

QATAR NAVIGATION (QPSC)

SHIP REPAIR & FABRICATION

Telephones

Office : 4771690 / 4771695

Fax : 4771687



INVOICE

Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBAQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/013066/2021

DATE: 26/11/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011161 / 1

W/O REF: MDO21130

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

Job No	Description	Line Amount
1100	BERTH PREPARATION, DOCKING & UNDOCKING :- Standard berth preparation in floating dock, docked and undocked. As per our quotation EM 15821, item 1.1	16,000.00
1101	DOCK HIRE, WHARFAGE CHARGES & SERVICES :- Berthing crews: QRs 1000.00 Dock hire x 15days=QRs 2,650 x 15 days=QRs 39,750.00 Alongside x 15 days=QRs 969 x15 days =QRs 14,535.00 Shore power provided:QRs 500 per day x 15 days+QRs 500 =QRs 8,000.00 Fire watch provided :QRs 330 per day x 30 days =QRs 9,900.00 Galley skip provided :QRs 275 per day x 30 days =QRs 8,250.00 Sea water cooling line : QRs 275 per day x15 day + QRs 275 =QRs 4,400.00 Fireline provided =QRs 200/day x 24 days + QRs 265 =QRs 5,065.00	90,900.00
1150	CRANE HIRE:- Service of shipyard crane provided to shift ship provision and client arranged works QRs 580 per hour x 19 hours = QRs 11,020.00	11,020.00

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

Job No	Description	Line Amount
1151	OVERBOARD DISCHARGE:- Overboard discharge provided and removed prior to undock.	410.00
1152	BALLAST TANKS :- N.A	
1153	SEWAGE :- N.A	
1154	DISPOSAL OF BILGE OILY WATER:- Pumping out and disposing of bilge oily water - 4 tons	2,200.00
1155	Seperately Invoiced -Project cost	
1156	VENTILATION :- N.A	
1157	LIGHTING :- N.A	
1158	FRESH WATER :-	

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

Job No	Description	Line Amount
	N.A	
1159	THICKNESS MEASUREMENTS:-	
	N.A	
1160	PORT SIDE MAIN ENGINE EXHAUST PIPE INSULATION WORK :- Carried out port side ME exhaust pipe insulation by subcontractor.	8,850.00
1161	N.A	
1162	MPI TEST :- MPI Test carried out on Lifting point of Dory boat 8. Dory boat is located in S&F shipyard open storage area.	350.00
1163	Seperately invoiced - Project cost	
1164	NDT ON SHAFT/PROPELLERS AREA:- CPP blades port & stbd DP test on root and tip areas and tail shaft's taper and bush area carried out.	2,200.00
1165	Seperately Invoiced -Project cost	

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

Job No	Description	Line Amount
1166	HOT WATER PIPE INSULATION RENEWAL:- Insulation renewed for Diesel generator No.2 and No.3 along with Main Engine Port and No.3 DG hot water pipes insulation Erected and removed scaffolding. As per our quotation EM 15821 H, item no 1	19,025.00
1167	COVERING PROTECTION:- Install barricades and blue can vas covering protection for main deck & bulwark area blasting and painting.Yard Supplied all materials. Incl in job no 1204.	
1168	Seperately Invoiced -Project cost	
1169	Seperately Invoiced -Project cost	
1170	Seperately Invoiced -Project cost	
1171	Seperately Invoiced -Project cost	
1172	Seperately Invoiced -Project cost	
1173	Incl in 1172	

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

Job No	Description	Line Amount
1200	CHAIN LOCKER CLEANING :- Port and stbd. Chain lockes opened. Dirt and debris removed. Area hand scaled, cleaned, and applied with one coat. QRs 9,200.00 Internal floor plates or gratings removed, cleaned, painted and refitted. QRs 2,400.00 Mud removed and disposed ashore (4 ton). QRs 4,400.00 As per our quotation EM 15821, item 2.02	16,000.00
1201	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 jobs were carried out. H.P. jet washing with fresh water. Spot blasting SA 2.0 (140m2 of area using grit) Hosing down with fresh water. Applied touch up one coat primer (30% area) Applied one t/up coat top coat Applied one full top coat Disposal of grit- 10 ton Additional:- Top side t/up painting orange all the fender mark area clean	38,575.00

