

## QATAR NAVIGATION (QPSC)

## SHIP REPAIR &amp; FABRICATION

## Telephones

Office : 4771690 / 4771695

Fax : 4771687



## INVOICE

Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBAQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	VESSEL ARRIVED : 22-11-2020 VESSEL DOCKED : 22-11-2020 VESSEL UNDOCKED : 07-02-2021 VESSEL SAILED : 07-02-2021	
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	DOCK HIRE :-  Dock hire for remaining period (76 days).  Based on standard schedule of rates, page No. 9. (QRs. 2,060.00 per day x 76 days = QRs. 156,560.00).	156,560.00
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 78 days = QRs. 24,180.00).  B) Fire line maintained under pressure during period of drydocking (charged for 49 days only), including connection and disconnection. Based on standard schedule of rates, page No. 7. (QRs. 185.00 per day x 78 days + QRs. 255.00 = QRs. 14,685.00).	155,265.00

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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 78 days = QRs. 19,890.00).

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 78 days + QRs. 360.00 = QRs. 68,610.00).

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

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

(QRs. 255.00 per day x 78 days + QRs. 255.00 = QRs.20,145.00).

F) 55 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 55 tons = QRs.3,575.00)).

G) 11 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 11 pieces = QRs.4,180.00).

1150	ULTRASONIC thickness MEASUREMENT :-	7,500.00
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500 spots Ultrasonic thickness gauging taken and report issued.

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	Based on standard schedule of rates, page No. 7 (QRs. 15.00 per spot x 500 spots = QRs. 7,500.00).	
1151	RENEWAL OF FORWARD AND AFT. MAST FLAG ROPES :-  Existing ropes removed and new ropes supplied and fitted.  Rigger:- QRs. 75.00/hour x 19 hours = QRs.1,425.00. Consumable:- QRs.575.00.	2,000.00
1152	RENEWAL OF SUPPORTING STEEL WIRES :-  2 Nos. supporting steel wires on main mast checked and renewed with SS new wire 8mm dia as per Navy instruction.  Rigger:- QRs. 75.00/hour x 37 hours = QRs.2,775.00. Consumable:- QRs. 800.00.	3,575.00
1153	RENEWAL OF CAPTAIN TOILET FLOOR TILES :-  Job has been cancelled.	
1154	RENEWAL OF FWD. ACCOMODATION TOILET FLOOR :-  Job has been cancelled.	
1155	RENEWAL OF FWD. ACCOMODATION TOILET FLOOR :-  Job has been cancelled.	

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1156	RENEWAL OF BATHROOM CURTAINS :-  All bath rooms curtains renewed.  Incl in job no 1160	
1157	LAGGING WORK :-  Chill water piping system insulation lagging carried out for damaged insulation by sub contractor as per Navy instruction.	33,649.00
1158	BRIDGE SPLIT A/C LAGGING :-  Bridge split A/C lagging renewed with subcontractor. Cost included in Job No. 1157.	
1159	DIGENERATOR NO.1, 2, 3 ExHAUST LAGGING :-  D/generator no. 1 and no. 2 and no. 3 exhaust lagging renewed by subcontractor. Cost included in Job No. 1157.	
1160	RENEWAL OF FLOOR MAT :-  Vinyl flooring carrying out a in accommodation area at different location by specialist subcontractor.	23,886.00

