

## QATAR NAVIGATION (QPSC)

## SHIP REPAIR &amp; 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

## INVOICE

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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard  
WS  
PO Box 153, Doha - Qatar

INVOICE NO : SFWK-INV-013054-2021

DATE : 3/11/2021

W/O Number : 21-011161

W/O Ref : MDO21130

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
1102	<p>ALONGSIDE CHARGES:-</p> <p>Berthing crew provided : QRs 1000.00  Wharfage charge of vessel : QRs 990 per day x 85 days = QRs 84,150.00  Fireline proved: QRs 200 per line x 2 lines x 85 days = QRs 34,000.00  Connection and disconnection of fire line = QRs 275 per connection x 2 nos = QRs 550.00  Fire and safety watch provided whilst vessel is on alongside : QRs 330 per day x 85 days = QRs 28,050.00  Galley garbage skip provided : QRs 275 per day x 85 days = QRs 23,375.00  Access gangway provided x 85 days = QRs 50 per day x 85 days = QRs 4,250.00</p>	175,375.00
1155	<p>SCAFFOLDING:-</p> <p>Service of scaffolder provided to works under client representative/ client arranged sub contractors for FIFI line modification.</p> <p>QRs 80 per hours x 137 hours = QRs 10,960.00</p>	10,960.00
1165	<p>ESCORT FOR CRANE MATERIAL TRANSPORT:-</p> <p>Arranged police escort service for crane materials transport inside Mesaieed industrial city as requested by client.</p>	1,350.00
1168	DORY BOAT SHIFTING:-	1,200.00

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Job No	Description	Line Amount
	1 No dory boat transported from HOSC area to yard jetty. As per our quotation EM 15821 K, item no 1	
1169	ARRANGING OF SCAFFOLDING :-  Scaffolding arranged around new pedestal for technovencture work as per client's instruction and later removed on completion.	2,870.00
1170	SERVICES OF CRANE :-  Services of 120 Tons mobile crane to shift weights from port to stbd side of the vessel.  As per our quotation No. EM 15821 U, item No. 1.1	6,600.00
1171	SERVICES OF CRANE AND RIGGERS:-  Carried out offloading 70pcs wooden plank from Halul-29 deck to H27 deck.	2,080.00
1172	MPI TEST:-  MPI test carried out on crane pedestal and hook after completion of load test. NDT test carried out on FRC Davit.	1,100.00
1204	MAIN DECK BLASTING AND PAINTING (Only deck wooden plank area) :-  Grit Blast to SA 2.0 to below deck wood area on main deck. Fresh water rinsing -1 time	38,666.00

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EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
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Apply owner supply paint - 2 full coats  
Grit removal from main deck and disposal  
Barricade to be install on sides and necessary tarpaulin cover  
to be used.

QRs 31,184.00

As per our quotation EM 15821 M, item nol

BULWARK AREA POWER AND PAINTING :-

HP Jet washing with fresh water

Chipping and Power tool cleaning on the rusty area

HP Jet washing and cleaning

Applied owner supply paint ( One coat primer and one top coat)

- 2 full coats

Note :- Paints and thinner owner supplied

QRs 7,482.00

As per our quotation EM 15821M, item 2

1205	SURFACE PREPARATION OF NEW CRANE :-	21,264.00
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Covering of necessary items.  
Carry out power tooling and washing of new crane parts.  
Carry out paint 2 coats  
Erect and remove scaffolding.

As per our quotation No. EM 15821I, item No.1

1206	DECK CLEANING -	6,516.00
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Total area 350m2  
Full air high pressure jet washed and cleaned for inspection as  
requested by client.

As per our quotation EM 15821 K, item no 2

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Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
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1209	PAINTING OF DECK CRANE PEDESTAL AND MUD TANK IWO CRANE PEDESTAL PREPARATION :-	15,568.00
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Deck Crane pedestal and Mud Tank iwo of (crane pedestal)

PreparationCrane Pedestal (30m<sup>2</sup>)

1. Oil and grease etc. to be removed by detergent. Entire area to be (high pressure) freshwaterwash @ min. 250 bar.

2. Power tool clean damaged / corroded areas to St 2

3. Remove dust and other contaminants completely before paint application.4.

Apply 3 coats paint as per specification (recommended same system as crane)

Mud Tank area iwo of Pedastal (100m<sup>2</sup>)

1. Oil and grease etc. to be removed by detergent. Entire area to be (high pressure) freshwaterwash @ min. 250 bar.

2. Power tool clean damaged / corroded areas to St 2

3. Remove dust and other contaminants completely before paint. application.

4. Apply 3 coats paint as per specification (recommended same system as crane)

As per our quotation No. EM 15821 P Revised, item No. 1

1803	INSTALLATION OF CRANE PEDESTAL AND CRANE (REF#5&6) :-	332,000.00
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Client supplied crane units offloaded from client arranged transport, using yard arranged forklift and mobile crane.1 No.

client supplied crane pedestal (deck area part) received,

bottom shape cut as per suit to tank top as per client supplied

drawing No. YM-J 2336-220-00, Rev. 0, installed and

welded.

Services of Mechanics, riggers, Steel fabricators,

Welders, carpenters, electricians and equipment's (200 tons

mobile crane) provided by us and one in no deck crane

assemblies (Crane boom, tower body with pedestal, rope main

hoist, hook swivel ), masking materials removed, cleaned by air

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blow and installed in position vessel at alongside our shipyards quay as per crane installation manual. Necessary Electrical cable laying carried out from ECR to aft steering room using Client supplied 95 x3 mm square cable approx. 60 meters.

