

QATAR NAVIGATION (QPSC)

SHIP REPAIR & 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/013136/2021

DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	VESSEL ARRIVED : 23-11-2021. VESSEL SAILED : 25-12-2021.	
1150	<p>BERTHING CERWS:-</p> <p>Berthing crews provided during berthing of vessel alongside shipyard's quay dated 23-11-2021.</p> <p>Based on our quotation No. EM 16003 Revised, item No. 1.1.</p> <p>(QRs. 1,000.00 per time x 1 time = QRs. 1,000.00).</p>	1,000.00
1151	<p>WHARFAGE CHARGES:-</p> <p>Wharfage charges of vessel whilst alongside shipyard's quay dated from 23-11-2021 to 25-12-2021.</p> <p>Based on our quotation No. EM 16003 Revised, item No. 1.2.</p> <p>(QRs. 825.00 per day x 33 days = QRs.27,225.00).</p>	27,225.00
1152	<p>FIRE LINE:-</p> <p>Job has been canceled.</p>	
1153	<p>FIRE AND SAFETY WATCH:-</p> <p>Fire & Safety watch during period of vessel's stay at shipyard dated from 23-11-2021 to 25-12-2021.</p> <p>Based on our quotation No. EM 16003 Revised, item No. 2.2.</p>	10,890.00

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for QATAR NAVIGATION (Q.S.C)

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W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	(QRs. 330.00 per day x 33 days = QRs. 10,890.00).	
1154	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 23-11-2021 to 25-12-2021. Based on our quotation No. EM 16003 Revised, item No. 2.3. (QRs. 275.00 per day x 33 days = QRs. 9,075.00).	9,075.00
1155	SHORE POWER SUPPLY:- Job has been cancelled.	
1156	DISPOSAL OF BILGE OILY WATER:- A total of 37 cubic meter dirty oil/bilge oil collected, disposed ashore and certificate issued. Based on our quotation No. EM 16003 Revised, item No. 20.31. (QRs. 6,600.00 + QRs. 13,750.00 = QRs. 20,350.00).	20,350.00
1157	SERVICES OF CRANE, FORKLIFT AND RIGGERS:- Included in Job No. 9100.	

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Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
1800	RENEWAL OF FORWARD CRUCIFIX PLATFORM:- Renewed Crucifix / A Frame platform in forward deck with Angle bar. Existing angle bar cut and removed, New yard supplied angle bar fabricated and installed. Angle bar dimensions: 50mm X 50mm X 06 mm thick.- 700mm - 02 nos. 50mm X 50mm X 06 mm thick.- 800mm - 02 nos. As per our quotation No. EM 16003 Revised, item No. 16.17.	2,670.00
1801	RENEW THE CORRODED PLATE OF OIL TANK AIR VENT LUBE OIL TANK NO, & FO TANK:- Included in Job No. 1806.	
1802	FABRICATION OF CONTAINER SHOE COVER:- New Container shoe's covers fabricated and installed to size 420mm x 320mm x 7mm thickness provided with 35mm dia x 2 Nos. M.S. plate bend to necessary 'C' shape and installed - 01 nos. As per our quotation No. EM 16003 revised, item No. 16.22.	700.00
1803	MAIN DECK OPENING CUT :- One no. main deck opening cut, removed for access and later joining edges 'V' prepared for fit up, fitted and welded to size 1400mm x 1250mm. Deck wood removed in way and later refitted on completion of pump replacing. Scaffolding arranged in engine room and later removed on completion.	5,555.00

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Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	As per our quotation No. EM 16003A, item No.1.	
1804	<p>A) SHIFTING LOCATION OF RIGNET ANTENNA PEDESTAL:-</p> <p>Existing Rig net antenna cut, removed from monkey deck port side.</p> <p>New pedestal fabricated fitted and welded with existing pedestal to extend and installed. Extension size 10" dia. x 2400mm long M.S. Pipe provided with Base plate size 800mm x 800mm x 10 mm thickness - 1 No.</p> <p>M.S. Bracket plate size 400mm x 400mm x 10mm thickness.</p> <p>6 Nos. rung steps fabricated and installed on new pedestal pipe using 20mm ms square bar using 20mm square bar x 7000mm long.</p> <p>New safety cage fabricated and fitted. using M.S. flat bar size 50mm width x 6mm thickness x 24 meters long total.</p> <p>Flat bar for cable tray support size 50mm width x 6mm thickness x 500mm long - 06 nos.</p> <p>3 Nos. 3" dia. Support pipes fabricated, fitted and welded.</p> <p>Ceiling paneling removed for access and later refitted.</p> <p>B) Services of Riggers and yard's Mobile crane arranged for removal and refitting of Rignet Antenna.</p> <p>C) Deck penetration hole to be cut at stbd. Side, 1 No. 3" dia. Goose neck pipe to be fabricated provided with 2 Nos. 90 deg. bends and welded on monkey deck.</p> <p>D) Wheel house insulation removed for access and later refitted by specialist subcontractor.</p> <p>As per our quotation No. EM 16003B Revised, item No. 21.11.1, item No.21.11.2, item No.21.11.3 & item No.21.11.4. (QRs. 18,264.00 + QRs. 3,940.00 + QRs. 2,285.00 + QRs. 3,600.00 = QRs. 28,089.00).</p>	28,089.00

