

## QATAR NAVIGATION (QPSC)

## SHIP REPAIR &amp; FABRICATION

## Telephones

Office : 4771690 / 4771695

Fax : 4771687



Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBAQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

## INVOICE

Page: 1 / 44

100517

QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012960/2021

DATE: 29/09/2021

EXPENSE A/C:

W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	VESSEL ARRIVED : 06-06-2021. VESSEL DOCKED : 06-06-2021. VESSEL UNDOCKED : 04-08-2021. VESSEL SAILED : 04-08-2021.	
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.	12,460.00
1101	DRY DOCK HIRE :-  Dock hire for remaining period (58 days). Based on standard schedule of rates, page No. 9.  (QRs. 2,060.00 per day x 58 days = QRs. 119,480.00)	119,480.00
1102	SERVICES :-  A) Fire and safety watch provided during period of drydocking. Based on standard schedule of rates, page No. 5 QRs. 310.00 per day x 60 days = QRs. 18,600.00).  B) Fire line maintained under pressure during period of drydocking (charged for 60 days only), including connection and disconnection. Based on standard schedule of rates, page No. 7. (QRs. 185.00 per day x 60 days + QRs. 255.00 = QRs. 11,355.00).	120,123.00

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Page: 2 / 44

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C) Galley garbage skip provided and garbage disposed during period of drydocking.

Based on standard schedule of rates, page No. 5

(QRs. 255.00 per day x 60 days = QRs. 15,300.00)

D) Electrical shore power supply (440 volts, 3 phase, 60 Hz.) provided during period of drydocking, including connecting and disconnecting.

Based on standard schedule of rates, page No. 6

(QRs. 875.00 per day x 60 days + QRs. 875.00 = QRs. 52,500.00)

E) Cooling water line maintained under pressure during period of drydocking and alongside, including connecting and disconnecting.

Based on standard schedule of rates, page No. 7

(QRs. 255.00 per day x 60 days + QRs. 255.00 = QRs. 15,555.00).

F) 52.2 tons fresh water supplied to boat as per enclosed signed

delivery receipt. Based on standard schedule of rates, page No. 7

(Based on standard schedule of rates, page No. 8 (QRs. 65.00 per ton x 52.2 tons = QRs. 3,393.00).)

G) 9 in Nos. overboard discharge connections provided and later removed prior to undocking.

Based on standard schedule of rates, page No. 7

(QRs. 380.00 per piece x 9 pieces = QRs. 3,420.00).

1150	MANUFACTURE AND SUPPLY OF STEERING HYDRAULIC PRESSURE HOSE :-	1,000.00
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~~2 nos. steering hydraulic pressure hose approx. 300 bar as per~~

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	sample manufactured and supplied as per navy instruction.	
1151	ULTRASONIC THICKNESS MEASUREMENT :-  580 spots Ultrasonic thickness gauging taken and report issued.  Based on standard schedule of rates, page no. 7 (QRs. 11.00 per spot x 580 spots = QRs 6,380.00).	6,380.00
1152	SCAFFOLDING :-  Dock deck area Scaffolding arranged and later removed on completion of painting and repair works.  Scaffolding on Dock deck :- QRs. 25.00 per cubic meter x 260 Cubic Meters = QRs. 6,500.00.	6,500.00
1153	DP TEST OF PROPELLERS :-  All propellers inspected ,DP test carried out and report issued.  (QRs. 360.00 per propeller x 4 Propellers = QRs. 1,440.00).	1,440.00
1154	INSULATION WORK :-  Insulation work carried by specialist subcontractor.	15,863.00
1155	RENEWAL OF CEMENT IN JUNDI BATHROOM AREA :-	4,200.00

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Job No	Description	Line Amount
	Jundi Bathroom area existing cement broken, removed and later cemented after on completion of steel repair works. Cemented area painted.  Subcontractor coast for cementing:- QRs. 1,500.00. Painter:- QRs. 75.00 per hour x 36 Hours = QRs. 2,700.00.	
1156	PEST CONTROL :-  Pest control carried out inside of the boat, as per navy instruction by sub-contractor NMSC Milaha.	650.00
1157	PROPELLER DP TEST :-  4 nos. propellers, D P test carried out at root and tip of the blades, report issued and submitted. Included in Job No. 1153.	
1158	BERTHING CREW :-  Navy boat Berthed at Q-CON jetty for emergency case. Services of Berthing crews provided.  As per standard schedule of rates, page No. 4.	720.00
1200	UNDER WATER A TREATMENT AND PAINTING :-  Underwater a an approx. of 560 square meters treated and painted as follows :-  Hand scraped to remove marine growth (QRs. 1,680.00). H.P. jet washed with fresh water (QRs. 4,480.00).	52,065.60

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	<p>Blasted to SA 2 using garnet (approx. 30% of area) (QRs. 8,954.40).</p> <p>Blast to SA1. using garnet remaining a (approx. 70% of area.) (QRs.13,759.20).</p> <p>Hosed down with fresh water (QRs.1,008.00).</p> <p>Applied with one Coat primer (45881- 50630) Red (QRs.1,680.00).</p> <p>Hosed down with fresh water (QRs.1,008.00).</p> <p>Applied with 2 coats primer (QRs.3,360.00).</p> <p>Applied with one coat sealer (QRs.1,680.00).</p> <p>Applied with 2 coats of Hempel hard racing antifouling 7648 - 1999 (QRs.4,200.00).</p> <p>17 tons used Garnet/waste water which mixed with ferrous, paint, oil and chemical collected, transported and safe disposed as per Qatar safety environment regulation in Mesaieed (QRs.4,080.00).</p> <p>160 Litres Hempadur sealer and 100 litres Thinner supplied by yard (QRs. 6,176.00).</p> <p>(Remaining paint compositions owner's supplied used).</p> <p>Based on standard schedule of rates, page No. 9 &amp; 10.</p>	
1201	<p>PROP SPEED :-</p> <p>Job has been cancelled.</p>	
1202	<p>GOAL KEEPER BILGES AREA CLEANING AND PAINTING :-</p> <p>Goal Keeper bilges area cleaned painted same colour as per engine room, using owner supplied paint.</p> <p>QRs. 75.00 per hour x 35 hours = QRs. 2,625.00.</p> <p>Consumable = QRs. 200.00.</p>	2,825.00

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Job No	Description	Line Amount
1203	UPPER DECK CLEANING AND SANDING :-  Job has been Cancelled.	
1204	PAINTING OF STEEL PLATE :-  New steel sheet plates received from navy steel stock , grit blasted and applied primer paint using Yard Supplied 60 litres Primer and 6 tons Grits.  Blaster/Painter:- QRs. 75.00 per hour x 39 Hours = QRs. 2,925.00. Consumable:- QRs. 3,300.00.	6,225.00
1250	PAINTING ENGINE ROOM BILGES :-  All bilges treated and painted as follows as per Navy instruction. Remaining water pump out. Full cleaned with cotton rags ( 2times cleaned ). Chemical applied and HP Jet washed with fresh water . Pump out and cleaned Applied one full coat ( Green)Owner supplied paints .  Painter:- QRs. 75.00/hour x 140 hours = QRs. 10,140.00. Cleaner:- QRs. 48.00/hour x 900 hours = QRs. 43,200.00. Consumables:- QRs. 2,000.00.	55,340.00
1400	SEA GRIDS :-	4,185.00