Internal additional reinforcing deck plate and tank top plate carried out as per client supplied drawing YM-J 2336-220-00, Rev. 0 (Excluding aft deck strengthening sections which are included in item No.5). One No. Manhole cropped, shifted and welded as per shown in drawing. One No. New water tight Manhole fabricated and welded in side pedestal main on deck as per shown in drawing. Pedestal Joint bolts torque tested. Crane load test carried out in presence of client arranged Third party surveyor. Scaffolding arranged for access and later removed on completion.

As per our quotation No. EM 15854 Revised, item No. 4 (QRs. 332,000.00).

1804	STRENGTHENING OF AFT DECK (REF#7) :-	116,200.00
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Aft deck strengthened as Client supplied drawing No. YMJ23360202-01, Rev.1 and drawing No. YM-J 2336-220-00, Rev. 0 using material grade S275JR or equivalent consisting following sections. Pillar size HEB240 x approx. 700mm long provided with both end closing plate - 2 Nos. Pillar size HEB240 x approx. 1000mm long provided with both end closing plate - 2 Nos. Port and stbd. Longitudinal deckhead 'T' section Web size 230mm x 10mm and flange size 100mm x 12mm x 5400mm long - 2 Nos. Port and stbd. Longitudinal deckhead Angle bar size 100mm x 100mm x 10mm thickness x 1200mm long - 2 Nos. Bracket size 300mm x 300mm x 10mm thickness provided with 75mm flange - 8 Nos. Port and stbd. flat bar below of pillar size 100mm x 12mm thickness x 380mm long 2 Nos. Port and stbd. Longitudinal deckhead 'T' section Web size 380mm x 12mm and flange size 250mm x 20mm x

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3000mm long - 2 Nos. Port and stbd. Transverse deckhead 'T' section Web size 380mm x 12mm and flange size 250mm x 20mm sizes as follows. Web size 380mm x 12mm x approx. 6320mm long - 2 Nos. Flange size 250mm x 20mm x approx. 6320mm long - 2 Nos. Web size 380mm x 12mm x approx. 3800mm long - 2 Nos. Flange size 250mm x 20mm x approx. 3800mm long - 2 Nos. Web size 380mm x 12mm x approx. 4350mm long - 2 Nos. Flange size 250mm x 20mm x approx. 4350mm long - 2 Nos. Surface area of new steel Grit blasted and applied with one coat shop primer. As per our quotation No. EM 15854 Revised, item No. 5 (QRs.116,200.00)

1805	MODIFICATION OF 55 T SWL DOUBLE CRUCIFORM BOLLARD (REF#8) :-	9,200.00
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Following sections fabricated and welded in way of forward double bollard base. Stringer plate size 1575mm x 590mm x 12mm thickness ( 04 nos) provided with 75mm folding ( 550mm long-02 nos, 900mm long- 2 nos)- 4 Nos. Bracket size 580mm x 290mm x 12mm thickness -2 Nos. Flange size - 500mm X 75mm X 12 mm. - 02 nos. Bracket inside deck plate- 275mm X 175mm X 12mm - 02 nos. Fitted and welded. Existing Bollard platform cut removed for access and later refitted and welded.

As per our quotation No. EM 15854 Revised, item No. 7 (QRs.9,200.00)

1806	FABRICATION AND INSTALLATION OF BOOM REST :-	52,700.00
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One in no. boom rest fabricated as per client supplied drawing No. YM-J 2336-220-000 Overall size 5301mm height x 1575mm width provided with 2 Nos. main pillar. M.S. Pipe, 12" dia, 4875mm Long - 02 nos. Sch. 80, 4" dia pipe- 990 - 03 nos. M.S. Plate - O.D. 400mm X 16mm thick.- 02 nos. Bracket - 990mm X 400mm X 16mm thick - 01

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nos.M.S. Flange - 990mm X 150mm X 16mm thick.Bracket, 350mm X250mm X 12mm thick. - 02 nos.M.S. Plate - 2025mm X 800mm X 16mm thick. - 01 nos.M.S. Plate - 1000mm X 800mm X 16mm thick - 02 nos. Bracket - 500mm X 300mm X 12mm thick. - 06 nos.M.S. Flat bar - 1000mm X 90mm X 10mm thick. - 04 nos.800mm X 90mm X 10mm thick - 02 nos.660mm X 90mm X 10mm thick. - 04 nos.4375mm X 65mm X 12mm thick. - 02 nos.M.S. Square bar (20mm) 450mm long - 18 nos.M.S. Flat bar - 1000mm X 200mm width X 16mm thick - 04 nos. M.S. Flat bar - 65mm X 600mm long X 12 mm thick - 06 nos.M.S. Flat bar - 65mm X 150mm long X 12 mm thick - 02 nos. Boom rest doubler plate fabricated installed and welded, Below material used,20mmX410mm dia 01 no,20mmX260mmX500mm 03 no,Boom rest flat bar 10mmX100mmX8000mmHole M12mm 52 no,Wood lock flat bar 12mmX100mmX12000mmDrill hole M12mm 60 no, Cutting grinding fit up and welding is done.Offer to client and found satisfactory.

As per our quotation No. EM 15854 Revised, item No. 3 (QRs.52,700.00).

1807	INSTALLATION OF MEZZANINE DECK (REF#3) :-	29,200.00
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Existing fabricated Mezzanine deck overall size 6600mm long x 4000mm along with loose items shifted to Jetty area, lifted, installed and welded. Main deck wood at 2 location in way of pillar removed and later modified and fitted with side wood retaining bars.450mm X 450mm X 8mm thick.

As per our quotation No. EM 15854 Revised, item No. 1 (QRs. 29,200.00).

1808	INSTALLATION OF CRADLE ON MEZZANINE DECK (REF#4) :-	4,100.00
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Client supplied 1 No. cradle installed on Mezzanine deck

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Necessary Deck doubler plates fabricated and welded.

