

QATAR NAVIGATION (QPSC)

SHIP REPAIR & FABRICATION

Telephones

Office : 4771690 / 4771695

Fax : 4771687



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-DMY-008114

DATE : 01/06/2021

W/O Number : 21-011060

W/O Ref : MLO21039

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V "HALUL 26"

Job No	Description	Line Amount
1151	WHARFAGE CHARGES:- Wharfage charges of vessel whilst alongside shipyard's quay dated from 02-04-2021 to 14-04-2021. Based on our quotation No. EM 15744, item No. B. (QRs. 1,056.00 per day x 13 days = QRs. 13,728.00).	13,728.00
1152	FIRE AND SAFETY WATCH:- Fire & Safety watch during period of vessel's stay at shipyard dated from 02-04-2021 to 14-04-2021 Based on our quotation No. EM 15744, item No. C. QRs 330 per day x 13 days = QRs 4,290.00	4,290.00
1153	GALLEY GARBAGE SKIP:- Providing garbage skip on the jetty, collecting and disposal of galley garbage during period of vessel's stay at shipyard dated from 02-04-2021 to 14-04-2021 Based on our quotation No. EM 15744 Revised, item No. D. (QRs. 275.00 per day x 13 days = QRs. 3,575.00).	3,575.00
1201	BATTENS BLASTING AND APPLY PRIMER :- A total of 12 Nos. Battens removed from the vessel, full blasted to SA 2.0 and applied with one coat primer (Yard Supplied) Hand over to vessel	2,860.00

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Vessel Name/Description: M.V "HALUL 26"

Job No	Description	Line Amount
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As per our quotation No. EM 15744N, item No. 1.

1802	TYRE FENDERS SECURING BRACKETS RENEWAL:-	27,340.00
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A) Following wasted tyre fender securing brackets cropped removed and renewed Size 150mm x100mm x 16mm thickness provided with 2 nos. hole - 60 Nos.
Size 120mm x100mm x 16mm thickness provided with 1 nos. hole - 08 Nos.
Based on our quotation No. EM 15744 B revised, item No. DK-154 (QRs. 275.00 per hour x 68 Nos. = QRs. 18,700.00).
B) Services of 80 Tons crane provided during fitting of pad eyes.
(QRs. 2,160.00 per day x 4 days = QRs. 8,640.00).

1805	VENT HEAD ON MAIN DECK OVERHAULING:-	12,212.00
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Total 21 Nos. vent heads (10" dia. - 2 Nos, 6"dia. - 11 Nos., 3"dia. - 3 Nos., 2.1/2 " dia. - 5 Nos.) opened, removed, shifted to workshop, overhauled, wire mesh renewed, broken bolts removed, holes retaped, grit blasted, applied with one coat primer, reassembled, returned to vessel and refitted.
Stain less steel wire mesh size : 380mm x 420mm x 8mm dia. hole. - 04 Nos.
Stainless steel wire mesh size : 290mm x 175mm.(Small hole size) - 22 Nos.
Stainless steel wire mesh size : 140mm x 130mm.(Small hole size) - 03 Nos.Stainless steel wire mesh size : 170mm x 150mm.(Small hole size) - 05 Nos.
Rubber Gasket size 150mm OD x 100mm ID - 3 Nos.
Rubber Gasket size 325mm x 200mm ID - 2 Nos.
Rubber Gasket size 150mm x 100mm ID - 11 Nos.
Rubber Gasket size 100mm x 65mm ID - 5 Nos.
Rubber Gasket size 285mm, I.D. 180mm ID - 11 Nos.
Rubber Gasket size 420mm, I.D. 300mm ID - 2 Nos.

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Vessel Name/Description: M.V "HALUL 26"

Job No	Description	Line Amount
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Rubber Gasket size 165mm, I.D. 80mm ID - 3 Nos.

Rubber Gasket size 135mm, I.D. 65mm ID - 5 Nos.

Steam gasket 125mm x I.D. 75mm ID - 8 Nos.

Broken bolts removed and renewed.

Stainless steel bolts M16 x70mm long - 48 Nos.

G.I. bolts size M 20 x 70mm long - 120 Nos.