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Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
1805	RENEW TIN COVER SHEET OF THERMAL INSULATION IN HYD. PUMP ROOM & DECK STORE:- Corroded thermal insulation cover cut and removed. New 3mm thickness G.I. sheet fabricated and fitted by drilling and riveting. G.I. sheet size 850mm x 650mm x 3mm thickness - 1 No. G.I. sheet size 850mm x 400mm x 3mm thickness - 1 No. As per our quotation No. EM 16003 B Revised, item No. 16.18.	1,960.00
1806	RENEW THE CORRODED PLATE OF OIL TANK AIR VENT LUBE OIL TANK NO, & FO TANK:- 7 Nos. tank air vent side cover renewed. Broken bolt drilled out and new bolts fitted. Air vent cover plate size 250mm x 125mm x 03mm thickness - 02 Nos. Air vent cover plate size 250mm x 135mm x 03mm thickness - 4 Nos. Air vent cover plate size 250mm x 110mm x 03mm thickness - 2 Nos. Mesh frame size 250mm x 125mm x 03mm thickness - 2 Nos. Mesh frame size 250mm x 135mm x 03mm thickness - 4 Nos. Mesh frame size 250mm x 110mm x 03mm thickness - 2 Nos. Mesh frame size 250mm x 190mm x 03mm thickness - 2 Nos. Stainless steel plate cover size 250mm x 125mm x 03mm thickness. Stainless steel nut and bolt M8 x 25mm long - 52 nos. Total Stainless steel wire mesh approx. size 1000mm X 250mm. As per our quotation No. EM 16003B Revised, item No. 20.29.	4,270.00

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Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
1807	FWD WINCH GUARD COVER REPAIR:- Drive gear inspection cover Hinges renewed. Total 03 hinges (3" long M.S. Hinges) renewed. Forward winch cover's deformation rectified by heating and hammering in position. As per our quotation No. EM 16003 Revised, item No. 12.55.	1,300.00
1808	ACETYLENE AND OXYGEN CYLINDER RACKS:- Following cylinder racks fabricated. Acetylene cylinder rack (single type) overall size 350mm x 400mm x 1100mm height using 65mm angle bar and bottom plate and top securing plate - 1 No. Acetylene cylinder rack (single type) overall size 300mm x 300mm x 1200mm height using 65mm angle bar and bottom plate and top securing plate - 1 No. Using following materials. M.S. Angle bar size 65mm x 65mm x 8 mm. - 18 Mtrs. M.S. Plate size 300mm x 450mm x 06mm thickness.- 1 No. M.S. Plate size 350mm x 350mm x 06mm thickness - 1 No. M.S. Plate size 200mm x 400mm x 06mm thickness - 1 No. M.S. flat bar size 50mm width x 06mm thickness x 400mm length - 4 Nos. 12 nos. bolt, nut, washer size M 12 X 50mm long - 12 nos. As per our quotation No. EM 16003B Revised, item No. ADD.2.	5,550.00
1809	FABRICATION OF TOOL:- Tool fabricated for installation of liners as per owner supplied sketch.	900.00

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Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
1810	MODIFICATION OF GALLEY AREA CEILING PANELS:- Galley and galley store area 2 Nos. ceiling panels cut removed. New bigger size ceiling inspection door fabricated and installed. Stainless steel door and frame - size - 760mm X 525mm, provided with 02 nos. hinges and one lock. Ceiling panels refitted using yard supplied materials. As per our quotation No. EM 16003G, item No. 2.	3,650.00
1811	PORT SIDE ENGINE ROOM BLOWER MESH:- 2 Sets stainless steel mesh with frame removed. Mesh frames tack welded, cut the frame separated and damaged fresh removed and 2 Set mesh fabricated to size each 1020mm dia. (each set in 2 halves) fitted and mesh frame tack welded. As per our quotation No. EM 16003G, item No. 4.	1,900.00
1812	FABRICATION OF TOOL:- Fuel injection tool fabricated as per owner supplied sketch.	1,300.00
1813	MAST PLATFORM GRATING AND HANDRAILING:- Main mast provided with platform grating and handrailing at 3 level as follows. G.I. grating overall size Size - 1850mm X 500mm - 3 Sets. (total 06 nos.) (Total gratings size - 6000mm X 900 mm used) Grating clamps - 20 nos- 02" 'U' bolt, Grating clamp - 40 nos. Aluminum Handrailing - 3600mm long x 550mm height, stanchions (1" aluminum pipe) and middle horizontal railing using 18mm dia aluminum round bar - 3 Sets.	23,070.00

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Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	Main mast area scaffolding arranged for access and later removed on completion of mast platform works.	
	As per our quotation No. EM 16003C Revised, item No. 1.	
1814	REPAIR OF ER TUBULAR FAN # 4 END COVER:-	580.00
	1 No. Tubular fan motor No. 4 end cover circular crack ground and refilled with aluminium TIG welding.	
	As per our quotation No. EM 16003L, item No. 3.	
1815	N.A	
2200	REMOVAL AND REFITTING OF WHEELHOUSE STBD. SIDE WINDOW FRAME:-	700.00
	Wheelhouse stbd. Side window frame removed for access and later refitted on completion of client's cabling works.	
	As per our quotation No. EM 16003O, item No. 2.	
2500	MANUFACTURE OF ME AIR COOLER BYPASS SPINDLES:-	1,180.00
	2 Nos. brass spindles (including 1 spare spindle) manufactured as per sample with major OD 20mm, 210mm long provided with one end thread and square. drill the hole with valve.	
	As per our quotation No. EM 16003E, item No. 1.	