As per our quotation No. EM 15854 Revised, item No. 2  
(QRs.4,100.00)

1809	INSTALLATION OF PLATE ON DECK FOR TOWING ARRANEMENT :-	23,274.00
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Installed 12 mm plate upto the center of the deck from shark jaw.

Welded a 12 mm flat bar boarder.

Size : 10820 x 1800 mm x 12 mm thick - 1 no

Flat bar 1800 x 70 mm x 12 mm thick - 12 nos

1810	CUTTING OF HOLES - TOP OF WINCH HOUSING LOCATION :-	6,882.00
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04 nos. opening cut and installed 04 nos. owner supplied windows and frame in winch housing. Size - 1000mm wide x 845mm long. Window installed and welded. Inner side welding outer side sika flex ( Sika flex C- 95 - 02 nos.) applied. Erected and removed scaffolding in winch housing location. Arranged fire protection coverings on the winch while carrying out the work.

As per our quotation EM 15821B, item 2

1813	ACCESS WORKS FOR AFT DECK MODIFICATION :-	16,425.00
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In steering room Stbd Filing line modification IWO deck strengthening extra angle support. Dia 4 inch pipe 1.5 meter long pipe cut from position and modified with provide (Yard supply New elbow 45deg sch 80 x 4 no. and 4 inch flanges 2 no One flange weld in position) after blasting painting fixed in position. = 01 pipe Aft peak blast tank sea water line modification port and stbd side Dia 4 inch pipe 1.8 meter long pipe cut from position and modified with provide ( Yard supply



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New elbow 90 deg. sch 80 x3 no.and 4 inch flanges 2 no. One flange weld in position )after blasting painting fixed in position. = 01 pipeDia 4 inch pipe 2.1meter long pipe cut from position and modified with provide( Yard supply New 4 inch pipe 500 mm long sch80 & elbow 90 deg. sch 80 x3 no.and 4 inch flanges 2 no. One flange weld in position )after blasting painting fixed in position. = 01 pipeAccess work Chequered plate 1000 mm X 900 mm removal and refix =04 nos.foundation Angle cutting 50 x 50 x 600 mm long = 04 nos. After modified the pipe refit.

## HYDRAULIC LINES REMOVAL AND REFIT

38 mm pipe 7 meter long =02 28 mm pipe 7 meter long =0222 mm pipe 6 meter long = 0122 mm pipe 8 meter long = 01h10 mm pipe 7 meter long = 02 Saddle support renewal 38 mm = 07 28 mm = 0722 mm =06 10mm =04 For Saddle support provide new Angle in 5 location each angle 300 mm long.

As per our quotation No. EM 15854A Revised, item No. 3 (QRs. 9,030.00).

B) STEERING ROOM OVERHEAD AREA CABLES REMOVAL AND REFITTING :- Steering room port and stbd deckhead area passing Cables (All steering hydraulic motor cables, Solinoid and limit switch control cables disconnected, removed for access and later refitted and connected on completion of aft deck modification works.

As per our quotation No. EM 15854B, item No. 1 (QRs. 7,395.00).

1814	REMOVAL OF SPARE WINCH :-	5,180.00
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Spare winch connections disconnected. Spare winch foundation cropped. Winch with foundation lifted and shifted to HOSC storage area.Winch foundation area deck gouged and ground to level.Winch hydraulic lines blinded from deck.Winch over all size - 2400 X 2800mm.Brackets - 440mm X 230mm - 05 nos.Winch guard pipe cut, gouged and grinded. - 8" dia. pipe.Coaming cut, gouged and grinded- 9000 mm. Length.Winch hydraulic

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	stand, cut, gouged and grinded. Base plate cut, gouged, and grinded, size - 400 mm X 400 mm.- 01 nos.  As per our quotation No. EM 15854A Revised, item No. 4 (QRs. 5,180.00).	
1817	DRAIN HOLE FOR CONTAINER SECURING FRAME :-  Drain Holes provided by gas cutting for container securing frame as instructed by client - 16 nos location  QRs 100 per hole x 16 nos = QRs 1,600.00  As per our quotation EM 15821 J, item 2	1,600.00
1819	REMOVAL OF OLD CRANE HYDRAULIC LINE :-  Old crane hydraulic line and tray removed from the stbd side. Erect and remove scaffolding to carry out the job. As per our quotation No. EM 15821L, item No. 2 (QRs. 6,445.00).	6,445.00
1820	REPAIR OF CRANE DOOR :-  New crane left door slightly came down & top side same repaired using new washer and refitted.	1,200.00
1821	INSTALLATION OF FLAT BARS :-  Main deck wood lock flat bar renewed in various locations, below materials used Size 80mm x 15 meters total length (fitted and welded in small pieces in various locations.) Size 40mm x 15 meters total length - fitted in various location in	13,910.00

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	small pieces.Straightening done of 06 nos. As per our quotation EM 15821N, item 1	
1822	INSTALLATION OF SCRAMBLE UNIT :-  Installation of client supplied scramble net, crop and remove 2 nos. of bracket and install 2 nos in other location with yard supply plate as per below sizes.- 12mm x 150 x 600 - 02 nos. - 12mm x 250 x 1000 - 01 no. Lifting with help of chain block and riggers. As per our quotation EM 15821N, item 2	5,972.00
1823	INSTALLATION OF SUPPORTS WITH "T" BAR:-  Crop and removed and renewed existing T bar in various locations total length 35 meters of size - 80 x 75 x 12mm As per our quotation EM 15821N, item 3	6,825.00
1824	CRASH RAIL MODIFICATION :-  Crash rail foundation renewed, shifting and cutting gouging, below materials used.Diameter 22mm drill hole 04 nos. 12 x 400 x 150mm - 02 nos. SS bolt M18 x 60mm long with nut and washer - 04 sets.02 nos. flange straightening done - size 400 x 120 x 40mm - 02 nos. As per our quotation EM 15821N, item 4	3,180.00
1825	FABRICATION OF COVER FRAME :-  Cover frame fabricated using angle for manhole in way of crane	1,330.00