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Page: 7 / 44

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Job No	Description	Line Amount
	9 Nos. sea grids removed from location and brought down at dock area. Cleaned, HP-washed and painted. After client inspection installed back on position with yard supplied new SS M10 countersunk bolts. Witnessed by Client.  Based on standard schedule of rates, page no. 18 (QRs. 465.00 per piece x 9 pieces = QRs. 4,185.00).	
1401	ZINC ANODES REMOVAL AND REFITTING:-  12 Nos. main sea chest Bolted type zinc anodes size each 150 x 150 x 40mm thickness opened, removed, New anodes fitted.  Removal and Refitting of Zinc Anode:- (QRs. 110.00 per piece x 12 pieces = QRs. 1,320.00)	1,320.00
1402	CLEANING OF SEA SUCTION STRAINERS :-  Following sea suction strainers removed, brought to work shop, chemically cleaned, buffed and painted. Strainers returned to vessel and refitted. Main Engine sea suction strainer size 10"dia. - 4 Nos. DG Strainers size 6"dia. - 3 Nos. Fire pump strainers size 8"dia. - 2 Nos .  Mechanic:- QRs. 88.00 per hour x 37 Hours = QRs. 3,256 .00. Consumable:- QRs. 494.00.	3,750.00
1403	OVERHAULING OF OVERBOARD VALVE :-  Following overboard valves removed from location and brought to workshop, dismantled, chemical cleaning and buffing done.	11,460.00

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	<p>Valves Assembled with yard supplied new Teflon gland packing. Gravity test done. No leaks found. Witnessed by yard QC. Valves shifted to vessel and fitted back on position.</p> <p>Main engine #1,2,3 &amp; 4 diaphragm valve size DN100 - 4 Nos.</p> <p>Port and stbd. Eductor globe valve size DN100 - 2 Nos.</p> <p>DG obd. gate valve size DN50 - 3 Nos.</p> <p>Sewage Gate valve DN100 - 2 Nos.</p> <p>Reefer Obd. Globe valve size 2" dia. - 1 No.</p> <p>A/C outlet globe valve size 2" dia. - 2 Nos.</p> <p>Fresh water Obd. outlet Gate valve size DN50 - 2 Nos</p> <p>Mechanic:- QRs. 88.00 per hour x 120 Hours = QRs. 10,560 .00.</p> <p>Consumable:- QRs. 900.00.</p>	
1404	<p>TAIL SHAFT CLEARENCE :-</p> <p>All 4 nos. tail shaft clearance checked and reported as per navy instruction.</p> <p>(QRs. 620.00 per shaft x 4 Nos. = QRs. 2,480.00.</p> <p>Based on standard schedule of rates, page No. 13</p>	2,480.00
1405	<p>STEERING RUDDER CLEARENCE :-</p> <p>Job has been cancelled.</p>	
1406	<p>RENEWAL OF STEERING RUDDER GLAND PACKING :-</p> <p>Steering Rudders (port and Stbd) old gland packing removed and Navy supplied 1"- new gland packing installed with yard supplied new grease. Inspected and witnessed by client.</p>	1,860.00

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Job No	Description	Line Amount
	(QRs. 930.00 per rudder x 2 Nos. = QRs. 1,860.00. Based on standard schedule of rates, page No. 14	
1407	OVERHAULING OF SEWAGE VALVE :-  Included in Job No. 1403.	
1408	OVERHAULING OF SEA SUCTION VALVES :-  Following sea suction valves removed from location and brought to workshop, dismantled, chemical cleaning and buffing done. Valves Assembled with yard supplied new Teflon gland packing. Gravity test done. No leaks found. Witnessed by yard QC. Valves shifted to vessel and fitted back on position.  Main Engine sea suction butterfly valve size DN200 - 8 Nos. DG sea suction brass gate valve size DN50 - 3 Nos. Fire pump sea suction brass gate valve size DN80 - 3 Nos. A/C sea suction Globe valve size DN 50 - 1 No.  Mechanic:- QRs. 88.00 per hour x 150 Hours = QRs. 13,200 .00. Consumable:- QRs. 1200.00.	14,400.00
1409	RENEWAL OF HP AIR BOTTLES DRAIN VALVE :-  Job has been cancelled.	
1410	REPAIR OF ALL REMOTE OPERATED VALVE LINKAGE :-  7 Nos. valve's linkages inspected, cleaned and greased in situ. <del>5 Nos. valves Linkages disconnected, removed brought to work</del>	5,820.00

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	shop, dismantled, cleaned and greased. Linkages returned to vessel and refitted on position.  Mechanic:-QRs. 88.00 per hour x 65hours = QRs. 5,720.00. Consumable:- QRs. 100.00.	
1411	GREASING OF MAIN SHAFT BEARING :-  Job has been cancelled.	
1412	CLEANING OF MAIN SEA SUCTION PIPE LINES :-  Following suction pipes disconnected, removed, brought to work shop, cleaned blasted, returned to vessel and refitted in position. Size 5" dia. M.S. pope x 800mm long, 01 elbow, 02 flanges. - 1 No. Size 5" dia. Copper nickel pipe, 1200mm long, 3" dia. Branch pipe - 1 No. Size 500mm long, 03 nos flange and 01 nos. elbow - 1 No. Size 5" dia. Copper nickel pipe, 1000mm long, 02 elbow, 02 flange - 1 No. Size 5" dia. Copper nickel pipe, 2500mm long, with 02 nos. flange - 1 No. Size 5", dia. Copper nickel pipe, 500mm long with 02 nos. flange - 1 No. Size 5" dia. Copper nickel pipe, 1200mm long, 02 elbow and 02 flanges - 1 No. Size 5" dia. Copper nickel pipe, 200mm long with 02 nos. flange - 1 No. Size 5" dia. Copper nickel header pipe line, 1000mm long, 3" dia. 150mm long with 4 Nos. branch pipes -1 No. <del>4 Nos. Butterfly valves removed for access and later refitted.</del>	10,965.00

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	Pipe fitter:-QRs. 88.00 per hour x 117 hours = QRs. 10,296.00. Consumable:- QRs. 669.00.	
1413	REPAIRING OF D/G # 2 SEA SUCTION VALVE :-  D/G # 2 sea suction valve's disc removed, repaired by brazing, machined, lapped and refitted.  Mechanic/Machinist QRs. 88.00 per hour x 16 Hours = QRs. 1,400.00. Consumable:- QRs. 100.00.	1,500.00
1414	DG COOLERS OVERHAULING :-  Job has been cancelled.	
1800	RENEWAL OF CATHOD PROTECTION AREA DAMAGED PLATE :-  Corroded steel cut by grinder and removed in way of bottom hull cathodic protection area. New round plate fabricated, inserted and weld with cathode protection housing with bottom hull. Additional internal bracket fabricated and fitted welded. Steel insert round plate size 300mm x OD x 125mm I.D x 10mm thickness - 8 Nos. Additional bracket size 120mm x 80mm x 6mm thickness - 8 Nos. Existing cathodic protection case cut and removed for access, later refitted the same after the completion of steel work. Internal longitudinal stiffeners size 80mm x 430mm x 6 mm thickness - 4 Nos. Scaffolding arranged for access and later removed on completion size 1500mm x 3000mm x 1.5mm. <del>Necessary manhole opened for access and later and closed.</del>	35,104.00

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	<p>Tank gas freed.  Repaired area cleaned and painted.  All weld joints inspected by QC.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 383 hours = QRs.  33,704.00.  Material/Consumable:- QRs. 1400.00.</p>	
1801	<p>REPAIR OF BOTTOM KEEL AREA :-</p> <p>Bottom keel inspected and 4 Nos. 10mm dia. drill holes made for drain the dirty water.  4 Location drill holes closed by build up welding after water draining and inspection.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 28 hours = QRs.  2,464.00.  Consumable:- QRs. 86.00.</p>	2,550.00
1802	<p>REPAIR OF HULL BOTTOM AREA :-</p> <p>Included in Job No. 1801.</p>	
1803	<p>OVERHAULING OF HATCHES :-</p> <p>Aft stbd. Main deck hatch repaired.  Damaged coaming plate cut and renewed to size 280mm x 160mm x 5mm thickness.  Existing lifting points cut removed and fitted the same size 125mm x 100mm x 5mm thickness - 1 No.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 44 hours = QRs.</p>	3,972.00