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Job No	Description	Line Amount
1161	SCAFFOLDING :-  Atotal of 192 cubic meters scaffolding arranged around vessel for access and later removed on completion of painting work.  (QRs. 25.00 per cubic meter x 192 cubic meters = QRs. 4,800.00.	4,800.00
1200	UNDER WATER AREA TREATMENT AND PAINTING :-  Underwater area an approx. of 530 square meters treated and painted as follows :- - Hand scraped to remove marine growth (QRs. 1,590.00). - H.P. jet washed with fresh water (QRs. 4,240.00). - Blasted SA 2 using garnet (approx. 40% of area) (QRs. 7,716.80) - Sept SA1. using garnet remaining area (60% of area.) (QRs. 10,748.40) - Hosed down with fresh water (QRs. 927.50) - Applied with two Coats full 45880 - 50630 (QRs. 1,457.50) - Applied with one Coat full 45881 - 11480 (QRs. 1,457.50) - Applied with one coat sealer 45182 -2515 (QRs. 1,457.50) - Applied with two coats Hempel hard racing antifouling 7648 - 1999 (QRs. 3,710.00). 16 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. 3,840.00). (All paint compositions owner's supplied used). Based on standard schedule of rates, page Nos. 10&11.	37,145.20

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Job No	Description	Line Amount
1201	<p>ABOVE WATER AREA TREATMENT AND PAINTING :-</p> <p>Topside area an approx. of 310 square meters treated and painted as follows :-</p> <ul style="list-style-type: none"> <li>- H.P. jet washed with fresh water (QRs. 3,255.00).</li> <li>- Spot blasted in way of rusted areas using garnet (approx. 40% of area) (QRs. 3,143.40).</li> <li>- Swept SA 1 remaining areas using garnet (approx. 60% of area) (QRs.10,276.50).</li> <li>- Hosed down with fresh water (QRs. 697.50).</li> <li>- Applied with one touch up coats Hempadur 45881-11480 (QRs.232.50).</li> <li>- Applied with two Full coats primer (QRs. 1,550.00).</li> <li>- Applied with one final coat 55210-11480 (QRs. 930.00).</li> </ul> <p>(All paint compositions owner's supplied used).</p> <p>9 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.</p> <p>Based on standard schedule of rates, page Nos. 10&amp;11.</p>	20,084.00
1202	<p>CLEANING AND PAINTING OF ALL VENTILLATION ROOMS :-</p> <p>All ventilation rooms sanded, cleaned and applied with 1 coat Primer and 1 final coat using yard supplied paint.</p> <p>Painter:- QRs. 75.00 per hour x 60 hours = QRs. 4,500.00.</p> <p>Consumable:- QRs. 200.00.</p>	4,700.00
1203	<p>MAIN DECK AND UPPER DECK TRETMENT AND PAINTING :-</p>	23,957.50

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Job No	Description	Line Amount
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Main deck and upper deck area an approx. 370 square meters treated and painted as follows.

HP Jet Washed with fresh water (QRs.3,885.00).

Full Blasted to SA 1.0, using garnet (QRs.16,835.00).

Hose Down with fresh water (QRs.832.50).

Pitting area applied with filler.

Applied with 1 t/up coat Primer (45751) (QRs.370.00).

Applied with 1 full coat primer (45751) (QRs.925.00).

Applied with one full top coat including non skid( Navy Grey 11480) (QRs.1,110.00).

(All paint compositions owner's supplied used).

Based on standard schedule of rates page No. 10&11.

1204	NBC MARKS PAINTING :-	3,075.00
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NBC marks cleaned and painted on all doors and hatches as per owner's rep. instruction.Using yard supplied paint.

Painter:- QRs. 75.00/hour x 39hours = QRs. 2,925.00.

Consumable:- QRs. 150.00.

1205	PAINTING OF AIR PROOF HOLES :-	8,195.00
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13 Nos. air proof holes cleaned, wooden frame cleaned, polished and varnished, port hole cleaned and painted.

Paints and varnished supplied by yard.

Painter/Carpenter:- QRs. 75.00/hour x 102 hours = QRs.7,650.00.

Consumable:- QRs. 545.00.

