

## 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

## DRAFT INVOICE

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

INVOICE NO : SFWK-DMY-008483

DATE : 19/01/2022

W/O Number : 21-011250

W/O Ref : MDO21204

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
1100	<p>BERTH PREPARATION, DOCKING &amp; UNDOCKING :-</p> <p>Berth prepared, vessel docked and undocked. As per our purchase agreement MPCS 2006</p>	11,200.00
1101	<p>DOCK HIRE:-</p> <p>Dock hired from 16.09.2021 to 29.09.2021 QRs 2,650 per day x 14 days = QRs 37,100.00</p> <p>As per our purchase agreement MPCS 2006</p>	37,100.00
1103	<p>WHARFAGE:-</p> <p>Wharfage charges applied from 01.09.2021 to 15.09.2021 &amp; 30.09.2021 QRs 1056 per day x 16 days = QRs 16,896.00</p> <p>As per our purchase agreement MPCS 2006</p>	16,896.00
1104	<p>GALLEY SKIP:-</p> <p>Galley skip provided x 30 days. QRs 275 per day x 30 days = QRs 8,250.00</p>	8,250.00
1105	<p>UT GAUGING:-</p> <p>Bilge holding and dirty oil tank inspected and UT gauging done. All sea chests.</p>	1,100.00

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W/O Number : 21-011250

W/O Ref : MDO21204

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
	QRs 11 per spot x 100 spots = QRs 1100.00	
1106	SHIFTING OF ITEMS:-  Shifting of propulsion items from H27 to the workshop. Total 5 boxes . H27 Chief has been intimated and Boxes have been identified . Incl in job no 9100	
1107	SERVICES:-  Fire and safety watch provided from 01.09.2021 to 30.09.2021 QRs 330 per day x 30 days = QRs 9,900.00 Fireline: QRs 200 per day x 30 days + QRs 275 = QRs 6,275.00 Sea water cooling line provided : QRs 275 per day x 14 days +QRs 275 = QRs 4,125.00 Electrical Shore: QRs 500 per day x 14 days + QRs 500 = QRs7,500.00	27,800.00
1152	SEGREGATION OF WOOD PLANKS :-  Services of Riggers and Mobile crane to be arranged and HOSE Storage area wood planks at 2 location to be segregated to useful and scrap.Useful wooden planks to be properly arranged in storage area and scrap wood to be collected and disposed. As per signed day work sheets dated 03-06-2021 and 06-06-2021.  Rigger:- QRs. 80.00 per hour x 64 Hours = QRs. 5,120.00. 80 Tons Mobile Crane:- QRs. 580.00 per hour x 2 Hours = QRs. 1,160.00.	6,280.00
1153	DISPOSAL OF OILY WATETR :-	30,800.00

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56 Tons bilge oily water Pump out and disposed ashore.

(QRs. 2,200.00 per time x 14 times = QRs. 30,800.00).

1154	REPLACING OF FRC DAVIT HYDRAULIC CYLINDER LASHING POINT :-	1,000.00
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1 Nos. brackets (FRC Davit Hyd. Cylinder lashing eyes) cut removed and 2 Nos. new eyes fabricated fitted and welded to size each 160mm x 160mm x 10mm thickness provided with 1 No. 40mm dia. hole and 2 Nos. M10 thread holes.

1 No. Nitrogen cylinder holding clamp set cut, removed and new clamp fabricated as per sample and fitted.

Clamp O.D. - 220mm

M.S. flat bar - 40mm width x 6mm thickness x 700mm long. - 1 Nos.

M.S. flat bar - 40mm x 50mm x 6mm thickness. - 6 Nos.

Stainless steel bolt, nut and washer.

M12 X 40mm long - 3 Nos.

Bottom M.S. flat bar size 60mm width x 06mm thickness x 120mm long - 1 Nos.

Based on our quotation No. EM 15866A, item No. 1

1155	MANUFACTURE OF CS PIN :-	500.00
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1 no. SS pin manufactured as per sample to size 40mm dia. x 105mm long provided both ends with slot cut.