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Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
2501	<p>A) RE SLEEVING AND KNURLING OF MOTOR COVER:-</p> <p>Following motor cover resleeved and knurled.</p> <p>1.1) Tubular fan motor No.1 - Re sleeving For DE & NDE - 2 Nos.</p> <p>1.2) Tubular fan motor No.2 - Re sleeving For DE & NDE - 2 Nos.</p> <p>1.3) Tubular fan motor No.3 - Re sleeving For DE & NDE - 2 Nos.</p> <p>1.4) Tubular fan motor No.4 - Re sleeving For DE & NDE - 2 Nos.</p> <p>2.1) BT blower - DE Knurling & NDE Re sleeving - 2 Nos.</p> <p>2.2) BT blower - DE Knurling & NDE Re sleeving - 2 Nos.</p> <p>3.1) Engine room blower - DE Re sleeving - 1 No.</p> <p>B) RESLEEVEING AND KNURLING OF MOTORS END COVERS :-</p> <p>Following motors end covers resleeving to be carried out using cast iron round bar and knurled as follows.</p> <p>1) Job No. 7002- Stbd. Engine room blower - DE & NDE Re sleeving - 2 End covers.</p> <p>2) Job No. 7006- Provision store blower - DE Knurling - 1 End cover.</p> <p>As per our quotation No. EM 16003J, item No.1 & EM 16003N, item No.1 (QRs. 10,474.00 + QRs. 1,225.00 = QRs. 11,699.00).</p>	11,699.00
2502	<p>DRILLING OF CLAMPS AND SS FLEXIBLE HOSE:-</p> <p>6 Nos. clamps drilled as follows.</p> <p>2 Nos. clamps each provided with 1 No. 18mm diameter hole.</p> <p>4 Nos. clamps each provided with 2 Nos. 18mm dia drill holes</p> <p>No. stainless steel flexible hose flange drilled 7mm diameter at 127 PCD 6 nos hole as per sample.</p> <p>As per our quotation No. EM 16003 Q, item No. 1.</p>	600.00
2800	TYRE FENDER:-	3,160.00

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Aft port and stbd. Tyre fenders removed and client supplied 2 Nos. tyres received at Jetty and fitted in position. Services of yards mobile crane and pontoon provided. Tyre shoes outer locking ring plate cut removed from old tyre fender and fitted in client supplied tyre fender. Ring plates fabricated and welded with existing tyre shoes. Pontoon to be arranged for Tyr fendering work and later removed and shifted back to storage area. Services of yard's mobile crane provided.

Based on our quotation No. EM 16003 Revised, item No. 21.17.

5050	PORT MAIN ENGINE AIR COOLER :-	6,760.00
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1 No. Port main engine air cooler collected from main deck, brought to workshop, dismantled and chemically and mechanically cleaned using yard supplied carbon cleaner (20 litter). 18 Nos. tubes are found block, block removed by drilling, cooler re assembled using client supplied gasket. Cooler pressure test carried out at 4.5 bar pressure witnessed by yard QC and client. Cooler return back to vessel and refitted on position witnessed by client. Cooler's 4 Nos zinc anodes renewed as per client's representative's instruction using yard fabricated zinc anodes.

Based on our quotation No. EM 16003 Revised, item No. 10.04. (QRs. 7,500.00 + Anode QRs. 150.00/ piece x 4 Nos.) less QRs. 1,340.00 = QRs. 6,760.00).

5051	STBD. MAIN ENGINE AIR COOLER:-	7,350.00
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Stbd. main engine air cooler disconnected and removed. Cooler sea water and fresh water pipe lines disconnected and all

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bolts removed from cooler and pull out 50 MM from casing and hanged up by chain block. Cooler lifted, shifted by ship crew from engine room to main deck. Yard riggers cooler brought to workshop use of yard mob crane and fork lift. Dismantled the cooler, cleaned cooler by yard supplied carbon cleaner (20 litres) 4 nos anodes found damaged as per the client instruction new 4 nos anodes manufactured by yard. 15 nos tubes are found chocked, clear the chocked tubes by drilling , re assembled cooler front cover by client supplied gasket and back end cover and anode cover 4nos refitted by yard supplied gasket. Carried out pressure test at 4.5 bar pressure witnessed by yard QC and client. Cooler return back to vessel and refitted on position with client supplied new O-ring witnessed by client .

Based on our quotation No. EM 16003 Revised, item No. 10.05.(QRs. 7,500.00 + Anode QRs. 150.00/ piece x 4 Nos.) less QRs. 750.00 = QRs.7,350.00).

