

## 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/012717/2021

DATE: 20/04/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011101 / 1

W/O REF: MLO 21077

Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
1150	<p>BERTHING CERWS:-</p> <p>Berthing crews to be provided during berthing of vessel alongside shipyard's quay.</p> <p>As per our quotation EM 15754 , item B</p>	1,000.00
1151	<p>WHARFAGE CHARGES:-</p> <p>Wharfage charges of vessel whilst alongside shipyard's quay.</p> <p>QRs 1073 per day x 14 days = QRs 15,022.00</p> <p>As per our quotation EM 15754 , item C</p>	15,022.00
1152	<p>FIRE AND SAFETY WATCH:-</p> <p>Fire and safety watch provided.</p> <p>QRs 330 per day x 14 days = QRs 4,620.00</p> <p>As per our quotation EM 15754 , item D</p>	4,620.00
1153	<p>GALLEY GARBAGE SKIP:-</p> <p>Galley garbage skip provided and garbage disposed.</p> <p>QRs 275 per day x 14 days = QRs 3,850.00</p> <p>As per our quotation EM 15754 , item E</p>	3,850.00
1154	SERVICES OF CRANE AND RIGGERS:-	

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Job No	Description	Line Amount
	Not done.	
1155	LOAD TESTING AND MPI:-  Provide yard assistance for Load Test of Cargo Securing Arrangement on Deck. Total 62 locations. MPI carried .  As per our quotation EM 15754 B, item 7.019	9,050.00
1156	PAD EYE LOAD TESTING & MPI:-  Yard support for Load Test of pad eyes in engine room. Total 15 locations. MPI carried out.  As per our quotation EM 15754 B, item 7.020	4,160.00
1157	SCAFFOLDING FOR CHEMICAL AND PAINT LOCKER MODIFICATION:-  Erect and remove scaffolding to carry out modification of chemical /paint locker.  Incl in job no 1808 & 1809	
1158	UT GAUGING:-  UT Gauging carried out on wood removal areas on deck.  As per our quotation EM 15754 C, item 16.001	330.00

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Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
1159	INSULATION WORKS:- Engine room exhaust piping insulation work by subcontractor.	23,290.00
1160	LOAD TEST WEIGHT:- Load test weight provided on hire basis. Incl in job no 1155 & 1156.	
1161	PROVIDE SERVICE TO CPW ESCORT ARRANGEMENT FOR MIC GATE ENTRY:- Job cancelled.	
1162	SUPPLY AND INSTALLTION OF DOOR:- Incl in job no 1803.	
1163	DISPOSAL OF ITEMS:-  Following items disposed.1 5 no:s drums dirty oiled RAGS & Used FILTERS / 1drum used cooking oil.2. 20 no:s Old DG Air filters in one box; (size 40x40x50cm) 6 boxes wasted luminescent tubes; (size 20x20x65cm). 4. 2 boxes electrical waste items: (40x25x25cm).  As per our quotation EM 15754 A	2,000.00
1164	DISPOSAL OF DIRTY OIL:-	11,000.00

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Job No	Description	Line Amount
	13.72 M3 Dirty oil collected from vessel and disposed ashore. 3.40 M3 Bilge Water collected from vessel and disposed ashore. Note: Yard provided 5 Nos of Dirty Oil Tank .	
	As per our quotation EM 15754 A	
1800	W FENDER:-  Existing 'W' fender securing pins removed and damaged fender released from stern 3rd. port from midline. "W" Fender renewed with owner supplied spare. 04 nos. round shape doubler plates fabricated, fitted and welded with securing pins. Doubler plate size - Dia. 90mm X 12mm thick - 04 nos.  As per our quotation EM 15754 B, item 2.001	2,600.00
1801	FABRICATION OF BOXES:-  Job not done.	
1802	LAUNDRY MACHINE INSTALLATION:-  Job not done.	
1803	SUPPLY & INSTALLATION OF PASSENGER DOOR:-  Passenger door and frame removed from position and inspected. Door and frame totally damaged. Yard supplied new door and frame fitted and installed.  As per our quotation EM 15754 F, item 1	5,950.00

