

## 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/012970/2021

DATE: 30/09/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
1100	<p>BERTH PREPARATION, DOCKING AND UNDOCKING:-</p> <p>Berth prepared, vessel docked and later undocked.</p> <p>As per our quotation No. EM 15351, item No.1.01.1.</p>	16,000.00
1101	<p>DOCK HIRE, WHARFAGE CHARGES AND SERVICES:-</p> <p>1) Dock hire and services (Berthing crew, wharfage, fire line, fire and Safety watch, disposal of galley garbage dated from 17-08-2021 and 14-09-2021. shore power (50Hz 160amps), sea water cooling line (A/C) and 1 no. overboard line including connecting and disconnecting.</p> <p>Based on our quotation No. EM 15351, item No.1.01.2.</p> <p>(QRs.3030.00 per day x 29 days = QRs. 87,870.00).</p> <p>2) Alongside services:-</p> <p>2.1) WHARFAGE CHARGES :-</p> <p>Wharfage charges of vessel whilst alongside shipyard's quay dated from 19-06-2021 to 16-08-2021 and dated from 15-09-2021 to 24-09-2021</p> <p>Based on our quotation No. EM 15351, item No.1.05</p> <p>(QRs.909.00 per day x 69 days = QRs. 62,721.00)</p> <p>2.2) FIRE AND SAFETY WATCH :-</p>	192,336.00

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Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	<p>Fire &amp; Safety watch during period of vessel's stay at shipyard dated from 19-06-2021 to 16-08-2021 and dated from 15-09-2021 to 24-09-2021.</p> <p>Based on our quotation No. EM 15351, item No.1.10.</p> <p>(QRs. 330.00 per day x 69 days = QRs. 22,770.00).</p> <p>2.3) GALLEY GARBAGE SKIP:-</p> <p>Providing garbage skip on the jetty, collecting and disposal of galley garbage during period of vessel's stay at shipyard dated from 19-06-2021 to 16-08-2021 and dated from 15-09-2021 to 24-09-2021.</p> <p>(QRs. 275.00 per day x 69 days = QRs. 18,975.00).</p>	
1102	<p>OVERBOARD DISCHARGE (ADDITIONAL LINE):-</p> <p>3 Nos. discharge line connected (Black water line, grey water line one additional cooling line) and later removed.</p> <p>Based on our quotation No. EM 15351 item No. 1.01.3.</p> <p>(QRs. 410.00 per piece x 3 Pieces = QRs. 1,230.00).</p>	1,230.00
1150	<p>SERVICES OF CRANE:-</p> <p>Services of crane and riggers to be provided for offload the material.</p> <p>A) MANPOWER:-</p> <p>A.1) RIGGER:-</p> <p>Normal Time:- QRs. 80.00 per hour x 4 Hours = QRs. 320.00.</p>	1,880.00

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Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	Over Time:- QRs. 80.00 per hour x 1.25 x 4 Hours = QRs. 400.00.	
	Crane:- QRs 580 per hour x 2 Hours = QRs. 1,160.00	
	As per Time sheet Signed by Client on 21-6-2021.	
1151	ASSISTANCE OF TUG:- Job has been cancelled.	
1152	COMPRESSED AIR:- Job has been cancelled.	
1153	CRANE HIRE:- included in Job No. 1150.	
1154	GAS FREE CERTIFICATE & VENTILATION:- Job has been cancelled.	
1155	SUPPLY OF BALLAST WATER:- Job has been cancelled.	
1156	SEWAGE:- Job has been cancelled.	

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Job No	Description	Line Amount
1157	DISPOSAL OF OILY WATER:- Job has been cancelled.	
1158	SCAFFOLDING:- Included in other jobs.	
1159	NDT FOR #3 GEARBOX PARTS:-  Gearbox parts DP test to be carried out onboard vessel and in work shop. Gearbox parts DP test carried out in work shop as per client's instruction.  As per our quotation No. EM 15351 E item No. 1.	2,550.00
1160	NDT FOR #2 GEARBOX PARTS:-  Included in Job No. 1159.	
1161	A) DIRTY LUBE OIL DISPOSAL:-  3.6 Tons dirty lube oil collected from jetty and disposed to shore.  (QRs. 2,200.00).  B) SERVICES OF MANPOWER:- Services of crane and riggers provided for offload the	5,860.00

