

QATAR NAVIGATION (QPSC)

SHIP REPAIR & 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

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO : SFWK-DMY-008426

DATE : 15/12/2021

W/O Number : 21-011287

W/O Ref : MDY21234

EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
	VESSEL ARRIVED : 02.11.2021 VESSEL DOCKED : 02.11.2021 VESSEL UNDOCKED : 09.12.2021 VESSEL SAILED : 09.12.2021	
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	DOCKING AND UNDOCKING:- Included in job no. 1100.	
1102	DRYBERTH HIRE:- Dryberth hired inside shed from 02.11.2021 to 09.12.2021. Charged for remaing period inside shed-36 days Based on standard schedule of rates, page no. 9 - QRs. 3,080.00 per day x 36 days = QRs. 110,880.00).	110,880.00
1103	FIRE AND SAFETY WATCH:- Fire and safety watch provided 02.11.2021 to 09.12.2021 - 38 days QRs 310 per day x 38 days = QRs 11,780.00	11,780.00

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	Based on standard schedule of rates, page no. 5.	
1104	<p>FIRE LINE:-</p> <p>Fire line 1 no provided - 38 days Connection and disconnection for 1 time.</p> <p>QRs 255 per day x 38 days = QRs 9,690.00 QRs 185 x 1 time = QRs 185.00</p> <p>Based on standard schedule of rates, page no. 7.</p>	9,875.00
1105	<p>GALLEY GARBAGE SKIP:-</p> <p>Galley garbage skip provided -38 days QRs 255 per day x 38 days = QRs 9,690.00</p> <p>Based on standard schedule of rates, page no. 5</p>	9,690.00
1106	<p>SHORE POWER SUPPLY:-</p> <p>Shore power line 1 no provided -38 days Connection and disconnection for 1 time.</p> <p>QRs 255 per day x 38 days = QRs 9,690.00 QRs 255 x 1 time = QRs 255.00</p> <p>Based on standard schedule of rates, page no. 6.</p>	9,945.00
1107	<p>SEA WATER LINE:-</p> <p>Sea water line 1 no provided - 38 days Connection and disconnection for 1 time.</p>	9,945.00

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QRs 255 per day x 38 days = QRs 9,690.00
 QRs 255 x 1 time = QRs 255.00

Based on standard schedule of rates, page no. 7.

1108	FRESH WATER SUPPLY:-	975.00
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Fresh water supplied - 15 Tons.
 QRs 65 per ton x 15 tons = QRs 975.00

Based on standard schedule of rates, page no. 7.

1150	SCAFFOLDING:-	59,800.00
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Scaffolding erected and removed on following area below:-

Main mast - size - 5m length X 4m width X 5m Height - 100m3 -
 QRs 25 per m3 x 100 m3 = QRs 2500.00
 Wheel house Fwd size - 4m length X 4m width X 6m Height - 96m3
 - QRs 30 per m3 x 96 m3 = QRs 2,880.00
 Engine room size - 3m length X 3m width X 3m height X 2 - 54m3
 - QRs 30 per m3 x 54 m3 = QRs 1,620.00
 Hull External Scaffolding size - 110m3 length X 2m width X 8m
 height - 1760m3 - QRs 30 per m3 x 1,760 m3 = QRs 52,800.00

Based on standard schedule of rates, page no. 9.

1151	RENEWAL OF SOFA SEAT AND MATTRESS COVERS:-	24,006.00
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Following items were renewed as per navy instruction by sub-contractor.

Sofa seat & back - 8 m2
 Chair seat and back - 6 nos
 Arm rest - 4 nos

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Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
	Pillow - 3 nos Blanket Pillow & bed seat - 21 nos Mattress 100 kg - 21 nos Mattress Cover - 21 nos QRs 20,875 x 15 % = QRs 24,006.00 Based on standard schedule of rates, page no. 24	
1152	SERVICES OF RIGGERS:- Riggers and yard crane to be provided to lowering 2 nos of life boat from top of boat and loaded on navy truck, in completion of repair the life boat to be collected from the navy truck and lifted with crane to top side in same position. Riggers - QRs 75 per hour x 6 hours = QRs 450.00 Crane 25 Ton : QRs 360 per hour x 2 Ton = QRs 720.00 Based on standard schedule of rates, page no. 24	1,170.00
1153	PEST CONTROL:- Pest Control carried out by subcontractor - 2 times.	920.00
1154	RENEWAL OF BED, COVERS, BLANKETS, PILLOWS:- Incl in Job no 1151	
1200	UNDERWATER AREA TREATMENT AND PAINTING:- Under water area cleaned washed , treated and painted use silicon international paints. Total area - 300 m2	17,000.00

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Job No	Description	Line Amount
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Hand scraping barnacles
 HP Jet washing
 Sanding damaged area (30%)
 Hose down with fresh water.
 Applied two t/up coat primer. Applied one t/up sealer (tie coat)
 Applied one t/up coat Silicon coat (Inter sleek 1100 SR Grey)
 Applied one full coat Silicon coat (Inter sleek 1100 SR Grey)
 Protection covering top side. QRs 48 per hours x 120 hours
 All paints and consumables supplied by yard.

