

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

INVOICE

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012623/2021

DATE: 02/02/2021

EXPENSE A/C:

W/O NO: 20-010881 / 1

W/O REF: MDO 20194

Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	VESSEL ARRIVED : 03-09-2020. VESSEL DOCKED : 03-09-2020. VESSEL UNDOCKED : 22-10-2020. VESSEL SAILED : 22-10-2020.	
1100	BERTH PREPARATION, DOCKING AND UNDOCKING:- Berth prepd, 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 (48 days). Based on standard schedule of rates, page No. 9. (QRs. 2,060.00 per day x 48 days = QRs. 98,880.00).	98,880.00
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 50 days = QRs. 15,500.00). B) Fire line maintained under pressure during period of drydocking (charged for 50 days only), including connection and disconnection. Based on standard schedule of rates, page No. 7. (QRs. 185.00 per day x 50 days + QRs. 255.00 = QRs. 9,505.00).	102,092.50

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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 50 days = QRs. 12,750.00)

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 50 days + QRs. 360.00 = QRs. 44,110.00)

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 50 days + QRs. 255.00 = QRs. 13,005.00).

F) 58.5 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 58.5 tons = QRs. 3,802.50).

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	ULTRASONIC THICKNESS MEASUREMENT:-	7,500.00
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Job No	Description	Line Amount
	500 spots Ultrasonic thickness gauging taken and report issued. Based on standard schedule of rates, page no. 7 (QRs. 15.00 per spot x 500 spots = QRs 7,500.00).	
1151	SCAFFOLDING:- Super structure area scaffolding arranged for access and later removed on completion to size 80 cubic meters. Scaffolder:- QRs. 75.00 per hour x 35 hours = QRs. 2,625.00.	2,625.00
1152	INSULATION:- Insulation work carried out by specialist sub contractor.	17,643.00
1153	DP TEST OF PROPELLER:- 4 nos. propeller DP test carried out and report issued. (QRs. 360.00 per propeller x 4 Propellers = QRs. 1,440.00).	1,440.00
1154	ERFILLING OF CEMENT:- Cement a cut, removed for steel work and refilled on completion of work. Painter:- QRs. 75.00 per hour x 20 hours = QRs. 1,500.00. Consumable:- QRs. 50.00.	1,550.00

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Job No	Description	Line Amount
1200	<p>UNDER WATER A TREATMENT AND PAINTING:-</p> <p>Underwater a an approx. of 560 squ meters treated and painted as follows:-</p> <ul style="list-style-type: none"> - Hand scraped to remove marine growth (QRs. 1,680.00). - H.P. jet washed with fresh water (QRs. 4,480.00). - Blasted to SA 2 using garnet (approx. 40% of a) (QRs. 8,444.80). - Sept to SA1. using garnet remaining a (60% of a.) (QRs.11,793.60). - Hosed down with fresh water (QRs.1,008.00). - Applied with two Coats primer (QRs.3,360.00). - Applied with one coat sealer 45182 -2515 (QRs.1,680.00). - Applied with two coats Hempel hard racing antifouling 7648 - 1999 (QRs.4,200.00). <p>(All paint compositions owner's supplied used).</p>	36,646.40
1201	<p>ABOVE WATER A TREATMENT AND PAINTING:-</p> <p>Topside a an approx. of 440 squ meters treated and painted as follows:-</p> <ul style="list-style-type: none"> - H.P. jet washed with fresh water (QRs. 4,840.00). - New steel as swept using garnet and painted (QRs. 1,100.00). <p>(All paint compositions owner's supplied used).</p>	5,940.00
1202	<p>PAINTING OF DRAUGHT MARKS AND NAME:-</p> <p>Draught marks and names applied with 2 coats Black and White.</p> <p>Based on standard schedule of rates page No. 10.</p> <p>(QRs. 1,550.00 per coat x 2 coats = QRs. 3,100.00).</p>	3,100.00

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Job No	Description	Line Amount
1203	PAINTING OF ENGINE ROOM BLOWER:- Aft and fwd. engine room blower from top of main deck cleaned and painted, Filters opened, removed and renewed as per Navy instruction. (All paint compositions owner's supplied used). Painter:- QRs. 75.00 per hour x 134 hours = QRs. 10,050.00). Consumable:- QRs. 510.00.	10,560.00
1204	CLEANING OF STEERING ROOM:- Steering room cleaned and painted. (All paint compositions owner's supplied used). Painter:- QRs. 75.00 per hour x 65 hours = QRs. 4,875.00). Consumable:- QRs. 510.00.	5,385.00
1205	MAIN DECK TRETMENT AND PAINTING:- Main deck a an approx. 355 squ meters treated and painted as follows. HP Jet washed with fresh water (QRs. 3,905.00). Sept to SA1. using garnet (QRs. 16,614.00). Hose Down with fresh water (QRs. (QRs.816.50). Applied with 1 full coat primer (QRs. 1,242.50). Filler applied at all damaged a (90 Hours x QRs. 75.00 per hour = QRs. 6,750.00).	32,079.25

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Job No	Description	Line Amount
	Applied with 1 full coat primer (QRs. 1,242.50). Applied with anti skid top cot 55210 Grey (QRs. 1,508.75). (All paint compositions owner's supplied used).	
1206	DRAUGHT MARKS:- Included in Job No. 1202.	
1207	TOP OF SEWAGE TANK CLEANING AND APPLY FILLER:- Top of sewage tank cleaned and applied filler as per Navy instruction. (All Paints and filler supplied by yard). Painter:- QRs. 75.00 per hour x 45 hours = QRs. 3,375.00). Consumable:- QRs. 150.00.	3,525.00
1208	CLEANING AND PAINTING OF BLOWER ROOM ON MAIN DECK:- Main deck a Blower door power sanded, cleaned, applied primer and applied with final coat. Door size 2000mm x 1200mm - 05 Nos Rubber Gasket 30mm x 2000mm x 3mm - 10 Nos. Rubber Gasket 30mm x 1200mm x 2mm - 10 nos Painter:- QRs. 75.00 per hour x 104 hours = QRs.7,800.00). Cleaner:- QRs. 48.00 per hour x 45 hours = QRs. 2,160.00). Consumable:- QRs. 200.00.	10,160.00

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Job No	Description	Line Amount
1209	<p>BLASTING AND PAINTING OF STEEL SHEET:-</p> <p>One steel plate size 6000mm x 2000mm x 7mm Thickness blasted and applied with primer.</p> <p>Blaster/Painter:- QRs. 75.00 per hour x 14 hours = QRs.1,050.00).</p> <p>Consumable:- QRs. 100.00.</p>	1,150.00
1210	<p>CLEANING AND PAINTING OF AUX. FWD. ROOM:-</p> <p>Auxiliary fwd. Room cleaned and painted.</p> <p>(All paint compositions owner's supplied used).</p> <p>Painter:- QRs. 75.00 per hour x 80 hours = QRs.6,000.00).</p> <p>Cleaner:- QRs. 48.00 per hour x 23 hours = QRs.1,104.00).</p> <p>Consumable:- QRs. 100.00.</p>	7,204.00
1250	<p>PAINTING OF BILGES:-</p> <p>All bilges remaining water bailed out, cleaned with cotton rags and applied with off white paint 55210 as per Navy instruction. Fwd. below of bathroom at grey water tank a bilges cleaned and applied with black paint.</p> <p>Painter:- QRs. 75.00/hour x 140 hours = QRs. 10,500.00.</p> <p>Cleaner:- QRs. 48.00/hour x 900 hours = QRs. 43,200.00.</p> <p>Consumables:- QRs. 2,000.00.</p>	55,700.00

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Job No	Description	Line Amount
1350	<p>ANCHOR AND CHAINS:-</p> <p>5,300.00</p> <p>Anchors and chain treated and painted as follows. Anchor and Chain Lod, ranged and later restowed, using vessel's windlass (QRs. 1,030.00). Chain full Blasted (QRs. 1,440.00). Chain full painted (QRs. 600.00). Chain shots marked (QRs.410.00). 2 nos Anchors full blasted, applied with one coat Primer and 1 final coat (QRs,600.00 x 2 =1,200.00). All paint compositions yard supplied used using 20 litres aluminium paint 52140-19000 (QRs. 620.00).</p>	
1400	<p>RENEWAL OF SHAFT SEALS:-</p> <p>17,986.00</p> <p>Fwd engine room stbd No:1 Shaft seal found leak, Old seal removed and owner supplied new seal installed. Pipes and angle bars removed for access and later refitted on completion of seal renewal.</p> <p>Mechanic:- QRs. 88.00/hour x 197 hours = QRs. 17,336.00. Consumables:- QRs.650.00.</p>	
1401	<p>STRAINER FILTER:-</p> <p>7,820.00</p> <p>A total of 8 Nos. strainers (Main engine strainer filter size 10"- 4 Nos, Generator engine Stainer filter size 2"- 2 Nos and AC line strainer filter size -2" - 2 Nos.) removed from location, brought to workshop. Strainers chemical cleaned, blasted and painted. Strainers returned to vessel and refitted. Main engine strainer air vent valve ¾" SS ball valve -4 nos fitted on position using yard supplied valves. Strainer clamp</p>	