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Job No	Description	Line Amount
	and painted on port and stbd side area. Based on our quotation EM 15821, item 4.04	
1202	UNDERWATER AREA TREATMENT AND PAINTING :- Underwater area of 1030 square metres (Including Sea Chest, Bow Thruster Tunnel, Azimuth nozzle) treated and painted as per paint manufacturer's representative's recommendation and your representative's instruction. VERTICAL SIDE (400m2) Hand scraping to remove marine growth. H.P. jet washing using fresh water. Full blasting SA2.0 (100% of area) Hosing down with fresh water. Applied one full coat Jotun primer (100% area) Applied full coat of Jotun sealer Applied two full coat of antifouling FLAT BOTTOM (630m2) Hand scraping to remove marine growth. H.P. jet washing using fresh water. Spot blasting SA2.0 (30% of area) Spot blasting SA1.0 (70% of area) Hosing down with fresh water. Applied one full coat Jotun primer (100% area) Applied full coat of Jotun sealer Applied two full coat of antifouling Protection covering echo sounder, zinc anodes, propeller. 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	88,872.00

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Job No	Description	Line Amount
	Mesaieed, 40 ton.used	
	Notes: All paint composition, thinners and tool cleaners supplied by client.	
	Based on our quotation EM 15821, item 4.01	
1203	HULL MARKING :- Painting existing name, homeport, draught marks & load line marks with two coats white gloss (owner's supply paint).	3,800.00
1204	Seperately Invoiced -Project cost	
1205	Seperately Invoiced -Project cost	
1206	Seperately Invoiced -Project cost	
1207	Incl in job no 1204	
1208	Seperately Invoiced -Project cost	
1209	Seperately Invoiced -Project cost	
1350	PORT AND STBD. CHAINS :- Port and stbd. anchor chains lowered, ranged and later	24,680.00

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

Job No	Description	Line Amount
	restowered.Both chains end to end changed.Both anchor and chains HP jet washed and calibrate,marked shots. Both chains inspected by Vessel's Superintendent.	
	QRs 11,700.00	
	Based on our quotation EM 15821, item 2.01	
	Additional works:-	
	Range down the portside anchor and chain, shift the anchor and chain to quay area, remove the anchor chain and dispose.	
	Range down the stbd side anchor and chain, shift the anchor and chain to quay area, completely remove and disconnect chain and remove half of the chain and connect to port side anchor.	
	QRs 12,980.00	
	Based on our quotation EM 15821 Q, item no 2	
1400	SEA CHEST & GRIDS :-	7,150.00
	5 Nos. sea grid removed. Sea chests and grids treated and painted Silicon painting specification.	
	Later grids refitted on completion, each.	
	Scrapping hard marine growth	
	HP Jet washing	
	Full grit blast sea chest and grids to SA 2.0 and applied 2 coats of paint.	
	Erected staging	
	Based on our quotation EM 15821, item no 2.03	

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Job No	Description	Line Amount
1401	PORT AND STBD RUDDERS :- Port and stbd.rudders drain plugs are opened and checked for water ingress and later refitted. Rudder jumping clamps removed and brought down. Later refitted on position. Both rudders are disconnected removed from position. Later rudders are refitted and locked with wire and cement upon completion. Rudder pintle area access plate cut and removed. Later welded back after completing pintle installation. Inspected and witnessed by client. Pintle and rudder stock bushing clearance are checked recorded and QC report submitted to the client. Both rudder (port and Stbd) gland packings renewed with your supplied packing 22mm X6M. Witnessed by client. As per our quotation EM 15821, item no 9.03	12,980.00
1402	PEDESTAL BEARINGS :- Port and stbd intermediate bearings opened up for surveyor inspection. Sump oil renewed with owner supplied oil. As per our quotation EM 15821, item 9.04	900.00
1403	VALVES:- AC Condenser overboard valve, ANGLE SNDR-50A-FLG TO JIS10K Galley drain overboard valve, STORM VALVE 50A -FLG TO JIS5K- 1 No. Sewage overboard valve, STORM VALVE 150A -FLG TO JIS5K- 1 No. Bulk cool overboard valve, ANGLE SNDR 50A-CAST STEEL -FLG TO JIS10K- 1 No. P&S main Eng. Overboard valve, ANGLE SNDR 50A-CAST STEEL -FLG TO JIS10K - 2 No's	33,965.00