Painter Normal Time : QRs 75 per hour x 123 hours = QRs 9,225.00
 Painter Normal Overtime : QRs 93.75 per hour x 12 hours = QRs 1,125.00
 Painter Holiday Overtime: QRs 112.5 per hour x 16 hours = QRs 1,800.00
 Consumables:- QRs 4850.00

1201	AFT WATER JET UNITS:-	5,393.00
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Water jet unit aft transom cleaned washed, sanding ,applied primer paint , tie coat and black antifouling. Following activities carried out.
 Hand scarping barnacles .
 HP Jet washing
 Full Sanding
 Hose down with fresh water
 Applied one coat primer
 Applied one coat sealer
 Applied two coats of antifouling black
 All paints and consumables supplied by yard.

Painter: QRs 75 per hour x 65 hours = QRs 4,875.00
 Consumables:- 518.00

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Job No	Description	Line Amount
1202	CLEANING OF EVAC SYSTEM DRAINAGE UNITS:- 05 nos. Grey water vacuum evac system collection tank opened, cleaned and refitted. Cleaner : QRs 48 per hour x 55 hours = QRs 2,640.00 Consumables: QRs 260.00	2,900.00
1203	CLEANING AND PAINTING OF CHAIN LOCKER:- Anchor chain locker compartment cleaned and painted. Sanding and cleaning with thinner done. Applied one full coat white . (Paint Supply By yard included in Job No. 7500). As per standard schedule of rates, page no. 12.	2,575.00
1204	CLEANING AND PAINTING OF FWD. AND AFT UPPER DECK AND SUPER STRUCTURE DECK:- FWD and AFT upper deck and super structure deck cleaned and painted as per navy instruction. HP Jet washing with fresh water. Sanding and Polishing using 3m rubbing compound. Sanding and Polishing using 3m finishing compound . Yard supplied 3m polishing materials Painter Normal Time : QRs 75 per hour x 117 hours = QRs 8,775.00 Painter Normal Overtime : QRs 93.75 per hour x 97 hours = QRs 9,093.75 Painter Holiday Overtime: QRs 112.5 per hour x 20 hours = QRs 2,250.0 Consumables:- 491.00	20,610.00

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Job No	Description	Line Amount
1205	CLEANING OF SHIP SIDE PORT AND STBD. SIDE FWD. AND AFT AREA:- Job cancelled.	
1206	CLEANING AND PAINTING OF A/C COMPRESSOR BASE AND BOTTOM TRAY:- A/C compressor base and bottom tray cleaned and painted as per navy instruction. Sanding and cleaned with thinner. Applied one full coat of white. Painter Normal Time : QRs 75 per hour x 15 hours = QRs 1,125.00 Painter Normal Overtime : QRs 93.75 per hour x 13 hours = QRs 1,218.75 Painter Holiday Overtime: QRs 112.5 per hour x 2 hours = QRs 225.00 Consumables:- 129.00	2,698.00
1207	CLEANING AND PAINTING OF ALL BATHROOM:- All bath room cleaned and painted as per navy instruction. Sanding and cleaned with thinner. Applied one full coat of white. Painter Normal Time : QRs 75 per hour x 80 hours = QRs 6,000.00 Painter Normal Overtime : QRs 93.75 per hour x 20 hours = QRs 1,875.00 Painter Holiday Overtime: QRs 112.5 per hour x 27 hours = QRs 3037.5 Consumables:- 129.00	11,042.00
1208	GRP PAINTING ABOVE WATER LINE:-	102,970.00

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Hp jet washing with fresh water.
 Protection covering of full boat using tarpaulin cover.
 Full Sanding carried out on the boat.
 Hp Jet washing first time with fresh water.
 Full cleaned with acetone .
 Applied 1st full coat primer (Hempel's light primer- 45550-12170)
 Filler Application all damaged area.
 Full sanding with sanding disc.
 HP Jet washing second time.
 Full cleaned with acetone.
 Applied 2nd full coat primer (Hempel's light primer- 45550-12170)
 Filler Application all damaged area
 Full sanding with sanding disc
 HP Jet washing third time.
 Full cleaned with acetone
 Applied 1st full final top coat (Hemptthane enamel top coat 55210 Q - 11480 Grey)
 Full sanding with sanding disc
 HP Jet washing .
 Full cleaned with acetone.
 Applied 2nd full final top coat (Hemptthane enamel top coat 55210 Q - 11480 Grey)
 Each coat changed re Protection covering full boats.
 Ship Name and number repaired with paint.
 All 3m protection materials and paints, thinner supplied by yard.
 Painter Normal Time : QRs 75 per hour x 780 hours = QRs 58,500.00
 Painter Normal Overtime : QRs 93.75 per hour x 218 hours = QRs 20,437.5
 Painter Holiday Overtime: QRs 112.5 per hour x 58 hours = QRs 6,525.00
 Consumables:- QRS 17,507.00.