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Job No	Description	Line Amount
	lock bolt size M10 x 150mm long and nut -5nos supplied by yard. AC and Generator strainer air vent Brass ball valve size ½"dia. -fitted in position with owner's supplied valves. Mechanic:- QRs. 88.00/hour x 80 hours = QRs. 6,400.00. Material/Consumables:- QRs. 780.00.	
1402	OVERHAULING OF SEA SUCTION VALVE:- 4 nos. pipes removed removed for access and later refitted with yard supplied gasket and SS bolt nuts. 2 Nos. Main sea suction gate valve size each DN 40 and 2 Nos. DN 80 gate valve foundation bolts cut removed and Generator sea chest valve 1½" brass ball valve removes from location. Brought to workshop. Ball valve found very bad condition. Client rejected the valve. Yard supplied 1 ½" brass ball valve fitted back on position. Witnessed by Client. Gate valves dismantled, chemical cleaned and buffed. valves reassembled with yard supplied new gland packing and new gaskets. Gravity test carried out, witnessed by owner's representative. Valves shifted to onboard and fitted on position with yard supplied stainless steel bolts and nuts . Mechanic/Pipe fitter:- QRs. 88.00/hour x 96 hours = QRs. 8,448.00. Material/Consumables:- QRs. 2,450.00.	10,898.00
1403	OVERHAULING OF FIRE PUMP SUCTION VALVES:- Following Fire pump suction valves bolts cut, valves removed, brought to work shop, dismantled, overhauled and reassembled	2,017.00

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with yard supplied gland packing.

Valves gravity test carried out witnessed by owner's representative and found no leak. valves returned to vessel and refitted with yard supplied stainless steel bolts nuts and gaskets.

Brass gate valves DN 80 - 2 Nos. (QRs. 335.00 x 1.6 x 2 Nos. = QR. 1,072.00).

DN 40 Gate valve-2 Nos. (QRs. 225.00 x 1.6 x 2 Nos. = QRs. 720.00).

1 No. DN40 butterfly valve removed, inspected and found valve in damaged condition. Owner supplied new valve fitted on position.

(QRs. 225.00).

1404	OVERHAULING OF SHAFT COOLING LINE VALVES:-	1,600.00
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4nos of Tail Shaft gland packing cooling line ball valve-3/8" - 8 nos removed from location and brought to workshop.

Dismantled chemical cleaned and buffed. valves reassembled with yard supplied new gland packing and new gaskets. Gravity test done in presence of owner's representative and found no leakage.

(QRs. 125.00 x 1.6 x 8 Nos. = QRs. 1,600.00).

1405	SHIFTING AND INSTALLATION OF SHAFT PROPELLER:-	6,790.00
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One no of propeller shifted to vessel, shaft a cleaned. Propeller fitted on location by hydraulic oil injection method. Witnessed by owner's representative.

Mechanic:- QRs. 88.00 per hour x 75 Hours = QRs. 6,600.00.

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Job No	Description	Line Amount
	Consumable:- QRs. 190.00	
1406	RENEWAL OF STEERING GLAND PACKING:- Port and Stbd rudder gland packing removed and cleaned. Owner supplied new gland packing size 1"x 8meters long fitted witnessed by Client. Based on standard schedule of rates, page No. 16. (QRs. 820.00 per piece x 2 pcs. = QRs. 1,640.00)	1,640.00
1407	CATHOD PROTECTION:- Job carried out by ship's crews.	
1408	RENEWAL OF JUNIOR A SEA CHEST MANIFOLD SEA SUCTION VALVE:- Job has been cancelled.	
1409	SEA GRIDS:- 9 Nos. sea grids opened, removed, cleaned, washed, painted, sea chest cleaned, washed, painted as per underwater a treatment and painting, and refitted in completion and locked. Based on standard schedule of rates, page no. 19 (QRs. 465.00 per piece x 9 pieces = QRs. 4,185.00).	4,185.00

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Job No	Description	Line Amount
1410	REMOVAL AND REFITTING OF ZINC ANODES:- 11 Nos of zinc anodes in sea chest removed from sea chest and 11 Nos. new anodes fitted. (QRs. 110.00 per piece x 11 pieces = QRs. 1,210.00	1,210.00
1411	A/C SUCTION FILTERS WITH HUOUSING AND MANIFOLD WITH VALVES:- 3 Nos. A/C suction filters with housing and manifold details as follows. Butterfly valves size DN125-1 no. and DN100 -3 Nos. opened from bottom, brought to workshop, blasted, cleaned and painted. Valves overhauled and repaired. Gravity test was carried out and found no leakage witnessed by owner's representative. Valves strainers and manifolds shifted on board vessel and refitted, connected as per Navy instruction. Mechanic:- QRs. 88.00 per hour x 72 hours = QRs. 6,336.00. Consumable:- QRs. 260.00.	6,596.00
1412	PROPELLER SHAFT CLEARANCE BETWEEN THE SHAFT AND CUTLASS BEARING:- All the 4 nos. propeller shafts clearance between the shafts and cutlass bearing checked and report issued. Based on standard schedule of rates, page No.13. (QRs. 620.00 per piece x 4 pieces = QRs. 2,480.00)	2,480.00

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Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012623/2021

DATE: 02/02/2021

EXPENSE A/C:

W/O NO: 20-010881 / 1

W/O REF: MDO 20194

Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
1413	<p>RENEWAL OF FIRE HYDRANT VALVE:-</p> <p>6 Nos. Fire hydrant ball valve size each 2" dia. removed and brought to workshop. valves chemical cleaned and buffed. 2 Nos. valves body and teflon seats found in damaged condition and 2 Nos. valves body leaking condition. 2 Nos. valves balls and Teflon seats fabricated by yard. 2 Valves found in good condition. Valves chemical cleaned and buffed. Valves gravity tested. All the 6 Nos. valves send to onboard vessel and fitted back in position.</p> <p>Mechanic /Machinist:- QRs. 88.00 per hour x 94 Hours = QRs. 8,272.00.</p> <p>Material/Consumable:- QRs. 1,200.00.</p>	9,472.00
1414	<p>RENEWAL OF PORT AND STBD. SIDE OUTER TAIL SHAFT COOPER BEARING:-</p> <p>Port and stbd. outer tail shaft cooper bearings 02B12SME removed. Found in damaged condition. Shaft dia 125mm. Navy supplied new bearings fitted in position as per Navy instruction.</p> <p>Mechanic:- QRs. 88.00 per hour x 26 Hours = QRs. 2,288.00.</p> <p>Consumable:- QRs. 25.00.</p>	2,313.00
1415	<p>RENEWAL OF DISCHARGE VALE FOR COOL ROOM:-</p> <p>1 No. cool room discharge brass SDNR valve size 1" opened and found damaged. Yard supplied 1"brass SDNR valve fitted on position.</p> <p>Following sea water valves, removed, brought to work shop</p>	6,032.00

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Job No	Description	Line Amount
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overhauled and refitted.

Size 3" dia. diaphragm Valve - 4 Nos.

Size 1" dia. diaphragm Valve - 4 Nos.

Size 1 1/2" dia. diaphragm Valve -1No.

Size 1" dia. SDNR valve A/C overboard valve removed from steering room, brought to work shop, overhauled and hand over to owner. Owner's supplied valve fitted in position.

Size 2 1/2" dia. butterfly valve(Fire line valve) -1no removed from steering room, brought to work shop, overhauled and hand over to owner. Owner's supplied valve fitted in position.

Mechanic:- QRs. 88.00 per hour x 64 Hours = QRs. 5,632.00.

Material/Consumable:- QRs. 400.00.

1416 REPAIR OF DISCHARGE VALVE:-

6,648.00

Grey water over board gate valve DN 40-1no; Cold room Over board SDNR valves 1"-4nos ; Bulk head sea water line gear operated NRV valve DN 40- 1no; Fire pump vent head overboard valve DN 40 ball valve-1no; Generator overboard 1" 90 degree angle valves-3nos; R/O overboard valves 1"straight valve - 3nos. removed and brought to workshop. Cleaned and buffing done. After inspection of client fitted back on location.