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Job No	Description	Line Amount
	material.	
	B) MANPOWER:	
	B.1) RIGGER :-	
	Normal Time:- QRs. 80.00 per hour x 9 Hours = QRs. 720.00.	
	Crane Assitance : QRs. 580 per hour x 3 Hours = QRs. 1,740.00.	
	Forklift Assitance : QRs. 400 per hour x 3 hours = QRs. 1,200.00.	
	As per Time sheet Signed by Client on 26-7-2021.	
1162	ENGINE ROOM CEILING PANEL AND INSULATION REMOVAL AND REFIT:-	11,556.00
	Engine room ceiling stainless steel panels and insulation removal and refitting to be carried out by specialist subcontractor.	
	As per our quotation No. EM 15351H Revised, item No.1.	
1163	ARRANGING OF MIC ENTRY GATE PASS:-	
	Job has been cancelled.	
1164	INSULATION REMOVE & REFIT FOR EXHAUST OVER BOARD :- REV.1:-	19,556.00
	New insulation renewed for exhaust overboard pipe.	
	As per our quotation No. EM 15351 J, item No.1.	

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Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
1200	<p>UNDERWATER AREA TREATMENT AND PAINTING:-</p> <p>Underwater area treated and painted as per paint manufacturer's representative's recommendation and your representative's instruction. Total 400m2 Following rates applied:-</p> <p>Hand scraped to remove marine growth 400m2.</p> <p>H.P. jet washed using fresh water.</p> <p>Full Swept Blast SA lusing with garnet 400m2.</p> <p>4 nos water jet unit full power tooling and cleaned.</p> <p>Hosed down with fresh water.</p> <p>Protection covering all andoes and echo sounder.</p> <p>Applied one full coat primer coat, ( Jota coate Alu red tone).</p> <p>Applied full coat of sealer ( Safe Guard UNI Plums).</p> <p>Applied two full coat of antifouling ( sea force active plus light red and dark red).</p> <p>8 Tons used garnet/waste water which mixed with ferrous, paint, oil and chemical, collected, transportated and safe disposed as per Qatar safety envionment regulation in Mesaieed.</p> <p>As per our quotation No. EM 15351, item No.4.01.1.</p>	34,002.00
1201	<p>TOP SIDE AREA TREATMENT AND PAINTING:-</p> <p>Top side area treated and painted as per paint manufacturer's representative's recommendation and your representative's instruction. total area 840m2 Following rates applied:-</p> <p>H.P. jet washing using fresh water.</p> <p>Spot blasted using garnet 10%.</p> <p>Hosed down with fresh water.</p> <p>Applied one t/up primer ( jota cote alu redtone).</p> <p>Applied one t/up top coat orange.</p> <p>Applied one full top coat orange.</p> <p>Applied under water line with top coat white.</p> <p><del>4 Tons used garnet/waste water which mixed with ferrous, paint,</del></p>	30,085.00

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Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	oil and chemical, collected, transported and safe disposed as per Qatar safety environment regulation in Mesaieed.	
	Notes: All paint composition, thinners and tool cleaners supplied by client.	
	As per our quotation No. EM 15351, item No. 4.04.	
1202	HULL MARKING:-  Painting existing name, homeport, draught marks & load line marks with two coats white gloss (owner's supply paint). Painting of existing Rescue Zone, Tank locations and Overboard names with your supplied paint.  As per our quotation No. EM 15351, item No. 4.05.	6,220.00
1203	SEA SUCTION STAINERS BLASTING:-  8 in Nos. sea suction strainer internals to Sweep blasted by yard and hand over to ship staff ( using garnet )  As per our quotation No. EM 15351 N, item No. 3.	3,560.00
1350	PORT & STBD ANCHOR AND CHAINS:-  Anchor chains lowered, ranged and later restowered. Both anchor and chains HP jet washed.  Based on our quotation No. EM 15351 Item no. 2.01.	9,500.00