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QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

Page: 13 / 44

100517

QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012960/2021

DATE: 29/09/2021

EXPENSE A/C:

W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	3,872.00. Consumable:- QRs. 100.00.	
1804	RENEWAL OF STBD. SIDE BELOW OF GENERATOR ENGINE ROOM :-  Stbd. area at frame 9 to 10 below of generator engine room thinned plate and internal frames, brackets cut and new plate fabricated, fitted and welded. Bottom plate size 680mm x 930mm x 6mm thickness - 1 No. Internal frame insert size 820mm x 300mm x 5mm thickness - 1 No. Frame face plate size 400mm x 120mm x 5mm thickness - 1 No. Stiffener size 80mm x 350mm x 6mm thickness - 3 Nos. Stiffener size 80mm x 650mm x 6mm thickness - 3 Nos. Backing strips size 1960mm x 30mm x 5mm thickness - 2 Nos. Backing strip size 750mm x 30mm x 5mm thickness - 2 Nos.  Fabricator/Welder:- QRs. 88.00 per hour x 110 hours = QRs. 9,680.00. Consumable:- QRs. 650.00.	10,330.00
1805	RENEWAL OF STBD. SIDE PLATE BETWEEN FRAME 25 TO 27 :-  Job has been cancelled.	
1806	RENEWAL OF STBD. SIDE PLATE BETWEEN FRAME 29 TO 31 :-  Job has been cancelled.	
1807	RENEWAL OF STBD. SIDE PLATE BETWEEN FRAME 42 TO 44 :-	54,518.00

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USD A/C No. 0013-000309-061

Page: 14 / 44

100517

QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

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DATE: 29/09/2021

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W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	<p>Stbd. side at frame no. 42 to frame 44 , thinned plate and internals cut and renewed near the sea chest below of bath room.</p> <p>Steel insert size 1250mm x 1675mm x 6mm thickness.</p> <p>Scaffolding arranged for access and later removed on completion of repair works to size 1500mm x 3000mm x 2500mm.</p> <p>Forward Fuel oil tank bulkhead plate size 750mm x 650mm 6mm thickness - 1 No.</p> <p>Fwd. bulkhead bracket size 135mm x 360mm x 6mm thickness - 6 Nos. Longitudinal stiffener plate size 80mm x 06mm x 1200mm long - 6 Nos.</p> <p>Bulkhead stiffener size 70mm x 6mm thickness x 450mm long - 2 Nos.</p> <p>Bulk head - 18mm x 6mm thickness x 135mm long.</p> <p>Fit-up and weld inspections done by QC.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 611 hours = QRs. 53,768.00.</p> <p>Consumable:- QRs. 750.00.</p>	
1808	RENEWAL OF PORT SIDE PLATE BETWEEN FRAME 21 TO 22 :-  Job has been cancelled.	
1809	RENEWAL OF PORT SIDE PLATE BETWEEN FRAME 25 TO 27 :-  Following damaged steel renewed in way of Port side at frame no 25 to frame no. 27 at engine room and CIC room. Side shell insert plate size 920mm x 2180mm x 6mm thickness. ( rolled plate ) -1 No. Internal frame insert size 320mm x 2000mm x 6mm thickness (Rolled plate) - 1 No. <del>Internal frame face plate size 80mm x 1600mm x 6mm thickness</del>	46,560.00

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USD A/C No. 0013-000309-061

Page: 15 / 44

100517

QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012960/2021

DATE: 29/09/2021

EXPENSE A/C:

W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	(Rolled plate) - 1 Nos. Brackets size 90mm x 300mm x 80mm X6mm thickness - 3 Nos. Brackets size 80mm x 300mm x 80mm x 6mm thickness - 9 Nos. Longitudinal stiffener size 80mm x 100mm x 6mm thickness - 7 Nos. Scaffolding arranged for access size 3000mm x 3000mm x 2000mm - 1 Nos. Engine room cutting area cleaned by fresh water - 2 times. All pipe lines in way of repairing area disconnected and removed by pipe section.  Fabricator/Welder:- QRs. 88.00 per hour x 520 hours = QRs. 45,760.00. Consumable:- QRs. 800.00.	
1810	RENEWAL OF PORT SIDE PLATE BETWEEN FRAME 32 TO 33 :-  Job has been cancelled.	
1811	RENEWAL OF PORT SIDE PLATE BETWEEN FRAME 41 TO 42 :-  Port side at frame 41 to frame 42, thinned plate and damaged internals cut and removed. Following new sections fabricated fitted and welded. Insert plate size 1180 mm x 1150mm 6mm thickness - 1 No. Longitudinal stiffener size 80mm x 1275mm x 6mm thickness - 2 Nos. Transferase frame size 500mm x 1700mm x 6 mm thickness - 1 Nos. Transferase frame face plate size 1030mm x 80mm x 6mm thickness. - 1 No. Transferase frame - 175mm X 690mm X 80mm X 6 mm thickness - 4 Nos.	22,764.00

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USD A/C No. 0013-000309-061

Page: 16 / 44

100517

QATAR ARMED FORCES

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W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	Brackets -size 135mm x 240mm x 6mm thickness - 1 No. Fabricator/Welder:- QRs. 88.00 per hour x 253 hours = QRs. 22,264.00. Consumable:- QRs. 500.00.	
1812	RENEWAL OF PORT SIDE PLATE BETWEEN FRAME 48 TO 51 :-  Following damaged steel and internals cut, removed in way of Port side frame No 48 to frame No. 51 at above water tank area. New insert plate size 1400 mm x 2000 mm x 6 mm thickness - 1 No. Longitudinal stiffener size 80mm x 6mm x 1275mm long - 3 Nos. Bracket size 135mm x 240mm x 6mm thickness - 1 No. Bracket size 135mm x 175mm x 6mm thickness - 2 Nos. Scaffolding arranged for access and later removed on completion of repair works size 3000mm x 1000mm x 2000mm - 1 No. Fit up inspection and weld inspection done by Q.C.  Fabricator/Welder:- QRs. 88.00 per hour x 220 hours = QRs. 19,360.00. Consumable:- QRs. 400.00.	19,760.00
1813	REPAIR OF FRESH WATER TANK FWD. AREA :-  Fresh water tank Fwd. area shell plates Buckling/Damaged shell plates cut and removed in fresh water tank. New plates and internals fabricated, fitted and welded. Frame size 800mm long x 1500mm x 250mm x 06mm thickness - 2 Nos. Frame size 800mm long x 850mm x 225mm x 06mm thick. - 2 Nos. Face plate size 80mm width x 6mm thickness x 1500mm long - 2 Nos.	46,000.00

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USD A/C No. 0013-000309-061

Page: 17 / 44

100517

QATAR ARMED FORCES

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W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
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Vertical stiffener size 80mm width |x 6 mm thickness x 7800mm  
long.- 2 Nos

Shell Plate size 3450mm x 1100 mm x 6 mm thickness - 1 No.

Shell Plate size 3340mm x 1050 mm x 06 mm thickness - 1 No.

Scaffolding arranged and removed size 2000 x 6000mm x 1500mm -  
1 No.

Fit up and welding inspected by QC.

Fabricator/Welder:- QRs. 88.00 per hour x 457 hours = QRs.  
40,216.00.

Material/Consumable:- QRs. 5,784.00.

1814	REPAIR OF FWD. DIESEL TANK SHELL PLATE :-	43,470.00
------	---	-----------

Dented main frames cut and renewed in way of Fwd. centre diesel  
tank area.

Frame insert and face plate Size :-Insert Plate - 3000mm X  
310mm X 05mm thick - 02 nos

Face plate - 75mm width X 6mm thick. X 3100mm length. - 02 nos.