5052	MAIN ENGINES CYLINDER HEAD OVERHAULING :-	46,440.00
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Maker: NiigataModel: 9L28AHX Servicing of Port and STBD Main engine cylinder head 18 nos:
18 nos of cylinder head received from vessel.
All cylinder head component marked.
Dismantled all cylinder heads exhaust & intake valves spindle, valve rotator, valve spring.
Cleaned cylinder head and component by carbon remover, adrox cleaner and diesel cleaned.
Calibrated valve guides, valve spindle and valve seats.
Cylinder head DP tested.
Valve spindle DP tested
Pressure tested at 6 bar witness C/E, OEM and Yard QC.
~~Drawn out all exhaust valve seats and cleaned.~~

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QATAR NAVIGATION (QPSC)

SHIP REPAIR & FABRICATION

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Fax : 4771687



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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/013136/2021

DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	<p>Calibrated Exhaust valve seats housing. Installed all exhaust valve seats with new O-ring by OEM, Yard mechanic and Halul mechanic. Cylinder head DP tested Pressure tested at 7 bar (as per client request) witness C/E, OEM and Yard QC Performed exhaust and intake valve lapping using lapping pest Assembled cylinder heads with new valve spring, new valve rotator , new valve cotter. Valve rotator tested. Installed exhaust manifold with new gasket and packing. All cylinder heads packed for shifting to vessel. All bolts torque tighten as per manual book All work activities done as per port engineer instruction</p> <p>As per our quotation No. EM 16003D, item No. 1.</p>	
5800	<p>PORT Z PELLER STEERING HYD OIL COOLER:-</p> <p>1 No. Port side Z Peller steering hydraulic oil cooler removed from location, dismantled, chemically cleaned and washed. 5 Nos. tube found block, block removed by drilling, 3 Nos. anodes found damaged, 3 Nos. anode renewed using yard manufactured anodes. Cooler reassembled with yard supplied allied gasket and O-ring. Cooler pressure test carried out at 4 bar pressure. witnessed by yard QC and client .Cooler return Back to vessel and refitted original position .Witnessed by client.</p> <p>Based on our quotation No. EM 16003 Revised, item No. 9.11 (QRs. 3,440.00 + (Anode QRs. 150.00 per piece x 3 pieces) = QRs. 3,890.00).</p>	3,890.00
5801	STBD Z PELLER STEERING HYD OIL COOLER:-	3,890.00

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for QATAR NAVIGATION (Q.S.C)

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DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	<p>1 No. stbd. side Z Peller steering hydraulic oil cooler removed from location, dismantled, chemically cleaned and washed. 5 Nos. tube found block, block removed by drilling, 3 Nos. anodes found damaged, 3 Nos. anode renewed using yard manufactured anodes. Cooler reassembled with yard supplied allied gasket and O-ring. Cooler pressure test carried out at 4 bar pressure. witnessed by yard QC and client .Cooler return Back to vessel and refitted original position .Witnessed by client.</p> <p>Based on our quotation No. EM 16003 Revised, item No. 9.12 (QRs. 3,440.00 + (Anode QRs. 150.00 per piece x 3 pieces) = QRs. 3,890.00).</p>	
5802	<p>FWD WINCH BREAK TENSION ADJUSTING BOLT BOTTOM NUT FREE UP:-</p> <p>Fwd. winch break neck type tension adjusting pin removed by heating ,cylinder and adjusting pin brought to workshop and free up, cylinder, and pin return back to vessel and refitted in position witnessed by client.</p> <p>As per our quotation No. EM 16003 Revised, item No. 12.54.</p>	650.00
5803	<p>NRV IN THE FILLING LINES OF BOTH MAIN AIR BOTTLES:-</p> <p>3 Nos. main air bottle NR Valves received from client, valves seat skimmed 3 Nos. teflon washers manufactured, washer seat area cleaned and new washers fitted in position. Valves Handed over to client and found satisfactory.</p> <p>Based on our quotation No. EM 16003 Revised, item No. 12.56. (QRs. 1,380.00 less QRs. 100.00 = QRs. 1,280.00.</p>	1,280.00

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EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
5804	CYLINDER HEAD EXHAUST VALVE SEAT 'O' RONG:- 36 Nos. exhaust valve seat removed and cleaned. Valve seat 'O' ring renewed and refitted by OEM. Cylinder heads re pressure tested on completion of valve seat 'O' ring renewal. As per our quotation No. EM 16003G, item No. 1.	6,420.00
5805	SMIT BRACKET PISTON:- Smith bracket piston with base removed from location and brought to workshop Smith bracket with piston base handed over to client arranged sub contractor for overhauling .After the overhauling smit bracket piston received and brought back to vessel, refitted back original position with yard supplied M36X100MM 4 nos bolts and 8 nos flat washer and 4 nos spring washer. Witnessed by client . As per our quotation No. EM 16003H, item No. 1.	4,630.00
5806	SPARE CYLINDER HEAD:- 1 No. spare Cylinder head received in work shop, Cylinder head components dismantled, heads and components chemical cleaned, Cylinder head, reassembled and pressure tested. Cylinder heads collected by Client. As per our quotation No. EM 16003K, item No. 1.	2,580.00
6000	A) PORT MAIN ENGINE SW PIPE RENEWAL:- Port side main engine SW pipe line renewal material details as	8,420.00

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for QATAR NAVIGATION (Q.S.C)

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DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
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follows.