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Job No	Description	Line Amount
1209	<p>CLEANING AND PAINTING OF SUPER STRUCTURE AREA:-</p> <p>Supper structure cleaned and polished, Using 3m rubbing compound and finishing compound . Yard supplied materials</p> <p>Painter Normal Time : QRs 75 per hour x 40 hours = QRs 3000.00 Painter Normal Overtime : QRs 93.75 per hour x 14 hours = QRs 1,312.5 Painter Holiday Overtime: QRs 112.5 per hour x 24 hours = QRs 2,700.00 Consumables:- QRS 535.00.</p>	7,548.00
1210	<p>CLEANING AND PAINTING OF MAIN DECK:-</p> <p>Main deck to be cleaned,washed and painted as per navy instruction.</p> <p>Painter Normal Time : QRs 75 per hour x 32 hours = QRs 2,400.00 Consumables:- QRS 200.00</p>	2,600.00
1250	<p>BILGE CLEANING AND PAINTING OF BILGES:-</p> <p>Engine rooms bilges Provision store bilges, tank room bilges, AFT tank bilges cleaned and painted as per navy information.Pump remaining oily water Full Cleaned with cotton rags and thinner Applied one full coat white.</p> <p>Painter Normal Time : QRs 75 per hour x 135 hours = QRs 10,125.00 Painter Normal Overtime : QRs 93.75 per hour x 10 hours = QRs 937.5 Consumables:- QRS 300.00.</p>	11,363.00

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Job No	Description	Line Amount
1350	ANCHOR AND CHAIN:- Anchor and anchor chain lowered, cleaned treated and painted, necessary blasted. Anchor and Chain garnet blasting done. Applied one coat primer. Applied one top coat (Aluminum and Black for the Anchor) Chain shackle White, red, Yellow marked . All paints supplied by yard. Based on standard schedule of rates, page no 11.	3,300.00
1400	RENEWAL OF HYDRAULIC HOSES FOR MJP WATER JET UNIT:- All hydraulic hoses for water jet be inspected. Man power supplied to Navy arranged service technicians as per Navy instructions. Mechanic Normal Time : QRs 88 per hour x 82 hours = QRs 7,216.00	7,216.00
1401	OVERHAULING OF SEA SUCTION MAIN ENGINE VALVES:- Main Engine sea suction Butterfly valve DN125-4nos removed from location, brought to workshop. 1no butterfly valve found damaged. Yard supplied 1no new butterfly valve. 3nos valves discs found jam . Valve discs dismantled. Buffing cleaning done and applied grease to free up. Carry out pressure test 3Bar 3no butterfly valves-4no. Witnessed by Client and Yard QC. Certificate issued to client. Valves are shifted to On-board fitted back on position. As per client instruction 2Bar pressure test carried out in position through strainer cover. Witnessed by Client. Additional: Job:1- DE (port and Stbd) sea suction butterfly valve 2 -1/2" gear type-2nos removed from location, brought to workshop, cleaned and applied new grease supplied by yard. Carry out pressure testing 3Bar. Witnessed by Yard QC and Client. Certificate issued to client. DG suction line brass	6,314.00

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ball valve 1-1/4"-2nos, removed from location brought to workshop . Chemical cleaning ,buffing done. Carry out 3 bar pressure test. Report submitted to client. Valves shifted to on-board and fitted back in position.

Additional Job:2 Fire pump sea suction 2-1/2" butterfly valve (port and Stbd)-2nos removed from location and brought to workshop. Cleaned and free up done. Gravity test done. No leaks found. Witnessed by Yard QC and Client. Valve sent to on board and fitted back on position. Witnessed by Client.

Additional job:-3 Oil water separator sea suction 1-1/4" Brass ball valve-1no removed from location, brought to workshop. Chemical cleaning and buffing done. Gravity test carried out, no leaks found. Witnessed by client and Yard QC. Valve fitted back on position. Witnessed by client.

Additional job:-4 Cool room sea suction 1-1/4" brass ball valve -1no removed from location, brought to workshop. Chemical cleaning and buffing done. Gravity test carried out, no leaks found. Witnessed by client and Yard QC. Valve refitted in position. Witnessed by client. Additional job:-5 Water maker sea suction brass ball valve 3/4"-1no. Brought to workshop[. Chemical cleaning and buffing done. Carry out pressure test 8bar. No leaks found. Report submitted to client. Valve fitted back in position.

Mechanic Normal Time : QRs 88 per hour x 60 hours = QRs 5,280.00

Mechanic Normal Overtime : QRs 110 per hour x 6 hours = QRs 660.00

Consumables: QRs 374.00

1402	SEA WATER SUCTION FILTERS:- Main engine (port and stbd) sea suction strainer filter 8"-2no, DG suction filters (port and Stbd) 3" -2nos, Fire pump suction filters (port and stbd) 3"-2no, AC suction strainer filters 3"-1no, Sewage line suction filter 3"-1no, Cool room suction filter 2"-1no, Water maker suction filter 2"-1 no removed from location brought to workshop. Chemical cleaning done. Inspected	6,094.00
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by Client. Shifted to vessel and fitted back on position with yard supplied new O-rings. Witnessed by client. All the strainer covers 10nos brought to workshop. Buffing ,cleaning done. 6nos of purging 1/4" ball valves cleaned free up. Witnessed by client. All strainers shifted to location and fitted back on position.