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Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
1400	SEACHEST, SEASUCTION & OVERBOARD VALVES:-  Main engine sea suction Gear operated wafer type butterfly valve DN125-4nos and After strainer intermediate lever operated wafer type butterfly valve DN125- 4Valves are removed from location and brought to workshop. 3nos of valves found damage and rejected by Client. Other 5-nos valves cleaned, and grease applied for the rubber seats. Gravity test was carried out. 4-nos of valves found ok no leaks and one valve found leak, rejected by client. Yard supplied new valves -3 nos. (lug types DN125) and tested valves - 4 nos. are shifted onboard and fitted on position. Due to unavailability of valves leaked Valve's was fitted as intermediate valves as per client instruction valves bolts are installed with yard supplied isolation covers and Teflon washers. Inspected and witnessed by client and yard QC. DG sea suction gear operated wafer type butterfly valve DN65-2nos and After strainer lever operated butterfly valve DN65-2nos are removed from location and brought to workshop. 2nos of lever operated valves found damage, rejected by client. Other 2nos of valves. No leaks found. witnessed by yard QC and client. Yard supplied new Lug type DN 65 butterfly valves-2nos and tested valves -2nos are shifted onboard and fitted back on position. Bolts are installed with yard supplied isolation covers and Teflon washers as per client instruction. Inspected and witnessed by client and yard QC. AC line suction gear operated wafer type butterfly valve DN65-2nos and After strainer lever operated butterfly valve DN65-2nos are removed from location and brought to workshop. Valves cleaned, and grease applied for the rubber seats. Carried out gravity test for 4nos of valves. No leaks found.	12,890.00

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Job No	Description	Line Amount
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witnessed by yard QC and client. Valves-4nos are shifted onboard and fitted back on position. Bolts are installed with isolation covers and Teflon washers as per client instruction. Inspected and witnessed by client and yard QC.

Sewage line sea water suction Lever operated lug type butterfly valves DN 125-1nos and lever operated wafer type butterfly valves DN 40 -2nos are removed from location and brought to workshop.

Valves cleaned, and grease applied for the rubber seats. Carried out gravity test for 3nos of valves. No leaks found. witnessed by yard QC and client. Valves-3nos are shifted onboard and fitted back on position. Bolts are installed with yard supplied isolation covers and Teflon washers as per client instruction. Inspected and witnessed by client and yard QC.

Hydro jet cooling lever operated wafer type butterfly valve DN40-1no removed from location and brought to workshop. Valve cleaned, and grease applied for the rubber seat. Carried out gravity test. No leaks found witnessed by yard QC and client. Valve shifted to onboard and fitted back on position. Bolts are installed with isolation covers and Teflon washers as per client instruction. Inspected and witnessed by client and yard QC.

Based on our quotation No. EM 15351, item No. 17.01.

1401	SEA CHEST GRIDS:-	9,000.00
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10 nos Sea grits removed for blasting painting cleaning .After the blasting painting cleaning all sea grits are refitted with yard supplied ss washer

Grid Remove refit and painting:- QRs. 55.00 per piece x 10 Nos.

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Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	<p>= QRs. 5,500.00.</p> <p>Grids/chest Blasting:- QRs. 350.00 per piece x 10 Nos. = QRs. 3,500.00.</p>	
1800	<p>EXTERNAL CATHODIC PROTECTION:-</p> <p>Owner supplied 68 nos, bolted type zinc anodes renewed. Scaffolding arranged for access and remove.</p> <p>As per our quotation No. EM 15351, item No. 2.04.</p> <p>Anode R/R:- QRs. 100.00 per piece x 68 pieces = QRs. 6,800.00. Staging:- QRs. 625.00 per location x 2 locations = QRs. 1,250.00.</p>	8,050.00
1801	<p>RUBBER FENDER REPLACEMENT RUBBER FENDER REPLACEMENT:-</p> <p>Removal and refitting of rubber fender size 300mm x 300mm x 1500mm long using your supplied fender, stud bolts and nuts, each fender drilled - 5 Nos. 5 frames cropped &amp; surfaces prepare to weld and new frames fitted and welded to size each 1500 x 160 x 15mm with 05 nos. Dia. 24mm hole on each plate. Crop, fitting and welding of plates 150 x 90 x 20mm - 5 Nos. Double type pad eye cut and new eyes fitted and welded to size each 120 x 80 x 20mm - 07 Nos. 2 Nos. aft tanks manholes opened and later refitted on completion of welding work. Stud bar SS M20 x 8m long and washer M20 - 40 nos., Nut M20 - 40 nos. scaffolding arranged and removed.</p> <p>Based on our quotation No. EM 15351 item No.1 2.05.2 (QRs. 29,125.00 + QRs. 7,542.00 = QRs. 36,667.00.</p>	48,987.00

