

## QATAR NAVIGATION (QPSC)

## SHIP REPAIR &amp; FABRICATION

## Telephones

Office : 4771690 / 4771695

Fax : 4771687



## INVOICE

Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBAQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012871/2021

DATE: 16/07/2021

EXPENSE A/C:

W/O NO: 21-011117 / 1

W/O REF: MDY21091

Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
	VESSEL ARRIVED : 08-04-2021 VESSEL DOCKED : 08-04-2021 VESSEL UNDOCKED : 26-05-2021 VESSEL SAILED : 26-05-2021	
1100	BERTH PREPARATION, DOCKING AND UNDOCKING :-  Berth prepared, boat docked and undocked, including dock hire for first 2 days.  As per standard schedule of rates, page no. 8.	9,270.00
1101	DRYBERTH HIRE:-  Dryberth hire for remaining period (47 days).  Based on standard schedule of rates, page no. 9 (QRs. 1,540.00 per day x 47 days = QRs. 72,380.00).	72,380.00
1102	SERVICES :-  Fire and safety watch provided. (QRs. 310.00 per day x 49 days = QRs. 15,190.00).  Fire line provided. (QRs. 185.00 per day x 49 days + QRs. 255.00 = QRs. 9,320.00).  Galley garbage skip provided. (QRs. 255.00 per day x 49 days = QRs. 12,495.00).  Electrical shore power supplied.380 volt and 50 HZ , including	76,551.50

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connection and disconnection.

(QRs. 255.00 per day x 49 days + QRs. 255.00 = QRs. 12,750.00).

2 Nos. Sea water cooling lines.

(QRs. 255.00 per connection per day x 49 days ) x 2 Nos.+ QRs. 255.00 x 2 Nos.= QRs.25,500.00).

Discharge line fitted and removed in completion of work.

(QRs. 380 per piece x 1 piece = QRs. 380)

14.1 Tons Fresh water supply.

(QRs. 65 per ton x 14.1 tons = QRs. 916.5.00).

1150 SCAFFOLDING :-

Included.

1151 RENEWAL OF HALYAR ROPES :-

Job has been cancelled.

1152 RENEWAL OF MATTRESS COVER BED SHEETS :-

13,283.00

Renewal of mattresses covers, bed sheets billow and blanket required.

1153 INSULATION WORK :-

16,676.00

A/C chilled water line check the insulation and repaired, necessary renewed by specialist subcontractor.

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Job No	Description	Line Amount
1154	PEST CONTROL :-  Pest control carried out inside the boat by sub-contractor NMSC as per navy instruction.	650.00
1200	UNDERWATER AREA TREATMENT AND PAINTING :-  Under water area treated and painted as follows :-  Hand scrapped to remove marine growth (QRs. 750.00). HP jet washed using fresh water (QRs. 2,000.00). Damaged paint area power tool cleaned 80% of area (QRs. 10,000.00). Hosed down with fresh water (QRs. 450.00). Applied with two T/U coat primer (QRs. 800.00). Applied one T/U coat sealer (QRs. 800.00). Applied one T/U coat antifouling (QRs. 800.00). Applied one Full coat Antifouling (QRs. 1,875.00).  (All Paint supply by yard and included in Job No. 7500).	17,475.00
1201	WATER JET UNIT :-  MJP water jet unit cleaned, washed, treated and painted with black antifouling paint. (All Paint supply by yard and included in Job No. 7500).  Painter:- QRs. 75.00 per hour x 58 hours = QRs. 4,350.00. Cleaner:- QRs. 48/ hour x 28 hours = QRs. 1,344.00. Consumable:- QRs. 120.00.	5,814.00

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Job No	Description	Line Amount
1202	PAINTING OF AFT TRANSOM :-  Aft transom area cleaned, washed, power sanded and applied with one coat sealer and applied with one coat white antifouling.  (All paints supplied by ship yard (Included in job No. 7500.00).  Painter :- QRs. 75.00 per hour x 32 hours = QRs. 2,400.00. Scaffolder :- QRs. 75.00 per hour x 15 hours = QRs. 1,125.00. Consumable:- QRs. 150.00.	3,675.00
1203	CLEANING AND PINTING OF CHAIN LOCKER :-  Chain locker cleaned and painted as per Navy instruction. (Paint Supply by yard included in Job No. 7500).  As per standard schedule of rates, page no. 12.	2,575.00
1204	GALLEY EXHAUST FILTER :-  Galley exhaust filter to opened removed cleaned and re fitted as per navy instruction.  Cleaner:- QRs. 48/ hour x 48 hours = QRs. 2,304.00. Consumable:- QRs. 100.00.	2,404.00
1205	CLEANING AND PAINTING OF A/C COMPRESSOR AND BOTTOM TRAY :-	1,230.00