Mechanic Normal Time : QRs 88 per hour x 40 hours = QRs 3,520.00

Mechanic Normal Overtime : QRs 110 per hour x 20 hours = QRs 2200.00

Consumables: QRs 374.00

1403	OVERHAULING OF AIR CONDITIONING SEA WATER CHEST VALVE:-	2,009.00
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Air conditioning sea water sea chest valves to be inspected operated overhauled, if damaged necessary to be renewed. Main AC sea suction Brass ball valve 2"-4os. Removed from location and brought to workshop. Chemical cleaning and buffing done. Before strainer and after strainer ball valves 2" -2nos done pressure test 3bar. Witnessed by yard QC and Client. Valves shifted to on-board and fitted back on position.

Mechanic Normal Time : QRs 88 per hour x 18 hours = QRs 1,584.00

Mechanic Normal Overtime : QRs 110 per hour x 2 hours = QRs 220.00

Consumables: QRs 205.00

1404	OVERHAULING OF AIR CONDITION SEA WATER PUMP SUCTION AND DISCHARGE VALVE:-	5,452.00
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AC sea water suction pump No:1 and 2 removed from location and handed over to client. Navy supplied new pumps-2nos refitted on position. Witnessed by client. Discharge valve 1 1/2" Ball valve -2nos checked in position. Found satisfactory.

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RENEWAL OF UNION FITTINGS 5 NOS:-

2" brass union-5nos removed from AC suction line location,
fittings 2"-5nos found damaged. 2" fitting -5no yard
fabricated and modified the pipe to fit the union.

Mechanic Normal Time : QRs 88 per hour x 54 hours = QRs

4,572.00

Mechanic Normal Overtime : QRs 110 per hour x 6 hours = QRs

660.00

Consumables: QRs 220.00

1405 RENEWAL OF LOW PRESSURE GAUGES:-

1,858.00

Fire line (port and Stbd) suction and discharge pressure gauges
(10Bar)-6nos removed from location. Found damaged. Yard
supplied new pressure gauges (10Bar)- 6 nos. Installed in
position.

Mechanic Normal Time : QRs 88 per hour x 16 hours = QRs

1,408.00

Consumables: QRs 450.00

1406 SEA GRIDS:-

3,410.00

Sea grid -1no was removed for cleaning painting. Later refitted
on position with yard supplied white silicon.

Sea grid anodes-4nos found damaged.

Yard supplied new anodes-4nos, damaged SS bolts renewed, fitted
back on position & witnessed by client.

Mechanic Normal Time : QRs 88 per hour x 20 hours = QRs

1,760.00

Painter Normal Time : QRs 75 per hour x 10 hours = QRs 750.00

Materials: QRs 900.00

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INVOICE NO : SFWK-DMY-008426

DATE : 15/12/2021

W/O Number : 21-011287

W/O Ref : MDY21234

EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
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1407 DE PORT AND STBD. SEA SUCTION BUTTERFLY VALVE:-

Job included in 1401

1408 FIRE PUMP BUTTERFLY VALVE:-

Job included in 1401

1409 OIL WATER SEPARATOR SEA SUCTION BRASS VALVE:-

Job included in 1401

1410 OIL WATER SEPARATOR SEA SUCTION BRASS VALVE:-

Job included in 1401.

1411 COOL ROOM SEA SUCTION BRASS BALL VALVE:-

]

Job included in 1401

1800 REPAIR OF GALLEY EXHAUST STRAINER:-

2,019.00

Galley exhaust strainer disconnected and shifted to workshop. Stainless steel filter removed and new filter installed. Refitted the strainer with frame in position. Filter mesh size - Yard supplied stainless steel mesh 500mm X 500mm. - 01 nos.

Fabricator/welder Normal Time : QRs 88 per hour x 18 hours = QRs 1,584.00

Fabricator/welder Normal Over Time : QRs 110 per hour x 2 hours = QRs 220.00

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
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Materials: QRs 215.00.

1801	REPAIR OF AFT DECK SKY HATCH:-	3,884.00
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Main deck AFT Escape hatch disconnected removed shifted to work shop dismantled damaged area cut and renewed. Size - M.S. Plate - 280mm X 160mm X 10 mm thick. Fitted and welded. Pad eye - 150mm X 70mm X 10mm thick. - 02 nos. , 70mm X 70mm X 10mm fitted and welded. SS round bar fabricated and fitted. - 25mm dia. X 310mm long. - 01 nos. Hatch with base cleaned, painted and refitted in vessel. Additional - 05 nos eye pad to be renewed. Clean the area. Base plate 300 x 220 mm MS to replace if required, SS round bar 25mm x 350 to be renewed.

Fabricator/welder Normal Time : QRs 88 per hour x 38 hours = QRs 3,344.00

Fabricator/welder Normal Over Time : QRs 110 per hour x 4 hours = QRs 440.00

Materials: QRs 100.00

18011	REPAIR OF AFT DECK SKY HATCH -1 NO:-	
-------	--------------------------------------	--

Included in job no. 1101.

1802	RENEWAL OF BATHROOM RUBBER:-	2,174.00
------	------------------------------	----------

All existing silicon sealing of bath room removed, new rubber supplied and installed. Rubber size - 20mm X 20mm rubber beading -08 mtr.