Insert Plate - 1200mm X 310mm X 05mm thick - 02 nos.

Face plate - 75mm width X 6mm thick. X 1300mm length. - 02 nos.

Insert Plate - 1100mm X 310mm X 05mm thick - 02 nos.

Face plate - 75mm width X 6mm thick. X 1200mm length. - 02 nos.

Insert Plate - 1000mm X 310mm X 05mm thick - 02 nos.

Face plate - 75mm width X 6mm thick. X 1100mm length. - 02 nos.

Insert Plate - 900mm X 300mm X 05mm thick - 02 nos.

Face plate - 75mm width X 6mm thick. X 1000mm length. - 02 nos.

Insert Plate - 800mm X 300mm X 05mm thick - 02 nos.

Face plate - 75mm width X 6mm thick. X 900mm length. - 02 nos.

Insert Plate - 850mm X 300mm X 05mm thick - 02 nos.

Face plate - 75mm width X 6mm thick. X 950mm length. - 02 nos.

Area cleaned and painted by HPTC section after repair.

Fabricator/Welder:- QRs. 88.00 per hour x 480 hours = QRs.

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USD A/C No. 0013-000309-061

Page: 18 / 44

100517

QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

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W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	42,420.00. Consumable:- QRs. 1050.00.	
1815	REPAIR OF RAS FUELING POINT ON MAIN DECK :-  Job has been cancelled.	
1816	STEEL RENEWAL IN SEA CHEST :-  Corroded steel cut and removed in way of STBD side FWD sea chest vertical area. New steel insert and internals fabricated, fitted and welded. Insert size - 385mm X 990mm X 10mm thick. - 01 nos. Installed additional zinc anode in way of sea chest new plate renewal area. Stainless steel stud bolts fitted and welded. M 12 X 50mm long - 02 nos. All fit-up and welding inspected by QA QC.  Fabricator/Welder:- QRs. 88.00 per hour x 85 hours = QRs. 7,480.00. Consumable:- QRs. 100.00.	7,580.00
1817	PETTING AREA REPAIR :-  Included in Job No. 1826.	
1818	FRSH WATER TANK & AC COMPT. STEEL PLATE RENEWAL :-  Following dented plates and internals cut and removed. New insert plates and internals fabricated, fitted and welded in	30,906.00

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USD A/C No. 0013-000309-061

Page: 19 / 44

100517

QATAR ARMED FORCES

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W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	stbd. Side AC compartment room lower area. Insert plate size 935 mm x 3740 mm x 6mm thickness - 1 Nos. Longitudinal stiffener plates, 80mm width x 6mm thickness. M.S. flat bar with 1500mm long - 2 Nos. Longitudinal stiffener plates 80mm width x 6mm thickness. M.S. flat bar with 750mm long - 2 Nos. Longitudinal stiffener plate size 80mm width x 6mm thickness x 1250mm long M.S. flat bar- 2 Nos. Bracket size 200 mm x 1501 mm x 7 mm thickness - 3 Nos. Bracket size 225mm x 150mm x 7mm thickness - 5 Nos. Scaffolding arranged for access and later removed on completion of repair works 6000mm x 3000mm x 2000mm - 1 No.  Fabricator/Welder:- QRs. 88.00 per hour x 337 hours = QRs. 29,656.00. Consumable:- QRs. 1,250.00.	
1819	FW TANK MANHOLE COVER RENEWAL :-	15,886.00
	Fresh water tank manhole cover and bolt renewed. Manhole cover: New cover fabricated and installed. - 02 nos. Size :- 690mm X 490mm X 07mm thick. - 02 nos. 18mm dia. Drill Hole. - 30 nos. Rubber gasket. - 690 mm X 490mm. - 02 nos. Stainless steel bolt, nut and washer- M16 X 90 - 60 nos. Manhole cover base drilled and tapped. - M16. - 60 nos.  Fabricator/Welder/Machinist:- QRs. 88.00 per hour x 172 hours = QRs. 15,136.00. Material/Consumable:- QRs. 750.00.	
1820	FUEL TANK STEEL RENEWAL :-	12,885.00

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USD A/C No. 0013-000309-061

Page: 20 / 44

100517

QATAR ARMED FORCES

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W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	Air pressure test carried out in Fwd. and Aft. centre fuel tank and certificated issued.	
	Fabricator:- QRs. 88.00 per hour x 140 hours = QRs. 12,320.00.	
	Consumable:- QRs. 565.00.	
1821	CIC ROOM & JUNIOR ACCOM. STEEL RENEWAL :-	9,902.00
	STBD side near the mid ship side block in way of CIC room and junior accommodation area , pitting shell plate cut and renewed with new plate. Longitudinal stiffener	
	M.S. Plate , 80mm width X 07mm thickness 990mm long- 03 nos.	
	Bottom shell plate -1290mm X 885mm X 6mm thick. - 01 nos.	
	Access work Scaffolding arranged - 3M X 2M X 1.5M - 01 nos.	
	Side block removed and refitted for access.	
	Existing side block modified and installed. Insulation materials removed and refitted in two locations ( CIC room and Junior accommodation) for access(included in job no. 1154).	
	All fit-up and welding activities inspected and passed by QC.	
	Fabricator/Welder:- QRs. 88.00 per hour x 104 hours = QRs. 9,152.00.	
	Consumable:- QRs. 750.00.	
1822	STEERING ROOM ROUND BAR ;-	
	Job has been cancelled.	
1823	LADDER FABRICATION :-	
	Job has been cancelled.	

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Page: 21 / 44

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W/O NO: 21-011158 / 1

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
1824	RACK MODIFICATION :- Job has been cancelled.	
1825	FLAG PULLEY EYE :- Job has been cancelled.	
1826	FUEL TANK PLATE RENEWAL :-  Stbd. Fwd. and FOT bottom Plate in way of C.I.C. room and junior accommodation area-Petted area at Stbd. side mid ship t repaired with build-up welding. Area repaired in 03 locations. Location 01 Thinned plate cut and renewed in way of Fwd. and Aft, FOT Bhd. Area Bottom plate. Size - 1475mm X 880mm X 6mm thick. - 01 nos .Longitudinal stiffener 80mm width X 06mm thick. 700mm long.- 03 nos. FWD, FOT tank manhole opened and gas freed. Closed manholes using new yard supplied oil gasket. (400mm X 550mm)- 02 nos. Location - 02 Thinned plate cut and renewed in way of FOT. Under CIC. room area. Old bottom plate and related damaged internals cut by grinding machine. New plate fabricated, fitted and welded. Plate size 950mm X 2470 mm X 06mm thick. - 01 nos. Longitudinal stiffener - 80mm width X 07mm thick X 1450mm long - 02 nos. Longitudinal stiffener - 80mm width X 07mm thick X 1700mm long - 01 nos. Location - 03 Thinned plate (pitted plate) and necessary internals cut and renewed in way of AFT, Fuel tank under CIC room area Damaged	44,764.00

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Page: 22 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	<p>bottom plate cut by grinding machine.  New plate fabricated, fitted and welded.  Size - 1000 mm X 550mm X 6mm thick. - 01 nos.  Longitudinal stiffener - 80mm width X 07mm thick X 600mm long  - 02 nos.  All fit-up and weld joints inspected and passed by QC.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 454 hours = QRs.  39,952.00  Material/Consumable:- QRs. 4,812.00.</p>	
1827	<p>STIFFERNER RENEWAL :-</p> <p>Renewed 2 nos. stiffeners in E/R fwd. exhaust area Stbd. side.  Existing damaged stiffener cut and removed by grinding machine.  New stiffener fabricated fitted and welded.  M.S. Plate size, 80mm width x 07mm thickness 420mm long- 1 No.</p> <p>M.S. Plate , 80mm width x 07mm thickness 530mm long- 1 No.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 35 hours = QRs.  3,080.00.  Consumable:- QRs. 160.00.</p>	3,240.00
1828	<p>AFT BOTTOM PETTING AREA PLATE RENEWAL :-</p> <p>AFT bottom between shaft no. 3 &amp; 4 (coffer dam area). pitting area damaged plate cut and removed.  New plate fabricated fitted and welded.  Bottom insert plate Size : 775mm x 660mm x 8mm thickness. ( Rolled plate) - 1 No.  Bracket- 130mm x 300mm x 7mm thickness. - 03 Nos.  Longi. Stiffener. - 80mm width x 400mm long x 7mm thickness. -</p>	11,629.00