Mechanic:- QRs. 88.00 per hour x 71Hours = QRs. 6,248.00.

Consumable:- QRs. 400.00.

1417 OVERHAULING OF GALLEY FIRE LINE VALVE:-

2,764.00

Galley fire line valve 50mm -4no removed brought to workshop. two no of valve body and Teflon sheet and balls found damaged. Yard fabricated 2nos of ball, two nos of Teflon sheets, Two no

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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of valve bodies. Other two no of valves chemical cleaned ,buffed and overhauled. After inspection valves sent to on-board and fitted on position. Witnessed by client.

Mechanic/Machinist:- QRs. 88.00 per hour x 28Hours = QRs. 2,464.00.

Material/Consumable:- QRs. 300.00.

1418	REPAIR OF FWD. ENGINE ROOM FIRE LINE VALVE:-	2,610.00
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Fwd. and aft engine room fire line valve 2" brass ball valve -2 Nos. removed and brought to workshop . Dismantled valve seat and ball found damage condition. Valve assembled with yard fabricated 2nos of Teflon sheets and 1 No. 2" dia. brass ball. valves tested and found No leaks. Witnessed by client. After inspection valve fitted back on position with yard supplied SS bolt nuts.

Mechanic/Machinist:- QRs. 88.00 per hour x 20Hours = QRs. 1,760.00.

Material/Consumable:- QRs. 850.00.

1419	FREEING OF STABILIZER:-	2,292.00
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Stabilizer stbd side freed by installing yard supplied new grease nipples and pumped grease through the nipples. Witnessed by client.

Mechanic:- QRs. 88.00 per hour x 24Hours = QRs. 2,112.00.

Consumable:- QRs. 180.00.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
1420	<p>FREEING OF STABILIZER OVERBOARD VALVE:-</p> <p>Stabilizer overboard 1"-SDNR valve -1no removed and brought to workshop. Dismantled, chemical cleaning and buffing done. Assembled and carried out gravity test witnessed by client. Valve fitted in position.</p> <p>Mechanic:- QRs. 88.00 per hour x 6Hours = QRs. 528.00. Consumable:- QRs. 50.00.</p>	578.00
1421	<p>MAIN ENGINE BUTTERFLY VALVE:-</p> <p>8nos of main engine sea water suction butterfly valve DN10 cleaned and open close checked in place and carried out gravity pressure test. No leaks found witnessed by client.</p> <p>Mechanic:- QRs. 88.00 per hour x 26Hours = QRs.2,288.00. Consumable:- QRs.150.00.</p>	2,438.00
1422	<p>OVERHAULING OF D/G MAIN SEA SUCTION VALVE:-</p> <p>D/G main sea suction valve (gate valve DN 40) 3 nos removed and brought to workshop. Dismantled and chemical cleaning and buffing done. Gravity test done no leaks found. Witnessed by client.</p> <p>(QRs. 225.00 x 3 Nos. x 1.6 = QRs. 1,080.00).</p>	1,080.00
1423	<p>OVERHAULING OF FIRE PUMP SEA CHEST VALVE:-</p> <p>2 nos. fire pump sea chest gate valve DN 40 inspected and</p>	720.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	removed from location brought to workshop dismantled and chemical cleaned buffing done. Assembled with yard supplied new gland packing and gaskets. Fitted back in position. Witnessed by client. (QRs. 225.00 x 2 Nos. x 1.6 = QRs. 720.00).	
1424	OVERHAULING OF MOTORIZED SEWAGE VALVE:- Motorize sewage Brass ball valve DN 65-2nos removed and brought to workshop inspected, cleaned and overhauled as per Navy instruction. After client inspection valves refitted on position. (QRs. 285.00 x 2 Nos. x 1.6 = QRs. 912.00).	912.00
1425	PORT AND STBD. STABILIZER:- Stabilizer port and stbd. side removed lock pin and manual operation was checked as per Navy instruction. Stbd side freed by turning tool. Port side cannot be freed by turning tool and tried with chain blocks. Also not freed. As per Navy instruction yard removed port side stabilizer unit completely. For Access sea water pipe lines and hydraulic pipelines and angle bars removed. After completion of the job installed back. Stabilizer shaft Bush found in damaged condition, as per Navy instruction damaged bush removed. Navy supplied new shaft bush installed. Stabilizer installed in position with Navy supplied gland packing and yard supplied new foundation bolts. Mechanic:- QRs. 88.00 per hour x 361Hours = QRs. 31,768.00. Material/Consumable:- QRs. 1,565.00.	33,333.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
1426	OVERHAULING OF DISCHARGE VALVE:- 2 Nos. 2" dia. flap valve removed from accommodation a and brought to workshop. Valves dismantled and chemical cleaned and buffed. valves reassembled with yard supplied new gland packing and new rubber gaskets, bolt & nuts. Valves shifted to on-board and refitted back in position. Witnessed by owner's representative. (QRs. 225.00 x 2 Nos. x 1.6 = QRs. 720.00).	720.00
1427	HYDRAULIC RUBBER HOSE:- Job has been cancelled.	
1428	REPAIR OF LINKAGE OF VALVES:- 10 Nos. valve linkages fwd. engine room checked, repaired, operated, greased. Mechanic:-QRs. 88.00 per hour x 43 hours = QRs. 3,784.00. Consumable:- QRs. 66.00.	3,850.00
1429	RENEAL OF FIRE PUMP GAUGE AND NON RETURN VALVE:- Fire pump one gauge found not working yard supplied 16 Bar pressure gauge-1no and fitted in position Non-return valve 1/2"-2nos found damaged, yard supplied 1/2"NRV valve-2 nos. and installed in position.	4,276.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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Mechanic:- QRs. 88.00 per hour x 42 hours = QRs. 3,696.00.

Material/Consumable:- QRs. 580.00.

1800	REPAIR OF SKY HATCH:-	74,422.00
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Port and stbd. side sky hatch opened, removed, inspected, shifted to work shop, repaired, cleaned and painted, fitted back in position with new silicon as per navy instruction. Stbd side Sky hatch over all size - 3980mm X 1180mm. Damaged hatch coaming cut and renewed using aluminium flat bar size 10250mm x 38mm x 8 mm thickness. Rubber beading replaced to size 40mm x 20mm x 10350mm long Rubber glue and sika flex applied.

Port side Sky hatch over all size 3980mm x 1180mm. Damaged hatch coaming cut and renewed using aluminium flat bar size 10250mm x 38mm x 8 mm thickness.

Rubber beading replaced size 40mm x 20mm x 10350mm long Rubber glue and sika flex applied.

Sky hatch landing a damaged steel cut and renewed using following sections.

M.S. Plate size 250mm x 90mm x 8mm thickness -1 No.

M.S. Plate size 85mm x 50mm x 10mm thickness - 5 Nos.

M.S. Plate size 950mm x 60mm x 8 mm thickness - 1 No.

M.S. Plate size 1000mm x 60mm x 8mm thickness - 1 No.

M.S. Plate size 1400mm x 60mm x 8 mm thick - 1 No.

M.S. plate size 150mm x 20mm x 8mm thickness - 1 No."

"M.S. coaming plate (upper plate) size 1950mm x 65mm x 8mm thickness - 1 No.

M.S. coaming plate (lower plate)-350mm x 60mm x 8mm thickness- 2 Nos.

Fabricator:-QRs. 88.00 per hour x 780 Hours = QRs. 68,640.00.