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Job No	Description	Line Amount
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OWS Overboard valve, SNDR 32A- BRONZE-FLG TO JIS10K- 1 No.
 Bilge Overboard valve, ANGLE SNDR 80A- CAST STEEL-FLG TO JIS10K- 1 No.
 DG Overboard valve, ANGLE SNDR 65A-CAST STEEL -FLG TO JIS10K- 3 No's
 GS/Ballast Overboard valve, ANGLE SNDR 80A-CAST STEEL-FLG TO JIS10K- 3 No's
 Fwd sea chest main valve, ANGLE SNDR--150A- FLG TO JIS 10K, CAST STEEL- 1 No.
 Emerg. Fire Pump main valve, ANGLE SNDR 80A FLG TO JIS 10K, CAST STEEL- 1 No.
 Fwd sea chest air valve, STOP VALVE 40A- MS-FLG TO JIS5K- 1 No.
 Main Sea Suction in and out, GATE VALVE 300A-CAST STEEL -FLG TO JIS5K - 4 No's.
 Main/FiFi sea suction airvent valves, STOP VALVE 50A- MS -FLG TO JIS5K- 1 No.
 Bilge and ballast suction valve 100 A-cast iron FLG TO JIS K
 FWD BT Room bilge suction valve - 50 A- 1 NO
 AC Condenser discharge valve, SNDR 50A-FLG TO JIS 5K,CAST IRON- 1 No.
 Emerg. Cool line valve from GS pump, STOP VALVE 80A-CAST IRON-FLG TO JIS5K- 1 No.
 Valve from fire pump to DW Manifold, STOP VALVE 80A-CAST IRON-FLG TO JIS10K- 1 No.
 Suction valve to drill water and fresh water cargo pump - 100 A , 1 No are bonnet removed from location and brought to workshop. Chemical Cleaning and buffing , done. After QC inspection valves were shifted to on board and fitted back on position.

Note: Galley board valve DN50 Valve- disc found not good, Yard fabricated brass disc-01 no. FWD sea chest valve disc found damaged, yard fabricated new disc-1no, Landry over board DN 50 disk not found. Yard fabricated new disc.

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Job No	Description	Line Amount
	FIFI pump sea suction volve DN 50-2 valves are fully removed. Brought to workshop and dismantled chemical cleaning and buffing done. Gravity test done .After QC inspection valve shifted to on board. Witnessed by client. QRs 30,140.00 + QRs 3825.00 additinal works =QRs 33,965.00 Based on our quotation EM 15821, 17.01	
1404	TAIL SHAFT AND STERN TUBE CLEARANCE :- Included in job no 9100	
1800	EXTERNAL CATHODIC PROTECTION:- 78 nos.of 10.5 kg zinc anode renewed yard supply, welded typescaffolding arrange and remove after completion QRs 365 per pc x 78 nos = QRs 28,470.00	28,470.00
1801	HULL FENDERING:- Existing air craft tyre fenders (dia.1050mm) around hull removed for hull treatment - 24 pcs : QRs 4800.00 Damaged chains & shackles of ship side tyre fenders replaced with owner supplied chain & shackles : QRs 2160.00 Fabricate and fit pad eye, per piece.- 5 nos. (3 stbd and 2 port) , size 100 x 100x 20mm thick : QRs 1375.00 Mobile crane/cherry picker charge for above works : QRs 10,625.00 As per our quotation EM 15821, item 2.05	18,960.00

