

## QATAR NAVIGATION (QPSC)

## SHIP REPAIR &amp; FABRICATION

## Telephones

Office : 4771690 / 4771695

Fax : 4771687



## INVOICE

Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBAQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/013026/2021

DATE: 31/10/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011220 / 1

W/O REF: MDO21180

Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
1100	<p>BERTH PREPARATION, DOCKING AND UNDOCKING:-</p> <p>Standard berth prepared in floating dock, docking and undocking operation carried out.</p> <p>As per our quotation EM 15857 Revised, item no 1.01</p>	16,000.00
1102	<p>DOCK HIRE, WHARFAGE CHARGES AND SERVICES:-</p> <p>Wharfage charges from 29/July/2021 to 6/08/2021 and 17/08/2021 to 21/09/2021.</p> <p>Dock hired from 7th August to 16th August 2021</p> <p>Fire and safety watch provided.</p> <p>One no fire line connected and disconnection on completion of works.</p> <p>2 nos sea water cooling line connected and later disconnected.</p> <p>Shore power connected on 07.08.2021 and disconnected on 14.09.2021</p> <p>Galley garbage skip provided.</p> <p>QRs 3030 per day x 55 days = QRs 166,650.00</p> <p>Based on our quotation EM 15857 Revised, item no 1.01.2</p>	166,650.00
1152	<p>INSULATION WORKS:-</p> <p>Port and stbd. main engine exhaust pipes insulation and cladding work carried out by specialist subcontractor.</p> <p>QRs 18,141.00</p> <p>Scaffolding erected and removed for insulation work: QRs 2,625.00</p>	20,766.00

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Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
	As per our quotation EM 15857 F.	
1153	SERVICE OF RIGGERS/SCAFFOLDERS:-  Normal time as per signed timesheets: QRs 80 per hour x 43 hours = QRs 3,440.00	3,440.00
1154	MPI & VACCUM TEST:-  Carry out MPI test by shipyard QC - 2 locations Carry out vacuum test by shipyard QC - 2 locations  QRs 1,250.00 As per our quotation EM 15857 B, item no 2  Carried out UT gauging - 114 spots  QRs 11 x 114 spots = QRs 1,254.00	2,504.00
1155	DISPOSAL OF DIRTY OIL:-  Dirty oil collected and disposed. Yard Provided dirty oil tanks Disposed oil onshore -- 9.7m3  QRs 6,600.00	6,600.00
1156	SERVICE OF CRANE AND FORKLIFT:-  Crane provided x 8 hours <del>QRs 580 per hour x hours = QRs 4,640.00</del>	4,640.00

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Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
1200	UNDERWATER AREA CLEANING:-  Underwater area of 1,396 square metres (Including Sea Chest, Bow Thruster Tunnel, Azimuth nozzle) treated as follows:  Cleaning and Hand scraping to removed marine growth. H.P. jet washing using fresh water carried out.  As per our quotation EM 15857 Revised, 4.01.01	9,849.00
1201	HULL MARKING:-  Painting done , homeport, draught marks & load line marks with two coats white gloss  As per our quotation EM 15857 Revised, 4.05	3,800.00
1250	STERN ROLLER COMPARTMENT:-  Job cancelled.	
1400	RUDDER WINDOW PLATE WORKS:-  Port Side:- Port side rudder plate fitted, welded, Again cut and removed the window plate for owner's inspection. Refitted new window plate after inspection.  Rudder window plate cut. New plate fabricated and fitted. Size - 420mm 250mm X 12 mm thick. - 01 nos.	4,080.00

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Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
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Rudder pin holding plate - 450mm X 75mm X 08 mm thick - 01 nos. Rudder nut lock plate, fabricated fitted and welded. Size - 150mm X 240mm X 10 mm thick. - 01 nos.

01 nos. hole cut in rudder jumping clamp - 02 nos.

Stbd. side:-

Rudder window plate cut. New plate fabricated and fitted. Size - 420mm 250mm X 12 mm thick. - 01 nos. Rudder pin holding plate - 450mm X 75mm X 08 mm thick - 01 nos.

Rudder nut lock plate, fabricated fitted and welded. Size - 150mm X 240mm X 10 mm thick. - 01 nos. 01 nos. hole cut in rudder jumping clamp - 02 nos. Owner supplied 04 nos. rope cutter replaced.