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Job No	Description	Line Amount
	<p>A/C compressor and bottom tray cleaned with thinner and applied with one full coat white paint (52410-10000). (All paints supplied by ship yard (Included in job No. 7500.00)).</p> <p>Painter:- QRs. 75.00 per hour x 16 hours = QRs. 1,200.00. Consumable:- QRs. 30.00.</p>	
1206	<p>CLEANING AND PAINTING OF DECK CRANE AND AFT ENGINE ROOM ESCAPE HATCH :-</p> <p>Deck crane rusted area and Aft. engine room escape hatch cleaned and painted. (Paint Supply By yard included in Job No. 7500).</p> <p>Painter:- QRs. 75.00 per hour x 52 hours = QRs. 3,900.00. Consumable:- QRs. 175.00</p>	4,075.00
1207	<p>PAINTING OF FWD. AND AFT UPPER DECK :-</p> <p>Fwd. and aft upper deck cleaned and painted. (All Paint Supply By yard included in Job No. 7500).</p> <p>Painter:- QRs. 75 per hour x 82 hours = QRs. 6,150.00. Consumable:- QRs. 300.00.</p>	6,450.00
1208	<p>CLEANING AND PAINTING OF FIRE PUMP BASE :-</p> <p>Both fire pump base cleaned and painted.</p> <p>Painter:- QRs. 75 per hour x 22 hours = QRs. 1,650.00.</p>	2,710.00

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Job No	Description	Line Amount
	Cleaner:- QRs. 48 per hour x 20 hours = QRs. 960.00. Consumable:- QRs. 100.00.	
1209	PROP SPEED :-  5 Nos. Prop speed supplied and applied for propellers, tie rods, steering rudder, stern tubes and universal shaft joint housing as per Navy instruction.  Painter:- QRs. 75.00 per hour x 48 hours = QRs. 3,600.00. Consumable (Prop speed) QRs. 8,062.00.	11,662.00
1210	ABOVE WATER AREA CLEANING AND POLISHING :-  Above water area treated and painted as follows. HP jet washed with fresh water. Area applied with 3mm rubbing compound sanded and polished with machine.  Painter:- QRs. 75.00 per hour x 160 Hours = QRs.12,000.00). Consumable:- QRs. 700.00.	12,700.00
1211	WHEEL HOUSE & MAST CLEANING AND POLISHING :-  Wheel house from outside and mast cleaned washed polished. Scaffolding arranged for access and later removed on completion.  Painter/Scaffolder:- QRs. 75 per hour x 98 hours = QRs. 7,350.00. Consumable:- QRs. 300.00.	7,650.00

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Job No	Description	Line Amount
1212	PAINTING OF FUEL PURIFIER, FOREPEAK TANK AND AIR COMPRESSOR :-  Paint work carried out on fuel purifier, forepeak tank and air compressor.  Painter/Scaffolder:- QRs. 75 per hour x 46 hours = QRs. 3,450.00. Consumable:- QRs. 200.00	3,650.00
1250	CLEANING AND PAINTING OF BILGES :-  All bilges remaining oily water bailed out, cleaned with thinner and applied with full coat white enamel. Engine room floor plates cleaned. (All paints supplied by ship yard (Included in job No. 7500.00)).  Painter:- QRs. 75.00 per hour x 35 hours = QRs. 2,625.00. Cleaner:- QRs. 48.00/ hour x 200 hours = QRs. 9,600.00. Consumable:- QRs. 330.00.	12,555.00
1251	PROVISION, TANK ROOM BILGES CLEANING AND PAINTING OF BILGES :-  Included in Job No. 1250.	
1350	ANCHOR AND CHAIN:-  Anchor and anchor chain lowered and later repositioned (QRs. 1,030.00).	2,780.00

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Anchor and chain HP Jet washed (QRs.720.00).

Anchor and chain painted (620.00).

Chain shots marked with red and yellow paint (QRs. 410.00).

(All paints supplied by ship yard (Included in job No. 7500.00).

Based on standard schedule of rates, page no. 11.

1400	SEA SUCTION VALVE :-	3,040.00
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Main engine (port &amp; Stbd) Sea suction butterfly valve DN125-

2nos removed from location and brought to yard workshop.