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Job No	Description	Line Amount
1802	Job cancelled.	
1803	Seperately Invoiced -Project cost	
1804	Seperately Invoiced -Project cost	
1805	Seperately Invoiced -Project cost	
1806	Seperately Invoiced -Project cost	
1807	Seperately Invoiced -Project cost	
1808	Seperately Invoiced -Project cost	
1809	Seperately Invoiced -Project cost	
1810	Seperately Invoiced -Project cost	
1811	DRAIN PLUG :-	750.00
	Drain plug for F.W DB Centre tank removed and refitted. - 05 nos.	

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

Job No	Description	Line Amount
1812	REMOVE & REFIT OF DRAIN PLUGS :- 02 nos. bottom drain plug removed and refitted as per the instruction of owner's representative.	300.00
1813	Seperately Invoiced -Project cost	
1814	Seperately Invoiced -Project cost	
1815	STP TANK INSIDE PLATE REMOVAL:- Remove/refit of pipes on the top of sewage tank Open/close of top plate of sewage tank. As per our quotation EM 15821G, item no 2	4,160.00
1816	MARKING OF SWL :- Weld marking of "SWL 55T"done in 2 locations. As per our quotation EM 15821I, item 3	960.00
1817	Seperately Invoiced -Project cost	
1819	Seperately Invoiced -Project cost	
1820	Seperately Invoiced -Project cost	

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SHIP REPAIR & FABRICATION

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Fax : 4771687



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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/013066/2021

DATE: 26/11/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011161 / 1

W/O REF: MDO21130

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

Job No	Description	Line Amount
1821	Seperately Invoiced -Project cost	
1822	Seperately Invoiced -Project cost	
1823	Seperately Invoiced -Project cost	
1824	Seperately Invoiced -Project cost	
1825	Seperately Invoiced -Project cost	
1826	FABRICATION OF LIFE RAFT :-	1,430.00
	Life raft stand fabricated and installed, below materials used - Flat bar 80 x 6mm - 03 meters - 01 no.	
1827	Seperately Invoiced -Project cost	
1828	REPAIR OF HULL (IN WATER REPAIR) OF FORWARD FOREPEAK TANK :-	26,860.00
	Forepeak Tanks damaged area plate renewal done on side shell area as per below details. Materials used -- MS Plate 12mmX1500mmX1550mm - 01 no, MS Angle Internal stiffener - 10mmX150mmX100mm length 1500mm) - MS Bracket 12mmX350mmX350mm - 01 no.- Scaffolding platform fabrication with materials -	

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

Job No	Description	Line Amount
	MS Angle bar 75 x 75x 10mm - 22 Meters, 50 x 50 x 6mm - 30 meters	
	Below work is done to complete plate renewal.	
	-Scaffolding arranged and after removed forepeak tank inside.	
	- Hanging Scaffolding arranged and after removed welded type outside with using Buoy.	
	- Used mobile 80T crane for lifting and shifting of materials on location.	
	- MPI inspection done and found satisfactory.	
	As per our quotation EM 15821 Q, item 1	
1829	Seperately Invoiced -Project cost	
1830	Seperately Invoiced -Project cost	
1831	Seperately Invoiced -Project cost	
1832	Seperately Invoiced -Project cost	
1833	Seperately Invoiced -Project cost	
1834	Seperately Invoiced -Project cost	
1835	Seperately Invoiced -Project cost	

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

Job No	Description	Line Amount
1836	Seperately Invoiced -Project cost	
1837	SKY HATCH COVER:- 1 No. Main deck sky hatches cover landing area threaded holes to be retapped, Area to be cleaned, Gasket to be fabricated, Using client supplied rubber gasket, Cover refitted and tided all nut bolts with yard supply stud bolts M20mm nut M20mm and washer, Below material used.SS stud bolt 70mm long M20mm 50 no,SS nut and washer M20mm 50 no, Silicon 8 no,Hose test is done, Offer to client and found satisfactory.	3,110.00
1838	Seperately Invoiced -Project cost	
1839	Not done.	
2200	Seperately Invoiced -Project cost	
2400	Seperately Invoiced in job no 2405 -Project cost	
2401	FO SERV & SETTLE TANK 12.9 m3 x 2 nos :- Incl in Job no 2404	
2402	SEWAGE TREATMENT :- Cleaning of sewage tank. Removed manhole cover for access and later refitted with new	8,500.00