As per our quotation No. EM 15866B, item No. 1

1156	FABRICATION OF SPACER FOR MAIN BEARING REMOVAL :-	3,900.00
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2 Nos CS spacer fabricated new for main bearing removal. OD 120mm, ID 76mm and long 128mm. drawing attached dimension taken

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Job No	Description	Line Amount
	from sample.	
	As per our quotation No. EM 15866C, item No. 1.	
1157	WIRE ROPE SHEATH AND REMOVAL OF RAM :-  Wire rope sheath's cleaned inspected and greased. 2 Nos. ram removed and send to client arranged workshop for overhauling and received back and kept in workshop. Scaffolding arrnged for access and later removed on completion.	5,200.00
1158	SERVICES OF MANPOWER ALONG WITH EQUIPMENT FOR MATERIAL HANDLING :-  Services of Riggers along with Equipments (Mobile crane and Forklift provided for Dorry boat offloading, Deckwoo offloading, client arranged material unloading, Engine items lifting and Towing wire rope and shackles as per signed day work sheets dated from 16-08-2021 to 25-09-2021.  Rigger:- QRs. 80.00 per hour x 48 Hours = QRs. 3,840.00. 80 Tons Mobile Crane:- QRs. 580.00 per hour x 18 Hours = QRs. 10,440.00. Forklift:- QRs. 400.00 per hour x 1 Hour = QRs. 400.00.	14,680.00
1200	TOPSIDE AREA TREATMENT AND PAINTING:-  Top side area an approx of 700 square metres treated and painted as per paint manufacturer's representative's recommendation and your representative's instruction. Following rates applied: H.P. jet washing with fresh water. (QRs 13 per m2 x 700 m2 = QRs 9,100.00 Spot blasting (70 % of area using grit) (QRs 80 per m2 x 490	60,228.00

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m2= QRs 39,200.00  
Hosing down with fresh water - QRs 3 x 700 m 2 = QRs 2,100.00  
Applied one touch up coat primer (70% area), Jotamastic 80  
alured toned - QRs 5.2 x 490 m2 = QRs 2,548.00  
Applied one t/up top coat Hard Top XP orange - QRs 5.2 x 700 m2  
= QRs 3,640.00  
Applied one full top coat - Hard Top XP Orange -QRs 5.2 x 700  
m2 = QRs 3,640.00  
All paint composition, thinners and tool cleaners supplied by  
client.  
As per purchase agreement MPCS 2006

1201	UNDER WATER AREA PAINTING WORKS:-	154,200.00
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Underwater area of approx 2000 square metres (Including Sea Chest, Bow Thruster Tunnel, Kort nozzle) treated and painted as per paint manufacturer's representative's recommendation and your representative's instruction.  
Following rates applied:-  
Hand scraping to remove marine growth. QRs 4 x 2000m2 =QRs 8000.00  
H.P. jet washing using fresh water. QRs 10 x 2000m2 =QRs 20,000.00  
Full Grit blast SA 2.0 - QRs 38 x 2000 m2 = QRs 76000.00  
Hosing down with fresh water, two times -QRs 2 x 2000m2 x 2times = QRs 8000.00  
Applied one coat primer (100% area) Jota mastic 80 alu red toned -QRs 3.5 x 2000 m2 = QRs 7000.00  
Applied full coat of sealer - safe guard UNI plum - QRs 4 x 2000 m2 = QRs 8000.00  
Applied one full coat of antifouling sea force active dark red - QRs 4 x 2000 m2 = QRs 8000.00  
Disposal of used grit/garnet/waste water which mixed with ferros, paint, oil and chemical, collection, transportation and safe disposal as per Qatar safety environment regulation in Mesaieed, total 80 ton.disposed