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USD A/C No. 0013-000309-061

Page: 23 / 44

100517

QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012960/2021

DATE: 29/09/2021

EXPENSE A/C:

W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	03 Nos. Stainless steel bolt & Nut - M 16 x 50mm long. - 04 Nos. Rubber gasket. 4" dia. - 1 No. Scaffolding arranged. 1M x 3M x 1 M - 1 No. Manhole opened for access. Fit-up and welding inspected by QC. Fabricator/Welder:- QRs. 88.00 per hour x 129 hours = QRs. 11,129.00. Consumable:- QRs. 500.00.	
2400	CLEANING OF SEWAGE TANK :- SS Sewage tank manhole opened, gas freed, Pump out and cleaned ( 2 times). Gas Freeing:- QRs. 310.00. Cleaner:- QRs. 48.00 per hour x 120 hours = QRs. 5,760.00. Consumable:- QRs. 200.00.	6,270.00
2401	CLEANING OF FUEL TANK :- All fuel tank with service tank, manholes opened, gas freed, tank cleaned as per navy instruction. 2 times pump out and cleaned For steel work. Gas Freeing:- QRs. 310.00 per tank x 4 tanks = QRs. 1,240.00. Cleaner:- QRs. 48.00 per hour x 370 hours = QRs. 17,760.00. Consumable:- QRs. 600.00. Oil Disposal:- QRs. 2050.00.	21,650.00
2402	CLEANING OF FRESH WATER TANK :-	8,905.00

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USD A/C No. 0013-000309-061

Page: 24 / 44

100517

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DATE: 29/09/2021

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W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	<p>Fresh water tank pump out and cleaned for steel work New steel painted primer Re coated with white cement in completion of steel work.</p> <p>All paints and White cement supplied by yard</p> <p>Gas Freeing:- QRs. 310.00 per tank x 2 tanks = QRs. 620.00.</p> <p>Cleaner:- QRs. 48.00 per hour x 155 hours = QRs. 7,440.00.</p> <p>Consumable:- QRs. 845.00.</p>	
2500	<p>MANUFACTURE OF CATHOD PROTECTION HOUSING BOX :-</p> <p>9 Nos. CS cathode protection HSN manufactured new from OD 160mm long 145mm with top plate.</p> <p>Machinist/Fabricator:- QRs. 88.00 per hour x 270 hours = QRs. 23,760.00.</p> <p>Material/Consumable:- QRs. 2,200.00.</p>	25,960.00
2501	<p>FABRICATION OF ZINC ANODES :-</p> <p>12 nos sea chest zinc anode bolted type manufactured new 160 x 160 x 50 mm thickness with bolt hole 13mm hole.</p> <p>Machinist:- QRs. 88.00/hour x 25 hours = QRs. 2,200.00.</p> <p>Material + Consumables:- QRs. 1,560.00.</p>	3,760.00
2502	<p>CLEANING AND POLISHING OF TAIL SHAFT :-</p> <p>4 Nos. SS tail shaft cleaned and polished with steel cup wire brush at site. Staging before erected for access and removed after completion of the job.</p>	2,240.00

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USD A/C No. 0013-000309-061

Page: 25 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	Machinist:- QRs. 88 per hour x 24.5 hours = QRs. 2,156.00. Consumable:- QRs. 84.00.	
2503	RENEWAL OF SPRINKLER SYSTEM :-  Job has been cancelled.	
2504	A/C ZINC ANODES :-  Job has been cancelled.	
2505	MANUFACTURE OF BOLTS :-  25 nos Foundation bolt machined from M24 to M22 as per client rep. instruction. 25 nos M20 bolt modified as per client rep. instruction.	9,194.00
	Machanic:- QRs. 88 per hour x 88 hours = QRs. 7,744.00. Material/Consumable:- QRs. 1,450.00.	
5050	FREEING OF M/E FLAPS AND UNDER WATER EXHAUST FLAPS :-  Main engine flaps and under water exhaust flap position checked and made free.	4,100.00
	Machanic:- QRs. 88 per hour x 44 hours = QRs. 3,872.00. Consumable:- QRs. 228.00.	

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USD A/C No. 0013-000309-061

Page: 26 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
5800	<p>MAIN HP AIR BOTTLES :-</p> <p>4 nos. main HP air bottles cleaned and pressure test carried out.</p> <p>Machanic:- QRs. 88 per hour x 96 hours = QRs. 8,448.00.</p> <p>Consumable:- QRs. 52.00.</p>	8,500.00
6000	<p>BILGES SUCTION STRAINERS :-</p> <p>All Bilge strainer filter with pipe opened, shifted to workshop, after cleaning, blasting and painting, refitted in same location with new rubber gaskets and nut-bolts.</p> <p>Steering room bilge strainer filter with pipe - 1 No.</p> <p>Aft engine room bilge strainer filter with pipe - 03 Nos.</p> <p>Fwd. engine room bilge strainer with pipe - 03 Nos.</p> <p>A/C compartment bilge strainer filter with pipe opened and damaged filter renewed - 2 Nos. Fwd. chain locker area bilge strainer filter with pipe. - 1 No.</p> <p>Junior bathroom bilge strainer - 1 No.</p> <p>Pipe fitter/Welder:- QRs. 88.00 per hour x 65 hours = QRs. 5,720.00.</p> <p>Material/Consumable:- QRs. 500.00.</p>	6,220.00
6001	<p>CLEANING OF SUCTION AND DISCHARGE LINE :-</p> <p>Following pipes dismantled from all sewage system to all bathroom, port. &amp; Stbd. Side.</p> <p>Pipes shifted to blasting area, cleaned by sweeping.</p> <p>After cleaning fix-back in same position.</p> <p>Location. STP room port &amp; Stbd. side.</p> <p>Gun room Port &amp; Stbd. side.</p>	20,861.00

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USD A/C No. 0013-000309-061

## INVOICE

Page: 27 / 44

100517

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Doha - Qatar DOHA QA 37

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	<p>Jr, bathroom. A/C compartment. Officer bath room. Size 2" dia. copper nickel pipe, 1500mm long- 8 Nos. Size 2"dia. copper nickel pipe, 3000mm long- 9 Nos. Size 2"dia. copper nickel pipe, 2000mm long- 7 Nos. 2" copper nickel pipe, 2500mm long- 9 Nos. Size 2" dia. Ball valve - 10 Nos. Rubber flap type NRV. -2. Filter - 1 No. Straub coupling. - 23 Nos. opened and found 02 Nos. damaged. Provided new 57mm dia. Straub coupling -02 Nos. Jr. Bathroom.</p> <p>Size 42mm dia copper nickel pipe from suction pipe to chest. Approx. 2500mm long.-03 Nos. Size 56mm copper nickel pipe, opened, cleaned and refitted. - 1 No. Size 42mm dia. Ball valve opened, cleaned and refitted - 06 Nos. Size 2" dia. pipe and 56mm valve opened, cleaned and refitted. - 1 No.</p> <p>Pipe fitter:- QRs. 88.00 per hour x 227 hours = QRs. 19,976.00. Consumable:- QRs. 885.00.</p>	
6002	REPAIR OF GALLEY MAIN DRAIN LINE :-	2,916.00
	<p>Ship galley drain line and overboard valve disconnected, shifted to workshop, cleaned using chemical, blasted and refitted in position. 2" dia. Copper nickel pipe line, 1200 mm long, 2 Nos. Straub coupling and one flange. 2" dia. Copper nickel pipe line, 1200mm</p>	