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

Job No	Description	Line Amount
	cover joint. Gas freed of tanks and issue certificate. HP Jet washing of tanks from outside and pump out, cleaned Tank has empty & sewage disposed	
2403	CLEANING OF MUD TANKS :- Job not done.	
2404	FO SERV & SETTLE TANK 12.9 m3 x 2 nos :- :- Removing tank manhole cover for access and later refitting with new cover joint. Gas freeing of tanks and issue certificate. Removing dirt and debris. Hand cleaning wiping and scarp, full cleaned with cotton rags Yard Provided Lighting and ventilation As per our quotation EM 15821, item no 7.03	9,700.00
2405	Seperately Invoiced -Project cost	
2500	SKIMMING OF BLADE :- 02 nos AFT seal Liner calibrated, OD machined as per client rep. instruction. report submitted to QC.02 nos FWD seal liner calibrated, OD machined as per client rep. instruction. report submitted to QC.FWD liner OD before machine 240.10mm. After machine 239.09mm.AFT liner OD before machine 260.10mm. After machine 259.12mm.	4,500.00

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

Job No	Description	Line Amount
	04 nos PORT and 04 nos STBD propeller blade seat area skim off.0.10mm removed from all the 8 blades.report submitted to QC. 04 nos STBD propeller blade cleaned and polished at work shop.	
2501	FABRICATION OF PLUGS Manufactured 4 nos Brass plug for attached A/C condenser cover.Plugs details as below.1. Brass plug ¾" BSP x 34mm long - 02 nos.2. Brass plug M18x2.5, 34mm long - 01 nos.3. Brass Plug ¼"BSP x 25mm long - 01 nos. As per our quotation EM 15821 D, item 1	690.00
2502	Seperately Invoiced -Project cost	
2503	SOUNDING PIPE HEAD AND PLUG FOR STBD MUD TANK:- Fabricated 01 nos SS housing with OD 130mm and long 48mm with ID 1 3/4" BSP thread. (yard material 150mm in diameter 55mm long) fabricated 01 nos brass plug with OD 73mm, 33mm long with male thread 1 3/4" BSP thread.Housing seating area in main deck grind and leveled, fit up and welded housing to main deck. As per our quotation EM 15821 R, item no 2	1,920.00
2504	Seperately Invoiced -Project cost	
2505	Seperately Invoiced -Project cost	

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W/O REF: MDO21130

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

Job No	Description	Line Amount
2800	Seperately Invoiced -Project cost	
5050	ME OIL COOLERS (PLATE TYPE) X 4 NOS :- Not done.	
5051	REMOVAL AND REFITTING OF MAIN ENGINE EXHAUST PIPE :- Sections of Port side Main engine Exhaust pipe including elbow and bellow to be removed an approx 4 Meters long).One In no. Pad eye to be fabricated and welded at engineroom deckhead on top of Port side main engine pad eye welded area to be DP tested.Scaffolding to be arranged for access and later removed on completion.	8,850.00
5600	FIFI PUMP ALINGMENT:- Carried out FIFI pump port side alignment by shipyard mechanics.	3,000.00
5601	Job cancelled.	
5602	Job cancelled.	
5603	Job cancelled.	
5604	Job cancelled.	