Material/Consumable:- QRs. 5,782.00.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
1801	ROPE GUARD:- 4 nos. rope guard cut removed using grinding machine. Rope guards refitted after completion of cleaning and painting. Fabricator:-QRs. 88.00 per hour x 32 Hours = QRs. 2,816.00. Consumable:- QRs. 184.00.	3,000.00
1802	FREEING OF ANCHOR SWIVEL:- Anchor swivel freed by heating and hammering. Fabricator:- QRs. 88.00 per hour x 14 Hours = QRs. 1,232.00. Consumable:- QRs. 68.00.	1,300.00
1803	REPAIR OF STBD. SIDE KEEL PLATE:- Forward stbd. Side damaged keel plate cropped and renewed to size 600mm x 80mm x 6mm thickness - 1 No. Fabricator/Welder:- QRs. 88.00 per hour x 99 Hours = QRs. 8,712.00. Consumable:- QRs. 136.00.	8,848.00
1804	REPAIR OF STBD. SIDE E/R AREA:- Stbd. side aft E/R two locations holed and thinned a steel plates renewed as follows. Below generator area steel renewal:-	78,807.00

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Job No	Description	Line Amount
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Insert plate size 1030mm x 1560mm x 6 mm thickness - 1 No.
 Insert plate size 1400mm x 80mm x 6 mm thickness - 4 Nos.
 Insert plate size 700mm x 80mm x 6 mm thickness - 3 Nos.
 Insert plate size 800mm x 300 mm x 6 mm thickness - 1 Nos.
 Insert plate size 750mm x 300mm x 6 mm thickness- 1 NO.
 Insert plate size 300mm x 300mm x 6 mm thickness - 1 No.
 Insert plate size 800mm x 80mm x 6 mm thickness - 1 No.
 Stainless steel foundation bolt and nut for engine cooler size
 M 12 x 50mm long - 4 Nos.
 Steel renewal under Muffler a:-
 Insert plate size 1370mm x 1360mm x 6 mm thick. - 1 No.
 Insert plate size 1000mm x 600mm x 6 mm thickness - 1 No.
 Insert plate size 600mm x 370mm x 6 mm thickness.
 Accommodation Bulkhead insert In way of engine room:-
 Insert plate size 1200mm x 220mm x 6 mm thickness - 1 No.
 Insert plate size 1250mm x 300mm x 6 mm thickness - 1 No."
 "Insert plate size 1100 mm x 80mm x 6mm thickness - 1 No.
 Insert plate size 1240mm x 80mm x 6 mm thickness - 1 No.
 Insert plate size 815mm x 80mm x 6mm thickness - 1 No.
 Insert plate size 835mm x 80mm x 6mm thickness - 1 No.
 M.S. Angle bar renewed to size 40mm x 40mm x 5mm thickness -
 4200mm long - 1 No.
 M.S. plate renewed to size 150mm x 80mm x 8 mm thickness - 1 No.
 M.S. bracket size 145mm x 120mm x 8mm thickness - 1 No.
 Flange plate size 230mm x 20mm x 8mm thickness - 1 No.
 Bracket renewed size 180mm x 125mm x 6 mm thickness - 6 Nos.
 M.S. plate size 185mm x 90mm x 8mm thickness - 1 No.
 M.S. Plate size 260mm x 125mm x 6mm thickness - 1 No.
 M.S plate size 420mm x 75mm x 6 mm thickness - 1 No.
 M.S Plate size 590mm x 65mm x 6 mm thickness - 1 No.
 plate size 270mm x 80mm x 6mm thickness - 1 No.
 Back strip plates size 6000mm x 35mm x 6 mm thickness -1 No.

Fabricator/Welder:- QRS. 88.00 per hour x 849 Hours = QRS.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	74,712.00. Material/Consumable:- QRs. 4,095.00.	
1805	REPAIR OF AFT BOAT CORNER:- Aft port and stbd. side corner thinned plates cut and renewed. Port side MS plate size 430mm x 230mm x 5 mm thickness - 1 No. Stbd side M.S. Plate size 510mm x 425mm x 5 mm thickness - 1 No. M.S. Plate size 450mm x 340mm x 5 mm thickness - 1 No. Scaffolding arranged for access and later removed on completion of repair works. Fabricator/Welder:-QRs. 88.00 per hour x 71 Hours = QRs. 6,248.00. Scaffolder:- QRs. 75.0 per hour x 36 hours = QRs. 2,700.00. Material/Consumable:- QRs. 300.00.	9,248.00
1806	REPAIR OF PORT SIDE SHELL PLATE FROM BOTTOM NEAR KEEL:- Port side shell plate near to keel plate renewed to size 610mm x 375mm x 6mm thickness - 1 No. Fabricator/Welder:-QRs. 88.00 per hour x 99 Hours = QRs. 8,712.00. Consumable:- QRs. 210.00.	8,922.00
1807	RENEWAL OF KEEL SIDE SHELL PLATE:- Keel side shell plate renewed. plate size 1080mm X 395mm X 6mm thick. - 01 No.	12,750.00

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W/O REF: MDO 20194

Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	<p>M.S. plate size 400mm X 30mm X 8mm thick. - 01 nos. (Back strip) - 2 Nos.</p> <p>M.S. plate size 1100mm X 30mm X 8mm thick. - 01 No. (Back strip) - 01 nos.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 143 Hours = QRs. 12,584.00.</p> <p>Consumable:- QRs. 166.00.</p>	
1808	<p>RENEWAL OF STBD. SIDE AFT PLATE ABOVE WATER AREA:-</p> <p>Stbd. side aft thinned plate above water a renewed to size 500mm x 420mm x 6 mm thickness - 1 No.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 63 Hours = QRs. 5,544.00.</p> <p>Consumable:- QRs. 100.00.</p>	5,644.00
1809	<p>FABRICATION OF RADAR ANTENNA BASE :-</p> <p>Foundation base aluminium materials cut to side and kept in work shop. using yard supplied materials.</p> <p>Size 1000mm dia. x 20mm thickness aluminum plate, provided with 06 drill holes - 1 No.</p> <p>Size 270mm x 325mm x 10mm thickness aluminum plate (04 holes) - 01 nos.</p> <p>Size 180mm X 12 mm thickness Aluminum plate, 1480mm long - 01 nos.</p> <p>Size 250mm X 925mm X 12 mm thickness aluminum bracket plate - 04 nos.</p> <p>Size 700mm X 570mm X 12 mm thickness- 01 No.</p> <p>Size 200mm X 1200mm X 12 mm thickness - provided with sloat</p>	10,450.00

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for QATAR NAVIGATION (Q.S.C)

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012623/2021

DATE: 02/02/2021

EXPENSE A/C:

W/O NO: 20-010881 / 1

W/O REF: MDO 20194

Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	<p>hole in both ends (20mm dia. X 185 mm long) - 1 No. Aluminum foundation frame. 700mm X 325mm. X 12 mm thickness.</p> <p>Fabricator/CNC operator:- QRs. 88.00 per hour x 50 Hours = QRs. 4,400.00. Materials:- QRs. 6,050.00</p>	
1810	<p>REPAIR OF MID SHIP:-</p> <p>Mid ship stbd. side small doubler a inserted necessary stiffeners renewed size as follows. MS Plate size 630mm x 590mm x 5mm thickness - 1 No. M.S. Plate size 320mm x 630mm x 5mm thickness - 1 No. M.S. Flat bar size 80mm x 6 mm thickness x 390mm long - 2 Nos. M.S. Flat bar size 80mm x 6 mm thickness x 200mm long - 1 No. M.S. Flat bar size 75mm x 6 mm thickness x 110mm long - 3 Nos. M.S. Flat bar size 80mm x 6 mm thickness x 390mm long - 2 Nos. M.S. Flat bar size 80mm x 6 mm thickness x 1200mm long - 1 Nos. M.S. plate (for Bhd.) size 700mm x 250mm x 6mm thickness - 1 No. Scaffolding arranged at one location and later removed on completion of steel repair works.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 126 Hours = QRs. 11,080.00. Scaffolder:- QRs. 75.00 per hour x 18 hours = QRs. 1,350.00. Consumable:- QRs. 391.00.</p>	12,821.00
1811	<p>RENEWAL OF MAIN ENGINE EXHAUST DOUBLER PLATE:-</p> <p>Port and stbd main engine exhaust overboard doubler rings renewed to size each 550mm OD x 320mm ID.</p>	9,380.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	<p>36 cubic meters scaffolding arranged for access and later removed on completion of works.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 95 Hours = QRs. 8,360.00.</p> <p>Scaffolding:- QRs. 25 per cubic meter x 32 cubic meter = QRs. 800.00.</p> <p>Consumable:- QRs. 220.00.</p>	
1812	<p>RENEWAL OF FRESH WATER PUMP FOUNDATION BASE:-</p> <p>Damaged Fresh water pump foundation base renewed using following sections.</p> <p>M.S. Plate size 170mm x 60mm x 20mm thickness provided with 2 Nos. drill holes. - 2 Nos.</p> <p>M.S. Plate size 170mm x 60mm x 12mm thickness provided with two nos. drill holes - 2 Nos.</p> <p>Stainless steel bolt size M8 x 50mm long with washer & nut supplied and fitted - 8 Nos.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 65 Hours = QRs. 5,720.00.</p> <p>Consumable:- QRs. 100.00.</p>	5,820.00
1813	<p>U ROUND BAR FOR ANCHOR:-</p> <p>2 Nos. 'U' round bar welded with both anchors as per Navy instruction size 60mm height, 50mm width using 16mm dia. round bar.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 11 Hours = QRs. 968.00.</p>	1,018.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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Consumable:- QRs. 50.00.

1814	RENEWAL OF PORT AND STBD. FWD. A SHELL PLATE:-	82,450.00
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Stbd. forward a corroded shell plates along with internals cut and renewed.