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Job No	Description	Line Amount
1206	<p>CLEANING AND PAINTING OF MAIN MAST :-</p> <p>Main mast treated and painted as follows:- Full sanded and cleaned. HP jet washed with fresh water. Applied with 1 t/up coat primer. Applied one top coat (52140 -11480) Grey. Protection covered with pclastic and tape and protection covering removed after completion of work.</p> <p>(All paint compositions owner's supplied used).</p> <p>Painter:- QRs. 75.00/hour x 108 hours = QRs.7,560.00. Consumable:- QRs. 360.00.</p>	7,920.00
1207	<p>CLEANING AND PAINTING OF FWD. AND AFT ENGINE ROOM :-</p> <p>Fwd. and aft engine rooms cleaned, protection masking carried out using plastic sheet and masking tape. Applied with one coat off white (52140-11630), using yard supplied paint.</p> <p>Painter:- QRs. 75.00 per hour x 180 hours = QRs. 13,500.00. Cleaner:- QRs. 48.00 per hour x 92 Hours = QRs. 4,416.00. Consumable:- 666.00.</p>	18,582.00
1208	<p>CLEANING AND PAINTING OF MAIN ENGINE NO. 1,2,3 AND 4 :-</p> <p>Main engine no. 1,2,3 and 4 sanded, cleaned and applied with one top coat (52140) using yard supplied paint Protection covering carried out using plastic and masking tape.</p>	9,015.00

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Job No	Description	Line Amount
	Painter:- QRs. 75.00/hour x 63 hours = QRs.4,725.00. Cleaner:- QRs. 48.00 per hour x 80 hours = QRs. 3,840.00. Consumable:- QRs.450.00.	
1209	CLEANING AND PAINTING OF D/G NO. 1,2, AND 3 :-  DG No 1,2 and 3 sanded, cleaned and applied with one top coat (52140)protection covering carriedv out using plastic and masking tape. Paints supplied by yard.  Painter:- QRs. 75.00/hour x 50 hours = QRs.3,750.00. Cleaner:- QRs. 48.00 per hour x 47 hours = QRs. 2,256.00. Consumable:- QRs.100.00.	6,106.00
1210	CLEANING AND PAINTING OF ALL AUXILIARY MACHINERY :-  All auxiliary machinery sanded,cleaned and applied with one top coat paint. Protection covering carried out using plastic and masking tape. Paints supplied by yard.  Painter:- QRs. 75.00/hour x 60 hours = QRs. 4,500.00. Cleaner:- QRs. 48.00 per hour x 60 hours = QRs. 2,880.00. Consumable:- QRs.250.00.	7,630.00
1211	CLEANING AND PAINTING OF BRIDGE WHEEL HOUSE MACHINERY :-  Bridge wheel house machinery and control cleaned and painted. Yard Supplied Paints	7,160.00

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	Painter:- QRs. 75.00/hour x 80 hours = QRs. 6,000.00. Cleaner:- QRs. 48.00 per hour x 20 hours = QRs. 960.00. Consumable:- QRs.200.00.	
1212	CLEANING AND PAINTING OF BRIDGE ENCLOSED AREA :-  Bridge enclosed area power tooled, cleaned and applied with 1 coat primer and 1 final coat. Paint supplied by Yard.  Painter:- QRs. 75.00/hour x 46 hours = QRs.3,450.00. Cleaner:- QRs. 48.00 per hour x 40 hours = QRs. 1,920.00. Consumable:- QRs.200.00.	5,570.00
1213	PAINTING OF FWD. AND AFT ACCOMODATION :-  Fwd. and aft accommodation treated and painted as follows. Area cleaned, Protection covering carried out using plastic sheet and masking tape. Applied with 1 coat primer and applied with 1 final coat ( Off white ). All paints supplied by yard.  Painter:- QRs. 75.00/hour x 151 hours = QRs.11,325.00. Consumable:- QRs.500.00.	11,825.00
1214	PAINTING OF MAIN ALLEY WAY :-  Main alley way treated and painted as follows. Area sanded. cleaned, Protection covering carried out using plastic and masking tape.	6,625.00

