and one (1) unit of 16 inch ball valves.	1	Lump sum	100% completed
3.4.8	Dismantle and remove all under-buoy hose spools with direct corresponding flanges.	1	Lump sum	100% completed
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.	cancelled

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S. No.	Description	Qty	Unit	Status
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.	cancelled
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	100% completed
	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	100% completed
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	100% completed
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	100% completed
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	100% completed
3.5.5	After the completion of the above works, stop test the MPDU as per the IMODCO testing requirements.	1	Lump sum	100% completed
3.5.6	Re-install the overhauled MPDU to the buoy deck using new mounting bolts.	1	Lump sum	100% completed
	Calm Buoy Pipe Arm			
3.6.1	Remove and refit pipe spools, valves, new expansion joints and all other removable fittings.	1	Lump sum	100% completed
3.6.2	Replace or repair all corroded plating.	6	m2	100% completed
3.6.3	Replace or repair all corroded product pipe	15	m2	cancelled
3.6.4	Replacement of two (2) units of 24 inch and one (1) unit of 16 inch butterfly valves	1	Lump sum	100% completed
3.6.5	Remove damaged ladder and sacrifical anode at the 16 inch and 24 inch down drop pipes respectivel	1	Lump sum	100% completed
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	100% completed
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	100% completed
3.6.8	Repair weld failures and perform magnetic particles inspection.	1	m	100% completed
3.6.9	Inspect the faces of all pipe flanges to determine its sealing integrity to carryout machining or replacement	1	Lump sum	100% completed
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.	100% completed
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.	100% completed
3.6.12	Install new access ladders to the outboard down drop pipes and a section of the horizontal fairlead tubular.	1	Lump sum	100% completed
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	100% completed
3.6.14	Remove existing and install new hinge bushings with interference fit.	1	Lump sum	100% completed
3.6.15	Install reconditioned wheel assemblies with new bolting.	1	Lump sum	100% completed
	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	100% completed
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	100% completed
3.7.3	Cut out and renew the damaged area of radius plate at outboard end	1	Lump sum	100% completed
3.7.4	Cut out and renew the two (2) units of 6 inch size tubular stays at out board end.	1	Lump sum	100% completed
3.7.5	Repair or replace rusted and damaged top guard pipe.	1	Lump sum	100% completed
3.7.6	Cut out and renew any other corroded structural member. Remove existing and fabricate new hawser handling davit.	1	Lump sum	100% completed
3.7.7	Repair or replace of the damaged frame pipe.	1	Lump sum	100% completed
3.7.8	Repair or replace the corroded solar panel steel cage	1	Lump sum	100% completed
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	100% completed
3.7.10	Remove existing and install new mooring pad-eye bushings with interference fit.	1	Lump sum	100% completed
3.7.11	Remove existing and install new bushings at hinge connector	1	Lump sum	100% completed
3.7.12	Install two (2) reconditioned wheel assemblies complete with new bolting	1	Lump sum	100% completed
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	100% completed
	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	100% completed
3.8.2	Replace existing divers ladder with new ones.	1	No.	100% completed
3.8.3	Perform ultrasonic and/or magnetic particles inspection at wheel mounting structure	1	Lump sum	100% completed
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	100% completed
3.8.5	Remove the sheave clamps, pins and replace bushings on the chain tensioning sheave assembly.	1	Lump sum	100% completed
3.8.6	Repair or replace of the damaged frame pipe.	1	Lump sum	100% completed
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	100% completed
3.8.8	Remove existing and install new bushings at hinge connections with interference fit (0.002 inch).	1	Lump sum	100% completed
3.8.9	Install two (2) reconditioned wheel assemblies complete with new bolting.	1	Lump sum	100% completed
3.8.10	Install the sheave assembly complete with new sheave pin, Teflon bushings and fastening bolts.	1	Lump sum	100% completed
3.8.11	Install the chain tensioning winch.	1	Lump sum	100% completed
3.8.12	Install two lengths of rubber fenders at boat landing beams with new retaining bars with stainless steel bolts.	1	Lump sum	100% completed
	Calm Buoy Anti-Fouling Gear			