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Job No	Description	Line Amount
1804	CHILLER ROOM :-  Not done.	
1805	REPAIR OF GYMNASIUM DOOR:-  Cropped and renewed wasted section of Gymnasium room door and frame. 1.Frame: Crop from bottom, section measuring size 200mm Ht X 950mm width. X 3mm thick G.I. Sheetm and renewed with new plating . 2. 2. Door: Crop from bottom, section measuring 100mm Ht X 900mm Width and renew with new platingDoor bottom plate size - 900mm X 20mm( folding) X 20mm (folding) X150mm X 3 mm thick. - 02 nos. 3. 04 mm aluminum rivet - 150 nos. 4.Stainless steel counter sunk Allen head screw, 5mm X 15mm. - 30 nos.  As per our quotation EM 15754 B, item 8.012	3,050.00
1806	GANGWAY ROLLERS:-  Damaged gangway roller renewed.Installed new 150mm dia. Caster wheel - 02 nos.Provided new stainless steel nut and bolts. M 10 X 50mm long. - 08 nos.Stainless steel washer M 10 - 16 nos. Cracked area repaired by aluminum welding in two locations.  Based on our quotation EM 15754 C, item 16.010	3,000.00

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Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
1807	<p>HOSE CHUTE FOR PORT &amp; STBD BULWARK:-</p> <p>One roller fabricated in Teflon material Teflon roller size : O.D. 116mm X I.D. 62mm X length 450mm -01 nos.02 nos. roller stand fabricated.M.S. Hollow section 80mm X 40mm X 350mm long. - 02 nos.M.S. Plate - 600mm X 100mm X 10 mm thick - 01 nos.2" dia. M.S. Pipe, sch. 80., 500mm long. - 01 nos.1 1/2" dia. M.S. Pipe, sch. 80, 200mm. - 01 nos.2" dia. M.S. Pipe, sch. 80., 200mm long. - 02 nos.Closure plate - 80mm X 40mm X 6mm thick. - 02 nos.Pad eye - 65mm X 65mm X 10mm thick. 02 nos.Bolt &amp; Nut - M 16 X 50mm long - 02 nos.04 mm dia. Split pin - 02 nos.</p> <p>As per our quotation EM 15754 B, item 21.008</p>	2,420.00
1808	<p>PAINT LOCKER MODIFICATION:-</p> <p>Fabricated and welded metal sheet to cover back and sides of existing Paint locker on boat deck. G.I. Sheet sizes:- 750mm X 1780mm X 3 mm. - 02 nos. 1600mm X 1230mm X 3 mm. - 01 nos. 800mm X 550mm X 03 mm thick. - 02 nos.</p> <p>As per our quotation EM 15754 B, item 21.009</p>	2,040.00
1809	<p>CHEMICAL LOCKER MODIFICATION:-</p> <p>Fabricated and welded metal sheet cover back and sides of Chemical locker. G.I. Sheet cover plate sizes:- 750mm X 1780mm X 2.3mm thick.- 02 nos. 1320mm X 2200mm X 3.2mm thick. - 01 nos. 1100mm X 550 mm X 3.2mm thick. - 02 nos.</p>	2,040.00