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Page: 28 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	long, one flange and one union.2" dia. Overboard valve, inspected and found O.K. Refitted the valve in position.  Pipe fitter:- QRs. 88.00 per hour x 32 hours = QRs. 2,816.00. Consumable:- QRs. 100.00.	
6003	GOAL KEEPER A/C DRAIN OVER BOARD :-  Goal Keeper A/C drain over board made in port side, Materials: Size 1" dia. Stainless steel pipe, 1000mm long, Sch.80. Size 1" dia. Stainless steel elbow, 90 deg., sch. 80 - 03 Nos. Size 1" stainless steel flange - 1 No. 1" stainless steel Union-1 No. Size 1" Brass gate valve ( flange type) - 1 No. M.S. Plate Size 200mm x 200mm x 8mm thickness. - 1 No.  Pipe fitter/Welder:- QRs. 88.00 per hour x 20 hours = QRs. 1,760.00. Material/Consumable:- QRs. 540.00.	2,300.00
6004	RO PLANT NO. 2 NEW WATER SUCTION LINE :-  New water suction pipe line with strainer fabricated, welded and installed in RO plant no. 2. Size 1 1/4" dia. stainless steel pipe, sch. 80. - 03 mtr. long. Size 1 1/4" dia. Stainless steel flange, - 1 No. Size 1 1/2" brass strainer - 1 No. Size 1 1/4" stainless steel union - 02 Nos. Size 1 1/4" stainless steel elbow, sch 80. - 03 Nos. 3/4" stainless steel ball valve-1 No. Size 3/4" stainless steel pipe, sch.80. 200mm long Size 1 1/2" dia. Stainless steel pipe, sch. 80. - 200mm long.	2,900.00

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Page: 29 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	Pipe fitter/Welder:- QRs. 88.00 per hour x 26hours = QRs. 2,288.00. Material/Consumable:- QRs. 612.00.	
6005	CLEANING OF FIRE AND HULL PUMP SEA WATER SUCTION LINE :-  Fire and hull pump no. 1,2 & 3 sea water suction line up to sea water pump opened cleaned and refitted. Pump No: 01 # 3" dia. copper nickel pipe line x 1200mm long - 1 No. 2lbw and 02 Nos. flanges.- 02 Nos. Pump No: 02 size 3" dia. copper nickel pipe line x 1500mm long with 02 Nos. flanges. Pump No: 03 # 3" dia. copper nickel pipe line, 3000mm long, 02 nos flanges and 01 elbow.  Pipe fitter:- QRs. 88.00 per hour x 30hours = QRs. 2,640.00. Consumable:- QRs. 160.00.	2,800.00
6006	COLD ROOM DRAIN PIPE LINE :-  New drain pipe line fabricated and fitted in Cold room. Materials-¾" stainless steel flange - 1 No. Size ¾" stainless steel pipe, sch. 80, - 1000mm long Size ¾" stainless union - 1 No. Size 22mm dia. copper pipe - 1500mm long. Size 22mm dia. Brass elbow (90 deg.) - 03 Nos. Size 22mm dia. brass coupling - 1 No.  Pipe fitter/Welder:- QRs. 88.00 per hour x 32 hours = QRs. 2,816.00. Consumable:- QRs. 284.00.	3,100.00

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Page: 30 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
6007	<p>CLEANING OF MAIN ENGINE SEA SUCTION PIPE LINE :-</p> <p>Main engine no. 1,2,3 &amp; 4 sea suction pipe line up to the sea water pump opened and cleaned ,re fitted after cleaning. Copper pipe size 8" dia. Aft engine room, 5000 mm long. - 02 Nos. FWD, engine room, 5" dia., copper nickel pipe, 1000mm long - 02 Nos.</p> <p>Pipe fitter/Welder:- QRs. 88.00 per hour x 50 hours = QRs. 4,400.00. Consumable:- QRs. 300.00.</p>	4,700.00
6008	<p>RENEWAL OF FUEL TANK AND STRUM BOXES PIPE LINE :-</p> <p>All pipe lines connected with fuel tank and strum boxes surveyed by QC.1 No. pipe ( 2 ½") found corroded. One side flange bolts disconnected and other side flange cut and removed using hack saw blade. Shifted pipe line to work shop. New pipe line fabricated, welded, blasted, painted and fitted in position. One flange welded in position. Pipe size 2 ½"dia. M.S. Pipe, sch. 40. x 1500mm long. Pipe size 2 ½" M.S. flange- 03 Nos. 2 ½" M.S. elbow, 45 deg. - 02 Nos.</p> <p>Pipe fitter/Welder:- QRs. 88.00 per hour x 76 hours = QRs. 6,688.00. Material/Consumable:- QRs. 300.00.</p>	6,988.00
6009	<p>FABRICATION OF DN 65 FOR A/C UNIT :-</p> <p>2 ½ " dia. Pipe x 500mm long, sch. 80, leakage from A/C system. Fabricated - 6 Nos.</p>	9,790.00

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Page: 31 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	<p>Stainless steel black steel pipe both side flange, same size as per navy instruction.</p> <p>06 Nos pipe supplied to vessel.</p> <p>07 Nos stainless flange ( 2 ½" dia. ) fabricated in machine shop.</p> <p>5" dia, pipe spool 500mm long, both side flange fabricated and supplied.- 1 No. 5" pipe spool blasted and painted.</p> <p>Pipe fitter/Welder/Machinist:- QRs. 88.00 per hour x 78 hours = QRs. 6,864.00.</p> <p>Material/Consumable:- QRs. 2,926.00.</p>	
6010	<p>FABRICATION OF 1/2" SS PIPE LINE :-</p> <p>1/2" SS pipe line manufactured as per sample provided with union and flanges total 6 Nos. as per A/C section instruction.</p> <p>Size ½" dia. stainless steel pipe. - 3.5 mtr long</p> <p>Size ½" dia. Stainless steel flange - 8 Nos.</p> <p>Size ½" stainless steel union. - 1 No.</p> <p>Size 1/2" stainless steel ball valve - 02 Nos.</p> <p>Size 1" stainless steel union. - 1 No.</p> <p>Size 1" stainless steel ball valve -1 No.</p> <p>Size 1". NRV, ( Bronze) - 02 Nos.</p> <p>Size 1", "Y" strainer (Bronze) - 02 Nos.</p> <p>Size 1" dia, stainless steel nipple. - 02 Nos.</p> <p>Size 1" dia. Stainless steel elbow. - 1 No.</p> <p>M.S. Angle bar, 50mm x 50mm x 5 mm thickness - 200mm long - 02 Nos.</p> <p>Size ½" 'U' Clamp - 02 Nos. 1.5 mm copper pipe- 1200mm long. 15mm elbow. - 1 No.</p> <p>Reducing bush Size 1" x ½" - 1 No.</p> <p>Pipe fitter/Welder:- QRs. 88.00 per hour x 67 hours = QRs. 5,896.00.</p>	9,081.00

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Page: 32 / 44

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	Material/Consumable:- QRs. 3,185.00.	
6011	FABRICATION OF BLACK STEEL PIPE :-  Refrigeration black steel pipe fabricated using stainless steel material. Total 04 Nos. stainless steel pipe spool fabricated. 02 Nos. pipe installed in position. 02 Nos. pipe spool supplied to navy staff to size 1" dia. sch 80, stainless steel pipe x 500 mm long - 04 Nos. 1" stainless steel flange. - 08 Nos.  Pipe fitter/Welder:- QRs. 88.00 per hour x 18 hours = QRs. 1,584.00. Material/Consumable:- QRs. 820.00.	2,404.00
6012	PROVIDING OF FRESH WATER TANK :-  Temporary fresh water tank provided on main deck and connected to fresh water pipe line for access. Removed temporary tank and Refitted the same tank after the completion of work. Portable fresh water tank fitted and connected with main fresh water pipe line and removed in completion of steel work and fresh water tank work. Yard supplied 1" dia., plastic clear hose renewed - 10 Meters.  Pipe fitter:- QRs. 88.00 per hour x 16 hours = QRs. 1,408.00.	1,408.00
6013	REMOVAL OF GREY WATER TANK :-  Gray water tank disconnected removed and shifted for access. <del>Returned to position in completion of work of steel and</del>	8,840.00

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## INVOICE

Page: 33 / 44

100517

QATAR ARMED FORCES

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
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connected.