Fabricator/welder Normal Time : QRs 88 per hour x 8 hours = QRs 704.00

Fabricator/welder Normal Over Time : QRs 110 per hour x 2 hours = QRs 220.00

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W/O Number : 21-011287

W/O Ref : MDY21234

EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
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Materials: QRs 1,250.00

1803	CLEANING OF ENGINE ROOM VENTILATION FILTERS:-	12,668.00
------	---	-----------

All engine room ventilation filters opened and renewed. Yard supplied air filter renewed size - 1000mm X 600mm - 08 nos. Existing air filter cleaned and refitted -06 nos. Scaffolding arranged and after removed.

Fabricator/welder Normal Time : QRs 88 per hour x 116 hours = QRs 10,208.00

Fabricator/welder Normal Over Time : QRs 110 per hour x 16 hours = QRs 1,760.00

Consumables: QRs 50.00, Material: QRs 650.00

1804	REPAIR OF HAND RAIL WIRES AND STANCHAINS:-	16,817.00
------	--	-----------

All hand rail wires inspected repaired, Foundation bolt renewed. M 10 X 25mm long X 01 nos. Yard supplied hand rail wire renewed - 110. mtrs. Existing wire connectors fitted with new hand rail wires. Yard supplied new stainless steel turn buckle (01 nos) fitted with wire, in one locations.

Fabricator/welder Normal Time : QRs 88 per hour x 169 hours = QRs 14,872.00

Fabricator/welder Normal Over Time : QRs 110 per hour x 10 hours = QRs 1,100.00

Consumables: QRs 45.00, Material: QRs 800.00

1805	POLISHING OF BOW AREA ANCHOR SEAT:-	2,685.00
------	-------------------------------------	----------

Anchor seating area cleaned and polished approx 1200mm x 1200mm. Scaffolding arranged for access and later removed. 1.5 Mtr x 3Mtr x 2.5 Mtr -01 nos, Offer to client and found

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
--------	-------------	-------------

satisfactory.

Fabricator/welder Normal Time : QRs 88 per hour x 25 hours =

QRs 2200.00

Fabricator/welder Normal Over Time : QRs 110 per hour x 4

hours = QRs 440.00

Consumables: QRs 45.00

1806	ACCOMODATION DOOR REPAIR:-	3,507.00
------	----------------------------	----------

Removed accommodation door 1 no to workshop, inspect, repair and rectify the locking mechanism, damaged chain and lock renewed. Fit back on completion of repairs.

Fabricator/welder Normal Time : QRs 88 per hour x 34 hours =

QRs 2,992.00

Fabricator/welder Normal Over Time : QRs 110 per hour x 4

hours = QRs 440.00

Consumables: QRs 75.00

1807	REPAIR OF ROPE BITS AND CLEATS:-	5,304.00
------	----------------------------------	----------

PORT and STBD side , rope Bits and cleats on main Deck damaged same opened and repaired in 03 locations. Teflon rollers damaged same manufactured and renewed - 04 nos., Stainless steel damaged bolts renewed - 02 nos. S.S. Half threaded bolt M 19 X 85mm. - 01 nos. S.S. Half threaded bolt M 19 X 100 mm. - 01 nos. All damaged brackets repaired.

Fabricator/welder Normal Time : QRs 88 per hour x 48 hours =

QRs 4,224.00

Fabricator/welder Normal Over Time : QRs 110 per hour x 8

hours = QRs 880.00

Consumable: QRs 200.00

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
1808	FABRICATION OF DOOR LOCK:- One no door lock brokened and removed,fabricated as per sample and refitted. Fabricator/welder Normal Time : QRs 88 per hour x 12 hours = QRs 1056.00 Material : QRs 75.00, Material: QRs 150.00	1,281.00
2200	REPAIR OF TOILET SEAT COVERS:- All toilet seat cover, inspected and repaired. Changed new one supplied by Navy staff. Carpenter Normal Time : QRs 88 per hour x 8 hours = QRs 704.00 Carpenter Normal Over Time : QRs 110 per hour x 2 hours = QRs 220.00 Materials: - 3,121.00	4,045.00
2201	REPAIR OD BRIDGE PORT SIDE WINDOW:- Close bridge PORT side window glass leakage water repaired, hook inspected. Old Sika flex removed, sanding, cleaning. Protection covering. Applied yard supplied Sika flex. Carpenter Normal Time : QRs 88 per hour x 16 hours = QRs 1,408.00 Consumable:QRs 200.00	1,608.00
2202	APPLY SIKAFLEX IN DAMAGED AREA:- Damaged sika flex from top and down of the rubber fender around of boat, repaired and use new black silicon sika flex	2,603.00

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
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before final coat painting.
 Removed old sika flex.
 Clean and Applied new Sika Flex (yard Supplied)
 12 nos used yard supplied sika flex.

Carpenter Normal Time : QRs 88 per hour x 16 hours = QRs
 704.00
 Carpenter Normal Over Time : QRs 110 per hour x 6 hours = QRs
 220.00
 Consumable: - 1,679.00

2203	SUPPLY OF TV AND SOUND SYSTEM:-	3,500.00
------	---------------------------------	----------

Sony 43" TV 1 no and sound bar system supplied.