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Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
	As per our quotation EM 15754 B, item 21.010	
1810	DAVIT REMOVAL:-  Cropped and removed forecastle provision Davit. One M.S. doubler plate welded on provision deck. Size - 420mm dia. X 6mm thick. - 01 nos.  As per our quotation EM 15754 B, item 21.016	2,470.00
1811	FABRICATE AND WELD FISH PLATE:-  Fish Plate installed and welded. Frame No: 05 to 45. Port & Stbd side. M.S. Flat bar, 50mm X 6 mm, 30 mtr., fitted and welded.  As per our quotation EM 15754 D, item 22.004	12,528.00
1812	ANTI-VIBRATION SUPPORT - BT 1 & 2 MOTORS:-  Not done.	
1813	MUSHROOM VENT HEAD WIRE MESH RENEWAL:-  Wire mesh and frame renewed BT air vent head. Frame size: - O.D. 610mm X 4mm thick. I.D. 375mm X 4mm thick. Stainless steel mesh. 08mm hole dia. Size - 601mm X 610mm - 01 nos. Stain less steel bolt and nut, M 6 X 20mm long - 06 nos.  Based on our quotation EM 15754 D, item 16.011	1,370.00

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Job No	Description	Line Amount
1814	FLAP OPERATING SHAFT SEAL RENEWAL:-  Not done.	
1815	DG LOCAL CONTROL PANEL:-  DGs 1,2,4 & 5 Local Control panel door cut to provide opening of Size 340mm X 350mm to install new thermoelectric coolers.  As per our quotation EM 15754 G, item 21.004	1,400.00
1816	EDO8 AC CONTROL PANEL INSTALL COOLING FAN:-  AC control panel side cover provided opening to Size L - 210 mm , B-210 mm for installing new cooling fans.  As per our quotation EM 15754 G, item 21.005	350.00
2200	WOODEN DECK SHEATHING:-  Wooden deck sheathing on main deck 8 nos replaced (Bay no.8 , Bay No.5, Bay no.3, Bay no. 2 & Gangway boarding area) with owner supplied spare (Length - 180cm; Width - 17cm; Thickness - 7cm) Locking flat bar cut and existing sheathing removed. New sheathing placed and locking flat bar replaced. Report specifying planks replaced provided for records.  As per our quotation EM 15754 B, item 16.001	1,920.00
2500	DRAIN PLUGS FABRICATION:-	2,700.00

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Job No	Description	Line Amount
	Fabricated New drain plug thread 10 nos with plug 8 nos thread size aprox 24MM as per client instruction and plug installed back original position	
	As per our quotation EM 15754 B, item 21.013	
2501	FABRICATION OF VALVE SEATS:-  Following valve seats to be fabricated and machined to fit :130 mm dia x 2 nos 100 mm dia x 3 nos 75 mm dia x 1 nos Material : Brass  As per our quotation EM 15754 G, item 1	6,450.00
2502	RESLEEING OF AC COOLING WATER PUMP MOTOR COVER:-  Carry out resleeing of fan motor cover New lock have to fabricated and machined to fit.  As per our quotation EM 15754 G, item 2	1,195.00
5600	STBD FIFI PUMP:-  Fi-Fi Pump Stbd to be dismantled and leaking Lip-seal is to be replaced with owner supplied spare. Pump to be assembled and alignment to be carried out. 1. Disconnect piping to Fi-Fi pump suction flange and discharge flange. 2. Break the choke fast. 3. Remove all 12x nuts. 4. Pull the pump casing off in left direction. 5. When pump casing is off, un-screw the M10 Socket Screw. 6. Remove the Impeller Cap. 7. Pull off the Fi-Fi pump impeller. 8. Dismount the 2x Hexagon head Screws. 9. Pull out the Lip seal assembly. 10. Install the new Lip seal assembly and	15,870.00

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	change of Sleeve11. Place back the Fi-Fi pump casing.12. Carry out alignment before doing choke fast again.Align the pump transmission. Final alignment check must be done after bolted to foundation and Fi-Fi pump Suction/Discharge flanges are connected. Make sure no pipe stress is transferred to the pump flanges. Check alignment is within tolerance.	
5601	REPLACE AC CW PUMP NO.2 WITH NEW:-  Not done.	
5602	FIFI PUMP PORT LO PUMP RENEWAL:-  Job not done.	
5603	FIFI PUMP STBD LO PUMP RENEWAL:-  Dismount hydraulic block from casingRemoving oil pump.Assemble new pump kit supplied by client.Re install the hydraulic blockClearence to be taken and measured.  As per our quotation EM 15754 E, item 22.019	2,260.00
5800	BRAKE LINER RENEWAL:-  Job not done.	
5801	TELESCOPIC GANGWAY REMOVAL /REFIT:-  <del>Provided mechanical assistance for removal.</del>	1,200.00