Cleaning and buffing done. Gravity test done.

No leak found.

Valve not closing properly (very tight).

Client rejected the valves.

Yard supplied 2 Nos. new DN 125 Butterfly valves shifted to on-board and fitted on position.

As per client instruction 1.5 bar pressure test done through the strainers. No found leaks.

Witnessed by Client and Yard QC.

Mechanic:- QRs. 88.00 per hour x 20 Hour = QRs. 1,760.00.

Material/Consumable:- QRs. 1,280.00.

1401	RENEWAL OF D/G, R/O PLANT MAIN REFRIGARATION FIRE PUMP SEA SUCTION VALVES :-	3,404.00
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1 No. DG (Stbd) sea suction Butterfly valve size DN65 removed

from location and brought to yard workshop. Cleaning and

buffing done. Gravity test done. No leaks found. Valve shifted

to on-board and fitted back on position. Witnessed by Client.

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Job No	Description	Line Amount
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1 No. DG(Port) sea suction Gear operated Butterfly valve size DN50 removed from location and brought to workshop. Valve rubber seat found damaged. Yard supplied 1 No. new DN 50 Butterfly valve shifted to on-board and fitted on position. Valve spindle modified as per the existing valve. Modification done by yard. Witnessed by Client.

1 No. RO plant sea suction Ball valve size 1" dia. removed from location and brought to yard workshop. Cleaning and buffing done. Gravity test done. No leaks found. Valve shifted to on-board and fitted back on position. Witnessed by Client.

1 No. Main refrigerator sea suction Ball valve size 1" dia. removed from location and brought to yard workshop. Cleaning and buffing done. Gravity test done.

No leaks found. Valve shifted to on-board and fitted back on position. Witnessed by Client.

2 Nos. Fire pump sea suction Ball valves size each 1 1/2" dia. removed from location and brought to yard workshop. Cleaning and buffing done. Gravity test done. No leaks found. Valve shifted to on-board and fitted back on position. Witnessed by Client.

Mechanic:- QRs. 88.00 per hour x 33 Hour = QRs. 2,904.00.

Material/Consumable:- QRs. 500.00.

1402	RENEWAL OF AIR CONDITION VALVES :-	7,185.00
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4 Nos. Air condition brass ball valves size each 2" dia. removed from location and brought to yard workshop. Found not good. Client rejected. Yard supplied 4 Nos. new SS ball valves size each 2" dia. shifted to on-board and fitted back on

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position. New valves threads are machined as per the existing old valves.

2 Nos. 2" dia male to female fitting Brass and 1 No. 2" dia. brass pipe socket manufactured and fitted for valves. Inspected and witnessed by Client

Mechanic/Machinist:- QRs. 88.00 per hour x 55 Hour = QRs. 4,840.00.

Material/Consumable:- QRs. 2,345.00

1403	FIBER GLASS SEA CHEST :-	3,774.00
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Faber glass sea chest removed, cleaned, painted and latter refitted after completed all the suction line valves. Refitted with yard supplied silicon.

Mechanic:- QRs. 88.00 per hour x 38 hours = QRs. 3,344.00.

Consumable:- QRs. 430.00.

1404	STRAINER FILTER :-	5,488.00
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A total of 9 Nos. Strainer filters (Main engine strainer 5"-2nos, DG strainers 2"-2nos, Fire pump strainers 2"-2nos, Water maker strainer 1"-2nos, Main AC 2 ½" -1no. ) removed from location and brought to workshop. Chemical cleaned and buffed. Strainers housing cleaned in location. All the 9no of strainer filters found ok and shifted to on-board. After ship staff's inspection strainer filters are fitted back on position with yard supplied new O-rings. Witnessed by Client.

Mechanic:- QRs. 88.00 per hour x 56 hours = QRs. 4,928.00.

Consumable:- QRs. 560.00.