Size 4" dia., sch 80, ms pipe x 400mm long provided with 2 Nos. square flanges, 3 Nos. ½" couplings, 2 Nos. bends 45° 1 No. 3" dia. Branch MS pipe X120 mm long with 1 Square flange. Pipe Hot dip galvanized.

As per our quotation No. EM 16003Revised, item No. 17.10 (QRs. 6,200.00).

B) PORT SIDE MAIN ENGINE SW PIPE:-

1 No. port side main engine sea water pipe line pipe renewed size 4" dia., sch 80 ms pipe x 300mm long provided with 1 No. bend and 2 Nos. Square flanges. Fabricate and after blasting and painting Handover to client.

As per our quotation No. EM 16003F, item No. 1 (QRs. 2,220.00).

6001	A) FABRICATION AND FITTING OF STBD ME COOLER INTERMEDIATE CONNECTING SEAWATER LINE:-	5,270.00
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Stbd ME Cooler Intermediate connecting line renewal as follows. Size 4" dia., sch 80 MS pipe x 300 mm long with provide two Nos. flanges - 1 No.

As per our quotation No. EM 16003Revised, item No. 17.13 (QRs. 2,220.00).

B) STBD ME COOLER INTERMEDIATE CONNECTING SEAWATER LINE:-

1 No. stbd. side main engine sea water pipe renewed to size 4" dia., sch 80 ms pipe x 250mm long provided with 1 No. 4" dia. Flange, 1 No. 5" dia. Flange, 1 No. 4" x 5" dia. reducer.

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DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
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As per our quotation No. EM 16003F, item No. 2 (QRs. 3,050.00).

6002	BY PASS LINE FOR ME SEAWATER INLET LINE STRAINER TO FACILITATE FILTER CLEANING WHILE ME RUNNING FOR BOTH ENGINES:-	21,776.00
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Stbd. side by pass Line fabricated and installed for Main engine Sea suction line details as follows.

2 sections of stbd. side existing 5" dia. pipes (1 No. 1000mm long and 1 No. 600mm long pipe) opened and shifted to workshop and each pipe provided with 1 No. new branch pipe size each 3" dia., sch 80 ms pipe x 100mm long provided with 1 No. flange (total 2 Branches) and welded to existing pipe.

1 No. new pipe fabricated and fitted to size 3" dia., sch 80 ms pipe x 1000mm long provided with 2 Nos. 90 deg. bend, 2 Nos. flanges and yard supplied 1 No. 3" dia. butterfly valve.

Port side by pass Line fabricated and installed for Main engine Sea suction line details as follows.

1 section of existing sea suction pipe size 5" dia. x 800 mm long opened and shifted to workshop and pipe provided with one branch pipe size 3" dia., sch 80 ms pipe x 150 mm long with one side flange and other end welded to existing pipe.

1 No. branch pipe fabricated and welded to existing pipe in situ size 3" dia. x 100mm long with one flange.

1 No. new pipe fabricated and fitted to size 3" dia., sch 80 ms pipe x 950mm long provided with 1 No. 90 deg. bend, 1 No. 45deg. bend and 2 Nos. flanges and yard supplied 1 No. 3" dia. butterfly valve.

As per our quotation No. EM 16003 B revised, item No. 17.15.1 & item No. 17.15.2 (QRs. 17,842.00 + Valves QRs. 2,438.00 = QRs. 20,280.00).

Additional to quotation:-

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for QATAR NAVIGATION (Q.S.C)

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DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	2 Nos. 5" dia. butterfly valves replaced using client supplied valves. 1 No. 5" dia. existing pipe cut, shortened and 1 No. 5" dia. flange fabricated and welded to accommodate owner's supplied 1 No. 5" dia. butterfly valve and valve fitted in position. (QRs. 1,496.00).	
6003	STBD. GS PUMP TO A/C PUMP BYPASS LINE:- GS Pump pipeline Stbd. to A/C Pump Discharge line New bypass line connection fabricate and installed as follows. Existing pipe size 4" dia. x 1800mm long provided with 3 Nos. flanges open and water drained for Branch welding. 1 No. existing Pipe Dia 3" dia. x 3000mm long with 02 flanges open and turn in position for Branch pipe welding for bypass line , after welding of pipe refitted in same position . Chequered Plate removed for access and later refitted to size 600mm x 900mm - 4 Nos. Following new pipes fabricated, welded and fitted. Size 3" dia., sch 80 ms pipe x 150 mm long provided one end with flange, One reducer size 3"x 2½" dia. Sch 80 and other end weld joint to existing pipe - 1 No. Size 3" dia., sch 80 ms branch pipe x 400 mm long provided with 1 bend, 1 No. flange other end with weld joint to existing GS pump pipe line - 1 No. Size 3" dia., sch 80 ms pipe x 1600 mm long with provide one elbow 45° with 2 Nos. flanges - 1 No. Size 3" dia., sch 80 ms pipe x 1200 mm long provided with 2 Nos. flanges and one 45° deg. elbow - 1 No. Ball Valve size 3" dia. - 1 Nos. Pipe Support using angle Size 50 x 50x 06x 300 mm long - 1 Nos.	10,500.00

Based on our quotation No. EM 16003 M, item No. 1 (QRs.