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Job No	Description	Line Amount
5802	AIR RECEIVER HYDROTEST:-  Carried out air receiver hydrotest insitu. Test pressure 15 bar, Volume : 250  Based on our quotation EM 15754 E, item 12.013	1,350.00
6000	SEWAGE CONNECTION MODIFICATION:-  Sewage connection pipe modified in way of main deck stbd. side. 2" pipe approx. 01 mtr. Long disconnected. Cropped and reduced 350mm height both side. 2" dia. Flange fabricated, fitted and welded on one end.- 01 nos. Other end existing flange cut, refitted and welded. Bolt & Nut. - M 16 X 60mm - 04 nos.  As per our quotation EM 15754 B, item 21.011	1,450.00
6001	Job not done.	
6002	Job not done.	
6003	Job not done.	
7000	AHU FAN MOTOR:-  Job identified with help of ship ETO. Isolated AHU fan motor breaker by ETO. V-belt has been marked removed. 1 No. AHU Blower Motor Fan existing bearing removed on both side of the	6,180.00

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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.  
QRs 4,260.00

BLOWER MOTOR :-

Dismantled motors end covers removed existing bearing from  
rotor shaft. Draw out rotor unit from stator body. Cleaned the  
motors winding by CRC, other parts also cleaned using  
electrical cleaning solvent. Checked insulation value of motor  
stator winding. Found good. Both end covers bring to workshop  
for calibration. Checked bearing clearance of end covers and  
found out both motors DE and NDE was with-in the tolerance.  
Found good. Report prepared submitted QAQC in order to prepare  
final report for client. Re-assembled motor using ship supplied  
bearings. Fixed coupling as per marking. Alignment done. Run  
test carried out. found satisfactory. NOTE: bearings supplied  
by the owner.  
QRs 1,920.00

As per our quotation EM 15754 B, item 5.010

7001	ENGINE ROOM SUPPLY FAN No 1	5,440.00
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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, protection grid, disconnect the power supply cable,  
shifted the Blower assembly away from the hood and brought to  
workshop. Checked motor insulation tested. Withdraw the blower  
fan and cleaned trunk assembly with scraper cleaner. Dismantled  
blower motor to start overhauling. Clean the motors using  
electrical cleaning solvent, cured inside the temperature

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## 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/012717/2021

DATE: 20/04/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011101 / 1

W/O REF: MLO 21077

Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
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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 out DE NDE cover was loosen sent for machine shop for re-sleeving. Required QAQC report prepared sent to QC for preparing final report for client approval. Re-assembled motor using ship 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, nuts washers are renewed by Yard supplied. Reconnected the power cables as per the marking. Satisfactory running test carried out found OK. Access hatch cover Closed properly. Hatch cover gasket also renewed. NOTE: Bearings supplied by the owner. M16x45mm ss bolts and nut supplied by the yard. (16 Nos). and shift aside. Removed the foundation bolts of blower trunk, protection grid, disconnect the power supply cable, shifted the Blower assembly away from the hood and brought to workshop. Checked motor insulation tested. Withdraw the blower fan and cleaned trunk assembly with scraper cleaner. 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 out DE NDE cover was loosen sent for machine shop for re-sleeving. Required QAQC report prepared sent to QC for preparing final report for client approval. Re-assembled motor using ship 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, nuts washers are renewed by Yard supplied. Reconnected the power cables as per the marking. Satisfactory running test carried out found OK. Access hatch cover Closed properly. Hatch cover gasket also renewed. NOTE: Bearings supplied by the owner. M16x45mm ss bolts