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Job No	Description	Line Amount
	ADDITIONAL TO QUOTATION:-	
	Aluminium material supplied and following items fabricated. Aluminium frame size 1500 x 160 x 15mm thickness with 05 nos. Dia 24mm hole - 5 Nos. Aluminium plate 150 x 90 x 20mm thickness - 5 Nos. Double type pad eye size 120 x 80 x 20mm - 7 Nos. (QRs. 12,320.00).	
1802	STARBOARD HYDRAULIC PLATFORM STEPS:-  Stbd. Side ladder removed from position by client, shifted to work shop. Hand rail repaired, straightened and rewelded. Damaged hand rail partly renewed. Aluminum pipe 1 1/4" X 150mm long cut and renewed.Steps and rail re-welded.  As per our quotation No. EM 15351 item No. 16.17.1 (QRs. 2,300.00).	2,300.00
1803	REPAIR OF VENT LOUVRE FINS:-  Vent louvre fins removed, shifted to work shop and repaired.10 nos. new aluminum louvre fins fabricated and installed.Size - 400mm long X 80mm width X 6mm thick. - 10 nos.Frame straightened in 1 location  As per our quotation No. EM 15351 item No. 16.17.2.	4,300.00
1804	FITTING OF PAD EYES FOR LIFTING OF WET EXHAUST HOUSING:-  4 Nos. aluminum pad eyes fabricated as per your supplied drawing for suitable for lifting capacity 200 kgs. and welded	4,150.00

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Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	<p>foe 4 Nos. main engine wet exhaust housing. Pad eye size - 15mmx 430mm x 312mm - 04 nos. Insulation work carried out by specialist subcontractor (Included in Job No. 1164).</p> <p>As per our quotation No. EM 15351 item No. 21.02. (QRs. 2,400.00).</p> <p>Additional to quotation:-</p> <p>2 Nos. scaffolding arranged in engine room for pad eye installation work. (QRs. 875.00 x 2 Nos. QRs. 1,750.00).</p>	
1805	<p>PORT AND STBD. LIFERAFT FRAME MODIFICATION:-</p> <p>4 Nos. port and stbd. liferaft frames out board shackle pad eyes cut removed degree turned and welded .4 Nos. port and stbd. liferaft frames in board shackle pad eyes cut removed degree turned approx. 45 degree and welded . All pad eyes DP tested and report issued.</p> <p>As per our quotation No. EM 15351 item No.21.04 (QRs. 2,750.00).</p> <p>Additional to quotation:-</p> <p>Scaffolding arranged for access and later removed on completion of work (QRs. 750.00).</p>	3,500.00
1806	<p>FABRICATION OF INJECTION BOX:-</p> <p>1 No. injection box fabricate as per the exsisting sample</p>	16,320.00

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for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/012970/2021

DATE: 30/09/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	including new flanges and flange rings in yard workshop by using yard supply material and consumables.	
	As per our quotation No. EM 15351 O, item No.2.	
2400	N.A	
2401	FRESH WATER TANKS - CLEANING:-	3,200.00
	1 No. forepeak fresh water tank HP Jet washed and pump out.	
	Based on our quotation No. EM 15351 item No. 20.02.	
2402	OPENING, INSPECTION & CLEANING OF WATER BALLAST TANKS:-	
	Job has been Cancelled.	
2403	OPENING, INSPECTION & CLEANING OF FO CARGO TANKS:-	
	Job has been Cancelled.	
2500	RESLEEING OF BLOWER MORORS END COVERS :-	3,200.00
	Following motor 4 Nos. end cover damaged bearing area repaired with resleeing.	
	1. DG Blower motor N.D.E cover sleeved size 52mm Od x 20mm long using aluminum material.	
	E/R Blower motor PORT :-	
	2. D.E end cover sleeved size 80mm Od x 16mm long using Grey Cast iron material.	