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INVOICE NO: SFWK/INV/013136/2021

DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	13,237.00 less QRs. 2,737.00 = QRs. 10,500.00).	
6004	FABRICATION OF STRAINER FILTERS:- Separate invoice to be submitted after completion of work.	
7000	OVERHAULING OF ENGINE ROOM SUPPLY FAN PORT No # 1 (440 V AC, 18.5 KW) :- Job has been identified with ship ETO and corresponding breakers isolated by ship ETO. Blower Hood hatch cover unbolted and shifted aside. Removed the foundation bolts of blower trunk and filter. Protection grid, disconnected the power supply cable. Shifted the Blower assembly away from the hood. Motor and fan removed and brought to workshop. Motor insulation tested. Cleaned trunk assembly by scraper cleaner and painted. Dismantled blower motor to start overhauling. Clean the motors using electrical cleaning solvent, cured inside the temperature control oven and re-varnished the motor windings. All mechanical parts are cleaned by chemical solvent. both motor end cover bearing housing Areas checked, found OK. Required QAQC report prepared sent to QC for preparing final report for client approval. Re-assembled motor using yard supplied bearings. Megger testing of motor carried out found satisfactory. Reassembled blower, bench tested and shifted back to vessel. Refit the blower and protection grid. Gasket 3mm thickness renewed. base bolts, necessary bolts and nut, washers renewed using yard supplied. Power cables reconnected as per the marking. Satisfactory running test carried out in presence of ETO. found satisfactory. Hatch cover Closed properly with new gasket. Scaffolding arranged for access and later removed on completion of blower overhauling.	8,176.00

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for QATAR NAVIGATION (Q.S.C)

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INVOICE NO: SFWK/INV/013136/2021

DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
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As per our quotation No. EM 16003 Revised, item No. 5.01 (QRs. 6,888.00 + Scaffolding QRs. 1,288.00 = QRs. 8,176.00).

7001	OVERHAULING OF ENGINE ROOM SUPPLY FAN PORT No # 2 (440 V AC, 18.5 KW):-	6,888.00
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Engine room supply fan No. 2 Job has been identified with ship ETO and corresponding breakers are isolated by ship ETO. Unbolt blower Hood hatch cover and shift aside. Removed the foundation bolts of blower trunk and filter. protection grid, disconnect the power supply cable. shifted the Blower assembly away from the hood. Motor and fan removed and brought to workshop. Checked motor insulation tested. Cleaned trunk assembly with scraper cleaner and painted. Dismantled blower motor to start overhauling. Clean the motors using electrical cleaning solvent, cured inside the temperature control oven and re-varnished the motor windings.

All mechanical parts cleaned by chemical solvent. both motor end cover bearing housing Areas checked, found drive end clearance oversize. Send to machine shop for re-sleeving. Required QAQC report prepared sent to QC for preparing final report for client approval. Re-assembled motor using yard supplied bearings. Megger testing of motor carried out found satisfactory. Reassembled blower, bench tested and shifted back to vessel. Refit the blower and protection grid. Gasket 3mm thickness renewed. base bolts, necessary bolts and nut, washers are renewed by Yard supplied. Reconnected the power cables as per the marking. Satisfactory running test carried out presence of ETO. found satisfactory. Hatch cover Closed properly. Hatch cover gasket also renewed. Scaffolding arranged and later removed on completion (included in Job No. 7000).

As per our quotation No. EM 16003 Revised, item No. 5.02.

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DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
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7002	ENGINE ROOM SUPPLY FAN PORT STBD:-	8,176.00
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Engine room stbd. side supply fan job has been identified with ship ETO and corresponding breakers isolated by ship ETO. Unbolt blower Hood hatch cover and shift aside. Removed the foundation bolts of blower trunk and filter. protection grid, disconnect the power supply cable. shifted the Blower assembly away from the hood. Motor and fan removed and brought to workshop. Checked motor insulation tested. Cleaned trunk assembly with scraper cleaner and painted. Dismantled blower motor to start overhauling. Clean the motors using electrical cleaning solvent, cured inside the temperature control oven and re-varnished the motor windings. All mechanical parts are cleaned by chemical solvent. both motor end cover bearing housing Areas are checked, found drive end and non-drive end clearance oversize. Send to machine shop for re-sleeving. Required QAQC report prepared sent to QC for preparing final report for client approval. Re-assembled motor using yard supplied bearings. Megger testing of motor carried out found satisfactory. Reassembled blower, bench tested and shifted back to vessel. Refit the blower and protection grid. Gasket 3mm thickness renewed. base bolts, necessary bolts and nut, washers are renewed by Yard supplied. Reconnected the power cables as per the marking. Satisfactory running test carried out presence of ETO. found satisfactory. Hatch cover Closed properly. Hatch cover gasket also renewed. Scaffolding arranged for access and later removed on completion.

As per our quotation No. EM 16003 Revised, item No. 5.03 (QRs. 6,888.00 + Scaffolding QRs. 1,288.00 = QRs. 8,176.00).