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pedestal.1 no. plug heated, below materials used.MS angle 75 x  
50 x 8mm - 03 meter long

1827	DECK AREA STEEL WORKS:-	16,800.00
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Refitted deck wood removed for access.  
Wood cut to shape and fitted with newly fabricated structure.  
(platform walkway on center)  
Rewelded wood securing flat bar cropped removed and new flat  
bar to be fabricated ,fitted and welded.  
Additional slot holes provided on new plate for connected with  
newly fitted T bar.

As per our quotation EM 15821 Q, item no 3

1829	MISC STEEL WORK IN CEMENT ROOM :-	2,030.00
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One no eye pad fabricated and installed.  
Mesh platform cut and modify (size 300 x 300 mm )As per client  
instruction, Cutting Grinding And Welding done,  
Below material used yard supply:-  
One No Flat Bar (50mmX500mmX6mm).  
One No eye pad(100mmX130mmX16mm) with Hole dia size 50mm

As per our quotation EM 15821R, item 1

1830	FABRICATION OF DRIP TRAY AROUND NEW CRANE PEDESTAL:-	5,144.00
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Crane drip tray to be fabricated, fitted and welded on main  
deck for crane pedestal and crane pedestal wood lock  
plateinstalled, below material used.MS plate 10mmX200mmX8500mm  
dia,MS pipe for drain 600mm X 1 inch X sch 40 01 no,Threaded  
socket 1 inch 01 no,MS threaded plug 01 no,wood lock plate in  
radios OD 2840 x ID 2730 x10mm dia,12mmX140mmX4100mm taper

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W/O Ref : MDO21130

EXPENSE A/C : 85.901.1434006

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Job No	Description	Line Amount
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plate 01 no, cutting fitting and welding done offer to client and found satisfactory.

As per our quotation No. EM 15821 S Revised 2, item No. 1.

1831	FABRICATION OF CRASH RAIL NEAR TO NEW CRANE PEDESTAL:-	16,600.00
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New crane pedestal guard rail to be fabricated, fitted, and welded on main deck.

Below material used:

MS pipe 2 1/2' x SCH 80 x 1670mm 06 no, Elbow 90 degree 2 1/2' 06 no, Elbow closing doubler plate 10mmX60mm dia 06 no, Bending pipe 830mmx2 1/2' 20 no, Bracket 10mmX150mmX200mm 06 no, Door hook round bar 12mm X750mm long 01 no, Pad eye 20mmX60mmX70mm 01 no, Pad eye 10mmX60mmX70mm 01 no, Cutting grinding fitting and welding is done, Offer to client and found satisfactory.

As per our quotation No. EM 15821 S Revised 2, item No. 2.

1832	RELOCATING OF CONTAINER FOOT PRINT:-	5,800.00
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Container's twist lock gouged and removed from main deck, twist lock angle bar based gouged removed and reused. Below material used.

1 Container twist lock gouging grinding and welding 4 location 4 no,

Twist lock angle bar base frame gouging grinding 02 location, size 685X565x10mm 02 no,

2 Twist lock angle bar base frame fit up 02 location size, 685mmX565mmX10mm 3 Angle bar frame fabricated and install on main deck size 685mmX565mm 02 no, 4 100mmX100mmX10mmX1300mm 02 no, cutting grinding fitting and welding is done, MPI inspected and found satisfactory.

As per our quotation No. EM 15821 T, item No. 1.

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Vessel Name/Description: M.V HALUL 29 - Project Works

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1833	FABRICATION AND INSTALLATION OF RUNG LADDER:-	5,300.00
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Step ladder fabricated and installed in side crane pedestal and inside port side Mud tank ladder. Below material used, Ladder size 2200mmX350mm 01 no, Flat bar size 12mmX60mmX2200mm 02 no, Square bar 20mmX20mmX350mm 08 no, Holding bracket 12mmX60mmX150mm 04 no, Drill hole 14mm 08 no, Nut and bolts SS M12, 50mm long 04 no, Washer SS M12, 08 no, Squire bar bending steps 25mmX25mmX120X120X400mm 06 no, Fit up and welding is done of squire bar step ladder and mud tank steps ladder, Offer to client and found satisfactory.

As per our quotation No. EM 15854C Revised, item No. 1.

1834	PERSONNEL FOR HANDLING WEIGHTS :-	18,720.00
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Oil Trays for damping pendulum oscillations fabricated welded and installed on board, Bellow material used. Tank for pendulum fabricated welded and installed size 500mmX1200mmX500mm 03 no, MS bottom plate 06mmX500mmX1200mm 03 no, MS side plate 06mmX500mmX1200mm 06 no, MS side plate 06mmX500mmX1200mm 06 no, MS angle bar 50mmX50mmX06mm X1.5 MTR, MS pipe 1 1/2" 80 sch 16MTR Round bar 20mmX60mmX60mm 03 no, cutting grinding and welding is done, Offer to client and found satisfactory.