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Job No	Description	Line Amount
	QRs 240 per ton x 80 ton = QRs 19,200.00 As per purchase agreement MPCs 2006	
1202	HULL MARKING:-  Painting existing name, homeport, draught marks & load line marks with two coats white gloss (owner's supply paint)	3,800.00
1203	CHAIN LOCKER CLEANING:-  Port and stbd. Chain lockes opened. Area cleaned removed mud . 4 ton Hp jet washing and pump out mopdry . Applied with one coat owner supply paint. ( jotmastic smart pack alu) Internal floor plates or gratings cleaned, painted and refitted. As per our quotation EM 15970, item 6.16.6	16,000.00
1250	BILGE AREA CLEANING:-  Bilge area cleaned under the engines to carry out UT gauging. QRs 12,000.00 Yard provided dirty tanks Collect and disposed oil on shore total - 11.5m3 QRs 275 per m3 x 11.5 m 3 = QRs 3,162.5 As per our quotation No, EM 15970 A	15,162.50
1350	ANCHORS & CHAIN:-  Anchor and chain lowered using ship winch and yard crane for ranging the floor HP jet washing Calibrated and issue	9,100.00

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Job No	Description	Line Amount
	<p>certificate Restore back on position Based on our quotation EM 15970, item 6.16.5 Additional:- Freed done of seized anchor, anchor swivel and bow shackle of port and stbd side by gas cutting. QRs 900.00</p>	
1400	<p>SEA CHEST GRIDS:-</p> <p>3 Nos. sea grid removed. Sea chests and grids treated and painted as per underwater area treatment and painting specification. Later grids refitted on completion. Grit blast sea chest and grids to SA 2.0.</p> <p>Based on our quotation EM 15970, item 2.03</p>	4,620.00
1401	<p>BOW THRUSTER NO1 &amp; 2 SEAL RENEWAL:-</p> <p>Remove electric motor, Thruster coupling, grating remove/refit both side, drain the oil, erect/remove staging to access the work place. Blades and hub to be polished. DP /MPI test to carried out by yard QC and submit report Skimming of thruster blade - 2 nos</p> <p>Note: Refit is pending.</p>	29,027.00
1402	<p>STERN THRUSTER SEAL RENEWAL:-</p> <p>Seals to be replaced. Remove electric motor, Thruster coupling, grating remove/refit both side, drain the oil, erect/remove staging to access the work place. Blades and hub to be polished and blades to be skimmed if required.DP</p>	15,978.00

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/MPI test to carried out by yard QC and submit report  
Skimming of thruster blade - 1 nos

As per our quotation EM 15970, item no 4.05

Note: Refit is pending.

1403	PORT AND STBD PROPULSION WORKS:-	57,440.00
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Port and stbd side propulsion works to be carried as per client  
arranged service engineer requirement. Brief  
description works is provided.

Port propeller shaft wear down Rudder clearances readings to be  
take recorded and sent to the Supt soon as  
possible. Rudder, Rope guards to be removed, propeller shaft to  
be removed, Blade seals to be replaced, O/D box  
to be O/H and both stern tube forward aft seals to be O/H and  
new seals installed. Check seal runner condition  
and replace if need be. All this is under the guidance of the  
Berg Tech. Require man power to allow Berg to carry  
out his work scope and complete. Blades and hub to be polished.  
Stbd propeller shaft wear down Rudder clearances readings to be  
take recorded and sent to the Supt soon as  
possible. Rudder, Rope guards to be removed, propeller shaft to  
be removed, Blade seals to be replaced, O/D box  
to be O/H . stbd propeller hub to be  
overhauled. Check seal runner condition e. All this is under  
the guidance of the Berg Tech.

Require man power to allow Berg to carry out his work scope and  
complete. Blades and hub to be polished.  
DP/MPI test for hub/propeller blades to be carried out and  
report to be submitted.

As per our quotation EM15970, item 4.05



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1404	VALVES:-	50,471.00
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Remove from the location, transport to workshop, clean all exposed parts, light hand scrapping, check bedding and reassemble with new cover joint and repacking gland with soft packing. Carry out gravity test and fit onboard.