Side shell insert plate size 2545mm x 1275mm x 6 mm thickness - 1 No.

Bracket size 300mm x 125mm x 6 mm thickness - 10 Nos.

Internal stiffener plates size 510mm x 310mm x 6mm thickness - 1 No.

Insert plate size 1200mm x 475mm x 6 mm thickness - 2 nos.

Plate size 1110mm x 600mm x 6 mm thickness - 1 No.

M.S. Flat bar size 600mm x 80mm x 6 mm thickness - 6 Nos.

M.S. flat bar size 1610mm x 80mm x 6 mm thickness - 2 Nos.

M.S. flat bar size 750mm x 70mm x 6 mm thickness - 2 Nos.

M.S. flat bar size 100mm x 70mm x 6 mm thickness - 1 No.

M.S. flat bar size 400mm x 70mm x 6 mm thickness - 2 Nos.

M.S. flat bar size 650mm x 70mm x 6 mm thickness - 1 No.

M.S. flat bar size 800mm x 40mm x 6 mm thickness - 1 No.

M.S. flat bar size 300mm x 80mm x 6 mm thickness - 1 No.

M.S. flat bar size 125mm x 80mm x 6 mm thickness - 1No.

Scaffolding arranged for access and later removed on completion of repair works.

Port side shell plates along with internals cut and renewed.

Insert plate size 1080mm x 1270mm x 6 mm thickness - 1 No.

M.S. flat bar size 1410mm x 80mm x 6 mm thickness - 1 No.

M.S. flat bar size 1100mm x 80mm x 6 mm thickness - 1 No.

M.S. flat bar size 900mm x 80mm x 6 mm thickness - 2 nos.

M.S. flat bar size 100mm x 80mm x 6 mm thickness - 1 No.

M.S. flat bar size 825mm x 70mm x 6 mm thickness - 1 No.

M.S. flat bar size 560mm x 80mm x 6 mm thickness - 1No.

M.S. flat bar size 360mm x 70mm x 6 mm thickness - 1 No.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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M.S. Bracket size 300mm x 130mm x 8mm thickness - 1 no.
Girder frame plate size- 1300mm x 470mm x 6mm thickness
Scaffolding arranged for access and later removed on completion of repair works.

Fabricator/Welder:-QRs. 88.00 per hour x 883 Hours = QRs.

77,704.00.

Scaffolding:- QRs. 750.00x 2 Nos. = QRs. 1,500.00.

Material/Consumable:- QRs. 3,246.00.

1815	REPAIR OF GRAY WATER TANK:-	17,000.00
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Gray water tank disconnected, removed, shifted to workshop damaged steel renewed using following sections.

Insert plate size 1100mm x 400mm x 6mm thickness - 1 No.

Tank Bottom plate size 1200mm x 490mm x 6mm thick - 1 No.

Floor Plate removed and refitted to size 170mm x 650mm x 6mm thickness - 1 No.

Deck stiffener size 680mm x 90mm x 6 mm thickness - 4 Nos.

Pipe line header base plate size 990mm x 300mm x 8 mm thickness provided with 12 Nos. x 16mm dia. holes - 1 No.

M.S. Plate size 1150mm x 490mm x 6mm thickness - 1 No.

M.S. Angle bar size 75mm x 75mm x 6 mm thickness x 1325 mm long - 1 No.

M.S. Angle bar size 50mm x 50mm x 6 m thickness x 860 mm long - 1 No.

All pipe lines to tank removed for access. Tank blasted, painted and refitted. Scaffolding - 03 Mtr X 04 Mtr X 01 Mtr - 01 nos. Carried out gravity test.

Tank cleaned and refitted.

Fabricator/Welder:-QRs. 88.00 per hour x 150 Hours = QRs.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	13,200.00. Blaster/Painter/Scaffolder:- QRs. 75.00 per hour x 48 hours = QRs. 3,600.00. Consumable:- QRs. 200.00.	
1816	REPAIR OF PORT SIDE ENGINE ROOM HOLED AREA:- Port side aft engine room holed a following sections renewed. Bottom insert plate size 750mm x 550mm x 7mm thickness - 1 No. Flat bar size 80mm x 6 mm thickness x 650mm long - 1 No. Flat bar size 80mm x 6 mm thickness x 800mm long - 1 No. Flat bar size 80mm x 6 mm thickness x 825mm long - 1 No. Flat bar size 70mm x 6 mm thickness x 220mm long - 1 No. Angle support for pipe line size 40mm x 40mm x 4 mm thickness x 100mm long - 1 No. Scaffolding arranged for access and later removed on completion. 2 Nos. pipe lines removed for access and later Internal damaged plates cut and renewed using following sections. M.S. Flat bar size 80mm x 400mm x 6 mm thickness - 3 No. Main frame girder insert plate size 150mm x 1000mm x 5 mm thickness - 1 No. 3 nos. pipe lines for access and later refitted. Fabricator/Welder/Pipe fitter:- QRs. 88.00 per hour x 227 hours = QRs. 19,976.00. Scaffolder:- QRs. 75.00 per hour x 10 hours = QRs. 750.00. Consumable:- QRs. 874.00.	21,600.00
1817	MODIFICATION OF SEA CHEST:-	6,964.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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Sea chest for A/C suction line enlarged and modified with new sea grids as follows.

New sea chest frame size 740mm x 550 mm x 16 mm thickness provided with 18 Nos. drilled and tapped holes, stainless steel bolt size M 10 x 50mm long - 18 nos.

Cover size 690mm x 495mm x 06mm thickness plate provided with 12mm dia' x 18 nos drill holes.

Flat bar size 680mm x 20mm x 10 mm thickness - 13 Nos.

Fabricator/welder:- QRs. 88.00 per hour x 78 hours = QRs. 6,864.00.

Consumable:- QRs. 100.00.

1818 RENEWAL OF GREY WATER PITTING AREA:-

Gray water tank's wasted plates cut and renewed to size 1170mm x 645mm x 6mm thickness - 1 No.

M.S. Plate 680mm x 90mm x 6mm thickness - 4 Nos.

Angle bar size 50mm x 50mm x 6 mm thickness x 860mm long - 1 No.

Included in Job No. 1815.

1819 REPAIR OF MAIN DECK HOLE AREA:-

4,100.00

Main deck hole area welded and repaired.

Welder:- QRs. 88.00 per hour x 46 hours = QRs. 4,048.00.

Consumable:- QRs. 52.00.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
1820	<p>PRESSURE TESTING OF TANK:-</p> <p>Fwd. centre fuel tank, pressure tested and report issued. Following materials used for testing. Blind Plate size 150mm OD x 10 mm thickness provided with 4 Nos. drill holes. Blind Plate size 115mm x 06 mm thickness provided with 04 Nos. x 14mm dia. drill holes. Blind Plate size 165mm x 06 mm thickness provided with 4 Nos. x 14mm dia. drill holes. Stainless steel Bolt size M16 x 50 mm long - 16 Nos Stainless steel Bolt size M16 x 60 mm long - 08 Nos. Stainless steel Bolt size M12 x 60 mm - 4 Nos.</p> <p>Fabricator/Welder/machinist:- QRs. 88 per hour x 100 hours = QRs. 8,800.00. Materials:- QRs. 250.00.</p>	9,050.00
1821	<p>FABRICATION OF MANUAL HANDLE:-</p> <p>2 Nos. 'U' round bar welded with both anchors as per Navy instruction to size 60mm height x 50mm width using 16mm dia. round bar.</p> <p>Included in Job No. 1813.</p>	
1822	<p>REPAIR OF MAIN DECK WAVE BREAKER:-</p> <p>Main deck fwd. wave breaker damaged plates stiffeners cut, removed and following sections fabricated and welded. M.S.Bulbbar size 80mm x 6 mm thickness x 500 mm long - 1 No. M.S.Bulbbar size 80mm x 6 mm thickness x 320 mm long - 1 No.</p>	4,977.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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Deck insert plate size 200mm x 250mm x 6 mm thickness - 1 No.
 Wave breaker steel insert size 200mm x 130mm x 6 mm thickness - 1 No.
 Bracket size 170mm x 130mm x 06 mm thickness and 50mm flange plate. - 1 No.
 Bracket size 300mm x 260mm x 6 mm thickness and 50mm flange plate. - 1 No.
 bracket size 150mm x 210mm x 6 mm thickness and 50mm flange plate. - 1 No.

Fabricator/Welder:- QRs. 88 per hour x 54 hours = QRs. 4,752.00.

Consumable:- QRs. 225.00.