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EXPENSE A/C: 85.901.1434006

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W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	3. N.D.E end cover sleeved size 62mm Od x 16mm long using Grey Cast iron material. E/R Blower motor STBD :- 4 . N.D.E end cover sleeved size 62mm Od x 16mm long using Grey Cast iron material.  As per our quotation No. EM 15351 B, item No.1.	
2501	REMOVAL OF BROKEN BOLT FROM CASING :-  Job has been cancelled.	
2502	RESLEEING OF BLOWER MORORS END COVERS :-  Following motor 4 Nos. end cover damaged bearing area repaired with resleeing. E/R Blower motor # 2 STBD.1 . N.D.E end cover sleeved using Grey Cast iron material. 2 . D.E end cover sleeved using Grey Cast iron material. E/R Blower motor # 2 PORT. 3 . N.D.E end cover sleeved using Grey Cast iron material. 4 . D.E end cover sleeved using Grey Cast iron material.  As per our quotation No. EM 15351 F, item No.1.	3,200.00
2503	FABRICATION OF Al. SOCKETS FOR TEMPERATURE SENSOR :-  6 in nos aluminum socket fabricated new with OD 30mm long 40mm and one side 1/2" BSP thread 15mm long.Anchor winch break handle damaged nut repaired to suit handle thread.  <del>As per our quotation No. EM 15351 N, item No.1.</del>	1,047.00

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W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
2504	TEFLON WASHER FABRICATION :-  250 No's Teflon washer fabricate by using yard material. size :- OD 30mm, ID 18 mm and Thickness 3 mm for sea chest valve.  As per our quotation No. EM 15351 O, item No. 3.	3,370.00
2800	TYRE FENDERS :-  40 Nos. 4 point Tyre fenders removed for access and later refitted, with owner's supplied materials. (QRs. 200.00 per piece x 40 Nos. = QRs. 8,000.00). Scaffolding (tower type size 30 Cubic meter) = QRs. 750.00.  Based on our quotation No. EM 15351, item No. 2.05.1.	8,750.00
5600	A/C SEA WATER CIRCULATING PUMP NO 2 OVERHAULING :-  Ac water No 2 circulating pump disconnected removed from vessel and Brought to workshop and pump dismantled . Pump send for ceramic coating by the client arranged contractor. Received pump found excess ceramic coating on pump body. Excess ceramic coating machined by machineshop and Pump overhauled with client supplied spare parts. Pump return back to vessel and refitted original position. Witnessed by client.  1 No. AC sea water pump received in work shop, dismantled and ressembled with client supplied spares.	5,730.00

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W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
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As per our quotation No. EM 15351 item No. 14.16 (QRs. 6,600.00  
less QRs. 870.00 = QRs. 5,730.00)

6000	FORWARD FIFI DELUGE LINE REPLACEMENT :-	18,045.00
------	---	-----------

Super structure Port and stbd. side FIFI line renewed.  
Port side Existing deluge line disconnected and removed.  
New line fabricated, welded and installed as per below  
details. 2" dia. Pipe, sch. 40., 5600mm long, with 02 nos. 45  
deg. Bend and 02 nos. 90 deg. 2" dia., Sch. 40 pipe, 400mm long,  
provided with one side thread, welded to FIFI line for nozzle.  
- 01 nos.

2" dia., Sch. 40 pipe, 250 mm long, provided with one side  
thread, welded to FIFI line for nozzle. - 01 nos.

2" dia., Sch. 40 pipe, 100mm long, provided with one side  
thread, welded to FIFI line for nozzle. - 01 nos.

2 1/2" pipe, sch 40. 300mm long, one 2" dia. Flange, other side  
one 2 1/2" X 2" reducer. 1/2" threaded socket welded to pipe for  
drain. - 01 nos.

3/4" pipe sch 40 deg. X 800mm long for brazing welded to FFI  
line. - 01 nos.

2 1/2" aluminum flange welded to existing pipe in position. 10mm  
thick aluminum flat bar, 50mm X 100mm long, provided with 02  
drill holes for 'U' bolt. - 02 nos. 2", G.I. 'U' bolts. - 05  
nos.

All pipe send for hot galvanization .

Installed all pipe lines in position.

Stbd. Side Existing deluge line disconnected and removed.

New line fabricated, welded and installed as per below  
details. 2" dia. Pipe, sch. 40., 5600mm long, with 02 nos. 45  
deg. Bend and 02 nos. 90 deg. 2" dia., Sch. 40 pipe, 400mm long,  
provided with one side thread, welded to FIFI line for nozzle.  
- 01 nos.