1 Main sea chest valve Port &amp; Stbd DN 300 gate valve- 2 nos

2 Main Engine over board valve Port &amp; Stbd DN 150 Angle globe valve-2 nos

3 Auxiliary engine over board valve DN 150NRV -1 no

4 Bilge and ballast pump suction and overboard valve DN 80

Globe valve-2 nos

5 AC cooling pump Suction and discharge valve of pump no. 1&amp;2

DN 100 globe valve-4 nos

6 AC overboard valve-DN150 angle globe-1 no

7 Main engine sea water cooling pump no.1&amp;2 suction and

discharge valve DN 200 globe valve-4no

8 Port side LT cooler sea water discharge and back flushed

valve DN 150 Globe valve-5 nos

9 Stbd side LT cooler sea water discharge and back flushed

valve DN 150 Globe valve 5 nos

10 Mud circulating pump over board valve DN 80NRV -1 no 11

Sewage over board valve DN 150 storm valve-2 nos

12 GS /Fire pump discharge valve to fire line DN80 globe valve

-1 no

13 GS fire pump ballast valve DN 80 globe valve-1 no

14 AC condenser 1/2 inlet and outlet valve DN100 globe valve-

2nos

15 Sewage unit fill/dis valves DN150Gate valve-2no- DN50 gate

valve -3nos- ; DN50 globe valve-2 nos -

16 GS /Fire pump discharge valve to emergency cooling to AC and

reefer DN80 globe valve-1no -

17 Oily water separator DN 80Globe valve-1no (port)

18 Emergency bilge suction valve DN 200 globe valve-1 no.

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Job No	Description	Line Amount
1405	PORT SIDE HUB:-  Port side hub to be disconnected, flange seal to be replaced (client supplied), not required complete dismantling of hub.	800.00
1407	THRUSTER OVERHAULING:-  Thruster -1no (additional) received in mechanical workshop. Dismantle and clean all the parts. calibrating and DP check all the parts. After inspection assembly to be done. Machining and repairs additional  As per our quotation EM 15970 C	13,680.00
1800	ANODES:-  Removed 98 nos. zinc anode renewed ( 92 removed by gas cutting and grinding and 06 removed bolt) Installed zinc anode 10.5 kg - 44 nos QRs 365 per anode x 44 nos =QRs 16,060.00 4.5 Kg - 54 nos QRs 200 per anode x 54 nos = QRs 10,800.00 Due to size not matching below doubler fabrication and installed by welding. 10 x 80 x 75 - 92 nos. QRs 2,300.00 Scaffolding arrange and removed - 08 locations QRs 2000.00	31,160.00
1801	KORT NOZZLE :-  Not done.	

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Job No	Description	Line Amount
1802	Incl in job no 1802.	
1803	REPAIR OF "W" FENDER MOUNTING PLATE:-  W - fender replaced port and stbd side with top and bottom plate renewed. below materials used. STBD side - - 16 x 240 x 3000 - radius plate - 02 nos. with 28nso. dia 45mm hole. - 16 x 240 x 720 - 03 nos. - 40mm Diameter x 720mm long - 14 nos. - Washer diameter 100 with 10 thickness with 45mm hole - 28 nos. - 07 nos. fender replaced - client supplied PORT side - - 16 x 240 x 1800 - radius plate - 02 nos. with 28nso. dia 45mm hole. - 16 x 240 x 720 - 03 nos. - 40mm Diameter x 720mm long - 08 nos. - Washer diameter 100 with 10 thickness with 45mm hole - 16 nos. - 04 nos. fender replaced - client supplied Scaffolding arrange port and STBD side.  As per our quotation EM 15970 B	48,650.00
1804	FABRICATION OF ROPE GUARD:-  Port side rope guard (2 halves) fabricated as per sample with 04 nos. rope cutter. Materials used. MS plate - 10mm x 500 x 1200 - 02 nos with 3D rolling MS plate - 16 x 70 x 3000 with rolling - 01 no. SS rope cutter 12mmx 100 x 50 - machined - 04 nos. as per sample	2,800.00