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1405	SEA SUCTION VALVE, FILTER AND PIPE LINES :-  Filters and pipe lines of RO plant checked and cleaned. Found Ok. Witnessed by Client. 2 Nos. Fire pump sea suction butterfly valve size DN 65 removed from location and brought to workshop. Cleaned and buffing done. Carried out gravity test. No leaks found. Witnessed by yard QC and Client. Valve shifted to on board and fitted back on position. Witnessed by client. 2 Nos. pipes removed for access and later refitted on completion of valve overhauling.  Mechanic:- QRs. 88.00 per hour x 18 hours = QRs. 1,584.00. Consumable:- QRs. 144.00.	1,728.00
1406	OVERHAULING OF EEVAC DISCHARGE VALVE :-  1 No. EVAC discharge Brass ball valve size 2 ½" dia. and 2 Nos. Brass NRV- Y type valve size 2 ½" removed from location and brought to workshop. Dismantled and chemical cleaned. Buffing done. After client inspection, assembled and gravity test done. No leaks found. Witnessed by client. Valves are shifted to vessel and fitted back on position. Witnessed by client.  Mechanic:- QRs. 88.00 per hour x 40 hours = QRs. 3,520.00. Consumable:- QRs. 100.00.	3,620.00
1407	REPAIR OF FIRE PUMP DISCHARGE LINE AND BALL VALVE :-	930.00

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Job No	Description	Line Amount
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1 No. Fire pump discharge brass ball valve size 2" dia. removed from location. Valve found in bad condition. Navy supplied 1 No. new ball valve size 2" fitted back in position. Witnessed by Client.

Mechanic:- QRs. 88.00 per hour x 10 hours = QRs. 880.00.

Consumable:- QRs. 50.00.

1408 REPAIR OF MJP HYDRAULIC HOSES AND INTERNAL PIPE LINE :-

Job has been cancelled.

1409 SEA SUCTION VAVE, PIPE LINE :-

528.00

1 No. AC plant sea suction brass ball valve size 1" dia. removed from location and brought to workshop. Dismantled, chemical cleaned and buffing. Valve Gravity test done. No leaks found. Witnessed by Client and yard QC. Valve shifted to vessel and fitted back on position.

Mechanic:- QRs. 88.00 per hour x 6 hours = QRs. 528.00.

1410 REPAIR OF SEA CHEST VALVE AND DISCHARGE VALVE :-

930.00

1 No. AC plant Sea Suction brass ball valve size 1 ½" dia. and 2 Nos. 1 ¼" dia. Discharge brass ball valves removed from location and brought to workshop. Chemical cleaned and buffing done. Gravity test carried out. No leaks found. Witnessed by Client and Yard QC. Valves shifted to vessel and fitted back on position. Witnessed by client.

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Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012871/2021

DATE: 16/07/2021

EXPENSE A/C:

W/O NO: 21-011117 / 1

W/O REF: MDY21091

Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
	Mechanic:- QRs. 88.00 per hour x 10 hours = QRs. 880.00. Consumable:- QRs. 50.00.	
1411	SEA CHEST VALVE AND DISCHARGE VALVE :-  1 No. AC Bypass Brass ball valve size 2" removed from location and brought to workshop. Chemical cleaning and buffing done. Gravity test carried out. No leaks found. Witnessed by client and Yard QC. Valve sent to vessel and fitted on position. Witnessed by Client.  Mechanic:- QRs. 88.00 per hour x 6 hours = QRs. 528.00. Consumable:- QRs. 22.00.	550.00
1412	RENEWAL OF PRESSURE GAUGES :-  5 Nos. pressure gauges (0-16 bar) supplied by yard. 04nos pressure gauges handed over to client. 01no pressure gauge was fitted to AC plant. Witnessed by Client.  Mechanic:- QRs. 88.00 per hour x 8 hours = QRs. 704.00. Material:- QRs. 483.00.	1,187.00
1413	REPAIR OF FIRE HYDRANT VALVE :-  4 Nos. Fire line Y-type valve removed from location and brought to workshop. Buffing cleaning done. After inspection Valve shifted on -board and fitted back on position. Witnessed by Client.  Mechanic:- QRs. 88.00 per hour x 19 hours = QRs. 1,672.00.	1,772.00

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
	Material:- QRs. 100.00.	
1800	RENEWAL OF GUARD RAIL WIRES :-  All guard rail wires cable inspected, and found damaged. All yard supplied guard rail wire (Plastic coated stainless steel 6mm dia. wire), approx. 250 meters. Renewed, as per owner's instruction. Yard supplied 10 nos. cable wire. fittings renewed.  Fabricator:- QRs. 88.00 per hour x 92 hours = QRs. 8,096.00. Material:- QRs.6,424.00.	14,250.00
1801	RENEWAL OF BATHROOM WATER PROOF GASKET :-  All bath room doors water proof gasket inspected and renewed using supplied 20 metre. Rubber beading.  Fabricator:- QRs. 88.00 per hour x 66 hours = QRs. 5,808.00. Material:- QRs.800.00.	6,608.00
1802	REPAIR OF MAIN ENTERENCE AND BRIDGE PORT SIDE DOOR LOCK :-  Job has been cancelled.	
1803	STANCHIONS OF GUARD RAIL :-  Stanchion of guard rails inspected, cleaned polished.  Painter:- QRs. 75.00 per hour x 42 hours = QRs. 3,150.00.	3,250.00