QRs 5,100.00

1401	SEA CHEST GRIDS:-	8,530.00
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7 nos of sea chest grids are removed for inspection and cleaning, washing. High sea chest area scaffolding done. After high pressure washing client inspected. Sea grids are fitted back on position with locking wire, inspected and witnessed by client.

Speed lock flange removed from the location and cleaned by yard. client arranged specialist fitted back on position. New speed lock flange supplied by client. Witnessed by client.

QRs 6,930.00 + QRs 1600.00 (Scaffolding)

As per our quotation EM 15857 Revised, 2.03.2

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Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
1402	FUEL OIL CARGO PUMP:- Job cancelled.	
1403	EMERGENCY FIRE PUMP:-  Emergency fire pump motor electrical connection disconnected. Removed the pump and motor from vessel and brought to workshop .Dismantled the pump, pump body chemically cleaned and washed, pump inspected by visually and Mechanically . Pump existing spare parts was found damaged (Shaft, Bearing, Mechanical seal bearing housing ), as per the Owner instruction Re assembled pump with owner supplied new spare parts (shaft, bearing, mechanical seal, bearing housing,) motor installed to pump . Pump and motor bring back to vessel and refitted the original position. Witnessed by client .	4,550.00
1404	PME SEA WATER PUMP DISCHARGE PIPE :- Job cancelled.	
1405	ENGINE ROOM STBD SIDE STBD MAIN ENGINE SW PUMP SUCTION VALVE:- Job cancelled.	
1406	ENGINE ROOM PORT GEAR BOX & SHAFT BEARING COOLING LINE V/V:- Job cancelled.	

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Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
1407	<p>INSTALLATION OF SLEEVE AND PINTLE BLUE MATCHING (RUDDER) :-</p> <p>Carry out sleeve installation and pintle blue matching. QRs 1,590.00</p> <p>As per our quotation EM 15857D</p>	1,590.00
1408	<p>PORT &amp; STBD. SIDE RUDDERS GLAND PACKING:-</p> <p>Rudder gland rope removed from stuffing box and packed with new gland rope. Client supplied gland packing fitted (size 22 mm2 x 70 cm x 4 layer per side).</p> <p>QRs 2,640.00</p> <p>As per our quotation EM 15857 Revised, item no 9.11.1</p>	2,640.00
1409	<p>PORT &amp; STBD. SIDE RUDDERS BUSH CLEARANCE:-</p> <p>Rudder (port and Stbd) jumping clamp removed from location. Cement broken after competing the job cementing done. Rudder neck bush clearance and bottom spindle clearance measured and report submitted to client. Jumping clamp fitted back on position. Inspected and Witnessed Yard QC and Client</p> <p>QRs 2,640.00</p> <p>As per our quotation EM 15857 Revised, item no 9.11.2</p>	2,640.00
1410	<p>MANUFACTURE AND FITTING OF PINTLE PIN:-</p> <p>2 Nos. Pintle pin manufactured to size each 135mm dia. x 530mm</p>	9,520.00

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Job No	Description	Line Amount
	long provided with 135mm dia. shank and 250mm long taper portion and one end with M85 x4 thread using Material Grade AISI1040/EN8/SA40) and one No. 10mm dia. stainless steel split pin and pin hole. Port and stbd. Pintle access plate cut removed and later edges are prepared, fitted and welded in position after on completion of pintle pin installation. Both side pintle pins fitted in position. locking welded. Witnessed by client.	
	QRs 9520.00 As per our quotation EM 15857 A , item no 1	
1411	PORKER GAGUGE :-  Port and stbd shaft Poker gauge readings are taken and report submitted to yard QC. QC report submitted to client  QRs 1,800.00 As per our quotation EM 15857 E	1,800.00
1800	RENEWAL OF HULL AND RUDDERS ANODES:-  Total 07 nos. Sacrificial Anodes on hull renewed. Port Side. rudder - 10.5 Kg. - 02 nos. Stbd.. Side. rudder - 10.5 Kg. - 04 nos. Port, FWD. in way of frame # 27 and 26, 10.5 Kg. - 01 nos. QRs 2555.00  Scaffolding arranged for access. - 1M X 2M X 3M. - 03 nos QRs 1200.00	3,755.00
1801	BULWARKS:-	