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	<p>Applied with 1 coat primer and applied with 1 final coat ( Off white).</p> <p>Paints supplied by yard.</p> <p>Painter:- QRs. 75.00/hour x 85 hours = QRs. 6,375.00.</p> <p>Consumable:- QRs.250.00.</p>	
1215	<p>PAINTING OF ALL OFFICERS CABIN AND MESS :-</p> <p>All officers cabins and mess ceiling sanded, cleaned, protection covering carried out using plastic and masking tape. Applied with 1 coat ( Enamel White ). All paint Paint supplied by Yard.</p> <p>Painter:- QRs. 75.00/hour x 154 hours = QRs.11,550.00.</p> <p>Consumable:- QRs.600.00.</p>	12,150.00
1216	<p>PAINTING OF ALL CHAIN LOCKER :-</p> <p>Chain locker cleaned and applied with black paint. As per standard schedule of rates, page No. 12.</p>	2,575.00
1217	<p>CLEANING AND PAINTING OF ALL A/C VENTILLATION ROOMS :-</p> <p>All A/C ventilation rooms cleaned, Covered and painted. Using yard Supplied Paints.</p> <p>Painter:- QRs. 75.00/hour x 91 hours = QRs.6,825.00.</p> <p>Consumable:- QRs.250.00.</p>	7,075.00

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DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1218	CLEANING AND PAINTING OF FWD. AND AFT ENGINE ROOM :- Included in Job 1207.	
1219	PAINTING OF ALL CUPBOARDS :- All mess deck cupboard cleaned and painted. Protection Covering carried out using plastic and Masking tape. Painter:- QRs. 75.00/hour x 68 hours = QRs. 5,100.00. Consumables:- QRs. 200.00.	5,300.00
1220	PAINTING OF MCR MACHINERY CONSOLE :- MCR machinery console cleaned and covered and painted using yard Supplied Paints. Painter:- QRs. 75.00/hour x 54 hours = QRs. 4,050.00. Consumables:- QRs. 200.00.	4,250.00
1221	PAINTING OF MCR INTERNALLY :- MCR internally cleaned painted using yard Supplied Paint. Painter:- QRs. 75.00/hour x 40 hours = QRs. 3,000.00. Cleaner:- QRs. 48.00/hour x 37 hours = QRs. 1,776.00. Consumables:- QRs. 150.00.	4,926.00
1222	CLEANING AND PAINTING OF TECHNICAL ROOM :-	7,070.00

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QAR A/C No. 0013-000309-060

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	Technical room cleaned and painted. Using yard Supplied paints.	
	Painter:- QRs. 75.00/hour x 50 hours = QRs. 3,750.00.	
	Cleaner:- QRs. 48.00/hour x 65 hours = QRs. 3,120.00.	
	Consumables:- QRs. 200.00.	
1223	JUNDI MESS ROOM :-	8,020.00
	Jundi mess room cleaned and painted.	
	Painter:- QRs. 75.00/hour x 80 hours = QRs. 6,000.00.	
	Cleaner:- QRs. 48.00 per hour x 40 hours = QRs. 1,920.00.	
	Consumable:- QRs. 100.00.	
1224	CLEANING AND PAINTING OF 40MM MAGAZINE :-	6,104.00
	40mm magazine cleaned and painted.	
	Painter:- QRs. 75.00/hour x 48 hours = QRs. 3,600.00.	
	Cleaner:- QRs. 48.00 per hour x 48 hours = QRs. 2,304.00.	
	Consumable:- QRs. 200.00.	
1225	PAINTING OF ENGINE ROOM FLOOR PLATES :-	7,200.00
	Forward and aft. Engine room floor plates cleaned and applied with one coat aluminum Paint.	
	(All paint owner's supplied used).	
	Painter:- QRs. 75.00/hour x 60 hours = QRs. 4,500.00.	
	Cleaner:- QRs. 48.00 per hour x 50 hours = QRs. 2,400.00.	