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
	Consumable:- QRs. 100.00.	
1804	REPAIR OF AFT ENGINE ROOM ESCAPE HATCH :-  AFT engine room escape hatch corroded area cut and removed. New plate fabricated, fitted and welded. M.S. Plate size 150mm x 250mm x 12mm thickness - 1 No. M.S. Plate size 500mm x 240mm x 06mm thickness - 1 No. M.S. Pad eye size 150mm x 100mm x 12mm thickness. - 2 Nos. M.S. Pad eye size 60mm x 60mm x 12mm thickness. - 1 No. Stainless steel round bar size 25mm dia. x 290mm long - 1 No.  fabricator/Welder:- QRs. 88.00 per hour x 32 hours = QRs. 2,816.00. Material/Consumable:- QRs. 130.00.	2,946.00
1805	CLEANING OF AIR INLET FILTER :-  Air inlet filter FWD engine room removed, cleaned and refitted.  Fabricator:- QRs. 88.00 per hour x 30 Hours = QRs. 2,640.00. Consumable:- QRs. 100.00.	2,740.00
1806	POLISHING OF INTERNAL BULK HEAD AND STAIRCASE GUARD RAILS :-  Painted & polished internal bulkhead and staircase guard rails.  Fabricator:- QRs. 88.00 per hour x 20 Hours = QRs. 1,760.00. Consumable:- QRs. 100.00.	1,860.00

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
1807	RENEWAL OF BATH ROOM DOOR WATER RUBBER GASKET :- Included in Job No. 1801.	
1808	POLISHING OF FWD. ANCHOR BASE :-  Fwd. anchor base SS material cleaned and polished, scaffolding arranged and later removed.  Fabricator:- QRs. 88.00/hour x 6 hours = QRs. 528.00. Scaffolder:- QRs. 75 per hour x 11 hours = QRs. 825.00. Consumables:- QRs. 50.00.	1,403.00
1809	RUBBER BEADING OF FWD. AND AFT ENGINE ROOM DOORS :-  Silicon filled in rubber beading of FWD & AFT engine room doors, as per navy instruction.  Fabricator:- QRs. 88.00/hour x 13 hours = QRs. 1,144.00. Consumables:- QRs. 100.00.	1,244.00
1810	REPAIR OF DAMAGED LOCK OF CABINET LOCKER :-  One in No. damaged locks of cabinet locker repaired.  Fabricator:- QRs. 88.00/hour x 13 hours = QRs. 1,144.00. Consumables:- QRs. 10.00.	1,154.00
2200	RENEWAL OF CANVAS COVER :-	8,860.00

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
	Canvas covers (67 Meters) made for ship main gun and search lights as per navy instruction.	
2201	RENEWAL OF BRIDGE CHAIR SEAT :- Bridge chairs seat covers renewed by specialist subcontractor.	3,622.50
2202	RENEWAL OF SHIP FLOOR MAT :- Job has been cancelled.	
2203	RENEWAL OF FLOROCENT EMERGENCY MARKING :- Job has been cancelled.	
2204	REPAIR OF CURTAIN HOLDER :- Job has been cancelled.	
2205	REPAIR OF ROPE GUARD BEADING :- Job has been cancelled.	
2250	REPAIR OF STBD. SIDE MAIN ENGINE EXHAUST FIBER GLASS :- STBD side main engine exhaust fibre glass cover damaged , same to be repaired as per navy instruction.	1,875.00

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
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Fiberglass technician:- QRs. 75.00 per hour x 25 Hours = QRs. 1,875.00.

Consumable:- QRs. 200.00.

2251	REPAIR OF STBD. RUBBER FENDER :-	3,750.00
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STBD damaged rubber fenders repaired using yard supplied Sikaflex.  
Scaffolding arranged for access and later removed on completion.

Carpenter/Scaffolder:- QRs. 75.00 per hour x 40 Hours = QRs. 3,000.00.

Consumable:- QRs. 750.00.

2400	CLEANING OF TANKS :-	8,106.00
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Following tanks Gas freed, gas free tested and certificate issued.

All tanks manholes cover removed and later refitted.