2250	REPAIR OF FIBER GLASS AREA:-	2,291.00
------	------------------------------	----------

Damaged fiber glass area repaired. Sanding & Cleaning done.
 Applied 2layer of GRP Lamination Sanding & Applied Filler.
 Sanding and cleaning done .Applied primer and top coat.

Painter Normal Time : QRs 75 per hour x 24 hours = QRs
 1,800.00
 Consumables:- 491.00

2251	REPAIR OF FIBER GLASS COVER:-	2,850.00
------	-------------------------------	----------

PORT and STBD side main engine fiber cover inspected, damaged
 area repaired.
 Sanding and Cleaning carried out.
 Applied 2layer of GRP Lamination Sanding.
 Applied Filler, Sanding & Cleaning. Applied primer and top
 coat.

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
	Painter Normal Time : QRs 75 per hour x 30 hours = QRs 2,250.00 Consumables:- QRs 600.00	
2252	REPAIR OF FIBER GLASS ON FLY BRIDGE:- Fiber glass damage on Flybridge to be repaired, 4 locations. Painter Normal Time : QRs 75 per hour x 40 hours = QRs 3000.00 Consumables:- QRs 600.00	3,600.00
2253	REPAIR OF FIBER GLASS A/C DRAIN WATER BILGE TANK:- A/C drain water bilge tank repaired by fiberglass and I no. adaptor fabricated, connected. Painter Normal Time : QRs 75 per hour x 20 hours = QRs 1,500.00 Consumables:- QRs 100.00	1,600.00
2400	CLEANING OF FRESH WATER TANK:- Fresh water tank manholes opened and tanks cleaned , necessary gasket renewed as per navy instruction. Pump out remaining water. Full cleaned with cotton rags. Cleaners Normal Time : QRs 48 per hour x 60 hours = QRs 2,880.00 Consumables:- QRs 100.00	2,980.00
2401	CLEANING OF SEWAGE AND SLUDGE TANK AND DIRTY OIL TANK:- Sewage tank and sludge tanks and dirty oil tank manholes opened , tanks cleaned and necessary gasket for manholes renewed. 3 nos tanks pump out remaining residue and washing with	6,565.00

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
--------	-------------	-------------

fresh water & Full area cleaned with cotton rags .

Cleaners Normal Time : QRs 48 per hour x 130 hours = QRs

6,240.00

Consumables:- QRs 325.00

2402	CLEANING OF FUEL OIL TANK:-	4,030.00
------	-----------------------------	----------

All fuel oil tanks opened the manholes and tanks cleaned, navy staff shift the diesel, necessary gaskets of manholes fabricated and renewed. 4 nos fuel oil tank remaining diesel pump out. Full cleaned with cotton rags .

Cleaners Normal Time : QRs 48 per hour x 80 hours = QRs

3,840.00

Consumables:- QRs 190.00

2500	ZINC ANODE RENEWAL:-	5,180.00
------	----------------------	----------

total 28 nos damaged zinc anodes removed, moulded, machined and refit to vessel. details as below.

1. sea chest zinc = 04 nos.

2. trim tab zinc = 02 nos.

3. exhaust flap zinc = 02 nos.

4. water jet zinc 10.5 kgs = 08 nos.

5. water jet zinc spare shape OD 140mm zinc = 12 nos

Erected staging before start the job and removed after completion of the job.

QRs 185 per anode x 28 nos = QRs 5180.00

Based on standard schedule of rates, page no 12

2501	CLEANING AND POLISHING OF SS TAIL SHAFT:-	1,080.00
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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
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PORT and STBD side SS tail shaft cleaned and polished by using steel wire brush at site. Erected staging before start the job and removed after completion of the job.
 Mechanic Normal Time : QRs 88 per hour x 10 hours = QRs 880.00
 Consumables:- QRs 200.00

2502	MANUFACTURE OF SS ADAPTOR:-	176.00
------	-----------------------------	--------

01 nos damaged piston rod OD filed and polished. 01 nos damaged piston ID machined and polished as per client instruction.
 Mechanic Normal Time : QRs 88 per hour x 2 hours = QRs 176.00

2503	Included in job no 1808.	
------	--------------------------	--

5050	OVERHAULING OF MAIN ENGINE SEA WATER COOLER AND GEAR BOX COOLER:-	6,510.00
------	---	----------

Both main engine gear box oil coolers (port and Stbd)-2nos and MJP water jet Oil cooler(port and stbd)-2nos removed from location and brought to workshop. Dismantled, chemical cleaning and buffing done. Inspected by Yard QC. Coolers assembled with yard supplied new O-rings. Carry out pressure test 3bar for all the 4no of coolers. No leaks found witnessed by Yard QC. Report submitted to client. Coolers shifted to on board and fitted in position. Witnessed by client.

Mechanic Normal Time : QRs 88 per hour x 65 hours = QRs 5,720.00
 Mechanic Normal Over Time : QRs 110 per hour x 4 hours = QRs 440.00
 Material: QRs 350.00

5600	OVERHAULING OF WATER MAKER FEED PUMP:-	4,798.00
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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
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Water maker feed pump electrical cables removed. Pump foundation bolts removed. Pump together with electric motor removed and brought to workshop. pump separated from motor. Pump dismantled and buffing cleaning done. Inspected by Yard QC. Pump assembled with yard supplied new mechanical seal - 1set. Leak test done. No leaks found. Witnessed by yard QC. Pump motor assembly shifted to vessel. Installed in position. Witnessed by Client. Electrical motor dismantled, chemical cleaned and new varnish applied. Yard supplied Motor bearings- 2no installed. Motor end cover checked. Found Ok. Inspection done by yard QC. Motor assembled and installed back on position. Witnessed by client.