As per our quotation No. EM 15821 U, item No. 1.2

1835	SPARE ANTI HEELING PUMP STAND:-	2,000.00
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Spare anti heeling pump stand fabricated, welded and installed in cement room, Below material used. Angle bar 100mmX100mmX10mmX620mm 04 no, Angle bar 100mmX100mmX10mmX565mm 02 no, Angle bar 100mmX100mmX10mmX360mm 02 no, Base plate 125mmX125mmX10mm 04 no, Drill hole M19mm 12 no, Nut and bolts M16mm SS long 70mm 12 no, Washer M16mm SS 12 no, Cutting

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Job No	Description	Line Amount
	grinding and welding is done, Offer to client and found satisfactory. As per our quotation No. EM 15821 X, item No. 1.	
1836	MODIFICATION OF CONTAINER SHOE COVER & MODIFICATION OF CRANE LADDER AND DECK SLOP PLATE :-  A) 1 No. container's shoe cover modified. B) New crane's ladder's cage ring cut removed as per client's instruction (1 No. cage ring kept in position). - New crane main hole cover holding lock fabricated , welded and installed on board. Below material used: Hook round bar - 12mm x 800 mm x 2 nos Pad eye : 10 mm thick x 80 mm x 60 mm x 1 nos U type lock 20 mm x 60 mm x 60 mm - 1 no C) Deck plate area slop plate fabricated and welded to size 4300mm long (total) x 140mm x 12mm thickness(in pieces).  As per our quotation No. EM 15821 X, item No. 3	2,400.00
1838	PAD EYES:-  Angle frame for lock wood and Pad eye securing of deck crane hooks fabricated and installed on deck hooks, Below material used.Angle bar 8mmX75mmX75mm size 08mmX500mmx350mm 02 no,`Doubler plate 12mmX225mmx225mm 02 no,Bracket plat 16mmx185mmx170mm 02 no,Handle bending with heating torch round bar 25mmx600mm 02 no, Cutting grinding fit up and welding is done, Offer to client and found satisfactory.	3,600.00
2200	DECK WOOD RENEWAL :-	88,080.00

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Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
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New flat bars for wood lock fabricated welded and installed.  
All main deck of different locations for woods lock properly,  
Below material used:  
Flat bar 10mmx 30mm x 30 MTR,  
Flat bar 10mmX80mmx6MTR,  
Cutting grinding fit up and welding is done, Offer to client  
and found satisfactory.  
Starboard side main hole cutting and refitted after cleaning  
tank on main deck .Hole size 16mmX450mmX600mm 01 no,Cutting  
with gas cutter, Bevelling, grinding, fit up and welding  
done.Offer to client and found satisfactory.  
Deck Wood All deck woods removed total -1101  
Install new wood cut size - 1800X 150X 70mm --- 1021nos  
Install New wood cut size - 1300 X 150 X 70mm - 80nos  
Note: All woods supplied by client.

Based on our quotation EM 15821J, item 1

2405	CLEANING OF TANKS 1 PS & 1 STBD IWO OF PEDASTAL INSTALLATION :-	28,496.00
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Opened manholes, gas freed the tanks  
Carried out cleaning and HP washing of tanks - 2 nos  
Mud removed from tank and disposed ashore - 20 Ton

As per our quotation EM 15821 E, item E, item 1

2502	NEW CRANE PIN WORKS :-	1,950.00
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02 nos pin modified as per client instruction made grease  
nipple from one side approximate 180mm long. drilled hole on OD  
173mm from face 6mm diameter hole drilled through, both side  
made groove 1.5mm deep 110mm long.

As per our quotation No. EM 15821M, item No. 3 (QRs. 1,950.00)



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Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
2504	MANUFACTURE OF BRASS PLUGS :-  03 nos brass plug fabricated new to suit anti heeling pump body female thread as per client instruction. details as below. 1. 02 nos 3/8 BSP thread plug. fabricated from 25mm H/B 22mm long. 2. 01 nos 1/2" BSP thread plug. fabricated from 25mm H/B 25mm long.  As per our quotation No. EM 15821 U, item No. 2	650.00
2505	BLIND FLANGE FOR FIFI MANIFOLD:-  1 nos MS Blind flange manufactured with OD 405mm diameter, 25mm thickness, with 26mm drilled hole 12 nos at PCD 355mm.one sideface machined.  As per our quotation No. EM 15821 W, item No. 1.	575.00
2800	CYLINDRICAL FENDER :-  Cylindrical fenders size approx. 590mm OD x 300mm ID to be remove and fit back- 12 pc : QRs 16,200.00 Cylindrical fenders taken to workshop and cut into two piece. Eye pad to weld. Scaffolding to erect and remove. QRs 2000.00  As per our quotation EM 15821 D, item no 1	18,200.00
5850	REMOVAL OF 5 TONS CRANE (REF#10) :-  One No. existing 5 Tons crane (Crane boom, tower body with upper pedestal) dismantled and removed. Deck area welded pedestal to be cut removed from main deck and removed and deck area to be ground to level. Crane's boom rest cut and	21,100.00

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removed.

Necessary deck wood work carried out in way of pedestal area.

Necessary scaffolding arranged for acces and later removed on completion. Tank gas freed and gas free tested.