Tanks remaining water bailed out and cleaned with cotton rags.

- Fuel oil tank - 3 Nos.
- Fresh water tank - 2 Nos.
- Sewage black tank - 1 No.
- Sludge tank - 1 No.

Cleaner:- QRs. 48.00 per hour x 147 Hours = QRs. 7,056.00.

Consumable:- QRs. 1,050.00.

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
2500	<p>ZINC ANODES :-</p> <p>Following zinc anodes renewed for port and stbd. water jet unit.</p> <p>Zinc anode size 10.5 Kgs. - 8 Nos. (QRs. 3,040.00).            Sphere shape anode size 140mm Dia x 43mm thickness - 12 Nos (QRs. 3,300.00).            Exhaust cover anode size 50mm dia. x 30mm thickness - 2 Nos. (QRs. 500.00).            Trim tab zinc anode size 150 mm 80mm x 32mm - 4 Nos. (QRs. 1,000.00).            Transom anode size 180mm x 80mm x 35mm - 2 Nos. (QRs. 500.00).</p>	8,340.00
2501	<p>POLISHING OF PORT AND STBD. TAILSHAFTS :-</p> <p>Port and stbd. SS shafts cleaned and polished using cup steel wire brush at site.</p> <p>Machinist:- QRs. 88.00 per hour x 10 hours = QRs. 880.00.            Consumable:- QRs. 200.00.</p>	1,080.00
2502	<p>MANUFATCTURE OF VALVE ADAPTOR :-</p> <p>Valve adaptor manufactured using bronze material size 100 mm OD, 2" BSP thread as per sample - 3 Nos.            Copper Nickle cooling pipe's damaged one end the fitting same cut and new fitting with ferules manufactured and renewed welded the original one total - 2 Nos.</p> <p>Machinist:- QRs. 88.00 per hour x 24 hours = QRs. 2,112.00.            Material/Consumable:- QRs. 810.00."</p>	2,922.00

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
5050	MAIN ENGINE SUCTION :-  Main engines PORT & STBD side not getting enough suction, same checked and repaired.  Mechanic:- QRs. 88.00 per hour x 12 hours = QRs. 1,056.00."	1,056.00
6000	TOILET VACCUM SYSTEM :-  One section of toilet vacuum flap plug removed, cleaned and refitted to size 3"dia x 400mm long pipe provided with both end flanges.  Pipe fitter:- QRs. 88.00 per hour x 6 hours = QRs. 528.00.	528.00
6001	EVAC SYSTEM DRAINAGE UNIT :-  EVAC system drainage unit collecting tank's inlet and out let pipe lines ( 05 nos.) disconnected, shifted to work shop, inspected, cleaned and refitted in position. One no. stainless steel perforated sheet size 1020mm x 1000mm x 2mm thickness provided with 1.5mm di. hole.  Pipe fitter:- QRs. 88.00 per hour x 55 hours = QRs. 4,840.00. Material:- QRs. 1,264.00.	6,104.00
6002	CLEANING OF D/G EXHAUST PIPE AND SEA WATER DISCHARGE LINE :-  Following works carried out for D/G exhaust pips and sea water discharge line. 2 Nos, 3 ½" dia. Pipe x 350mm long, damaged welding area	3,296.00

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Job No	Description	Line Amount
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rewelded.

3 Nos. 3 ½" dia. pipe x 350mm long pipe cleaned and refitted.

All hoses refitted using same hose clips.

Pipe fitter/Welder:- QRs. 88.00 per hour x 33 hours = QRs.

2,904.00.

Consumable:- QRs. 392.00.

6003	MODIFICATION OF ENGINE ROOM FIRE PUMP SUCTION LINE :-	1,380.00
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Section of Engine room fire pumps suction line Size 2" dia. copper nickel pipe x 2500mm long, disconnected from position, shifted to work shop. 1 No. branch pipe size 1" dia stainless steel pipe x 100mm long provided one side thread fabricated and other side welded with 2" pipe. Yard supplied 1 No. new threaded type brass gate valve size 1" dia. fitted with branch pipe.

Pipe fitter/Welder:- QRs. 88.00 per hour x 15 hours = QRs.

1,320.00.

Consumable:- QRs. 60.00.

6004	MODIFICATION OF WATER MAKING STRAINER HOUSING :-	1,056.00
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Water maker strainer housing cover modified. Water maker strainer housing cover removed cleaned and refitted with new gaskets and 2 Nos. new 6mm threaded bolt fittings.