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	Consumables:- QRs. 300.00.	
1226	CLEANING AND PAINTING OF 76MM, 40MM AND STEERING GEAR COMPARTMENT :-  76mm, 40mm and steering gear compartment floor plates cleaned and painted with silver paint.  Painter:- QRs. 75.00/hour x 70 hours = QRs. 5,250.00. Cleaner:- QRs. 48.00 per hour x 64 hours = QRs. 3,072.00. Consumables:- QRs. 200.00.	8,522.00
1227	CLEANING AND PAINTING OF PORTABLE FIRE FIGHTING PUMP :-  Portable fire fighting pump cleaned and painted.  Painter:- QRs. 75.00/hour x 40 hours = QRs. 3,000.00. Consumables:- QRs. 150.00.	3,150.00
1228	PAINTING OF RADAR ANTENNA :-  All radar antenna painted as per Navy instruction.  Painter/Scaffolder:- QRs. 75.00/hour x 103 hours = QRs. 7,725.00. Consumables:- QRs. 100.00.	7,825.00
1229	PROP SPEED :-  4 Nos. propellers and 4 Nos. SS tail shaft applied prop speed	14,262.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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as per Navy instruction.

Painter:- QRs. 75.00/hour x 30 hours = QRs. 2,250.00.

Consumables:- QRs. 12,012.00.

1250	PAINTING OF BILGES :-	75,696.00
------	-----------------------	-----------

Following bilges cleaned, washed pump out water, moped to dry, inspected and painted :-

Fwd. area chain locker.

Fwd. accommodation area.

76mm magazine area.

Jundi mess room area.

Fwd. engine room area.

Aft engine room area.

Aft accommodation area.

Steering room area.

C/C rooms area.

Technical room area.

50mm magazine area.

All paints supplied by client .

Painter:- QRs. 75.00/hour x 600 hours = QRs. 45,000.00.

Cleaner:- QRs. 48.00/hour x 587 hours = QRs. 28,176.00.

Consumables:- QRs. 2,520.00.

1350	ANCHOR CHAIN CLEANING AND PAINTING :-	5,015.00
------	---------------------------------------	----------

Anchors and chain treated and painted as follows.

Anchor and Chain Lowered, ranged and later restowed, using vessel's windlass (QRs. 1,030.00).

Chain HP Jet washed with fresh water (QRs. 720.00).

Chain calibrated (QRs. 515.00).

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	Chain applied with one coat aluminium paint (QRs. 620.00). 2 nos Anchors full blasted and applied with one coat Primer and one top coat Grey (QRs. 1,030.00). Kenter shackle renewed using Owner's supplied shackle (QRs. 600). Anchor swivel heated and freed (QRs. 500). (All paint compositions owner's supplied used). Based on standard schedule of rates, page No. 11.	
1400	GREASING OF SHAFTS BEARING COVER :-  No.1 tail shaft (port side outer shaft) bearing -2nos, No.2 tail shaft (Stbd outer shaft ) bearings -2nos, No.3 (Stbd side inner) bearing-1no and No.4 tail shaft (Port side inner) bearing-1no cover removed , old grease cleaned and inspected by ship staff and found no damage. Yard supplied new grease applied and covers installed back. Witnessed by ship staff.  Mechanic:- QRs. 88.00/hour x 57 hours = QRs. 5016.00. Consumables:- QRs. 390.00.	5,406.00
1401	TAILSHAFT BEARING CLEARANCE :-  SS tailshaft cutlass bearings clearances checked and report submitted.  AS per standard schedule of rates, page No.13. (QRs. 620.00 per piece x 4 pieces = QRs. 2480.00)	2,480.00
1402	RENEWAL OF SS TAIL SHAFT GLAND PACKING :-	3,640.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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4 Nos. of tailshaft gland old packing removed and yard supplied  
new gland packing size 12mm thickness x 6M long installed.  
Witnessed by ship staff.

(QRs. 620.00 per piece x 4 Nos. + QRs. 1,240.00 = QRs.  
3,640.00).