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Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
	Job cancelled.	
1802	DOUBLER INSTALLATION:-  Engine room holding tank bottom plate petting area cut and renewed. Steel Insert plate size - 300mm X 300 mm X 12 mm thick. 01 nos. 75mm dia. X 10mm thick plate fitted and welded in way of sounding pipe. Build up welding work done in 03 locations. Tank gas freed. Port shaft gear box petting area, damaged steel cut and renewed. Insert plate size - 360mm X 300mm X 12mm thick - 01 nos. Suction pipe pipe doubler plate fitted and welded. Size - 125mm dia. X 10mm thick. - 01 nos. Build up work done in 02 locations. All fit-up and welding tested by Q.C.	7,620.00
1803	STEEL RENEWAL:-  Renewal of steel plate using Grade A steel material or equivalent. 300 mm x 350 mm x 12 mm - 1 no, 600 mm x 600 mm x 12 mm - 1 no Location: Aft under water area .Total 2 locations. Access works: Pipe 1 no remove and refit.  As per our quotation EM 15857 B, item no 1	4,880.00
1804	RUDDER DRAIN PLUG REMOVE & REFIT:(Port & Stbd):-	450.00

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Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
	Rudder drain plug (Port and Stbd.) removed and refit later refitted. Stbd. Side rudder drain plug vacuum tested. 01 nos SS plug manufactured new from 44 H/B total 30mm long with M24 thread 15mm long	
1805	RUDDER PRESSURE TEST:-  Stbd side rudder pressure tested and certificate issued. QRs 1000.00  As per our quotation EM 15857 D, item no 2	1,000.00
2200	DECK WOODS:-  45nos of damaged deck wood are removed. 52 nos of owner supplied wood 49nos new wood installed on board Note: Owner supplied new woods QRs 5880.00  Yard planing the 50 nos wood as per deck size 40mm thickness : Qrs 2000.00	7,880.00
2500	RESLEEVEING OF COVERS:-  Shaft generator NDE and DE cover worn out bearing area repaired with resleeve.	3,500.00
2501	RESLEEVEING OF BT COVER:-  <del>02 nos BT cover DE and NDE worn out bearing area repaired with</del>	2,850.00

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Job No	Description	Line Amount
	resleeve by using Grey cast iron.01 nos thruster bear HSNG not repaired.	
2800	HULL FENDERING:-  40 Nos. ship side damaged tyre fenders removed and fenders fitted using client supplied materials. QRs 8000.00 Supplied D shackles 16 mm - 100 nos . QRs 1550.00 Crane used 2 days for tyre fender installation works: QRs 4,300.00	13,850.00
5600	FIFI Inspection x 1 side (STBD):-  Suction pipes removed. Bellow removed.FIFI pump casing flange removed Suction valve blanked.Carry out inspection and report to be prepared.	3,456.00
5601	ALIGNMENT OF A/C COMPRESSOR MOTOR:-  Carried out A/C Compressor Alignment by laser alignment machine. Alignment report submitted to client .	1,600.00
6000	Job cancelled.	
6001	Job cancelled.	
6002	Job cancelled.	

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Job No	Description	Line Amount
6003	Job cancelled.	
6004	Job cancelled.	
6005	Job cancelled.	
6006	Job cancelled.	
7000	OVERHAULING OF BOW THRUSTER MOTOR:-	20,780.00

LOTO done with help of ship ETO to carry out the jobs. Marked, disconnected power, control cables from BT motor. Removed base bolt of BT motor and shaft coupling bolts disconnected by mechanical team. Motor lifted shifted aside and kept on BT room deck to dismantle. Marked removed coupling by mechanical team. removed thruster bearing and each end covers from motors. Existing bearing removed from both side of rotor shaft and both end covers are cleaned properly for measuring bearing clearance. Both motor end covers checked by machinist and confirmed that both motor both covers clearances are oversize. End covers send to machine shop for re-sleeving. Hatch cover area cut and removed for shifting end covers to workshop. Scaffolding done for cutting and welding jobs. Motor stator winding and parts completely cleaned by electro solvent. After re-sleeving re-assembled end covers as per the marking and mechanical team installed coupling as per original position. Motor shifted to location and installed. Base bolts fitted back by mechanical team. Re-connected electrical cables as per the marking and tested. Run test carried out. found satisfactory. Re-welded hatch cover area.

NOTE: Bearings supplied the owner.