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

Job No	Description	Line Amount
5605	Job cancelled.	
5606	Job cancelled.	
5800	ANCHOR WINCH:- Anchor winch Break band port and stbd Removed from vessel and brought to workshop removed old break liner, break band blasting painting done. Installed back client supplied new break liner with new counter sunk bolt. Break band bring back to vessel refitted in original position. witnessed by client	7,700.00
5801	Job cancelled.	
5850	Seperately Invoiced -Project cost	
6000	Job cancelled.	
6001	Job cancelled.	
6002	Seperately Invoiced -Project cost	
6003	Seperately Invoiced -Project cost	

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

Job No	Description	Line Amount
6004	Seperately Invoiced -Project cost	
6005	Seperately Invoiced -Project cost	
6007	GOOSE NECK WELDING :- Galley exhaust fan goose neck Dia 1" pipe fabricate sch 80 x 1000 mm long with provide 180° bend and install on upper deck, penetration on upper deck dia one inch = 01 pipe . One doubler plate weld with pipe and deck od 200 mm X 08 mm thick = 01 nos. As per our quotation EM 15821 I, item no 2	400.00
6008	Seperately Invoiced -Project cost	
6009	Seperately Invoiced -Project cost	
6010	Seperately Invoiced -Project cost	
6011	Seperately Invoiced -Project cost	
6012	Seperately Invoiced -Project cost	
7000	FAN AND PUMP MOTOR OVERHAUL :- MOTORS/ BLOWERS/ PUMP TO BE OVERHAULED :-	87,486.00

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

Job No	Description	Line Amount
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Following Pump-Motors to be disconnected, removed, shifted to workshop, dismantled and overhauled. Motor to be overhauled. Motors bearings to be renewed. Motor's rotor and stator to be re-varnished, baked in oven, megger tested and reassembled. Motor assemblies to be returned to vessel and refitted in position.

1. AHU FAN MOTOR.
2. AC COMPRESSOR MOTORS. 2 NOS
3. AC CONDENSOR COOLING PUMP MOTOR. 2Nos.
4. STP DISCHARGE PUMP MOTOR.
5. BILGE PUMP MOTOR
6. BALLAST PUMP MOTOR
7. GS PUMP MOTOR.
8. FRC DAVIT CRANE MOTOR
9. BT ROOM BLOWER MOTOR
10. DECK STORE MOTOR
11. ENGINE ROOM BLOWER MOTORS. 2 Nos.
12. STEERING ROOM BLOWER MOTOR.
13. STEERING PUMP MOTORS. 4 Nos.

QRs 74,421.00

As per our quotation EM 15821, item 5.0

FOLLOWING MOTORS BEARING HOUSING RE-SLEEVEING DONE.

1. STREEING PUMP MOTORS DE SIDE. 4 Nos.
 2. BILGE PUMP MOTOR. DE & NDE.
 3. BALLAST PUMP MOTOR. DE & NDE.
 4. GS PUMP MOTORS. DE & NDE
 5. AC COMPRESSOR MOTOR.NO: 1.DE SIDE
 6. AC CONDENSOR COOLING PUMP MOTOR.NO:1. DE SIDE.
- QRs 11,400.00

FOR FOLLOWING MOTORS BEARING SUPPLIED BY SHIPYARD.

1. ENGINE ROOM BLOWER(STBD).6309 2Z C3-2NOS

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

Job No	Description	Line Amount
	2. BILGE/BALLAST/GS PUMP MOTORS-6312 2Z C3-3NOS & 6209 2ZC3 -1 NO. 3. AC COMPRESSOR MOTOR. 6314 C3-2 NOS. 4. AHU MOTOR .6309 2Z C3 AND 6208 2Z C3 5. AC CONDENSOR COOLING PUMP MOTORS. 6308 2Z & 6207 2Z 6. STREEING MOTORS.6208-4NOS & 6207-4NOS 7. FRC DAVIT MOTOR.6308 2z C3. 1NO. 8. AC CONDENSOR STBY COOLING PUMP MOTOR.6206-1NO &6208-1NO QRs 1665.00	
7001	MAIN & EMERGENCY SWITCHBOARD :- Area behind main & emergency switchboards cleaned. All connections examined and retightened as necessary. As per our quotation EM 15821, item 18.01	4,100.00
7002	ALTERNATOR INSITU OVERHAUL X 3 NOS:- NO:1 ALTERNATOR : Disconnected all the cables from AVR & AVR also removed." All the access works are done like removal of cable terminal boxes covers battery boxes steel angle bar frame which was towards to DG's. Disconnected all power, control, instrumentation cables from bus bar terminals. Removed non drive end cover along with stator exciter coil & all access doors are opened in order to carry out chemical cleaning. Checked insulation value of Alternators stator, rotor, and exciters and recorded.	24,660.00