Mechanic Normal Time : QRs 88 per hour x 36 hours = QRs

3,168.00

Mechanic Normal Over Time : QRs 110 per hour x 12 hours = QRs

1,320.00

Material: QRs 310.00

6000	CLEANING OF MAIN FRIDGE SEA WATER PIPE LINE:-	3,704.00
------	---	----------

Main fridge sea water pipe line and condensers comically cleaned and flushed. Barnacle buster - 02 gallon Hose clip. 25 - 35. - 08 nos. Hose clip. 35 - 50. - 08 nos. OFFERED TO CLIENT AND FOUND SATISFACTORY.

Pipe Fitter Normal Time : QRs 88 per hour x 30.5 hours = QRs

2,684.00

Pipe Fitter Normal Over Time : QRs 110 per hour x 2 hours =

QRs 220.00

Material: QRs 800.00

6001	CLEANING OF TOILET VACCUM EVAC SYSTEM OZZLE AND FLAP:-	3,652.00
------	--	----------

Toilet vacuum EVAC system nozzle and flap inspected and

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
	renewed.Owner supplied new nozzle installed. Pipe Fitter Normal Time : QRs 88 per hour x 34 hours = QRs 2,992.00 Pipe Fitter Normal Over Time : QRs 110 per hour x 6 hours = QRs 660.00	
6002	CLEANING OF AIR CONDITION SEA WATER LINE IN CONDENSER:- Air condition sea water line in condenser chemically cleaned and flushed.Barnacle buster - 02 gallon.Jubilee clamp 35 - 50 - 08 nos.Jubilee clamp, 25 - 35 . -08 nos. Pipe Fitter Normal Time : QRs 88 per hour x 24 hours = QRs 2,112.00 Pipe Fitter Normal Over Time : QRs 110 per hour x 12 hours = QRs 1,320.00 Material : QRs 750.00	4,182.00
6003	REPAIR OF TOILET FITTINGS, SHATTAF, TAPS AND BOWELS:- All toilets fitting, shattef, taps and bowels inspected repaired, necessary renewed.Shattef - 04 nos.Telephone shower- 01 nos.W.C. 01 nos. Pipe Fitter Normal Time : QRs 88 per hour x 18 hours = QRs 1,584.00 Pipe Fitter Normal Over Time : QRs 110 per hour x 2 hours = QRs 220.00 Material: -QRs 250.00	2,054.00
6004	RO PLANT SEA SUCTION PIPE LINE:- RO plant sea suction pipe line connected with emergency fire	4,181.00

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Job No	Description	Line Amount
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line using two valves in the way of modification. Copper nickel pipe, 1 1/2" dia. X 2500mm long, disconnected, shifted to workshop Modified the pipe line by providing one S.S. branch pipe (Bye pass line) Bye pass line size - Fabricated and installed bye pass line - 1" stainless steel pipe, 1500mm long, 02 nos bend. 1" dia. copper pipe, disconnected and shifted to work shop for modification. One branch pipe, 01" dia. adaptor 02 nos, (made in machine shop) 1" ball valve - 02 nos., 02 nos. union stainless steel one side threaded pipe - 100mm long - 04 nos.

Pipe Fitter Normal Time : QRs 88 per hour x 32 hours = QRs 2,816.00

Pipe Fitter Normal Over Time : QRs 110 per hour x 4 hours = QRs 440.00

Material: -QRs 925.00

6005	REPAIR OF A/C OUTLET PVC PIPE:-	1,034.00
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A/ C, outlet PVC pipe leakage water inspected and repaired. Pipe disconnected and shifted to workshop. and provided one 32mm pvc socket and refitted in vessel.

Pipe Fitter Normal Time : QRs 88 per hour x 8 hours = QRs 704.00

Pipe Fitter Normal Over Time : QRs 110 per hour x 3 hours = QRs 330.00

7000	CLEANING OF UNDER WATER AREA EARTHING PLATES:-	2,288.00
------	--	----------

Under water area earthing plates inspected and cleaned.