As per our quoattion No. EM 15854 Revised, item No. 9

6002 INSTALLATION OF ANTI-HEALING SYSTEM :-

102,450.00

Anti-healing pump foundation fabricate and installed in cement tank compartment .M s angle 100x100x10 x 660 mm long = 04 nos, Top side of angle 110x125x20 mm thick plate with provide 3 drill hole dia 18 mm to each plate =04,Bottom doubler plate size each 125mm x 125mm x 12mm thickness = 04 nos.Ms angle 75x75x08 x 1200 mm long = 02 nos.Bottom doubler plate size each 125mm x 125mm x 12mm thickness = 04 nos.10 mm plate x 350 mm long x 200 mm hight with provide four drill hole dia 24 mm eachplate = 02 nos.Anti healing line fabrication Tank no. 03 inside

Port to IWO of cement room up to STBD side Tank no. 03 STBD.Dia 12 inch pipe sch 80 x 2650 mm long with provide 12 inches 01 flanges (PN 16) )01 flange Yard fabricated flange as suitable to VALVE = 02 pipeDia 12 inch pipe sch 80 x 2250 mm long with provide 12 inches 02 flanges (PN 16), One elbow 22.5° Sch 80 = 01 pipeDia 12 inch pipe sch 80 x 2150 mm long with provide 12 inches 01 flanges (PN 16) ,Other side 10 "" fabricated Flange which is suitable to Anti healing pump Housing flange, One Concentric Reducer 12"X10" Sch 80, One elbow 22.5° Sch 80 = 01 pipeDia 12 inch pipe sch 80 x 1400 mm long with provide 12 inches 01 flanges (PN 16) ,Other side 10 " fabricated Flange which is suitable to pump Housing flange, One Concentric Reducer 12"X10" Sch 80, Two elbow 45° Sch 80 = 01 pipeDia 12 inch pipe sch 80 x 270 mm long with provide 12 inches 01 flanges (PN 16) )01 flange Yard fabricated flange as suitable to VALVE = 02 pipeDia 12 inch pipe sch 80 x 270 mm long with provide 12 inches 02 flanges (PN 16) = 02 pipe Anti healing

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pipe support support Hight 220mm, width 450mm with provide two drill hole dia 12mm to each support = 04 nos.(Ms angle 100x100x10 x 2400 mm long )Bottom doubler plate size each 125mm x 125mm x 12mm thickness = 08 nos.support Hight 510mm, width 450mm with provide two drill hole dia 12mm to each support = 04 nos.(Ms angle 100x100x10 x 6000 mm long .)Bottom doubler plate size each 125mm x 125mm x 12mm thickness = 08 nos.12" U bolt = 09M22 GI stud bolt 200 mm long & 2 nut to each(for Valve ) = 24 nos M22 GI bolt and nut 90 mm long = 96 nos. M20 GI bolt and nut 90 mm long = 16 nos.

INSIDE OF TANK NO. 03 PORT AND STBD SUCTION PIPE Dia 12 inch pipe sch 80 x 1800 mm long with provide 12 inches 01 flanges (PN 16), One Elbow 90° Sch 80 . One reducer 14'X12"x 300 mm long fabricated reducer (Fabricated from 14 " pipe sch 40)= 02 pipe.

Striker plate inside the tank 10 mm x 500 mm x 800 mm long -2 nos

As per our quotation No. EM 15854 Revised &, item No. 10 & EM 15854A Revised, item No. 2 (QRs. 71,000.00 + QRs. 31,450.00 =QRs. 102,450.00).

6003	DECK GUARD RAIL PIPE RENEWAL :-	18,495.00
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Existing guard rail pipe cut into small part and removed. Eye pad area grinded smoothly.Pipe to rolled to fit as similar to existing one.Fabricated, installed and welded deck guard rail pipe.Pipe size - 3" dia., Sch 40, 17.5 mtr. Total length. - 01 nos. Erected staging.

As per our quotation EM 15821 C, item no 3

6004	CRANE PEDESTAL INSTALLATION AREA TANKS PIPES MODIFICATION :-	19,300.00
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Crane pedestal installation area Pipe cut and removed from Port

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mud tank for access of crane pedestal pipe.

Details as below.

Dia 5 inch pipe 4.5 meter long cut from mud tank area and removed from tank and rest of pipe Blind in two location with provide 10mm Ms plate doubler dia 140 mm.

Dia 3 inch pipe 2.5 meter long cut from mud tank area and removed from tank and rest of pipe Blind in two location with provide 10mm Ms plate doubler dia 90 mm.

Dia 3 inch pipe Filling line 4.5 meter long cut from mud tank area and removed from tank and (After installation of crane pedestal pipe, Re rooting of pipe with provide 2 bend New and existing pipe 3.8 meter long weld to both end connect to filling line )

Dia 4 inch pipe Filling line 4.2 meter long cut from mud tank area and removed from tank and (After installation of crane pedestal pipe, Re rooting of pipe with provide 2 bend New and existing pipe 4.8 meter long weld to both end connect to filling line )

Dia 3 inch pipe 4.5 meter long cut from mud tank area and removed from tank and rest of pipe Blind in two location with provide 10mm Ms plate doubler dia 90 mm.

As per our quotation No. EM 15854A Revised, item No. 5 (QRs. 19,300.00).

6005	ACCESS AND MODIFICATION WORKS INWAY OF ANTI-HEELING SYSTEM PIPE LINE PASSING :-	92,400.00
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Fresh water line modification IWO of anti healing line For center tank.

Stbd side 4" dia. pipe x 5.5 meter long pipe dismantle and shifted to workshop and modified with new elbow size 4" dia. , 45deg, Sch 80,- 3 No. and after modification of pipe blasted,painted fix back in position - 1 No.

For port side tank stbd passage area

Dia 4 inch pipe 3 meter long pipe dismantle and shifted to

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workshop and modified with provide new elbow 45 deg. Sch 80, dia 4 inch 03 no. ( Existing 2 flanges cropped by machine shop and reused ) And after modification of pipe blasted, painted fixed back in position - 1 No.

For stbd side

Dia 4 inch pipe 4.8 meter long pipe dismantle and shifted to workshop and modified with provide. ( Existing 1 flanges cropped by machine shop and reused ) - 1 No.

New pipe dia 4 inch sch 80, 1800 mm long provided with 3 Nos. 90deg elbow , Sch 80, and 2 flanges and after fabrication of pipe blasted, painted fixed back in position - 1 No.