Following pipe lines removed from tank, shifted to blasting yard, blasted, painted and refitted.

3" dia. M.S. pipe, 03 mtr. long, one flange and one coupling - 1 No.

2" copper nickel, pipe, 1000mm long, 03 bend 03 union - 1 No.

1 1/2" copper nickel pipe, 1.5 mtr long, 02 bend and 02 union-01

nos 1 1/4" copper nickel pipe, 200 long, one flange - 1 No.

1 1/4" copper nickel pipe, 1200 mtr. long, one flange, 02 bend. - 1 No.

Bathroom area deck plate and internal stiffener cut and removed for access an approx.. 1200mm x 800mm. Refitted and welded the same plate.

Riggers and crane assist for lifting and shifting of plate and tank.

Pipe fitter /Fabricator /Welder:- QRs. 88.00 per hour x 72 hours = QRs. 6,336.00.

Blaster/Painter/Rigger:- QRs. 75.00 per hour x 20 Hours = QRs. 1,500.00.

Dock crane QRs. 260.00 per hour x 2 Hours = 520.00.

Consumable:- QRs. 484.00.

6014 FABRICATION OF SEA WATER PIPE :-

7,576.00

One sea water pipe line fabricated, welded and installed, between the Main engine cooler and main engine cooling pipe line.

Stainless steel pipe 5"dia. One end 5" dia. flange and other end, universal rounding flange with stopper flange.

Flanges manufactured in machine work shop. Stainless steel pipe, 5" dia. x 150mm long, sch. 80, 5" stainless steel flange ( manufactured in machine shop) - 1 No.

5" Universal rounding flange - 1 No.

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SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

Page: 34 / 44

100517

QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012960/2021

DATE: 29/09/2021

EXPENSE A/C:

W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	10mm thickness one spool fabricated and supplied for Navy Q 05.	
	Pipe fitter /Welder/Machinist:- QRs. 88.00 per hour x 70 hours = QRs. 6,160.00.	
	Consumable:- QRs. 1,416.00.	
6015	REPAIR OF FIRE PUMP STRAINER FILTER HOUSING COOPER NICKEL :-	4,666.00
	Fire pump strainer filter housing (cooper nickel material) disconnected, shifted to work shop, Inspected and repaired. Damaged copper nickel plate cut and removed. New copper nickel plate fitted and welded Size - 300mm x 300mm x 10mm thickness - 1 No. Size ¾" stainless steel coupling- 1 No. Size ¾" stainless steel nipple - 1 No. Strainer housing blasted, painted and refitted.	
	Pipe fitter /Welder:- QRs. 88.00 per hour x 44 hours = QRs. 3,872.00.	
	Material/Consumable:- 794.00.	
6016	FRESH WATER HEATER TANK REPAIR :-	3,908.00
	All pipe lines and connections disconnected from fresh water heater and system pressure accumulator tank. Tank shifted to work shop and inspected. Tank found totally damage. Yard supplied new tank installed in vessel. ( Capacity - 08 Ltr. Test pressure - 12 bar.) One brass adaptor manufactured in machine shop. ( Size - 1" x ¾" long. 60mm dia.).	
	Pipe fitter /Machinist:- QRs. 88.00 per hour x 41 hours = QRs.	

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Page: 35 / 44

100517

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W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	3,608.00. Material/Consumable:- 300.00.	
6017	ME No.2 PUMP SUCTION PIPE LINE RENEWAL :-  Main engine # 2 gear box hand pump suction pipe line opened, inspected and found damaged. New pipe fabricated, welded, blasted, painted and installed to size - 30mm dia. Hydraulic pipe x 1500mm long. 01 nos bend and hydraulic coupling (02 no.) provided both end.  Pipe fitter /Welder- QRs. 88.00 per hour x 20 hours = QRs. 1,760.00. Material/Consumable:- 300.00.	2,060.00
6018	ME No.2 COOLING PIPE LINE RENEWAL :-  Main engine #2 cooling fresh water pipe line inspected as per navy instruction. Pipe disconnected and shifted to work shop. - 02 Nos. Pipe, blasted painted and refitted. Size - 1 1/4" dia. copper nickel pipe, 1500mm long. Provided with one 90 deg. Elbow and one tee connection. Existing pipe blasted, painted and refitted the same. Size - 1 1/4" dia. Copper nickel pipe, 1.5mm long, with 02 Nos. 90 deg bend and both side coupling.  Pipe fitter :- QRs. 88.00 per hour x 10 hours = QRs. 880.00. Material/Consumable:- 100.00.	980.00
6019	FWD ENGINE HAND PUMP PIPE LINE RENEWAL :-	2,210.00

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Page: 36 / 44

100517

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W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	2 Nos. Fwd. engine room fuel handle pump pipe line disconnected, removed and repaired.	
	Pipe fitter :- QRs. 88.00 per hour x 24 hours = QRs.2,112.00. Material/Consumable:- 98.00.	
6020	A/C STRAINER FABRICATION :-  3 no's strainer filter for AC system fabricated as per sample using following materials. Stainless steel perforated sheet, 1.5mm dia. (Hole dia.- 02 mm) Filter O.D. 135mm. Filter Height - 185mm. Bottom plate size 135mm dia. x 03 mm thickness. - 03 Nos. Caller ring I.D. - 135mm, O.D - 150 mm x 03 mm thickness.- 03 Nos. Total 03 nos filter fabricated, and supplied to vessel.  Pipe fitter/Welder/Machinist :- QRs. 88.00 per hour x 40 hours = QRs.3,520.00. Material/Consumable:- 1,050.00.	4,570.00
6021	COOL ROOM STRAINER FABRICATION :-  2 Nos. strainer filter for cool room fabricated and supplied as per sample using Stainless steel perforated sheet size 1.5mm thickness, 2mm dia holes.) Bottom plate - 75mm dia. x 02mm thickness. stainless steel plate - 02 Nos. Collar I.D. -75mm. O.D. 88mm x 03 mm. 03 mm thickness stainless steel plate.  Pipe fitter/Welder/Machinist :- QRs. 88.00 per hour x 29 hours = QRs.2,552.00. Material/Consumable:- 400.00.	2,952.00

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
6022	ME HEAT CHANGER PIPE LINE RENEWAL :-  Fwd. and Aft. engine room heat exchanger unit , spool pipes opened , new spool pipes manufactured using Stainless steel , material pipes with new SS flanges.  Fwd. engine room existing pipe disconnected and removed. New pipe fabricated, welded and installed.  5" dia. Stainless steel pipe, sch. 80. x 200mm long, with one flange 5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos. drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 03 spool. 5" dia. Stainless steel pipe, sch. 80. x 250mm long, with one flange 5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos. drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 02 spool. 5" dia. Stainless steel pipe, sch. 80. x 350mm long, with one flange 5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos. drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 01 spool.  AFT Engine room Pipe line fabricated. 5" dia. Stainless steel pipe, sch. 80. x 400mm long, with one flange 5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos.	32,490.00

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Page: 38 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 01 spool.	
	5" dia. Stainless steel pipe, sch. 80. x 250mm long, with one flange	
	5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos. drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 01 spool.	
	Material prepared and send for machining.	
	5" dia. Stainless steel pipe, sch. 80. x 400mm long, with one flange	
	5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos. drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 03 spool.	
	5" dia. Stainless steel pipe, sch. 80. x 250mm long, with one flange	
	5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos. drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 01 spool.	
	5" dia. Stainless steel pipe, sch. 80. x 200mm long, with one flange	
	5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos. drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 02 spool.	
	5" dia. Stainless steel pipe, sch. 80. x 300mm long, with one flange	
	5" stainless steel and other side collar flange ( manufactured in machine shop. O.D. 180mm x I.D.135mm, provided with 08 Nos. drill holes, 11mm dia.) Pipe O.D. machined in machine shop to make suitable for cooler. - 01 spool.	