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for QATAR NAVIGATION (Q.S.C)

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Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
	and nut supplied by the yard. (16 Nos).	
	As per our quotation EM 15754 B, item 5.029	
7002	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, protection grid, disconnect the power supply cable, shifted the Blower assembly away from the hood and brought to workshop. Checked motor insulation tested. Withdraw the blower fan and cleaned trunk assembly with scraper cleaner. 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 good. Required QAQC report prepared sent to QC for preparing final report for client approval. Re-assembled motor using ship 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, nuts washers are renewed by Yard supplied. Reconnected the power cables as per the marking. Satisfactory running test carried out found OK. Access hatch cover closed properly with new gasket. NOTE: Bearings supplied by the owner. M16x45mm ss bolts and nut supplied by the yard. (16 Nos).	5,440.00
	As per our quotation EM 15754 B, item 5.030	

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for QATAR NAVIGATION (Q.S.C)

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EXPENSE A/C: 85.901.1434006

W/O NO: 21-011101 / 1

W/O REF: MLO 21077

Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
7003	ENGINE ROOM EXHAUST FAN:-	5,440.00

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, protection grid, disconnect the power supply cable, shifted the Blower assembly away from the hood and brought to workshop. Checked motor insulation tested. Withdraw the blower fan and cleaned trunk assembly with scraper cleaner. 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 out DE cover was loosen sent for machine shop for knurling. Required QAQC report prepared sent to QC for preparing final report for client approval. Re-assembled motor using ship 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, nuts washers are renewed by Yard supplied. Reconnected the power cables as per the marking. Satisfactory running test carried out found OK. Access hatch cover Closed properly. Hatch cover gasket also renewed. NOTE: Bearings supplied by the owner.

As per our quotation EM 15754 B, item 5.031

7004	GALLEY EXHAUST FAN MOTOR:-	5,200.00
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1 No's. Motor 0.35kw disconnected, lifted shifted to workshop along with fan trunk. Visual inspection done. Value of motor winding checked value recorded. Fan was marked removed from rotor shaft of motor. Dismantled motors end covers removed

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for QATAR NAVIGATION (Q.S.C)

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EXPENSE A/C: 85.901.1434006

W/O NO: 21-011101 / 1

W/O REF: MLO 21077

Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
	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. Found out value was more than the tolerance insulation value recorded. Checked bearing clearance of each end covers. Each end covers knurling done. Report prepared submitted QAQC to prepare final report for client. Re-assembled motor using ship supplied bearings 6202 RS - 02 PC's. Fan fixed as per marking. Motor tested in workshop. Shifted back to On-board installed. Prepared new gasket renewed bolts. All power cables re-connected as per original marking. In addition, on-board test carried out. NOTE: Bearings supplied by the owner.	
	As per our quotation EM 15754 B, item 5.035	
7005	Job not done.	
7006	Job not done.	
7250	CALIBRATION OF FLOW METERS:-	6,600.00
	4 Nos flowmeters to be calibrated and certificate issued. Meters to be opened and fitted back by ship's staff.	
	As per our quotation EM 15754 E	
7500	SUPPLY OF ITEMS:-	3,440.00

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for QATAR NAVIGATION (Q.S.C)

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W/O NO: 21-011101 / 1

W/O REF: MLO 21077

Vessel Name/Description : M.V. "HALUL-82"

Job No	Description	Line Amount
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Hempadur 45880-11480-grey - 60 litre

Hempadur 45880-Green 20 litre

Hempadur Enamel white 60 litre

Thinner 8080 - 20 litre

Primer Red 40 litre

SUPPLY OF GAS CYLINDER:-

Nitrogen cylinder 3 no's supplied.

SS Bolt and nut supplied : 30 nos

Invoice Amount --&gt;

185,675.00

(QAR - One Hundred Eighty-Five Thousand Six Hundred Seventy-Five Only)

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