6005-1

Pump suction and discharge line stbd side Pump suction to strainer pipe size 4" dia. x 1.2 meter long sch 80 new pipe provided with 2 Nos. 4" dia. 90 deg, sch 80 bend, new sch 80 and ( Existing pipe 1.1 meter long with one flange re used ) total pipe 2.3 meter long pipe fabricate And after fabrication of pipe blasting, painting fix back in position - 1 No.

Suction line after valve to manifold stbd side new pipe size 4" dia., sch 80 x 1.8 meter long provided with 3 elbow 90 deg, sch 80 and 2 flanges - 1 No.

Size 4 " dia., sch 80 new ms pipe sch 80, 300 mm long with provided with 1 No. 90 deg elbow, sch 80 and one side flange and one weld in Existing manifold ( PIPE weld in position) - 1 No.

Pump discharge line up to manifold stbd side existing pipe size 4" dia. x 2 meter long pipe dismantle and shifted to workshop and modified with 1 No. 90 deg elbow, 1 elbow 45deg as suitable to connect with manifold ( Existing 1 flanges cut with pipe and reused ) - 1 No.

Dia 4 inch Existing pipe Tee branch type 1.2 meter long modified with 2 Nos new flanges ) and after fabrication of pipe blasted, painted, fixed back in position - 1 No.

IWO of anti healing line other pipe line modification stbd side Pipe size 2" dia. x 2 meter long opened and shifted to workshop and modified with new 2" dia.

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6005-2	<p>Size 4" dia. sch 80, new pipe x 1.8 meter long provided with 2 Nos. 90 deg., bends, 90 deg, and 2 flanges and after fabrication of pipe blased,painted, fixed back in position -1 No.</p> <p>Existing 4" dia pipe x 2 meter long opened and refixd after modification of other pipes.</p> <p>Breathing line dia 1¼ inch pipe 4 meter long opened for tk no. 3 bhd penetration area welding access after completion of welding fixed back in same position - 1 No.</p> <p>Inside of tank no 3 port side angle flange cut( because of antihealing line flange foul) provide one flat bar thick 10mm X50 mmX 500mm long fit and weld - 2 Nos.</p> <p>Port side Bulk cooling pump Suction line modified to size 2" dia. x 2 meter long opened and modified with new pipe dia 2inch sch 80 , 600 mm long and 1 bend 90deg And after fabrication of pipe blasting, painting fix back in position= 01 pipe</p> <p>Suction line Dia 2 inch pipe 1.8 meter long open and modified with provide new one flange 2 inch And after fabrication of pipe blasting,painting fix back in position= 01 pipe</p> <p>Discharge line dia 2 inch pipe 1.5 meter long pipe open and clean and one damage elbow renewal And after fabrication of pipe blasting,painting fix back in position= 01 pipe</p> <p>Dia 2 inch pipe 1.2 meter long open and clean blasting painting then after fabrication of antihealing line fix back in same location. =01 pipe</p> <p>Port side dia 3 inch one fresh water line modification IWO antihealing line .Dia 3 inch pipe 4.5 meter long pipe dismantle and shifted to workshop and modified with provide four new elbow 45deg, sch 80 , and 3 inch pipe sch 80, 700 mm long .And after fabrication of pipe blasting,painting fix back in position= 01 pipe</p> <p>Access work IWO cement room for anti healing line</p> <p>Chequered plateform removal and refix 2square meter Platform angle support cutting 50x50x06 angle 800 mm long = 10 no.</p> <p>Chequered plateform modified as suitable to the location height extend 300 mm . New Angle 50x 50x 06 = 12 meter</p>	
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6008	Existing Chequered plate used and modified with provide more New Chequered plate size.4 mm thickness x1200 mm X 2400 mm =01 Passage area port and stbd sideChequered plateform removal and refix for Accessof antihealing line= 10 Square meter. As per our quotation No. EM 15854A Revised, item No. 1. PIPE BLANKING IWO OF MANHOLE OPENING AREA :-	2,600.00
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Pipe blanking IWO New manhole opening area size 4" dia., pipe  
x 1.8 meter long pipe cut and rest of the pipe is blind by  
provide 10mm plate od 105 mm , other side on bhd side also 10  
mm thickness plate od 105 mm - 1 No.  
Size 3" dia. pipe x 1.3 meter long cut and rest of the pipe is  
blind using 10mm thickness plate size 85mm OD , other side on  
bhd side using 1 No. 85mm dia. x 10mm thickness plate Pipe  
removed from tank - 2 Nos.  
As per our quotation EM 15821 J, item No.4 (QRs. 2,600.00).

6009	PLATFORM INSTALLATION IWO CEMENT ROOM :-	17,838.00
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New platform install in cement room for Access to Anti heeling  
Pump area.Checked plate 4mm thickness, 500 x 1200 mm long01  
Checked plate 4mm thickness, 1230/700 x 1300 mm long =01  
Checked plate 4mm thickness, 900/500 x 1200 mm long =01  
Checked plate 4mm thickness, 250X400 mm long =02(  
Steps)Angle 50x50x06 = 18 meter  
Pad plate for support welding 10x100x100 mm=06 step fabricate  
400 x250 mm =02  
All above Fabricated New platform secured by M6 drilling  
tapping then bolt fixing.Cement tank pipe line Modification for  
access of new platform .dia 3 inch pipe 2.8 meter long with  
both end flanges open and shifted to workshop and modified with  
provide ( New Elbow sch 80 45°Dia 3" two no. ) after  
modification of pipe blasting painting and fix back in same  
position = 01 nos. dia 3 inch pipe 3.2 meter long with both  
end flanges open and shifted to workshop and modified with  
provide ( New Elbow sch 80, 45°Dia 3" two no .and One bend

## QATAR NAVIGATION (QPSC)

## SHIP REPAIR &amp; FABRICATION

## Telephones

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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

## INVOICE

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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard

WS

PO Box 153, Doha - Qatar

INVOICE NO : SFWK-DMY-008369

DATE : 13/11/2021

W/O Number : 21-011161

W/O Ref : MDO21130

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
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90°) after modification of pipe blasting painting and fix back in same position = 01 nos.