2200 REPAIR OF SIDE BLOCKS:-

Job has been cancelled.

2201 REMOVAL AND REFITTING OF BLOCKS:-

Job has been cancelled.

2202 RENEWAL OF WOODEN BASE FOR SMALL BOAT:-

1,000.00

Small boat's wooden base rubber sheet renewed.

Carpenter:- QRs. 75.00 per hour x 12 hours = QRs. 900.00.

Consumable:- QRs. 100.00.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
2250	REPAIR OF TAIL SHAFT COUPLING FIBER GLASS:- 4 Nos. tail shaft coupling applied fibre Glass coating. Fiberglass technician:- QRs. 75.00 per hour x 48 hours = QRs. 3,600.00. Consumable:- QRs. 300.00.	3,900.00
2400	CLEANING OF FUEL OIL TANKS :- 8 Nos. manholes opened and later refitted with yard supplied new gaskets, 4 Nos. Fuel tanks gas freed, remaining oil bailout and 4 Tons waste oil disposed. Tanks full scrapped and cleaned with cotton rags. 30 Nos. new stainless steel nuts size each M12. Cleaning QRs:- 2,500.00 per tank x 4 tanks = QRs. 10,000.00. Disposal of waste oil:- QRs. 2,000.00.	12,000.00
2401	CLEANING OF DIRTY OIL TANKS:- Dirty oil tank manhole opened, gas freed and cleaned with cotton rags. Manholes boxed up with new gasket. Cleaner:- QRs. 48.00/hour x 40 hours = QRs. 1,920.00. Consumables:- QRs. 220.00.	2,140.00
2402	CLEANING OF LUBE OIL TANKS:-	1,540.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	<p>Lube oil tank manhole opened, Gas freed, Remaining oil pump out, transfer to empty drum Full Cleaned with cotton rags And refill in completion of cleaning and manhole boxed up.</p> <p>Cleaner:- QRs. 48.0 per hour x 30 hours = QRs. 1,440.00. Consumable:- QRs. 100.00.</p>	
2403	<p>CLEANING AND COATING OF FRESH WATER TANKS :-</p> <p>Fresh water tank remaining water bailed out, cleaned and coated with yard supplied white cement, two nos. manholes opened and re boxed in completion of tank work.</p> <p>Painter:- QRs. 75.00/hour x 58 hours = QRs. 4,350.00. Cleaner:- QRs. 48.00/hour x 65 hours = QRs. 3,120.00. Consumables:- QRs. 710.00.</p>	8,180.00
2500	<p>POLISHING OF SS TAIL SHAFT:-</p> <p>4 nos. SS tail shaft cleaned, washed and polished with cup wire brush in situ.</p> <p>Machinist:- QRs. 88 per hour x 24.5 hours = QRs. 2,156.00. Consumable:- QRs. 84.00.</p>	2,240.00
2501	<p>MANUFACTURE OF ZINC ANODES:-</p> <p>11 in nos. zinc anodes manufactured as per sample to size each 140mm x 140mm x 50mm thickness provided with 11 dia. drill hole and 32mm dia countersunk for sea chest a.</p>	3,454.00

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012623/2021

DATE: 02/02/2021

EXPENSE A/C:

W/O NO: 20-010881 / 1

W/O REF: MDO 20194

Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	<p>Machinist:- QRs. 88.00/hour x 23 hours = QRs. 2,024.00. Material + Consumables:- QRs. 1,430.00.</p>	
2502	<p>MANUFACTURE OF DIESEL GENERATOR EMERGENCY SEA WATER SUPPLY BRASS FITTING:-</p> <p>2 Nos. Diesel generator emergency sea water supply brass fittings manufactured as per sample to size each 72mm OD x 127mm long provided both side with 1 3/4" x 14mm long BSP thread.</p> <p>Machinist:- QRs. 88.00/hour x 19 hours = QRs. 1,672.00. Material + Consumables:- QRs. 726.00.</p>	2,398.00
2503	<p>MANUFACTURE OF ADAPTOR:-</p> <p>2 nos. brass adaptor manufactured as per sample as per client instruction to size each 36mm hex bar x 50mm long provided both end with 3/4 x 14mm long BSP thread with 13mm ID, 30 degree.</p> <p>Machinist:- QRs. 88.00/hour x 4 hours = QRs. 352.00. Material + Consumables:- QRs. 68.00.</p>	420.00
2504	<p>FABRICATION OF TOOL:-</p> <p>2 Nos Tool fabricated for move the stabilizer with socket as per Navy information using following materials. 35mm OD x 60mm long provided one end with 17mm squ x 20mm long female thread and other end with 24mm hex x 25mm long male thread using 40mm dia. bright steel round bar Stainless eel taper pin major OD 21.2mm, minor 20.2mm and 87mm</p>	1,043.00

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W/O REF: MDO 20194

Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	long, with 29mm OD x 30mm long head, 19mm hex 15mm long and 16mm diameter 10mm long. with two holes. Machinist:- QRs. 88.00/hour x 10 hours = QRs. 880.00. Material + Consumables:- QRs. 163.00.	
2505	MANUFACTURE OF SS PIN:- 2 Nos stainless steel taper pins manufactured as per sample to size each 7mm major OD x 4.7mm minor OD x 50mm long. 2 Nos. stainless-steel washers manufactured to size each 16mm OD x 7mm ID x 3mm thickness. Washer welded at taper pin's major OD. Machinist:- QRs. 88.00/hour x 5 hours = QRs. 440.00. Material + Consumables:- QRs. 20.00.	460.00
2506	MANUFACTURE OF BRASS FLANGE:- 2 Nos. brass hydrant valves fitting manufactured to suit to new hydrant valve and flange hole to match exits hole on board size 150mm dia. x 65mm long. Machinist:- QRs. 88.00/hour x 16 hours = QRs. 1,408.00. Material + Consumables:- QRs. 1,300.00.	2,708.00
2507	MANUFACTURE OF GREASE NIPPLE:- 8 Nos. stainless steel hexagonal adaptor manufactured to size each 1/2" dia. x 37mm long provided one end 1/8" BSP male thread and another side 1/8" BSP female thread for grease	904.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	<p>nipple of exhaust butterfly valve.2 nos. brass 16mm hexagonal grease adaptor manufactured for stabilizer to size 62mm one side 1/8"BSP male thread and another side 1/8"BSP female thread as per Navy instruction.</p> <p>Machinist:- QRs. 88.00/hour x 8 hours = QRs. 704.00. Material + Consumables:- QRs. 200.00.</p>	
5050	<p>REPAIR OF EXHAUST FLAPS FOR MAIN ENGINES AND GENERATORS:-</p> <p>8 Nos. Exhaust flaps for main engines and generators inspected, greased and operated as per Navy instruction. New grease nipples fitted.</p> <p>Mechanic:- QRs. 88.00/hour x 41 hours = QRs. 3,608.00. Material + Consumables:- QRs. 10.00.</p>	3,618.00
5800	<p>REPAIR OF CAPSTAN:-</p> <p>Capstan disconnected, removed, bronze bush found damaged, same removed. Bush a calibrated. Owner supplied new bush installed back in position. Anchor brake bend removed and brought to workshop. Brake liner found damaged. Brake band blasted and painted. Yard supplied new brake liner size 10mm thickness fitted to the brake bend. After inspection Brake bend sent to onboard and fitted back in position.</p> <p>Bush foundation gasket, bolt and nuts yard supply. 2no of grease nipples found damaged. Yard supplied grease nipples 1/8" -2no fitted in position and grease pumped through the grease nipple. Capstan gear box oil 30lits drained and owner's supplied 30 Lts fresh oil filled. And inspection door installed with yard supplied gasket.</p>	12,538.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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Machinist:- QRs. 88.00/hour x 136 hours = QRs. 11,968.00.

Material + Consumables:- QRs. 570.00.

5850

DECK CRANE:-

6,300.00

Deck crane's 13 Nos. grease nipples size each 1/8" Bsp removed and yard supplied 13 Nos. new grease nipples fitted in position.

Greasing done for all the 13nos of grease nipples. Witnessed by owner's representative. Foot rest rubber pad supplied and installed by yard. Crane swing body gasket supplied and installed by yard. Witnessed by owner's representative.

Machinist:- QRs. 88.00/hour x 71 hours = QRs. 6,248.00.

Material + Consumables:- QRs. 52.00.

6000

REPAIR OF BILGES SUCTION PIPE:-

10,344.00

9 Nos. bilges suction pipes with filter disconnected, removed, brought to workshop, inspected, cleaned, washed, blasted, repaired painted and refitted.

Size 2"dia. copper nickel pipe x 500mm long with filter and non-return valve - 4 Nos.