S. No.	Description	Qty	Unit	Status
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	100% completed
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	100% completed
	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	100% completed
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	100% completed
	Surge Protection System			
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	100% completed
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	100% completed
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	100% completed
	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	100% completed
3.12.2	Replace the fog horn including the new frame support.	1	Lump sum	100% completed
	Calm Buoy Safety Equipment			
3.13.1	Supply and install new portable fire extinguishers complete set with box.	2	No.	100% completed
3.13.2	Supply and install new warning information panel.	1	No.	100% completed
3.13.3	Supply and install new life buoys with mounting bracket, as required.	2	No.	100% completed
	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	100% completed
	Calm Buoy Buoy Assembly			
3.15.1	Reinstall and activate the navigation light, batteries, wiring and other ancillary equipment	1	Lump sum	100% completed
3.15.2	Reassemble the entire rotating assembly and lift-off all arms to the buoy.	1	Lump sum	100% completed
3.15.3	Reassemble all SPM arms and its accessories.	1	Lump sum	100% completed
	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	100% completed
3.16.2	Conduct hydraulic test to MPDU piping system.	1	Lump sum	100% completed
3.16.3	Conduct 'rotation test'.	1	Lump sum	100% completed
3.16.4	Conduct test of the navigation light .	1	Lump sum	100% completed
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	100% completed
3.16.6	Lauch buoy and conduct balance test in accordance with clause 7 of attachment 3 to Appendix A	1	Lump sum	100% completed
3.16.8	Conduct test of the bilge pump system in accordance with clause 8 of attachment 3 to Appendix A	1	Lump sum	100% completed

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DECLARATION OF SALARY PAYMENT

CONTRACT NO : **GC 21101600**

CONTRACT TITLE : **DRYDOCK REPAIR ON SPM BUOY AT MESAIEED**

CONTRACTOR : **QATAR NAVIGATION Q.P.S.C**

CONTRACTOR hereby declares that all salaries, wages and legitimate entitlements of CONTRACTOR PERSONNEL are fully paid to them in accordance with their respective contracts with CONTRACTOR and the Qatar Labor Law.

Signed: _____

Name: Dario Arcella

Designation: VP Shipyard

Date: 23-09-2021

MILAHA S&F

Glen Silva

From: Mohammed Noufal
Sent: Wednesday, September 22, 2021 12:32 PM
To: Glen Silva
Cc: Roqaya Al Ansari; Payroll Team
Subject: RE: Declaration of Salary Payment - Dry Dock Repair on SPM Buoy at Mesaieed-Submission of Invoice - Qatar Navigation QPSC- Contract No: GC 21101600

Dear Glen,

Confirm that salaries have been processed until August 2021.
From next month, kindly address this email to Payroll Team.

Regards,
Noufal

Mohammed Noufal
Manager - HRMS & Analytics
Human Resources

T +974 44949730, M +974 55037024
HQ, Zone D, Floor 1, Milaha, Doha, Qatar
Follow us on our social media channels:
Visit our website: www.milaha.com

From: Glen Silva <GSilva@Milaha.com>
Sent: Wednesday, September 22, 2021 12:21 PM
To: Mohammed Noufal <MNoufal@Milaha.com>
Cc: Roqaya Al Ansari <RAlAnsari@Milaha.com>
Subject: FW: Declaration of Salary Payment - Dry Dock Repair on SPM Buoy at Mesaieed-Submission of Invoice - Qatar Navigation QPSC- Contract No: GC 21101600

Dear Noufal,

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:		**DULY AUTHORIZED FOR CONTRACTOR:**	
Signature	:	Signature	:
Name For	: **ABDULAZIZ J. AL-MUFTAH**	Name	: ABDULHAKIM ESSA AL KUWARI
Title	: **EXECUTIVE VP, INDUSTRIAL CITIES**	Title	: PRESIDENT & CEO
Date	: 19 July 2021	Date	: 04/07/2021

قطر للبترول
Qatar Petroleum

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

Qatar National Bank (Q.P.S.C.)
P.O. Box 1000, Doha, Qatar
Tel: (+974) 4440 7407
Fax: (+974) 4441 3753
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بنك قطر الوطني (ش.م.ع.ق)
ص.ب. ١٠٠٠، الدوحة، قطر
qnb.com