2" dia., Sch. 40 pipe, 250 mm long, provided with one side

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PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/012970/2021

DATE: 30/09/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
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thread, welded to FIFI line for nozzle. - 01 nos.  
 2" dia., Sch. 40 pipe, 100mm long, provided with one side  
 thread, welded to FIFI line for nozzle. - 01 nos.  
 2 ½" pipe, sch 40. 300mm long, one 2" dia. Flange, other side  
 one 2 ½" X 2" reducer. ½" threaded socket welded to pipe for  
 drain. - 01 nos.  
 ¾" pipe sch 40 deg. X 800mm long for brazing welded to FFI  
 line. - 01 nos.  
 2 " aluminum flange welded to existing pipe in position. 10mm  
 thick aluminum flat bar, 50mm X 100mm long, provided with o2  
 drill holes for 'U' bolt. - 02 nos.  
 2", G.I. 'U' bolts. - 05 nos.  
 All pipe send for hot galvanization .Installed all pipe lines  
 in position.

As per our quotation No. EM 15351G, item No.1

6001

AFT ENGINE ROOM EXHAUST OVER BOARD PIPE :-  
 MAIN ENGINE EXHAUST OVERBOARD ALUMINUM PIPE RENEWAL:-

36,560.00

Pipe and flanges supplied by client Main engine #1,2,3,4 damage  
 exhaust overboard pipe Dia 12 "" pipe 500 mm long and Bkt  
 connection 4 no. to each pipe cut by plasma /grinding cutting  
 and removed, After cutting cleaning by grinding side shell  
 plate area prepare for new pipe fitting = 04 pipe Doubler  
 plate removed from side shell area dia 500 mm ,Side shell plate  
 grinding and cleaning for refit of pipe and doubler = 04  
 Location New exhaust pipe fabricate DIA 12"" Pipe x 500 mm long  
 with one side flange (using client supply pipe and flange  
 material )= 04 nos. After fabrication of pipe Installed in  
 existing location DIA 12"" Pipe x 500 mm long with one side  
 flange and aligned to Injection box = 04 nos. New Aluminum  
 socket fabricate dia ½"" X 40 mm long by machines shop for  
 sensor fixing in New fabricated Overboard exhaust pipe = 04

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EXPENSE A/C: 85.901.1434006

W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	New doubler `10mm Aluminum plate Dia 520 mm od , 328 mm id fit fit and weld, after welding of exhaust pipe. = 04 nos Necessary scaffolding erect and after finish of job removed two location in side shell area .	
	As per our quotation No. EM 15351 I Rev., item No.2.	
6002	FWD ENGINE ROOM EXHAUST OVER BOARD PIPE:- Pipe and flanges supplied by client Fwd engine room Port side DG damage exhaust overboard pipe Dia 6 " pipe 500 mm long and Bkt connection 3 no. to each pipe cut by plasma /grinding cutting and removed, After cutting cleaning by grinding side shell plate area prepare for new pipe fitting = 02 pipe Doubler plate removed from side shell area dia 330 mm ,Side shell plate grinding and cleaning for refit of pipe and doubler = 02 Location New exhaust pipe fabricate DIA 6" Pipe x 500 mm long with one side flange (using client supply pipe and flange material )= 04 After fabrication of pipe Installed in existing location DIA 6" Pipe x 500 mm long with one side flange and aligned to Injection box = 02 nos. New doubler `10mm Aluminum plate Dia 330 mm od , 170 mm id doubler plate fit and weld, after welding of exhaust pipe. = 02 nos. Necessary scaffolding erect and after finish of job removed One location in side shell area .	24,690.00
	As per our quotation No. EM 15351 I Rev., item No.3	
6003	ACCESS WORK FOR EXHAUST PIPE :- Main engine # 1,2,3,4 injection box removal and refit Aft engine room Main engine # 1, 2, 3,4 injection box 12 inch ss (1115 mm long) removed for renewal of overboard pipe after renewal of pipe refit in same location with provide both side high temperature gasket =04 nos. Fwd engine room DG# 1, 2, 3,4	9,180.00