Electrician Normal Time : QRs 88 per hour x 16 hours = QRs 1,408.00

Electrician Normal Over Time : QRs 110 per hour x 8 hours =

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
	QRs 880	
7001	REPAIR OF GALLEY ELECTRICAL OVEN:- Galley electrical oven inspected and repaired as per navy instruction. Material and element supplied by Navy staff. Electrician Normal Time : QRs 88 per hour x 24 hours = QRs 2,112.00 Electrician Normal Over Time : QRs 110 per hour x 10 hours = QRs 1,100.00	3,212.00
7002	OVERHAULING OF FWD. AND AFT E/R VENTILATION FAN:- FWD and AFT engine room ventilation fan to be cleaned inspected, necessary to be opened overhauled, necessary scaffolding to be arranged in engine room. Electrician Normal Time : QRs 88 per hour x 64 hours = QRs 5,632.00 Electrician Normal Over Time : QRs 110 per hour x 14 hours = QRs 1,540.00 Consumables: QRs 700.00	7,872.00
7003	SERVICING OF WIPERS MOTOR:- All wipers motors checked and services carried out, fresh water hose line damaged renewed with good quality materials hose. Electrician Normal Time : QRs 88 per hour x 32 hours = QRs 2,816.00 Electrician Normal Over Time : QRs 110 per hour x 4 hours = QRs 440.00 Consumables: QRs 225.00	3,481.00

QATAR NAVIGATION (QPSC)

SHIP REPAIR & 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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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO : SFWK-DMY-008426

DATE : 15/12/2021

W/O Number : 21-011287

W/O Ref : MDY21234

EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
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7004	REPAIR OF NAVIGATION LIGHTS:-	3,608.00
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All navigation lights to be inspected and serviced.

Electrician Normal Time : QRs 88 per hour x 36 hours = QRs

3,168.00

Electrician Normal Over Time : QRs 110 per hour x 4 hours =

QRs 440.00

7005	OVERHAULING OF FUEL PURIFIER ELECTRICAL MOTORS:-	3,544.00
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Both fuel purifier electrical motors disconnected ,removed

shifted to work shop and overhauled.

Electrician Normal Time : QRs 88 per hour x 38 hours = QRs

3,344.00

Consumable: QRs 200.00

7006	RENEWAL OF OFFICERS MESS TV:-	
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Incl in 2203

7007	REPAIR OF 24 VOLT BILGES PUMP WITH FLOAT AUTOMATIC SWITCHES:-	3,272.00
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All 24 volt bilges pump, with float automatic switches

checked, repaired, necessary renewed as per navy instruction.

Electrician Normal Time : QRs 88 per hour x 19 hours = QRs

1,672.00

Electrician Normal Over Time : QRs 110 per hour x 2 hours =

QRs 220.00

Material :QRs 1,380.00

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Doha - Qatar DOHA QA 37

INVOICE NO : SFWK-DMY-008426

DATE : 15/12/2021

W/O Number : 21-011287

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
7008	RENEWAL OF HOT GALLEY PLATE:- Incl in 7001	
7200	REPAIR OF FRESH AIR HANDLING UNIT:- All fresh air handling units inspected, abnormal noise repaired ,cleaned and serviced as per navy instruction. Electrician Normal Time : QRs 88 per hour x 60 hours = QRs 5,280.00 Electrician Normal Over Time : QRs 110 per hour x 6 hours = QRs 660.00 Consumable: QRs 50.00	5,990.00
7201	REFILLING OF COOLANT:- Air condition shield water drained and new coolant water to be supplied and as per navy instruction. Electrician Normal Time : QRs 88 per hour x 64 hours = QRs 5,632.00 Electrician Normal Over Time : QRs 110 per hour x 12 hours = QRs 1,320.00 Consumables: QRs 559.00	7,511.00
7500	SUPPLY OF MATERIALS:- Materials supplied: Emergency generator oil filter 3 nos. Caterpillar engine C 4. 4 serial no. JIZ- 104429 , oil filter part no. 081- 4661, 8 nos. Fire pipe line accessory items as per navy boat crew instruction.	2,956.00

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DATE : 15/12/2021

W/O Number : 21-011287

W/O Ref : MDY21234

EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No	Description	Line Amount
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7501	SUPPLY OF PAINTS:-	31,602.00
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All paints and consumables supplied by yard.

HEMPEL LIGHT PRIMER LIGHT GREY 45550-12170 - 360 Litres

HEMPEL HEMPATANE ENAMEL TOP COAT GREY 5510Q-89920-11480 - 180 Litres

HEMPEL THINNER 20LTR 08450- 6 Cans

HEMPELS THINNER 20LTR 08080 - 5 Cans

HEMPATEX ENAMEL 20LTR WHITE 56360-10000 - 5 Cans

HEMPEL HEMPALIN ENAMEL WHITE 52140-10000 - 120 Litres

HEMPEL THINNER 20LTR 08450 - 5 Cans

HEMPELS THINNER 20LTR 08080 - 6 cans

HEMPEL HEMPATANE TOPCOAT 55210 5 LTR GREY RAL 9003-17630 - 12 cans

8000	CLEANING AND POLISHING WATER JET PROPELLER:-	2,940.00
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Water jet propellers cleaned and polished by using steel cup wire brush at site.

Erected staging before start the job and removed after completion of the job.

Machinist:- QRs. 88.00 per hour x 30 hours = QRs. 2,640.00

Consumable:- QRs. 300.00.

Encls:-

Copy of signed work completed report.

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Doha - Qatar DOHA QA 37

INVOICE NO : SFWK-DMY-008426

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EXPENSE A/C :

Vessel Name/Description: NAVY FIBER GLASS BOAT "Q-32" (Contract No 2347/20)

Job No

Description

Line Amount

Invoice Amount -->

681,446.00

(QAR - Six Hundred Eighty-One Thousand Four Hundred Forty-Six Only)

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION & ENGINEERING DIVISION

E & O.E