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1805	<p>DRAIN PLUG:-</p> <p>02 nos. drain plug open and closed as per client request. 04 nos. drain plug open and closed KORT nozzel port and STBD side. 06 nos. drain plug open and closed of Rudder port and STBD side.Spanner fabricated for drain plug open.Scaffolding arrange and removed on two location.Fwd forepeak area berthing block removed by carpenter.</p>	1,800.00
1806	<p>WELDING REPAIR:-</p> <p>Welding repaired on pitted area 1 location on Ballast tank # 30 (Port side) in confined space, gas freed done. QRs 200.00 Scaffolding erected and removed. QRs 250.00</p>	450.00
1807	<p>WELDING REPAIR:-</p> <p>1) Dirty oil tank sounding pipe's striker plate missing. same fixed by welding - 10mm thick x diameter 120mm 2) Bilge holding tank sounding pipe's striker plate damaged. Same fixed by welding - 10mm thick x diameter 120mm 3) 3 numbers deep pitting found. Pitting depth around 8mm. same paired by build-up welding and MPI to be done. confined space, gas freed done..</p>	550.00
2200	<p>WOODEN BOX FABRICATION:-</p> <p>10 in Nos. wooden box to be fabricate for transporting two conrods from Halul 27 M/E by using yard supply material,consumbles and man power Size : length -1200 mm ;</p>	5,000.00

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Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
	breadth- 500 mm ; height- 400 mm	
2201	DECK WOODS:- Removed wooden blocks from main deck.	2,400.00
2400	BILGE HOLDING TANK:- Not done.	
2401	SLUDGE TANK:- Not done.	
2500	REPAIR OF STBD PROPELLER:- Carry out welding repair of stbd side propeller.	11,120.00
2501	SKIMMING OF PROPELLER:- Not done.	
2502	RE SLEEVING OF STEERING MOTORS END COVER:- Steering motors # 1 & 2 P/S NDE cover 04 nos its worn out bearing area repaired with resleeving. Final ID machined as per supplied bearing OD 62.01mm	2,500.00

## 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

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

INVOICE NO : SFWK-DMY-008483

DATE : 19/01/2022

W/O Number : 21-011250

W/O Ref : MDO21204

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
2503	RE SLEEVING OF BT-1 AND 2 MOTORS END COVER:-  BT-1 & 2 motors 02 nos DE & 02 nos NDE cover worn out bearing area repaired with resleeving. final ID machined as per supplied bearing OD DE 240.015mm & NDE 180.01mm.	3,600.00
2505	MACHINING WORK (MISC):-  As below mentioned work carried out as per client representative instruction.01 no's shaft flange hole modification as per drawing. (drill and reamed to 16mm)04 no's PORT side blade carrier OD and face polishing.01 no's BT cover hole modified as per supplied valve thread by client representative.	700.00
2506	MACHINING WORK (MISC):-  As below mentioned work carried out as per client representative instruction.03 no's thruster liner (01 no's seal OD length extended, 01 no's damaged SS grub screw removed, 01 no's ID O ring groove machined according to supplied O ring) 03 no's BT cover hole modified as per supplied valve by client representative	1,000.00
2509	RE SLEEVING OF E/R BLOWER COVER MOTOR:-  E/R blower cover PORT & STBD DE & NDE covers worn out bearing repaired with resleeving. bore enlarged, fabricated sleeve, inserted with interference fit, secured with grub screw and final machined as per supplied bearing. DE 100.01mm and NDE 90.01mm.	2,500.00