Based on our quotation No. EM 15744 B revised, item No. DK-060.

(QRs. 11,630.00 + QRs. 582.00 = QRs. 12,212.00).

1807	REPAIR OF CHAFING MARKS ON THE VERTICAL PIPE:-	1,010.00
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Wear down area Horn stopper on crash rail vertical pipe buildup
by welding and ground to smooth. - 02 locations

As per our quotation No. EM 15744 B revised, item No. DK-072.

1825	VENT HEAD COVERS :-	3,980.00
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Following 34 Nos. side covers fabricated for vent heads.

Vent head cover for 11 Nos. (vent heads both side cover) size
290mm x 175mm x 4mm thickness provided with folding and 2 Nos.
flat bars- 22 Nos.

Vent head cover size 140mm x 130mm x 55 mm height x 4mm
thickness provided with folding and 2 Nos . Flat bars - 5 Nos.

Vent head cover size 170mm x 150mm x 55 mm height x 4mm
thickness provided with folding and 2 Nos . Flat bars - 3 Nos.

Big vent head cover size 380mm x 420mm x 100 mm height x 4mm
thickness provided with folding and 2 Nos . Flat bars - 4 Nos.

As per our quotation No. EM 15744M, item No. 2

1826	REPAIR OF ENTRANCE PORT SIDE AREA SIDE WALL VERTICAL STIFFENER :-	900.00
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EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V "HALUL 26"

Job No	Description	Line Amount
	One section of T sections wasted web plate cropped and renewed. Size 400mm x 200mm x 10mm thickness. As per our quotation No. EM 15744P, item No. 3	
1827	RENEWAL OF PORT AND STBD. EMERGENCY LIGHT STAND:- Emergency light port and stbd. side repair using following sections. Angle bar size 50mm x 50mm x 8 mm thickness. M.S. Pipe size 1" dia., sch 40. x 910mm long. M.S. Pipe 1" dia., sch 40. x 510mm - 1 No. M.S. Pipe size 1" dia., sch 40. x 600mm - 2 Nos. M.S. Pipe size 1.5" dia., sch 40. x . - 520mm long - 1 No. Flange dia. 138mm O.D. - 2 nos. Drill Hole - 13mm dia. - 08 nos. Flat bar size 35mm x 6mm thick x 750mm long - 2 Nos. Drill Hole size 13mm dia. - 8 Nos. Flat bar size 25mm x 100mm x 6mm thickness. - 6 Nos.	2,800.00
1833	TOWING WINCH REMOTE CONTROL BOX DRILLING :- 1 No. existing fixed box cut, removed and holes drilled as per remote control holes. Box refitted and welded. Hole size 6mm dia. - 4 Nos. As per our quotation No. EM 15744T, item No. 8.	400.00
2200	RENEWAL OF DECK WOODS: - 390 Nos. existing deck wood removed. Owner's supplied 390 Nos. wooden planks planed to size each 1650mm x 180mm x 45mm thickness. 390 Nos. planed deck wood fitted. Deck wood retainer bars cut removed and later plates fitted and	76,050.00

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Vessel Name/Description: M.V "HALUL 26"

Job No	Description	Line Amount
	welded. Based on our quotation No. EM 15744B Revised, item No. 1. (R/R QRs. 155.00 per piece x 390 pieces = QRs. 60,450.00). (Plaining QRs. 40.00 per piece x 390 Nos. = QRs. 15,600.00).	
2400	FUEL TANKS:- NO 16 ,and 20 Fuel tanks Cleaned and wiped with cotton Rags. Some un pumpable oil Transferred to tank No 17C. As per our quotation No. EM 15744C Revised 2, item No. 2.	7,580.00
2402	PORT AND STBD. MAIN ENGINE SUMP TANK CLEANING:- Port and stbd. sump tanks gas freed used electric driven blower. Port and stbd. sump tanks gas freed tested and report issued. Port and stbd. sump tanks remaining bailed out and cleaned with cotton rags. As per our quotation No. EM 15744K, item No. 4.	5,300.00
2501	ECR AC CONDENSER END COVER AND BODY THRAED:- 1 No. ECR AC condenser's both end body thread holes re-tapped damaged 04 nos M12 hole enlarged to M14.01 nos thread enlarged side end cover brought to work shop its 04 no bolt hole enlarged to 15.5mm. As per our quotation No. EM 15744F, item No. 5	2,100.00
2502	MANUFACTURE OF KEY:- One no. key manufactured and supplied new 8mm wide, 6mm in	180.00