Pipe fitter:- QRs. 88.00 per hour x 12 hours = QRs. 1,056.00.

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
6005	MANUFACTURE AND INSTALLATION OF COUPLING :-  Job has been cancelled.	
6006	REPAIR OF ACOMODATION WATER LEAKING :-  Accommodation room water leakage from ceiling, rectified. One section of 2"dia. copper nickel pipe with union disconnected, thread cleaned and refitted. Ceiling removed for access and later refitted.  Pipe fitter:- QRs. 88.00 per hour x 18 hours = QRs. 1,584.00. Consumable:- QRs. 66.00.	1,650.00
6007	RENEWAL OF FIRE HOSES :-  Job has been cancelled.	
6008	REPAIR OF FIRE FIGHTING SPRAY NOZZLE :-  Job has been cancelled.	
6009	RENEWAL OF Y STRAINER FILTER :-  One section of A/C out let copper nickel pipe size 2" dia. disconnected, shifted to workshop. Additional one No. 2" dia. Y' strainer connected, cleaned and refitted.  Pipe fitter:- QRs. 88.00 per hour x 6 hours = QRs. 528.00. Material:- QRs. 220.00.	748.00

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Job No	Description	Line Amount
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6010	REPAIR OF A/C SYSTEM BYPASS CONECTION LINE :-	1,460.00
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One section of 1 ½" dia. A/C bye pass valve out let and inlet line disconnected cleaned and refitted.

Ball valve size 1 ½" - 1 No.

Union size 1 ½" - 1 No

Brass nipple size 1 ½" - 1 No.

Copper nickel pipe size 1 1/2" dia. x 2000mm long removed for access and later refitted.

25mm dia. A/C overboard hose pipe, removed, cleaned and refitted.

Pipe fitter:- QRs. 88.00 per hour x 16 hours = QRs. 1,408.00.

Consumable:- QRs. 52.00.

7000	REPAIR OF NAVIGATION LIGHT :-	4,050.00
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Jobs identified with Navy Staff. Scaffolding erected for access on mast and later removed on completion.

All navigation LED light fixtures base bolts are loosen removed from the location. Completely inspected with navy staff and cleaned glass, light fittings by CRC and cotton rags. Checked all lights and installed as per original position. Base bolts and light fitting Allen key bolts are tightened.

Electrician:- QRs. 88.00 per hour x 45 hours = QRs. 3,960.00.

Consumable:- QRs. 90.00.

7001	REPAIR OF MIRROR LIGHT :-	
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Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012871/2021

DATE: 16/07/2021

EXPENSE A/C:

W/O NO: 21-011117 / 1

W/O REF: MDY21091

Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
	Job has been cancelled.	
7002	ENGINE ROOM VENTILATION FAN :-  Engine room FWD and AFT ventilation fan and filter checked and cleaned.  Fabricator:- QRs. 88.00 per hour x 4 Hours = QRs. 352.00.	352.00
7003	BRIDGE WINDOW WIPER MOTORS :-  Job identified. All wiper motor greasing done. Water line checked. Found some water line broken. Repaired all broken water tube and fixed well. Checked window wiper system. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 45 hours = QRs. 3,960.00. Consumable:- QRs. 90.00.	4,050.00
7004	RENEWAL OF CEILING LIGHT :-  Job has been cancelled.	
7005	REPAIR OF BILGES PUMP AND FLOATING SWITCHES :-  Job identified. Check all bilge pump and float switches. Found 2 bilge pump and 2 float switch damaged. replaced with new pumps and float switches using yard supplied pumps and float switch. All base Stainer cleaned. Function test carried out. found satisfactory.	7,584.00

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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Fax : 4771687



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W/O REF: MDY21091

Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
	Electrician:- QRs. 88.00 per hour x 53 Hours = QRs. 4,664.00. Materials/Consumables:- QRs. 2,920.00.	
7006	REPAIR OF ELECTRICAL COVERS :-  Job identified. All damaged electrical box cover repaired and closed properly.  Electrician:- QRs. 88.00 per hour x 48 Hours = QRs. 4,224.00. Consumables:- QRs. 117.00.	4,341.00
7007	RENEWAL OF TRANSOM LIGHTS AND NAVIGATION LIGHTS :-  Job identified with navy staff. Removed old light from the position and installed new lights. 1 Number light supplied by yard.  Electrician:- QRs. 88.00 per hour x 8 Hours = QRs. 704.00.	704.00
7008	MORSE CODE LIGHT :-  Job identified. Morse light removed from the position and cleaned. Painting completed and reinstalled in the same position. Testing completed. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 32 Hours = QRs. 2,816.00.	2,816.00
7009	MJP SENSORS :-  MJP Sensors only inspected.Charge included.	