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Page: 39 / 44

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	Pipe fitter/Welder/Machinist :- QRs. 88.00 per hour x 255 hours = QRs. 22,440.00. Material/Consumable:- 10,500.00.	
6023	CHILLER PIPE LEAK REPAIR :-  Chiller cooper nickel pipe leakage area partly repaired and renewed.  Existing pipe disconnected and removed from opposition.BHD plate cut and removed for access. Size - 250mm x 250mm x 5 mm thickness M.S. plate - 1 No. New insert plate fabricated, fitted and welded after completion of pipe work. Insulation panel materials removed and refitted. Approx. size - 500mm x 1000mm. Side panel removed for access - 1000 mm x 500mm - 1 No. Wash basin with tap connection - 1 No. Mirror removed and refitted for access. New pipe fabricated and installed. Copper nickel pipe, 760mm O.D. x 1800mm long and provided with 90 deg. Elbow and one stainless steel flange, 2 ½" dia. - 1 No. Straub coupling 76mm. - 05 Nos. One stainless steel pipe spool fabricated. 2 ½" dia. Sch 80, 380mm long, provided with 02 flanges (2 ½") and one collar flange. O.D. 120mm, I.D. 60mm - 1 No. Sleeve fabricated in machine shop. - I.D. 76mm, O.D. 86mm x 70mm long - 1 No. Size 2 ½" dia. Metal reinforced plastic clear hose installed. - 04 mtr. Copper nickel pipe, 76mm dia. - 2600 mm - 1 No. Copper nickel pipe, 76mm dia. - 1400 mm - 1 No. Ceiling light unit (02 Nos.) removed for access.	29,296.00

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Page: 40 / 44

100517

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EXPENSE A/C:

W/O NO: 21-011158 / 1

W/O REF: MDO21127

Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	Pipe fitter/fabricator/Welder/Machinist/Electrician :- QRs. 88.00 per hour x 292 hours = QRs. 25,696.00. Material/Consumable:- 3,600.00.	
6024	WATER COOLER REPAIR :-  Water cooler total 2 nos, services and maintenance carried out and filters renewed. Water filter set - 04 Nos. 22mm x ¾" connector(Comp.) - 08. Nos. Size 22mm x 15mm reducing bush - 04 Nos. Brass comp. elbow - 15mm - 24 Nos. Copper pipe - 10 mtr. 3mm aluminium rivet - 15 Nos. Brass comp. "Tee" connection. - 02 Nos. Brass gate valve - 1 No. ½" x 15mm straight connector - 1 No. Brass saddle support - 04 Nos. Brass wall mounted elbow 15 x 1/2"- 1 Nos. Size ½ " Cock valve - 1 No. 15mm straight connector - 02 Nos.  Pipe fitter :- QRs. 88.00 per hour x 64 hours = QRs. 5,632.00. Material/Consumable:- 656.00.	6,288.00
6025	TAP RENEWAL :-  Washing sink cold and hot water tap in bath rooms renewed. New tap installed in 08 locations. 02 nos water tap installed in each location. 08 locations - 16 Nos. Using yard supplied water tap.  Pipe fitter :- QRs. 88.00 per hour x 44 hours = QRs. 3,872.00. Material/Consumable:- 2,440.00.	6,312.00

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Page: 41 / 44

100517

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
6026	M.E ROOM COOLING PIPE REPAIR :-  Main engine room , sea water cooling copper nickel pipe leakage pipe Dis connected, shifted to workshop. Copper nickel pipe size 2 ½" dia. 1500mm long. - 1 No. Leaked area partly cut and renewed using 2 1/2" dia. x 300mm long. Existing flange machined in machine shop and refitted the same. All pipe lines and 12" strainer unit disconnected and removed for access and later refitted on completion of work.  Pipe fitter :- QRs. 88.00 per hour x 146 hours = QRs. 12,848.00. Material/Consumable:- 542.00.	13,390.00
7000	ME PREHEATER UNIT SWITCH RENEWAL :-  Job identified. Replaced preheater rotary switch. Tested and found satisfactory.  Electrician :- QRs. 88.00 per hour x 37 hours = QRs. 3,256.00. Material/Consumable:- 70.00.	3,326.00
7001	AFT ER ELECTRICAL SOCKET RENEWAL :-  Job identified. 1 numbers socket renewed as per navy staff instruction.  Electrician :- QRs. 88.00 per hour x 3 hours = QRs. 264.00. Material/Consumable:- 26.00.	290.00

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
7002	GENERATOR SWITCH BOARD REPAIR :-  Electrician provided to inspect and repair the generator with switch panel board.  Electrician :- QRs. 88.00 per hour x 22 hours = QRs. 1,936.00.	1,936.00
7003	ELECTRICAL GENERATOR CONNECTION & DISCONNECTION IN Q CON :-  Electrical power connected at QCON jetty and later disconnected.  Electrician :- QRs. 88.00 per hour x 14 hours = QRs. 1,232.00. Material/Consumable:- 115.00.	1,347.00
7200	CHARGING OF FRESH CHILLED WATER :-  Chilled water system drained and system flushed using fresh water. System filled with 115 liters of Anti-frost coolant using yard supplied coolant. Air released from system, tested and found system working in normal condition.  Electrician:- QRs. 80.00 per hour x 46 hours = QRs.3,680.00. Consumable:- QRs. 1,220.00.	4,900.00
7500	SUPPLY OF MATERIAL :-  Materials supplied as per Navy instruction.  s.steel super clamp - 115mm dia - 4nos Rubber hose - 1 no	6,309.00

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
	P.T.E.F Gland packing 3/4" - 3 nos SS bolt size M36 x 125mm long - 130 nos Hempel paint brown - 160 litres	
8000	CLEANING AND POLISHING OF PROPELLERS :-  4 nos. propeller cleaned and polished with steel cup wire brush at site. Scaffolding erected for access and later removed on completion of the job.  Based on standard schedule of rates, page no. 14 (QRs.1,240.00 per piece x 4 pieces = QRs. 4,960.00).	4,960.00
9000	ELEC. GENERATOR PROVIDE IN Q CON JETTY :-  Electrical Generator provided on hire basis and shifted to QCON Jetty. Dated from 05-08-2021 to 09-08-2021. Generator Hire, Bobilization & Demobilization and supply of diesel.	5,750.00
9100	N.A	
	Note:  Payment as per contract.  Encl:-	

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Vessel Name/Description : NAVY BOAT Q-04 - "BARZAN CLASS" (Contract No: 2347/20)

Job No	Description	Line Amount
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Copy of work completion report.

Invoice Amount --&gt; 1,205,234.60

(QAR - One Million Two Hundred Five Thousand Two Hundred Thirty-Four And 60/100 Only)

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