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W/O Number : 21-011250

W/O Ref : MDO21204

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
2510	RE SLEEVING OF MUD CIRCULATING MOTOR COVER:-  Mud circulating motor 02 nos cover DE and NDE worn out bearing area repaired by resleeving. final ID machined as per supplied bearing 150.015mm.	1,550.00
2511	RE SLEEVING OF ST MOTOR COVER:-  ST motor cover 02 nos DE and NDE worn out bearing area repaired by resleeving. final ID machined as per supplied bearing OD DE 240.02mm and NDE 180.015mm.	1,850.00
2800	HULL FENDERING :-  Removed tyrefenders. QRs 200 per tyre x 26 tyres = QRs 6,000.00 Cropped and renewed eyepad : QRs 275 per pc x 15 pc = QRs 4,125.00	6,000.00
6000	REPAIR OF SEA WATER PIPE:-  Sea water pipe and G.S. pump sea water suction pipe line repaired and renew, below material used, Ms pipe 2 1/2" 80 sch 500mm long -01 no, Ms elbow 90' 2 1/2" -02 nos, Ms flange 2 1/2" -01 nos, Ms reducer 80 sch 3x2 1/2" -01 no, Ms flange 3" -01 nos, Old pipe damage area repaired, and same new pipe fabricate -01 no, cutting grinding fit up and welding is done, Offer to client and found satisfactory.	2,180.00
7000	OVERHAULING OF NO:1 ALTERNATOR:-	11,800.00

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WS  
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DATE : 19/01/2022

W/O Number : 21-011250

W/O Ref : MDO21204

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
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Disconnected all the cables from AVR & AVR also removed.  
Disconnected all power, control, instrumentation cables from bus bar terminals. Removed coupling from the drive end side.  
Removed PMG and non drive end cover along with stator exciter coil & all access doors are opened to carry out chemical cleaning. Removed drive end cover. Removed each side bearing.  
Checked insulation value of Alternators stator, rotor, and exciters and recorded. Cleaned stator & rotor winding using electrical cleaning solvent. Each end covers bearing housing calibrated. Found good. Reassembled the alternator by using ship supplied bearing and "O" rings. all bolts have been tightened properly. Checked insulation value of alternator coils & values are recorded. Re-connected AVR as per the original position. All the cables re-connected as per the original marking. Air gap checked between main stator and rotor. Report has been submitted to QAQC. Tested alternator and satisfactory running test carried out.

NOTE: Bearing and NDE cover supplied by owner

7001	OVERHAULING OF NO:3 ALTERNATOR:-	7,950.00
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Disconnected all the cables from AVR & AVR also removed.  
Disconnected all power, control, instrumentation cables from bus bar terminals. Alternator shifted from the position for dismantling. Removed coupling from the drive end side. Removed PMG and non-drive end cover along with stator exciter coil & all access doors are opened to carry out chemical cleaning.  
Removed drive end cover. Removed each side bearing. Checked insulation value of Alternators stator, rotor, and exciters and recorded. Cleaned stator & rotor winding using electrical cleaning solvent. Each end covers bearing housing calibrated Found good. Reassembled the alternator by using ship supplied bearing and "O" rings. all bolts have been tightened properly. Checked insulation value of alternator coils & values are recorded.

Not installed back.



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DATE : 19/01/2022

W/O Number : 21-011250

W/O Ref : MDO21204

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
	NOTE: Bearing and NDE cover supplied by owner.	
7002	DG No.2 ALTERNATOR REPAIR:-  Not done any works.	
7003	BT 1 DRIVING MOTOR INSPECTION AND SERVICE:-  The driving motor shifted to workshop, dismantled, cleaned and serviced. Replaced the bearing. Works completed onboard. Not installed back.	21,158.00
7004	BT 2 DRIVING MOTOR INSPECTION AND SERVICE:-  The driving motor shifted to workshop, dismantled, cleaned and serviced. Replaced the bearing. Works completed onboard.	21,158.00
7005	STERN THRUSTER DRIVING MOTOR INSPECTION AND SERVICE:-  The driving motor shifted to workshop, dismantled, cleaned and serviced. Replaced the bearing. Works completed onboard. Not installed back.	25,250.00
7006	BLOWER OVERHAULING:-  Overhauling of engine room blowers, BT blower and steering room	19,544.00

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W/O Number : 21-011250

W/O Ref : MDO21204

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
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blower.