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W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	<p>injection box 6inch ss (1100mm long) removed for renewal of overboard pipe after renewal of pipe refit in same location with provide both side high temperature gasket =04 nos.</p> <p>As per our quotation No. EM 15351 I Rev, item No.4</p>	
6004	<p>REPAIRING OF INJECTION BOX (revised) :-</p> <p>Main engine # 3 injection box damage area repair by provide SS doubler plate 150x150x 3mm thick = 0550x 350x3 mm thick = 01200x 350x3 mm thick = 01180x 350x3 mm thick = 01After repair of injection box hydro test done on 2 bar report issued.</p> <p>As per our quotation No. EM 15351 P. Item No.1.</p>	3,620.00
6005	<p>FABRICATION OF STUB PIECE :-</p> <p>Damage Fi fi line Stub piece repair (Port side) Dia 2" aluminum PIPE Existing Flange one piece Cleaned by machine shop = 01 nosDia 2" X new pipe 250 mm long spool piece fabricate with provide new elbow and flange weld in position to existing pipe = 01 nos (Aluminum flange , pipe and elbow supply by owner)</p> <p>As per our quotation No. EM 15351 R, Item No.1.</p>	1,700.00
6006	<p>M.E 1 SEA SUCTION PIPE REPAIR:-(Revised) :-</p> <p>Main engine sea suction pipe to be shift from onboard to workshop then damage elbow area to be repair with Aluminium doubler pipe and flange area to be repair by welding by using yard supply consumable and manpower .then,after repair Pipe</p>	2,010.00

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W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	shifted to onboard by yard man power.Size : 5" dia Al.pipe length 1500 mm.	
	As per our quotation No. EM 15351 S Rev 1	
7000	ENGINE ROOM FAN MOTOR(7.5KW 4 NOS) AND DG ROOM (5KW 2 NOS ):-  Job identified and LOTO applied. Remove all bolts and nuts of the hatch cover. Disconnected the electrical cables with marking. Take motor insulation and noted. Take out the motor and brought to workshop. Removed fan from the motor shaft. Start dismantling. Stator and motor parts cleaned electro cleaner solvent. Stator cured in the oven. Both bearing covers calibrated. Found good. Stator insulation taken found satisfactory. Stator revarnished and reassembled by owner supplied bearings. Bench tested and shift to vessel. All foundation bolts tight and cables reconnected as per marking. Run test carried out. ME room fan motor ) (7.5KW) - 4 No. DG room fan motor (5KW) - 2 No." Close all hatch covers properly. found satisfactory.  Based on our quotation No. EM 15351 item No. 5.09 (QRs. 3,180.00 per blower x 6 blowers = QRs. 19,080.00).	19,080.00
7001	A/C SEA WATER CIRCULATING PUMP MOTOR:-  2 x A/C seawater circulating pump motors to overhauled <del>Motor electrical cable &amp; coupling to be disconnection before</del>	2,640.00

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W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
--------	-------------	-------------

removing from pump housing [6 x M10 nuts]  
 Prior to removal motors are to be megger tested & re-tested after overhaul.  
 Megger test to be witnessed by vessel ETO  
 Allow for touch-up of insulation if required  
 Motors to be disassembled & chemically cleaned [Electro-solve or similar to be used for cleaning]  
 New bearings to be used when motor reassembled using your supplied bearing.  
 Job identified and LOTO applied. Remove all bolts and nuts. Take motor insulation and noted. Take out the motor and brought to workshop. Start dismantling to overhauling. Stator and motor parts cleaned electro cleaner solvent. Stator cured in the oven. Both bearing covers calibrated. Found good. Stator insulation taken found satisfactory. Stator revarnished and reassembled by owner supplied bearings. Bench tested and shift to vessel. All foundation bolts tight and cables reconnected as per marking. Run test carried out. found satisfactory. Note: bearings supplied by the client.

As per our quotation No. EM 15351, item No. 5.11.

7002 AHU MOTORS:- 3 NOS

5,625.00

Job identified and LOTO applied. Remove all bolts and nuts. Take motor insulation and noted. Take out the motor and brought to workshop. Start dismantling to overhauling. Stator and motor parts cleaned electro cleaner solvent. Stator cured in the oven. Both bearing covers calibrated. Found good. Wheelhouse AHU motor DE end cover knurling done. Stator insulation taken found satisfactory. Stator revarnished and reassembled by owner supplied bearings. Bench tested and shift to vessel. All foundation bolts tight and cables reconnected as per marking. Run test carried out. found satisfactory.