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

Job No	Description	Line Amount
7002-1	<p>Cleaned stator & rotor winding using electrical cleaning solvent, cured by heater." New NDE cover installed. Necessary machine job done." Installed ship supplied bearings 6315C3 & yard supplied O ring Re-assembled back to original position. Shifted, and installed back non-end drive cover into original position & all bolts has been tighten 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. Airgap checked between main stator & rotor and exciter stator & rotor. Report has been submitted to QAQC . Tested alternator and satisfactory running test carried out. NOTE: Bearing and NDE cover supplied by owner</p> <p>NO:2 ALTERNATOR :-</p> <p>Marked & disconnected of power, control cables, panel and control panel, AVR unit and terminal box from the Generator unit.</p> <p>All the access works are done like removal of cable terminal boxes covers battery boxes steel angle bar frame which was towards to DG's.</p> <p>Unbolted base & coupling bolt of Alternators and kept wooden supports for DG's.</p> <p>Alternator's pull out from DG & shifted to electrical workshop. Dismantled end covers, draw out rotor with exciter from alternator and removed existing bearing from the rotor shaft. Checked insulation value of main stator, rotor, and exciter coil of stator & rotor and note down. Values are reordered. Heater coil also checked & found ok." Cleaned all winding using electrical cleaning solvent, cured inside the temperature control oven and double coat re-varnished applied for all windings. All mechanical parts also cleaned by solvent and cured. Most of the rust area (body, end cover) power tooled & applied red oxide varnish. Renewed end cover bearing housing and machining work done for needful clearance. Checked main</p>	

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

Job No	Description	Line Amount
7002-2	<p>stator, rotor, exciting stator & rotor exciter coils and reading reordered & QC report issued. Checked all alternators diodes and found ok. Re-assembled the alternator with ship supplied bearing 6315 C3 - 1Pc's & yard supplied 4mm O rings. Shifted to onboard and installed on location. Alternator coupled with accordingly. Foundation bolts, coupling bolts tighten and reconnected all the electricals cables according to marking. All the access works are refitted. Satisfactory running test carried out with load. NOTE: Bearing and NDE cover supplied by owner.</p> <p>NO:3 ALTERNATOR :-</p> <p>Marked & disconnected of power, control cables, panel and control panel, AVR unit and terminal box from the Generator unit. All the access works are done like removal of cable terminal boxes covers battery boxes steel angle bar frame which was towards to DG's. Unbolted base & coupling bolt of Alternators and kept wooden supports for DG's. Alternator's pull out from DG & shifted to electrical workshop. Dismantled end covers, draw out rotor with exciter from alternator and removed existing bearing from the rotor shaft. Checked insulation value of main stator, rotor, and exciter coil of stator & rotor and note down. Values are reordered. Heater coil also checked & found ok." Cleaned all winding using electrical cleaning solvent, cured inside the temperature control oven and double coat re-varnished applied for all windings. All mechanical parts also cleaned by solvent and cured. Most of the rust area (body, end cover) power tooled & applied red oxide varnish." renewed end cover bearing housing and machining work done for needful clearance. Checked main stator, rotor, exciting stator & rotor exciter coils and reading reordered & QC report issued. Checked all alternators diodes and found ok." Re-assembled the alternator with ship supplied bearing 6315 C3 - 1Pc's & yard supplied 4mm O rings. Shifted to onboard and installed on location. Alternator coupled with accordingly.</p>	