1403	OVERHAULING OF SEA SUCTION VALVES :-	6,432.00
------	--------------------------------------	----------

12nos of sea suction brass gate valve (DN 125 -4 Nos. and DN 75  
- 8 Nos.) removed from location and brought to workshop.valves  
dismantled, chemical cleaned and buffed. valves assembled with  
yard supplied new gland packing and gaskets.  
Gravity test done and found no. leakage. Witnessed by yard QC.  
Valves shifted to on board and installed back on position.  
Witnessed by ship staff.

(QRs. 435.00 per piece x 4 Nos. x 1.6 = QRs. 2,784.00).  
(QRs. 285.00 per piece x 8 Nos. x 1.6 = QRs. 3,648.00).

1404	REPAIR OF SEA WATER STRAINER FILTER HOUSING :-	13,860.00
------	--	-----------

Sea water strainers with housing -12 Nos removed from location  
and brought to workshop. Dismantled, strainer housing 6nos  
found damaged. Repaired by FRC yard technician. Filters  
cleaned with detergent, inspected and assembled. Filter  
housings leak tested and found no leakage. Witnessed by yard  
QC. Filter assembly and housings shifted on board and installed  
back on position. Witnessed by ship staff.

Mechanic:- QRs. 88.00 per hour x 120.00 hours = QRs. 10,560.00.  
Fiberglass technician:- QRs. 75.00 per hour x 20 hours =

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	QRs.1,500.00. Consumable:- QRs. 1,800.00.	
1405	REPAIR OF REMOTE CONTROL LINKAGE :-  12 Nos. remote control linkage checked, cleaned and operated insitu.  Mechanic:- QRs. 88 per hour x 53 hours = QRs. 4,664.00. Consumable:- QRs. 160.00.	4,824.00
1406	FIRE MAIN PUMP NO.1 :-  Fire main pump No.1 gland cooling line pipe with adaptor found leak. As per navy instruction yard fabricated 4 Nos. cooling line pipes with adaptor. One no fitted on position and 3nos handed over to ship staff. Witnessed by ship staff.  Mechanic/Machinist:- QRs. 88 per hour x 42 hours = QRs. 3,696.00. Consumable:- QRs. 375.00.	4,071.00
1407	REPAIR OF DN 50 BUTTER FLY VALVE :-  3 Nos. DN 50 butterfly valves removed from location and brought to workshop. Valves dismantled and found in damaged condition valves rejected by client. Client supplied new valves installed back on position. Aft engine room diesel tank line Brass gate valve 1 1/4" removed from location found damaged, Client rejected. Yard supplied 2	4,398.00

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Job No	Description	Line Amount
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Nos. new 1 ¼" dia. butterfly valve fitted on position.  
Witnessed by ship staff.

Mechanic:- QRs. 88 per hour x 31 hours = QRs. 2,728.00.  
Material/Consumable:- QRs. 1,670.00.

1408	RENEWAL OF FIRE MAIN PUMP NO.1 AND NO. 3 NON RETURN VALVE :-	1,860.00
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Fire main pump no 1 NRV valve size 3" dia. removed brought to workshop and fitted with yard fabricated new flap. Buffing and cleaning done. NRV valve assembled. Valve sent to onboard and installed back on position. Witnessed by ship staff.  
Fire pump No. 3 NRV valve freed up in position and operation found ok. Witnessed by ship staff.

Mechanic/Machinist:- QRs. 88 per hour x 20 hours = QRs. 1,760.00.  
Material/Consumable:- QRs. 100.00.

1409	RENEWAL OF FIRE MAIN OVERBOARD VALVES :-	6,100.00
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1 No. Stbd. overboard valve size 1 ¼" Ball valve, 1 No. 1 ¼" dia. NRV valve, 1 No. 1 ¼ Union (SS), 1 No. 1 ¼" dia. stainless steel elbow, and 2 Nos. 1 ¼" dia. male to male nipple. All removed and brought to workshop. All are found in bad condition. Yard supplied new 1 No. 1 ¼" dia. Ball Valve, 1 No. 1 ¼" dia. NRV valve, 1 No. 1 ¼ dia. stainless steel Union, 1 No. 1 ¼" dia. stainless steel elbow and 2 Nos. 1 ¼" dia. male to male nipple fitted in position Witnessed by ship staff.  
1 No. Stbd side over board gate valve size DN100 removed from location and brought to workshop. valve dismantled chemical cleaning and buffing done. Assembled with yard supplied gland

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Job No	Description	Line Amount
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packing. Gravity test was carried out. No leaks found. Shifted to vessel and installed back on position. Witnessed by yard QC.