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W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
	As per our quotation No. EM 15351, item No. 5.24.	
7200	BRIDGE SPLIT AC COMPONENTS :-  Job identified. Received AC unit. Fabricate and welded the foundation, penetration, and brackets for outdoor and indoor unit. Following cables supplied and laid. 1. 3x2.5 sq mm ship wiring cable- 15 mts 2. 3x1.5 sq mm ship wiring cable-07mts 3. 32 amps 2pole breaker-01Cable connected. Brazing of discharge and suction line completed. Run test carried out. found satisfactory.  As per our quotation No. EM 15351, item No. 21.06.	7,750.00
7201	BRIDGE DECK A/C RENEWAL ADDITIONAL JOB:-  Fitting & bracing of Compressor discharge and suction copper pipe line Filling up of client supply Compressor oil by yard manpower Filling up of client supply 410 gas by yard manpower Vaccuming the system and run the AC and check.  As per our quotation No. EM 15351 N., item No. 1	2,750.00
7500	SUPPLY OF MATERIAL :-  Following materials supplied as per signed delivery note dated 09-09-2021.  Marine Silicon - 10 Nos. Stainless steel Air connector size 1/2" dia. - 2 Nos. GI adaptor size 1/2" dia. - 1 No.	745.00

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## SHIP REPAIR &amp; FABRICATION

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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/012970/2021

DATE: 30/09/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
7501	SUPPLY OF GAS CYLINDER :-  One No. Argon Cylinder supplied as per signed delivery Note dated 03-08-2021.	75.00
8000	BT #1 BLADE CLEANING AND POLISHING :-  BT # 1 gratings removed for access to complete hand scrape blasting, cleaned and polished of propeller with felt disc and completed tunnel painting and refit the gratings. Erected staging both side before start the job and removed after completion of the job.  As per our quotation No. EM 15351, Item No. 9.03.	3,900.00
8001	BT #2 BLADE CLEANING AND POLISHING :-  BT # 2 grating removed for access to complete hand scrap, blasting, cleaned and polished propeller with felt disc, and completed tunnel painting, refit the grating. Erected staging both side before start the job, removed after completion of the job.  As per our quotation No. EM 15351, Item No. 9.04.	3,900.00
9100	JET UNITS AND BEARING SEAL AND DECK PLATE :-  Services of manpower to be provided to work under owner's representative (OEM technician) for calibration and replacing of Jet unit bearing seal and deck plate work as per signed day	31,467.50

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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## QATAR NAVIGATION (QPSC)

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INVOICE NO: SFWK/INV/012970/2021

DATE: 30/09/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
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work sheets dated from 21-07-2021 to 18-09-2021..

## A) MANPOWER:

## A.1) MECHANIC/FABRICATOR &amp; WELDER :-

Normal Time :- QRs. 90.00 per hour x 93.25 Hours = QRs. 8,392.50.

Over Time :- QRs. 90.00 per hour x 1.25 x 12 Hours = QRs. 1,350.00.

Friday :- QRs. 90.00 per hour x 1.5 x 31 Hours = QRs. 4,185.00.

## A.2) RIGGER/SCAFFOLDER :-

Normal Time :- QRs. 80.00 per hour x 81 Hours = QRs. 6,480.00.

Friday :- QRs. 80.00 per hour x 1.5 x 6 Hours = QRs. 720.00.

## B) EQUIPMENTS:-

B.1). DockCrane:- QRs 310 per hour x 8 Hours = QRs. 2,480.00.

B.2) Forklift Assistance: QRs 400 per hour x 2 hours = QRs. 800.00

B.3) Aluminium Welding Machine:- QRs. 400.00 per day x 3 days = QRs. 1,200.00.

B.4) Grinding Machine:- QRs. 100.00 per day x 2 days = QRs. 200.00.

Material/Consumable :- QRs .5,660.00.

9101 MAIN ENGINES GEARBOX :-

27,142.50

Services of manpower provided to work under owner's representative (OEM technician) for Jet unit as per signed day work sheets dated from 03-07-2021 to 04-09-2021.

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

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PO Box 153, Doha - Qatar

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DATE: 30/09/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011186 / 1

W/O REF: MDO21151

Vessel Name/Description : M.V."HALUL-100"

Job No	Description	Line Amount
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A) MANPOWER:

A.1) MECHANICS/FABRICATOR :-

Normal Time :- QRs. 90 per hour x 224.25 Hours = QRs.

20,182.50.

Over Time :- QRs. 90.00 per hour x 1.25 x 56 Hours = QRs.

6,300.00.

A.3) RIGGERS :-

Normal Time :- QRs. 80.00 per hour x 4 Hours = QRs. 320.00

B) Consumable:- QRs. 340.00.

Invoice Amount --&gt;

673,209.00

(QAR - Six Hundred Seventy-Three Thousand Two Hundred Nine Only)

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

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