Job identified and LOTO applied. Remove all bolts and nuts of the hatch cover. Disconnected the electrical cables with marking. Take motor insulation and noted. Take out the motor and brought to workshop. Removed fan from the motor shaft. Motor removed from the trunk. Motor dismantled. Bearings removed from the rotor. Stator and motor parts cleaned electro cleaner solvent. Bearing housing send to machine shop for calibration. Report submitted to QAQC. Stator cured in the oven. Stator insulation taken found satisfactory. Stator revarnished and reassembled by shipyard supplied bearings. Bench tested and motor fitted in the trunk. Blower shift to vessel. All foundation bolts tight and cables reconnected as per marking. Run test carried out. close all hatch covers properly. found satisfactory.

NOTE: Bearings supplied by shipyard.

7008 STEERING GEARING MOTOR:-

8,480.00

Overhauling of steering gear motors. 4Nos.

Job identified and LOTO applied. Electrical connection marked disconnected. Removed foundation bolts and coupling side bolts. motor transferred to electrical workshop. Checked motor 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 and re-varnished the motor windings. Checked insulation value of motor stator winding. Found out value was more than the tolerance. Checked bearing clearance of end covers and found all NDE covers oversize. Send to re-sleeving. Reading has been submitted to QC Re-assembled motor using yard supplied bearings. Re- assembled the motors and bench tested. Found OK. Shifted back to on-board and installed. Reconnected electrical cable as per marking.

NOTE: Bearings supplied by yard.

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W/O Ref : MDO21204

EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
7009	AHU MOTOR:- Not done.	
7010	GALLEY EXHAUST MOTOR:- Not done.	
7011	OVERHAULING OF MUD CIRCULATING PUMP MOTOR:-  Job identified and LOTO applied. Electrical connection marked disconnected. Removed foundation bolts and coupling side bolts. motor transferred to electrical workshop. Checked motor 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 and re-varnished the motor windings. Checked insulation value of motor stator winding. Checked bearing clearance of end covers and found DE & NDE covers oversize. Send to re-sleeving. Reading has been submitted to QC. Reassembled motor using ship supplied bearings. Re- assembled the motors and bench tested. Found OK. Shifted back to on-board and installed. Reconnected electrical cable as per marking. NOTE: Bearings supplied by client	4,955.00
7012	MAIN SWITCH BOARD CLEANING :- Not done.	

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EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
7013	SHAFT GENERATOR REPAIR:-  Not done.	
7014	OVERHAULING OF SEWAGE PUMP MOTOR:-  Motor received from the vessel and shift to electrical workshop. Checked motor 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 and revarnished the motor windings. Checked insulation value of motor stator winding. Checked bearing clearance of end covers and found OK. Reading has been submitted to QC. Re-assembled motor using yard supplied bearings. Re- assembled the motors and bench tested. Found OK. Shifted back to on-board and installed. Reconnected electrical cable as per marking. NOTE: Bearings supplied by yard.	2,160.00
7500	SUPPLY OF MATERIALS:-  2" Flange x 12 PCD x 4 holes x 18 mm - 12 nos MS 2" Elbow 90 LR Sch 80 2" CS sch 80 pipe M16 x 50 mm bolts & nut GI OK 48 ESAB welding rod 2.5 mm , 7018 Cutting disc 1 mm Grinding disc 4 1/2"	910.00
8000	PROPELLER BLADE:-  Incl in 2500.	

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EXPENSE A/C : 85.901.1434006

Vessel Name/Description: M.V HALUL 27

Job No	Description	Line Amount
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9100	SERVICE OF MANPOWER:-	26,915.00
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Below services are provided as per signed timesheet.

Crane: 580/ hour x 24 hours = QRs 13,920.00

Rigger Normal Time :47 hours x 80/ hours = QRs 3,760.00

Rigger Over time : 32 hours x 100/ hour = QRs 3200.00

Mechanic Normal Time: 21.5 hours x 90/ hour = QRs 1,935.00

Mechanic Overtime : 8 hours x 125/hour = QRs 1000.00

Forklift - 1 hours x 250/hour = QRs 250.00

Fab/Welder - 21 hours x 90 /hour = QRs 1,890.00

Fireman - 12 hours x 80/hour = QRs 960.00

Invoice Amount --&gt; 871,302.50

(QAR - Eight Hundred Seventy-One Thousand Three Hundred Two And 50/100 Only)