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Job No	Description	Line Amount
7001	ENGINE ROOM SUPPLY FANS 1 & 2:-  LOTO done in order to carry out the jobs. Removed the foundation bolts of blower trunk, disconnected the power supply cable, shifted the blower assembly away from the ventilation duct and brought to workshop. Loosen mushroom bolts from trunk and kept away. Dismantled blower motor fan from rotor shaft & dismantled motor both end covers & draw out rotor from stator body, removed existing ball bearings from rotor shaft. Cleaned the motors winding & motor parts using electrical cleaning solvent, cured inside the temperature control oven and re-varnished the motor windings. Cleaned mushroom & trunk by high pressure fresh water & chemical. Checked motor end covers bearing clearance & NDE cover knurling done. Reassembled the motor. Megger tested; motor winding found satisfactory. Reassembled blower motor fan on shaft & workshop bench tested. Installed wire mesh on mushroom and mushroom refitted on blower trunk and motor with trunk assembly shifted back to vessel. Refit the blowers on yard supplied gasket & foundation bolts, nuts & washers. Reconnect the power cables as per the original marking. Satisfactory running tests carried out.  NOTE: Bearings supplied by owner.  QRs 10,600.00 As per our quotation EM 15857 Revised, item no 5.09	10,600.00
7002	A/C COOLING WATER PUMP MOTOR (2 NOS):-  Job cancelled.	

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W/O NO: 21-011220 / 1

W/O REF: MDO21180

Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
7003	MEGGER TESTING:-  Job identified. All motors megger tested as per ETO instruction and presence. Megger test report submitted to QAQC. QRs 3100.00 As per our quotation EM 15857 Revised, item no 18.09	3,100.00
7004	PORT SIDE SHAFT ALTERNATOR:-  Job identified with chief engineer. alternator power cables, control cables and AVR disconnected from alternator terminal box. Shaft Coupling marked disconnected and shifted aside. Alternator drive coupling with drawn from Gear box. Handrails cut by fabrication section for overhauling of alternator. Alternator lifted from position and shifted aside. Alternator coupling removed by mechanical team. Alternator end covers marked dismantled. Alternator existing drive end and non-drive end bearings removed. All electrical mechanical parts cleaned by using electrical cleaning solvent (using Eletrokleen-D4). End covers bearing clearance calibrated and found oversize. Each end covers shifted to workshop for re-sleeving. Alternator winding heat up heating lamp. Checked value of winding insulation reading noted. After ETO inspection re-assembled the alternator by using owner supplied new bearings. O ring renewed. Alternator boxed up and coupling fitted back. Alternator shifted back to position, aligned with gear box. Alternator alignment carried out with gear box. Taken airgap between stator and rotor. Reading noted and report submitted to QAQC, and Alignment report submitted to QAQC by mechanical team. Chock fast done. Power cables, control cables and monitoring cables AVR re-connected. Close all terminal covers. Run test carried out. found satisfactory. Handrail fitted back in position by fabrication team.	29,830.00

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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Any discrepancy on this document should be notified to us within 3 working days from the receipt of the document.

## QATAR NAVIGATION (QPSC)

## SHIP REPAIR &amp; FABRICATION

## Telephones

Office : 4771690 / 4771695

Fax : 4771687



## INVOICE

Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBAQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/013026/2021

DATE: 31/10/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011220 / 1

W/O REF: MDO21180

Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
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Note: Bearings supplied by the client

QRs 29,080.00

As per our quotation EM 15857 Revised, item no 18.10.10

Access works:

Hand rail remove/refit

QRs 750.00

7005 N.A

7010 N.A

9100 SERVICE OF FABRICATORS AND WELDERS:- 66,616.60

Service of fabricators and welders provided to work under client for various jobs in vessel.

Normal time: QRs 90 per hour x 488.75 hours = QRs 43,987.50

Overtime: QRs 112.5 per hour x 122 hours = QRs 13,725.00

Material/consumables provided as per timesheet:-

QRs 4906.6

Welding machine: QRs 450 per day x 13 days = QRs 5850.00

Grinding set: QRs 70 per day x 24 days = QRs 1680.00

reduction as per timesheet comments: Qrs 90 per hour x 39.25 hours = QRs 3,532.50

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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Page: 15 / 15

900001

SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/013026/2021

DATE: 31/10/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011220 / 1

W/O REF: MDO21180

Vessel Name/Description : M.V. HALUL-23

Job No	Description	Line Amount
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Invoice Amount --&gt; 451,366.60

(QAR - Four Hundred Fifty-One Thousand Three Hundred Sixty-Six And 60/100 Only)

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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