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W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
7003	SERVICING OF ER TUBULAR FANS 4 NOS (EACH 2.2 KW):- 4 Nos. ER tubular fans Job identified with ETO and LOTO applied. Disconnected the electrical cables. Removed the foundation bolts and shifted to workshop along with fan trunk. Visual inspection done. Value of motor winding checked value recorded. Dismantled motors end covers removed existing bearing from rotor shaft. Draw out rotor unit from stator body. Cleaned the motors winding by electro solvent, other parts also cleaned using electrical cleaning solvent. Motor kept inside the Oven. Re-varnished the motor windings. Checked insulation value of motor stator winding. Checked bearing clearance of each end covers. Found all blower end covers are oversize. End covers sent to machine shop for re-sleeving. Blower No:4 NDE cover found small crack. Welding done (Included in Job No. 1814). Report prepared submitted. Reassembled the motors by using yard supplied bearings. Motor tested in workshop. Shifted back to On-board installed. All blowers fitted back in position as per marking. Power cables re-connected as per original marking. on-board test carried out with presence of ETO. found satisfactory. As per our quotation No. EM 16003 Revised, item No. 5.07.	11,246.00
7004	AHU BLOWER FAN:- Included in Job No. 7007.	
7005	CLEANING OF MAIN SWITCH BOARD:- Job identified. Black out the ship. MSB front and back doors opened. Marked all breaker position. Removed all dust from inside the panel board. Check and tight all bus bar bolts. All	2,450.00

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W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
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conductors All terminals cleaned by CRC. All terminals tightened wherever loose. Removed all dust from inside the panel board. Check all breakers positions. Closed all doors and power ON. Found satisfactory.

As per our quotation No. EM 16003 Revised, item No. 18.04.

7006	SERVICING OF ELECTRICAL BLOWERS (8 Nos.): -	19,844.00
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Following 8 Nos. Blowers Job identified with ETO and LOTO applied. Disconnected the electrical cables. Removed the foundation bolts and shifted to workshop along with fan trunk. Visual inspection done. Value of motor winding checked value recorded. Dismantled motors end covers removed existing bearing from rotor shaft. Draw out rotor unit from stator body. Cleaned the motors winding by electro solvent, other parts also cleaned using electrical cleaning solvent. Motor kept inside the Oven. Re-varnished the motor windings. Checked insulation value of motor stator winding. insulation value recorded. Checked bearing clearance of each end covers. Necessary end covers resleeved (included in Job No. 2501). After ETO inspection Re-assembled motor by using yard supplied bearings. Motor tested in workshop. Shifted back to On-board installed. Prepared new gasket. All power cables re-connected as per original marking. on-board test carried out with presence of ETO. found satisfactory. All ceilings closed properly.

1. FWD BT room supply fan motor (2.2KW) - 1 No.
2. FWD BT room exhaust fan motor (2.2KW) - 1 No.
6. Gally supply fan (.37KW) - 1 No.
7. Officers deck sanitary fan - 1 No.
8. Main deck accommodation sanitary fan PORT - 1 No.
9. Main deck accommodation sanitary fan STBD. - 1 No.
10. Hospital blower fan - 1 No.
11. Provision room blower fan - 1 No.

E & O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION & ENGINEERING DIVISION

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QATAR NAVIGATION (QPSC)

SHIP REPAIR & 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/013136/2021

DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	AS per our quotation No. EM 16003 Revised, item No. 5.08 (QRs. 2,690.00 + QRs. QRs. 2,690.00 + QRs. 2,656.00 + QRs. 2,656.00 + QRs. 1,920.00 + 1,920.00 + QRs. 2,656.00 + QRs. 2,656.00 = QRs. 19,844.00.	
7007	AHU BLOWER FAN BEARINGS:- Job identified with help of ship ETO. Isolated AHU fan motor breaker by ETO. V-belt has been marked removed. AHU Blower Motor Fan existing bearing removed on both side of the shaft. Properly cleaned bearing seating area on the shaft. installed ship supplied bearing set on both sides. Re-installed V-belt checked belt alignment with respect to motor pulley. Run test carried out with presence of ETO. Found satisfactory. Note: bearings supplied by the owner. As per our quotation No. EN 16003, item No. 12.07.	3,950.00
7008	AUXILIARY ENGINE ALTERNATORS CLEANING IN PLACE (550KW) - 3 Nos.:- Job has been cancelled.	
7009	TOILET EXHAUST FAN (1.2KW) (IN ROOM CREW 4(108):- Job identified with ETO and LOTO applied. Opened necessary ceilings. Disconnected the electrical cables. Removed the foundation bolts and shifted to workshop along with fan trunk. Visual inspection done. Value of motor winding checked value recorded. Dismantled motors end covers removed existing bearing from rotor shaft. Draw out rotor unit from stator body. Cleaned the motors winding by electro solvent. other parts also cleaned	2,340.00

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EXPENSE A/C: 85.901.1434006

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W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
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using electrical cleaning solvent. Motor kept inside the Oven. Re-varnished the motor windings. Checked insulation value of motor stator winding. insulation value recorded. Checked bearing clearance of each end covers. Found ok. Report prepared submitted QAQC to prepare final report for client. After ETO inspection Re-assembled motor by using yard supplied bearings. Motor tested in workshop. Shifted back to On-board installed. Prepared new gasket. All power cables re-connected as per original marking. on-board test carried out with presence of ETO. found satisfactory. All ceilings closed properly.