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
7010	REPAIR OF MAIN ENGINE RAW WATER SENSOR :-  Job has been cancelled.	
7011	REPAIR OF ECHO SOUNDER AND EM LOG SENSOR :-  Job identified with navy staff. Echo sounder cleaned as per navy staff instruction. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 20 Hours = QRs. 1,760.00.	1,760.00
7012	HYDRALIC HOSES AFT TRANSOM AREA :-  Hydraulic hoses AFT transom protected with plastic spring tube hose 30mm diameter as per owner rep. instruction.  Electrician:- QRs. 88.00 per hour x 12 Hours = QRs. 1,056.00. Material:- 120.00.	1,176.00
7013	CLEANING OF EARTH PLATE :-  All Earth Plates cleaned, all bolts checked re-toughened and continuity test carried out.  Electrician:- QRs. 88.00 per hour x 15 Hours = QRs. 1,320.00. Material:- 120.00.	1,440.00
7014	SUPPLY AND INSTALLATION OF BATTERIES :-	20,480.00

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Job No	Description	Line Amount
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Job identified with navy staff. Disconnected all main engine batteries with marking. Installed new batteries and reconnected new batteries as per marking. Found satisfactory.  
8 Nos. 12V 200Ah batteries supplied by yard.

Electrician:- QRs. 88.00 per hour x 48 Hours = QRs. 4,224.00.  
Material:- 16,256.00.

7200	REPAIR OF AHU :-	3,046.00
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Job identified with navy staff. Cleaned all air handling unit including air filter using by air blower. Tested, found satisfactory.

Electrician:- QRs. 88.00 per hour x 32 Hours = QRs. 2,816.00.  
Consumable:- 230.00.

7201	REPAIR OF SHIP GALLEY REFRIGERATOR :-	2,652.00
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Job identified with navy staff. Refrigerator checked and found water drainage pipe line blocked. Dismantled all the accessories and cleaned by soap water. Then re assembled. Run test carried out. found satisfactory.

Electrician:- QRs. 88.00 per hour x 29 Hours = QRs. 2,552.00.  
Consumable:- 100.00.

7202	AC CHILLED WATER CONDENSERS :-	14,287.00
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AC Condensers, chiller and freezer inlet outlet connections disconnected. Temporary connection with pump connected system

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Job No	Description	Line Amount
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circulated for 24 hours using yard supplied barnacle buster. coolant Filled, Shutdown the system. Drained out existing chilled water - Antifreeze coolant from system line, system flushed with fresh water. After flushing, filled with antifreeze coolant as per owner rep. instruction. Coolant supplied by shipyard.

No:1, No:2 and No:3 compressors gas tested and filled. Gas supplied by shipyard.

No: 4 compressor copper pipe section line found gas leakage. pipe brazed, pressure tested vacuum tested and recharge new gas. Run tested carried out. found satisfactory.

Electrician:- QRs. 88.00 per hour x 137 Hours = QRs. 12,056.00.

Consumable:- 2,231.00.

7500	SUPPLY OF PAINT :-	41,676.00
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Following paint compositions supplied for hull, decks and and internal paint work and chain.

Hempadur 4550 primer - 30 Litres.

Intersleek 731 -35 Litres.

Intersleek 1100SR grey- 70 Litres.

Interthene - 20 Litres.

Sealer -20 Litres.

Trilux white Antifouling - 5 Litres.

Trilux black Antifouling - 20 Litres.

Hempel silvium - 5 Litres.

Enamel white - 100 Litres.

Thinner 808 - 30 Litres.

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Vessel Name/Description : NAVY FIBER GLASS BOAT "FATEH AL KHAIR Q-31" (Contract No. 2347/20)

Job No	Description	Line Amount
8000	POLISHING OF PROPELLERS :-  2 nos. propeller for jet water unit cleaned, washed and polished with cup wire brush at site.  Machinist:- QRs. 88.00 per hour x 25 hours = QRs. 2,200.00. Consumable:- QRs. 300.00.  Note:-  Payment as per contract.  Encl:-  Copy of Original work completion report.	2,500.00
Invoice Amount -->		524,554.00

(QAR - Five Hundred Twenty-Four Thousand Five Hundred Fifty-Four Only)

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