Size 2 1/2" dia. copper nickel pipe x 300mm long with filter - 3 Nos.

Size 2 1/2" dia. M.S. Pipe x 1500mm long provided with 2 Nos. elbows, 1 No. filter and 1 No. coupling- 2 Nos.

One filter and pipe renewed to size 2 1/2" dia., sch.80 stainless steel pipe x 200mm long - 1 No.

Size 2 1/2"dia. stainless steel Flange - 1 No.

Stainless steel perforated sheet - 200mm x 200mm x 3 mm

thickness - 1 No.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	<p>Stainless steel bottom blind plate size 200mm x 200mm x 3 mm thickness - 1 No.</p> <p>Pipe fitter/Welder:- QRs. 88.00/hour x 113 hours = QRs. 9,944.00.</p> <p>Material + Consumables:- QRs. 400.00.</p>	
6001	<p>REPAIR OF AFT ENGINE ROOM M/E NO.4 FUEL PIPE LINE:-</p> <p>Aft engine room main engine no. 4 fuel pipe line found leakage, 2 nos. pipe removed from position, shifted to work shop and repaired to size 35mm copper nickel pipe x 2500 long, cleaned and refitted - 2 Nos. Leakage at one location repaired by build up welding.</p> <p>Pipe fitter/Welder:- QRs. 88.00/hour x 13 hours = QRs. 1,144.00.</p> <p>Consumables:- QRs. 22.00.</p>	1,166.00
6002	<p>RENEWAL OF STRAUB COUPLING:-</p> <p>1 No. 5" dia sea water cooling copper nickel pipe size 1200mm long disconnected and one flange (5") and one straub coupling (133mm) renewed. Pipe line refitted with new gasket and 8 Nos. new Bolts M16 X 60mm long & Nuts.</p> <p>Pipe fitter/Welder:- QRs. 88.00/hour x 16 hours = QRs. 1,408.00.</p> <p>Consumables:- QRs. 782.00.</p>	2,190.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
6003	RENEWAL OF MAIN ENGINE NO. 3 HEAT EXCHANGER SEA WATER COOLING PIPE:- Main engine No. 3 heat exchanger sea water cooling pipe renewed to size 5" dia., sch. 80 M.S. pipe x 300mm long - 01 nos. 5"dia. Flange - 02 nos. (one collar type flange made in machine shop). Pipe fitter/Welder:- QRs. 88.00/hour x 48 hours = QRs. 4,224.00. Material/Consumables:- QRs. 226.00.	4,450.00
6004	RENEWAL OF STRUB COUPLING:- 2" dia. copper nickel pipe disconnected and shifted to workshop. Pipe line cleaned, blasted, painted and refitted in vessel with yard supplied 1 No. 57mm straub coupling. Pipe fitter/Welder:- QRs. 88.00/hour x 8 hours = QRs. 704.00. Material/Consumables:- QRs. 250.00.	954.00
6005	A/C PIPE SUCTION LINE:- 3" dia. A/C suction copper nickel pipe x 700mm long provided with 1 No. flange, 1 No. elbow and 1 No. coupling removed brought to work shop, blasted, painted and refitted - 3 Nos. 3" dia. copper nickel pipe x 800mm long provided with both end coupling removed brought to work shop, blasted, painted and refitted - 3 Nos. Pipe fitter/Welder:- QRs. 88.00/hour x 43 hours = QRs.	4,050.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	3,784.00. Material/Consumables:- QRs. 266.00.	
6006	FABRICATION OF EXPANSION EXHAUST PIPE:- Job has been cancelled.	
6007	REPAIR OF DECK DRAIN LINE:- Following sections of deck drain line removed from position, blasted, painted and refitted. Size 3" dia. copper pipe x 400mm long provided with 1 No. flange - 12 nos. 2"dia. copper pipe x 2500 mm long provided with 2 nos. flanges and 5 Nos. elbows - 1 No. Deck drain line landing a cleaned and painted. Pipe fitter/Welder:- QRs. 88.00/hour x 77 hours = QRs. 6,776.00. Consumables:- QRs. 264.00.	7,040.00
6008	SEWAGE SYSTEM:- Following sewage system pipes (51Nos.) disconnected, shifted to work shop dismantled, blasted reassembled and refitted in position. Size 2"dia. copper nickel pipe x 2000mm long provided with 2 Nos. flanges - 4 Nos. Size 1 ½" dia. copper nickel pipe x 3000mm long provided with 1 No. bend and 1 No. coupling - 2 Nos.	21,270.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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Size 2" dia. copper nickel pipe x 3000mm long provided with 1 No. bend and 2 nos. union - 2 Nos.
 2" dia. copper nickel pipe x 2000mm long provided with 1 No. bend and 1 No. coupling - 2 Nos.
 Size 1 1/2" dia. copper nickel pipe x 1500mm long provided with 4 Nos. bend, 1 no. coupling and 1 No. flange. - 12 Nos.
 Size 2" dia. copper nickel pipe x 800mm long provided with 1 1/2" dia. branch pipe x 100mm long with 3 nos. union. - 3 Nos.
 Size 2" dia copper nickel pipe x 1800mm long provided with 3 Nos. bend and both side flange. - 1 No.
 Size 2" dia. copper nickel pipe x 2500mm long provided with 2 Nos. bend and 2 union - 3 Nos.
 Size 2" dia. copper nickel pipe x 3500mm long provided with 1 No. bend and 2 nos. coupling. - 3 Nos.
 size 2" dia. copper nickel pipe x 1500mm long provided with 1 No. bend and 1 Branch pipe size 1 1/2" dia., 2 Nos. coupling and 1 no. union - 1 No.
 Size 2" dia. copper nickel pipe x 3500mm long provided with 3 Nos. branch pipe, 5 Nos. union - 2 Nos.
 Size 2" dia. copper nickel pipe x 1500mm long, provided with 2 Nos. bend and 2 Nos. union. - 1 No.
 Size 2" dia. copper nickel pipe x 3500mm long provided with 2 Nos. bend and 2 Nos. coupling. - 2 Nos.
 Size 2" dia. copper nickel pipe x 2500mm long provided with 1 No. bend and 2 Nos. coupling. - 2 Nos.
 Size 2" dia. copper nickel pipe x 2000mm long provided with 1 No. bend and 2 nos. union. - 4 Nos.
 Size 10mm dia. copper pipe x 3000mm long provided with both side coupling - 6 Nos.
 Size 2" dia. ball valves cleaned and refitted - 8 Nos.
 Size 2" dia. vacuum valve cleaned and refitted - 4 Nos.
 Size 57mm dia. straub coupling renewed - 6 Nos.
 Size 1 1/2" dia. copper pipe x 1500mm long chemical cleaned in position.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	Pipe fitter:- QRs. 88.00/hour x 221 hours = QRs. 19,448.00. Consumables:- QRs. 1,822.00.	
6009	A/C COMPARTMENT ROOM SEA WATER PIPE LINES:- Following sections of A/C compartment room sea water pipe lines disconnected, cleaned and refitted the same using existing bolts. Size 3" dia. M.S. Pipe x 1500mm long provided with 1 No. 100mm long branch pipe, 2 Nos. 45 deg. Elbow and 3 Nos. flange - 1 no. Size 3"dia. M.S. pipe x 600mm long provided with 1 No. elbow and 2 Nos. flanges - 2 Nos. Size 3" dia. M.S. pipe x 1000mm long provided with 1 no. elbow and 2 nos. flange - 1 No. Pipe fitter:- QRs. 88.00/hour x 57 hours = QRs. 5,016.00. Consumables:- QRs. 234.00.	5,250.00
6010	FIBER GLASS FRESH WATER TANK:- Fibre glass fresh water tank fitted, connected with Navy fresh water system during steel repair work and later refitted on completion of steel and piping work, tank disconnected, removed and reconnect the original fresh water tank system. Using following temporary connections. Size ¾" dia. P.V.C. clear hose x 7000mm long provided with 10 Nos. 25mm x 35mm Hole clip, Copper pipe size 22mm dia. x 500mm long and elbow - 1 set. Pipe fitter:- QRs. 88.00/hour x 12 hours = QRs. 1,056.00. Consumables:- QRs. 120.00.	1,176.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
6011	RENEWAL OF BATHROOM A TAP:- Bath room a damaged 1 No. tap (for hand wash) removed and renewed. Pipe fitter:- QRs. 88.00/hour x 8 hours = QRs. 704.00. Consumables:- QRs. 120.00.	824.00
6012	FABRICATION OF COOLING PIPES:- 2 nos. cooling pipes fabricated and supplied as per sample to size 12mm copper tube x 150mm long provided with both end ferrule and brazed nut. Pipe fitter/welder:- QRs. 88.00/hour x 15 hours = QRs. 1,320.00. Consumables:- QRs. 30.00.	1,350.00
6013	REPAIR OF FUEL OIL PIPE AT A/C STRAINER FILTER:- Fuel oil pipe at A/C strainer filter a renewed using following sections. Size 2 ½" dia, sch. 40.M.S. pipe x 3000mm long - 1 No. Size 2 ½" dia, M.S. elbow(90 deg.) - 1 No. Size 2 ½" dia, M.S. elbow(45 deg.) - 1 No. Size 2 1/2" dia.M.S. Flange - 1 No. Size 76mm dia, straub coupling - 2 nos. Pipe fitter/welder:- QRs. 88.00/hour x 45 hours = QRs. 3,960.00.	4,880.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	Material/Consumables:- QRs. 920.00.	
6014	REPAIR OF GREY WATER TANK PIPE AT STRAINER FILTER:- Following 6 Nos. Gray water tank pipe at A/c strainer filter a disconnected, shifted to work shop, blasted painted and refitted. Size 2 ½" dia. copper nickel pipe x 2500mm long provided with 1 No. flange, 1 No. coupling. - 1 Nos. Size 48mm dia. copper pipe x 2000mm long provided with 4 Nos. bend, 3 Nos. union and 1 No. coupling - 1 No. Size 42mm dia. copper pipe x 1500mm long provided with 2 Nos. bend and both end union - 2 Nos. Size 42mm copper pipe x 1000mm long provided with 2 nos. bend, one end coupling and other end with union. 2 Nos. One damaged pipe and connections renewed to size 1 ½" dia. M.S. pipe x 1500mm long provided with 2 Nos. flanges - 1 No. Size 1 ½" dia. brass non-return valve renewed - 1 No. 42.4 mm straub coupling - 3 Nos. Pipe fitter/welder:- QRs. 88.00/hour x 36 hours = QRs. 3,168.00. Material/Consumables:- QRs. 1,004.00.	4,172.00
6015	CLEANING OF VALVES AND EJECTOR FOR SEWAGE TANK:- 2 nos. valves and ejector for sewage tank opened, cleaned as per Navy instruction. Pipe fitter:- QRs. 88.00 per hour x 34 hours = QRs. 2,992.00. Consumable:- QRs. 580 (Total 3,572.00 QRs. - 1,772.00.QRs. = QRs. 1,800.00).	1,800.00