As per our quotation No. EM 16003J, item No. 2.1.

7010	WINDLASS MOTORS (EACH 22KW) :-	14,280.00
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Job identified with ETO and LOTO applied. Electrical connection marked disconnected. Removed all foundation bolts. Motors transferred to electrical workshop. Checked motors winding insulation value noted. Dismantled motor end covers removed existing bearing from rotor shaft. Draw out rotor unit from stator body. Clean the motors winding, other parts by using electrical cleaning solvent, cured inside the temperature control oven. Checked insulation value of stator coil. Found good. Re-varnished the motor windings. Checked bearing clearance of end covers and found all end covers are loosening. Bearing housing send to machine shop for re-sleeving. Reading has been submitted to QC. After ETO inspection Re-assembled Motor using Ship Supplied bearings. workshop running test carried out with presence of ship ETO Shifted back to on-board and installed back to original position. Reconnected electrical cable as per marking on-board running test carried out. found satisfactory.

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for QATAR NAVIGATION (Q.S.C)

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PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/013136/2021

DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
	As per our quotation No. EM 16003J, item No. 3 (QRs. 9,380.00 + (End cover resleeving QRs. 1,225.00 per piece x 4 pieces) = QRs. 14,280.00).	
7500	SUPPLY OF MATERIALS:- Following Materials supplied as per signed delivery notes. A) Vent head supplied to size 3"dia. - 1 No. As per our quotation No. EM 16003I, item No. 1 (QRs. 520.00). B) Additional to quotation:- Nitrogen Cylinder - 2 Nos. 5mm dia.ss rod - 5 Meters. Drill bit 5mm dia. - 1 No. bearing - 3 Nos. DOL starter - 1 No. 10 sq. mm single core cable - 5 Meters. 10sq. mm cable lug - 8 No. (QRs. 642.00).	1,162.00
9100	PORT & STBD MAIN ENGINE OVERHAULING:- Services of manpower (Mechanic, fabricator, Rigger and equipments (80 Ton crane, forklift) provided to work under direct supervision of owner's representative as per signed day work sheets dated from 23-11-2021 to 24-12-2021. A) MANPOWER:- A.1) Mechanic, Fabricator:- Normal time:- QRs. 90.00 per hour x 106.75 hours = QRs. 9,607.50.	37,167.50

E & O.E

for QATAR NAVIGATION (Q.S.C)

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DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
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Over time:-QRs. 90.00 per hour x 28 hours x 1.25 = QRs. 3,150.00.

Friday:- QRs. 90.00 per hour x 32 hours x 1.5 = QRs. 4,320.00.

A.2) Rigger:-

Normal time:- QRs. 80.00 per hour x 60 hours = QRs. 4,800.00.

Over time:- QRs. 80.00 per hour x 8 hours x 1.25 = QRs. 800.00.

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

B) Equipments:-

B.1) 80 Tons Mobile crane :- QRs. 580.00 per hour x 19 Hours = QRs. 11,020.00.

B.2) 15 Tons Forklift :- QRs. 400.00 per hour x 6 Hours = QRs. 2,400.00.

B.2) 7 Tons Forklift :- QRs. 350.00 per hour x 1 Hours = QRs. 350.00.

Based on our quotation No. EM 16003 Revised, item No. 10.01 & 10.02.

9101	REPAIRS OF FRESH WATER HYDROPHORE TANK LEAKS:-	2,740.00
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Services of Welders along with equipment and consumable provided to work under direct supervision of owner's representative for Hydrophore tank repair works as per signed day work sheets dated 15-12-2021.

A) MANPOWER:-

A.1) Welder:-

Normal time:- QRs. 90.00 per hour x 14 hours = QRs. 1,260.00.

Over time:- QRs. 90.00 per hour x 8 hours x 1.25 = QRs. 900.00.

B) Equipment:-

Welding machine :- QRs. 400.00 per day x 1 day = QRs. 400.00.

E & O.E

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W/O NO: 21-011318 / 1

W/O REF: MLO 21263

Vessel Name/Description : M.V. "HALUL-90"

Job No	Description	Line Amount
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	C) Consumable (SS filler wire and Argon cylinder):- QRs. 180.00.	
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Encls:-

- Copy of our quotations No. EM 16003 Revised to EM 16003 Q By E mail dated from 20-11-2021 to 22-12-2021 (39 sheets).
- Copy of your E Mail dated from 22-11-2021 to 16-12-2021 (14 Nos.)
- Copy of signed day work sheets for Job No. 9100 dated from 23-11-2021 to 24-12-2021 (20 Sheets)
- Copy of signed delivery Notes for Job No. 7500 Dated from 06-12-2021 to 23-12-2021 (5 Sheets).
- Copy of signed day work sheets for Job No. 9101 dated 15-12-2021.
- Copy of waste oil disposal certificates for job No. 1156 (2 Sheets).
- Copy of signed work completed reports (43 Sheets).

Invoice Amount --> 415,648.50

(QAR - Four Hundred Fifteen Thousand Six Hundred Forty-Eight And 50/100 Only)

E & O.E

for QATAR NAVIGATION (Q.S.C)

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