2 Nos. port side over board ball valve size each 1 1/4" dia. and 1 No. 1 1/2" dia. NRV removed from location, brought to

workshop, found bad condition. Yard supplied 1 No. new ball valve size 1 1/2" dia. and 1 No. 1 1/2" dia. NRV fitted back on position. 2 Nos. 1 1/2" dia. Gate valve 2 Nos. 1 1/2" dia. NRV valves removed from location and brought to workshop.

Dismantled and chemical cleaning and buffing done. Assembled with yard supplied gland packing. Gravity test carried out.

Witnessed by yard QC. Valves sent on board and installed back on position. Witnessed by ship staff. 1 No. DG cooler inlet

gate valves size 1 1/4" dia. removed from location and brought to workshop. Dismantled, Chemical cleaned and buffing done.

Gravity test carried out, and found no leakage, witnessed by yard QC. After inspection fitted back on position. Witnessed by ship staff.

2 Nos. AFT Engine room DG Muffler (Stbd) gate valves size each 1 1/4" dia, 1 No. 1 1/4 dia. NRV removed from location and brought to workshop. Gate valve 1 1/4" Gate valve-lno found damaged. Yard supplied new valve installed on position. Carry out gravity test, no leaks found. Witnessed by yard QC.

2 Nos. DG Mufflar (port side) gate valves size each 1 1/4" dia.,

1 No. 1 1/4" dia. NRV removed from location and brought to

workshop. 1 No. Gate valve size 1 1/4" found damaged. Yard supplied new valve installed on position. Carry out gravity

test, no leaks found. Witnessed by yard QC.

1 No. cooling line gate valve size 1 1/4" dia. , 1 No. 1" dia.

Gate valve removed from location and brought to workshop. Found damaged, yard supplied new valves 1 1/4" gate valve-lno and 1"

gate valve-lno fitted on the position. 1"dia. x 1 1/4" dia.

male to male brass adopter fabricated by yard and supplied to

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Job No	Description	Line Amount
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the vessel. 1 No. 1 ½" dia. gate valve and 1 No. 1 ½" dia. NRV  
over board valves removed from position, brought to workshop.  
valves dismantled and chemical cleaning, buffing done. Gravity  
test done. No leaks found.

Mechanic/Machinist:- QRs. 88.00 per hour x 50 Hours = QRs.  
4,400.00.

Materials/Consumable:- 1,700.00.

1410	RENEWAL OF FIRE HYDRANT VALVES AND FUNNEL ADAPTORS :-	2,475.00
------	---	----------

Fire hydrant valves 1 ¼" Gate valves -6 Nos removed from  
location, brought to workshop.  
2nos of gate valves size each 1 ¼" found in bad condition and  
valve rejected by client. Yard supplied 2nos gate valves size  
each 1 ¼" valves fitted back on position and remaining 4nos 1 ¼"  
Gate valves service and gravity done. valves shifted on board  
and fitted back on location. Witnessed by ship staff. 6 Nos.  
Funnel adaptors removed from location and brought to workshop.  
1No funnel adaptor found damaged. Owner supplied new funnel  
adaptor fitted back on position. 5nos funnel adaptor  
dismantled and cleaned, serviced and sent to on board and  
refitted back on position. Witnessed by ship staff.

Mechanic:- QRs. 88.00 per hour x 25 Hours = QRs. 2,200.00.  
Materials/Consumable:- 275.00.