6010	VENT HEAD INSTALLATION FOR ANTI HEALING PORT AND STBD SIDE TANK NO 3 :-	28,080.00
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2 no. vent head installation for anti healing port & stbd side tank no 3Two penetration cutting on Main deck dia Dia 390 mm Port & stbd for vent Installation.Dia 14" pipe x 350 mm long with Provide 2 nos 14" flanges - 2 spools (Flange Fabricated from 25 mm plate)=2 nos Dia 14" pipe x 220 mm long with provide2 no. 14" flanges (Flanges Fabricated from 25 mm plate)= 2 nos

Doubler plate 10 mm thick x 550 mm OD and ID 328 mm welded on Main Deck Plate = 02client provide vent head installed on top of pipe spools= 02 nos.Access works:Deck angle cutting 500 mm long - 2 nos. Necessary scaffolding erect and removed after compilation of work.

6011	AIR LINE RENEWAL WORKS :-	11,530.00
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Renewal of following SS hydraulic tubes.

10 mm OD SS hydraulic tube -48 mtr approx08 mm OD SS hydraulic tube - 36 mtrs approx08 mm stainless steel straight connector compression type fitting - 12 nos10 mm stainless straight connector compression type fitting - 12 nos08 mm and 10 mm SS elbow compression type fitting - 30 nos each08 mm and 10 mm SS Tee compression type fitting - 04 nos each10 mm x 8 mm stainless steel Tee compression type fitting - 04 nosBulkhead union stain steel for 8 mm tube with both side compression type 05

nosBulkhead union stain steel for 10 mm tube with both side compression type 05 nosSaddle support 8 mm and 10 mm each - 40 nos.



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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard  
WS  
PO Box 153, Doha - Qatar

INVOICE NO : SFWK-DMY-008369

DATE : 13/11/2021

W/O Number : 21-011161

W/O Ref : MDO21130

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
6012	MANUFACTURE OF PIPE SOUNDING PLUG:-  2" Air vent sounding cap 75mm dia 60mm long fabricate 2" female threaded (Brass material)	475.00
7004	ANTI HEALING PUMP ELECTRICAL WORK:-  Job identified with chief engineer. Installed all panel boards as per instruction. Made 3 numbers of penetration and necessary flat bars for cable laying. Scaffolding arranged for cablepulling. All cables arranged for termination. Power cables, motor cables, valves and float switch connected by shipyard. Found satisfactory.  As per our quotation EM 15821 N, item No.6 (QRs. 26,167.00).	26,167.00
7500	SUPPLY OF MATERIALS FOR PROJECT WORKS:-  Following material supplied against signed delivery note. Cutting disc 115mm*22.23mm*1mm : 50 pcs Cutting disc 115mm*22.23mm*6mm : 50 pcs Welding rod ESAB OK -48-7018 3.2 mm :6 pack Welding rod ESAB OK -48-7018 2.5 mm :6 pack Cutting nozzles (viscol)16 :2pcs MS SCH 80 1 inch pipe :5 length MS SCH 80 2 inch pipe :3 length Welding hand gloves. MS angle bar 50 x 50 x6mm - 2 lengths SS mesh 1.5mtr x 510 mm (wire 2mm x space 5mm) MS flat bar 40 x 40 x5mm - 1 length SS bolts & nut M8 X 30MM long -20nos SS washer M8 - 40 Nos6. ss washer M12 - 24 Nos. 2" sch-80 full length m.s pipe - 2 nos. 2" sch-80 90' elbow- 6 nos.	7,568.00

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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-008369

DATE : 13/11/2021

W/O Number : 21-011161

W/O Ref : MDO21130

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
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U clamp for 2" o.d pipe - 10 nos.  
Welding holder 500 amp - 2 pcs  
Flange 1 1/2" - 2 nos  
Nipple 1 1/2" - 2 nos  
M 12 x 50 mm long bolt and nut MS - 32 nos  
M 10 x 45 mm long bolt and nut - 16 nos  
Flange 3" (PN 16 SLIP ON RF) - 3 Nos.  
Bolt and Nut (16mm dia and 71mm length) sample onboard - 32nos  
M16 washer - 32 nos  
CF Gasket - 01 no  
MS M 22 bolt and nuts - 35 nos  
M 22 nut - 20 nos  
M 22 washer - 40 nos  
Rubber Gasket 1000 mm x 1000 mm x 3 mm - 01 no  
SS wire mesh 1.5 m2 - 1 pc  
MS T piece 2" sch 80 - 01 no  
MS Reducer 3/2" - 01 no  
Flange 1 1/2" - 2 nos  
Nipples 1 1/2" - 2 nos  
MS Reducer 3" x 2" - 1 no  
MS T piece 2" sch 80 - 02 no  
Following gas cylinder to be supplied against signed delivery  
note :-  
Oxygen cylinders  
Acetylene cylinders  
Oxy/acetylene cutting set -40 hours

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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-013054-2021

DATE : 03/11/2021

W/O Number : 21-011161

W/O Ref : MDO21130

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 29 - Project Works

Job No	Description	Line Amount
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Discount Allowed -->	66,758.40
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Invoice Amount -->	1,416,761.60
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(QAR - One Million Four Hundred Sixteen Thousand Seven Hundred Sixty-One And 60/100 Only)