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W/O NO: 21-011161 / 1

W/O REF: MDO21130

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

Job No	Description	Line Amount
	Foundation bolts, coupling bolts tighten and reconnected all the electricals cables according to marking. All the access works are refitted. Satisfactory running test carried out with load. NOTE: Bearing and NDE cover supplied by owner	
7003	EMERGENCY GENERATOR INSITU OVERHAUL :- Job identified. Carried out megger test of alternator windings before chemical cleaning & value recorded. Removed access covers. Cleaned stator & rotor winding using electrical cleaning solvent. Re-closed all access cover back to original position. Checked alternator windings insulation & value recorded. Re-connected AVR as per the original position	5,060.00
7004	Seperately Invoiced -Project cost	
7500	SUPPLY OF MATERIALS :- Following valves supplied onboard. DN butterfly valve 100 - 02 nos Gate valves: DN 50 - 2 nos Brass gate valve 1 1/2" threaded end - 2 nos Gate valve DN 50 - 2 nos Brass Gate valve 1 1/2" threaded end - 2 nos	1,850.00
7501	Seperately Invoiced -Project cost	
8000	BOW THRUSTER CLEAN POLISH :- Removed grids. Clean and polished bow thruster. 4 nos of blade	6,300.00

E & O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION & ENGINEERING DIVISION

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QATAR NAVIGATION (QPSC)

SHIP REPAIR & FABRICATION

Telephones

Office : 4771690 / 4771695

Fax : 4771687



INVOICE

Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBAQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

Page: 27 / 28

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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/013066/2021

DATE: 26/11/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011161 / 1

W/O REF: MDO21130

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

Job No	Description	Line Amount
	with grade 60 felt disc at site, refit the grids.erected staging before start the job and removed after completion of the job.	
	As per our quotation EM 15821 , item 9.07	
8001	POLISHING OF PROPELLER BLADES PORT SIDE :- Port side propeller 4 nos blade cleaned and polished with 60 grade felt disc at work shop.	4,400.00
9000	RUDDER REMOVE & REFIT :- Incl in job no 1401	
9100	CPP TAILSHAFT WORKS :- Port & Stbd. tail shafts withdrawn for Special Survey Port and stbd. Rope guards opened, removed and poker gauge readings taken and recorded. Port and stbd. CPP blades opened, and shifted to workshop. Both inner and outer shafts seals opened and released.Both shaft's couplings opened, pitch shaft disconnected and fluid coupling removed from shaft by oil injection. Both shafts withdrawn and set up stand. Both A bracket bearing clearance recorded. Port and stbd. pitch head opened. Pull push rods disconnected and pitch heads shifted to workshop Both pitch heads dismantled, cleaned and overhauled with owner's supplied spare and assistance of maker's specialist.Seal assembly shifted to workshop, dismantled and	83,875.00

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DATE: 26/11/2021

EXPENSE A/C: 85.901.1434006

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W/O REF: MDO21130

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

Job No	Description	Line Amount
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cleaned. .Seal assembly reassembled with owner's supplied seal repair kit and shifted to vessel.
 Stern tube and shaft fully cleaned and calibrated.
 Pitch head shifted to vessel, refitted in position and pullpush rod connected.
 Port & stbd. tailshafts refitted in position. coupling remounted to correct position by oil injection and pitch rods refitted.
 Tailshaft coupled with gearbox, inner and outer seals set up and bolted with stern tube.
 Removed blades refitted in position and blades mounting bolts to be locked using SS round bar and welded in position. Final poker gauge reading taken, recorded. Seal space filled with oil in the presence of Chief Engineer.
 Fill stern tube oil and leak tested on completion. Propeller pitch operation tried out and zero pitch to be confirmed. Rope guard refitted as original.

As per our quotation EM 15821, item 9

9101 N.A

9102 N.A

Invoice Amount --> 725,868.00

(QAR - Seven Hundred Twenty-Five Thousand Eight Hundred Sixty-Eight Only)

E & O.E

for QATAR NAVIGATION (Q.S.C)

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