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SHIP REPAIR & FABRICATION

Telephones

Office : 4771690 / 4771695

Fax : 4771687



INVOICE

Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

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QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012623/2021

DATE: 02/02/2021

EXPENSE A/C:

W/O NO: 20-010881 / 1

W/O REF: MDO 20194

Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
6016	RENEWAL OF A/C COMPARTMENT ROOM STUB COUPLING:- A/C compartment room, sea water pipe line with strub coupling found leakage. Pipe line disconnected, damaged a repaired by welding and refitted size as follows. Size 2" dia. copper nickel pipe x 3000mm long - 1 No. Size 35mm copper pipe x 1000mm long. 57 mm dia. straub coupling renewed. Pipe fitter/Welder:- QRs. 88.00 per hour x 20 hours = QRs. 1,760.00. material/Consumable:- QRs. 250.00.	2,010.00
6017	FWD. ENGINE ROOM GENERATOR:- Fwd. engine room centre generator provided with fittings and owner's supplied 1 No. 3/8"dia. ball valve. Gauge fitted, connected with Generator for sea water pressure line. 4 Nos. brass adaptor made in machine shop and fitted size as follows. Size 40mm OD x 40mm length provided both end 3/8"threaded nipple - 3 Nos. Size 40mm OD x 65mm long provided with both end 3/8"thread and 3/8"ball valve - 1 No. Pipe fitter/Machinist:- QRs. 88.00 per hour x 18 hours = QRs. 1,584.00. Material/Consumable:- QRs. 170.00.	1,754.00
6018	RENEWAL OF OFFICER BATHROOM VALVE TAP:-	1,050.00

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	Officer bath room 2 nos. wash basin tap renewed.	
	Pipe fitter:- QRs. 88.00 per hour x 10 hours = QRs. 880.00. material/Consumable:- QRs. 170.00.	
6019	RENEWAL OF OFFICER BATH ROOM BALL VALVE:-	964.00
	Officer bath room 16mm. brass ball valve (15mm) renewed.	
	Pipe fitter:- QRs. 88.00 per hour x 8 hours = QRs. 704.00. material/Consumable:- QRs. 260.00.	
6020	REPAIR OF SEWAGE TANK SEA WATER COOLING PIPE LINE:-	5,120.00
	Sections of sea water cooling copper nickel pipe size 1"dia.x 3500mm long on top of sewage tank disconnected and shifted to workshop. Damaged a repaired by welding. 4 nos. nozzle opened, manufactured as per sample to size each 2"dia. x 100mm long, using brass material.	
	Pipe fitter/Machinist:- QRs. 88.00 per hour x 54 hours = QRs. 4,752.00. material/Consumable:- QRs. 368.00.	
6021	GENERATOR NO. 2 PORT SIDE PIPE:-	3,855.00
	Generator no. 2 port side pipe removed for access. Refitted the same after the completion of steel work to size 6"dia. copper nickel pipe x 2500mm long provided with one flange and one coupling -1 No. Size 3"dia. copper nickel pipe x 3000mm long, shifted to work	

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
	shop, blasted and painted - 1 No. Size 6" dia. overboard valve overhauled and refitted -1 No. Size 3" dia. overboard valve overhauled and refitted. Pipe fitter:- QRs. 88.00 per hour x 39 hours = QRs. 3,432.00. Consumable:- QRs. 423.00.	
6022	RENEWAL OF OVERBOARD DISCHARGE PIPE:- 4 nos. port and stbd. damaged overboard discharge pipe renewed to size each 2" dia. , sch 80 ms pipe x 50mm long. Pipe fitter:- QRs. 88.00 per hour x 45 hours = QRs. 3,960.00.	3,960.00
6023	REPAIR OF COPPER PIPE FOR AIR SYSTEM:- Copper pipe repaired as per owner's instruction to size 10mm dia. copper tube x 500mm long provided with 10mm dia. branch pipe - 2 Nos. Pipe fitter:- QRs. 88.00 per hour x 6 hours = QRs. 528.00. Consumable:- QRs. 12.00.	540.00
6024	CLEANING OF COOLING LINE FOR WATER MAKER:- One cooling line for water maker opened, cleaned and refitted, connected as per owner's instruction. Renewal material details. Size 1" dia. PVC Clear hose x 300 mm long. Size 1" PVC Clear hose x 200 mm long. stainless steel bolt size M12 x60 mm long blot and nut - 04	540.00

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W/O REF: MDO 20194

Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
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Nos.

Size 3/4" dia. cock valve - 1 No.

Stainless steel jubilee clamp size 25 x 35mm - 10 Nos.

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

Consumable:- QRs. 12.00.

6025 RENEWAL OF 'Y' STRAINER CAP:-

818.00

One no. 2 1/2" dia Y strainer's damaged brass cap removed.

New cap manufactured and fitted to size 85mm x 50mm - 1 No.

Pipe fitter/Machinist:- QRs. 88.00 per hour x 6 hours = QRs. 528.00.

Material/Consumable:- QRs. 290.00.

7200 REPAIR OF FREEZER:-

Job has been cancelled.

7201 REPAIR OF COOLING ROOM A/C:-

Job has been cancelled.

7500 SUPPLY OF MATERIALS:-

Job has been cancelled.

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Vessel Name/Description : [BARZAN CLASS] NAVY BOAT Q 05 - "HAWAR" [Contract no 2347/20]

Job No	Description	Line Amount
8000	POLISHING OF PROPELLERS:- 4 nos. propeller (Size each 1420 mm dia.) cleaned, washed and polished in situ with cup wire brush. 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
8001	REPAIR OF PROPELLER:- 1 No. Propeller root a cavities repaired as follows. Cavity a ground until depth, built-up welded with AMPCO TRODE 46 and ground & polished to match the profile. Propeller set up on static balancing machine and static balancing tarried out and report issued. Machinist/Welder:- QRs. 88.00 per hour x 44 Hours = QRs. 3,872.00. Consumable:- QRs. 680.00. Note: Payment as per our signed contract. Encl: Original work completion report.	4,552.00
Invoice Amount -->		1,118,653.15

(QAR - One Million One Hundred Eighteen Thousand Six Hundred Fifty-Three And 15/100 Only)

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