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Vessel Name/Description: M.V "HALUL 26"

Job No	Description	Line Amount
	thickness and 48mm long as per client rep instruction. As per our quotation No. EM 15744H, item No. 2.	
2504	AC COMPRESSOR MOTORS END COVER RESLEEVEING:- Port side AC compressor motor DE and NDE cover pre-machined up to 38mm length, new cast iron sleeve manufactured to size 150mm x 38mm thickness, inserted with interference fit secured with 02 grub screw and final machined according new bearing size +0.01mm. As per our quotation No. EM 15744L, item No. 6.	2,800.00
2505	PORT SIDE AC COOLER CASING AND END COVER:- Port side AC cooler casing 12 Nos. damaged existing thread hole enlarged from 1/2" UNC to 9/16" UNC.1 No. spacer's existing 12 Nos. hole enlarged from 14mm to 15mm.1 No. End cover 12 Nos. hole and counter face diameter enlarged according bolt and socket diameter. As per our quotation No. EM 15744L, item No. 7.	1,700.00
2506	AC COMPRESSOR STBD. SIDE MOTOR DE END COVER RESLEEVEING:- AC compressor Stbd. motor DE end cover worn out bearing area pre-machined ,new cast iron sleeve manufactured, fitted with interference fit, secured with grub screw and final machined according to new bearing OD. Based on our quotation No. EM 15744M, item No. 6 (QRs. 1,400.00 per piece x 1 piece = QRs. 1,400.00).	1,400.00
5050	MAIN ENGINE BIG END AND MAIN BEARING INSPECTION (WITH OUT REMOVE CYLINDER HEAD):- BIG END BEARING (WITHOUT REMOVE CYLINDER HEAD) :-	9,480.00

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Job No	Description	Line Amount
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Dismantled HP fuel pipes and fuel injector nozzle. Use special tools to hold piston and con rod. Dismantle con rod big end and draw out

bearing. Visually checked big end, crank journal and big end bearing. Calibrated crank journal and big end bearing. Refited back/renew big end bearing as per manual book. Refited back HP fuel pipes and fuel injector nozzle with new O-ring and packing. Fuel injector tested, 1 unit Per engine x 2 Engine. MAIN BEARING : Brought down Main bearing cap using special tools and spanner. Drawn out main bearing set (Unit no:1 including thrust bearing). Visually inspected main journal, bearing cap and bearings. Calibrate bearings. Refit back/renew main bearing as per manual book. allow 1 unit Per engine x 2 Engine.

As per our quotation No. EM 15744A revised 3, item No. 1.

5051	MAIN ENGINES INTER COOLERS:-	11,000.00
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Port and Stbd side main engine inter coolers removed from location and brought to workshop. End covers removed and Ultrasonic cleaning done. Inspected by client and yard QC. Coolers end covers assembled by yard supplied new gaskets. Pressure tested at 7bar and found no leakage, witnessed by yard QC and Chief engineer.

Coolers shifted to on-board and fitted back in position. Inlet and out let pipe lines are fitted with yard supplied new gaskets. Cooler (Port and Stbd) Testing done no leaks found. Witnessed by chief engineer.

As per our quotation No. EM 15744A revised 3, item No. 2.

5052	PORT AND STBD. MAIN AND BIG END BEARINGS:- BIG END BEARING (WITHOUT REMOVE CYLINDER HEAD):-	66,850.00
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HP fuel pipes and fuel injector nozzle dismantled . Use special

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Vessel Name/Description: M.V "HALUL 26"

Job No	Description	Line Amount
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tools to hold piston and con rod. on rod big end dismantled and draw out bearing. Big end, crank journal and big end bearing visually checked . Calibrated crank journal and big end bearing. Refited with Client's supplied new big end bearing as per manual book. Refit back HP fuel pipes and fuel injector nozzle with new O-ring and packing. Fuel injector testing., allow total 16 unit for Port and stbd. main engines (8 nos. Stbd. side and 8 Nos. port side).
MAIN BEARING : Bring down Main bearing cap using special tools and spanner. Draw out main bearing set. Visual inspect main journal, bearing cap and bearings. Calibrate bearings. Refit back with Client supplied main bearing as per manual book. allow allow total 17 unit for Port and stbd. main engines (8 nos. Stbd. side and 9 Nos. port side).

As per our quotation No. EM 15744K Revised, item No. 3.

6000	BT ROOM VENT PIPE GOOSE NECK PIPE) :-	330.00
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Goose neck pipe for BT room damaged elbow renewed in position size: 2" 90 deg. M.S. elbow, Sch.80.- 1 Nos.
As per our quotation No. EM 15744B Revised, item No. 1.

6006	DIRTY LUB OIL DISCHARGE PIPE (DK-195) :-	735.00
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1 Nos. dirty oil discharge pipe fabricated and welded on main deck stbd. Side.
Size 1" dia. sch, 80 M.S. pipe x 500mm long provided with 1 No. international discharge flange with 1 Blind.
As per our quotation No. EM 15744I, item No. 4.

6007	MAIN ENGINE STBD. SIDE SEA WATER OUTLET PIPE:-	3,925.00
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One section of Stbd. side sea water outlet pipe renewed.

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Vessel Name/Description: M.V "HALUL 26"

Job No	Description	Line Amount
	Size- 6" dia., sch 80. M.S. pipe x 650mm long provided with 2 Nos. flanges and 1 No. 45 deg. Bend. As per our quotation No. EM 15744L, item No. 1.	
6009	STBD. MAIN ENGINE SEA WATER OUTLET PIPE:- One section of Stbd.. side sea water outlet pipe (bilge area pipe) renewedSize 6" dia., sch 80. M.S. pipe x 2200mm long provided with 4 Nos. flanges, 2 Nos. 6" 'Tee" connections and3 Nos. bends.Floor plate angle bar removed for access and later refitted on completion. As per our quotation No. EM 15744M, item No. 1.	10,726.00
7001	PORT AND STBD AC COMPRESSOR MOTORS (45KW EACH):- PORT PORT SIDE AC COMPRESSOR MOTOR. Job identified with chief engineer and LOTO applied. Disconnected the electrical cables. Removed the foundation bolt and motor shift to floor. Checked the megger reading and noted. Removed coupling and end covers. Take out rotor from the stator. Both side bearings removed by bearing puller. Clean stator and all parts by CRC. End covers brought to workshop for calibration. Calibration reading is not satisfactory. Each end covers re-sleeved(included in Job No. 2504). After that reassembled the motor by using owner supplied bearings. Megger tested. Motor installed with STBD ac compressor. Alignment done. Connected the electrical cables as per marking. Run test carried out. found satisfactory. Bearing supplied by the owner. OVERHAULING OF AC COMPRESSOR MOTOR (STBD). Job identified with chief engineer and LOTO applied. Disconnected the electrical cables. Removed the foundation bolt and motor shift to floor. Checked the megger reading and noted. Removed coupling and end covers. Take out rotor from the stator. Both side bearings	13,100.00

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Job No

Description

Line Amount

removed by bearing puller. Cleaned stator and all parts by CRC.
End covers brought to workshop for calibration.
Calibration reading is not satisfactory.
Drive end cover re-sleeved(included in Job No. 2506). After
that reassembled the motor by using owner supplied bearings.
Megger tested. Motor installed with PORT AC compressor.
Alignment done. Connected the electrical cables as per marking.
Run test carried out. found satisfactory.
Bearing supplied by the owner.
As per our quotation No. EM 15744J, item No. 1.

Discount Allowed -->

2,863.51

Invoice Amount -->

283,487.49

(QAR - Two Hundred Eighty-Three Thousand Four Hundred Eighty-Seven And 49/100 Only)

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION & ENGINEERING DIVISION

E & O.E