1411	RENEWAL OF AFT AND FWD. WASTE TANK SEA WATER SUPPLY VALVE :-	619.00
------	--	--------

2 Nos. Aft and fwd waste tank and refrigeration drain tank sea  
water supply brass ball valves size each 1 ¼" removed from  
location, found damaged condition. Yard supplied 2 Nos. brass

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Job No	Description	Line Amount
	ball vale size each 1 ¼" dia. fitted back on position. Witnessed by client.  Mechanic:- QRs. 88.00 per hour x 3 Hours = QRs. 264.00. Materials/Consumable:- 355.00.	
1412	RENEWAL OF MAGZINE SPRING SYSTEM MANUAL AND REMOTE VALVES :-  Magazine spring system manual and remote 1 No. Brass gate valve size 1 ½" dia. and 4 Nos. linkages inspected in location as per Navy instruction and found jammed . Linkages Freed up in position. Operated and found ok. Witnessed by ship staff. Mechanic:- QRs. 88.00 per hour x 20 Hours = QRs. 1,760.00.	1,760.00
1413	RENEWAL OF FIRE MAIN LINE OVERBOARD NON RETURN VALVE :-  3 Nos. Fire main overboard non return valve size each 1 ¼" found defective, checked repaired and found ok. Witnessed by ship staff.  Mechanic:- QRs. 88.00 per hour x 13 Hours = QRs. 1,144.00. Consumable:- QRs. 145.00.	1,289.00
1414	RENEWAL OF SEA WATER VALVE IN JUNDI MESS :-  Jundi Mess brass gate valve size 1 ½" dia. removed and found damaged. As per Navy instruction Client supplied new brass gate valve size 1 ½" installed in position. Witnessed by ship staff.  Mechanic:- QRs. 88.00 per hour x 6 Hours = QRs. 528.00.	528.00

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Doha - Qatar DOHA QA 37

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DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1415	<p>RENEWAL OF MAIN REFRIGERATION PLANT SEA WATER COOLING VALVE :-</p> <p>4 Nos. Main refrigeration plant gate valves size each <math>\frac{3}{4}</math>"dia. removed from location and found in damaged condition. Owner supplied 4 Nos. new gate valves size each <math>\frac{3}{4}</math>" refitted on position. witnessed by ship staff.</p> <p>Mechanic:- QRs. 88.00 per hour x 10 Hours = QRs. 880.00.</p>	880.00
1416	<p>RENEWAL OF MAIN ENGINE NO.4 FRESH WATER FILLING VALVE :-</p> <p>Main engine No.4 fresh water filling gate valve size <math>\frac{3}{4}</math>" gate valve-2nos removed from location and found damaged. As per navy instruction yard supplied 2 Nos. new gate valves size each <math>\frac{3}{4}</math>" and yard fabricated brass <math>\frac{3}{4}</math>" male to male fitting are fitted on position , witnessed by ship staff.</p> <p>Mechanic/Machininst:- QRs. 88.00 per hour x 28 Hours = QRs. 2,464.00.</p> <p>Material/Consumable:- 200.00.</p>	2,664.00
1417	<p>RENEWAL OF ALL SEA CHEST AIR BLOW VALVE :-</p> <p>12 Nos. Sea chest Air blow valve size each <math>\frac{1}{2}</math>" Bsp (90 degree angle needle valves) open close checked and freed up and 12nos linkages found jammed, repaired, freed up . witnessed by ship staff.</p> <p>Mechanic:- QRs. 88.00 per hour x 26 Hours = QRs. 2,288.00.</p> <p>Consumable:-50.00.</p>	2,338.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1418	RENEWAL OF AIR COMPRESSOR SYSTEM AIR LINE VALVES :-  15 Nos. Air compressor system air line valves size each 3/8"Npt needle valves (parker brand) found damaged. Yard supplied new valves 3/8" Npt valves (parker brand) fitted on position. Additionally 2nos 3/4" Npt needle valves handed over to chief engineer supplied by yard. M10 and M16 hydraulic fittings each 1no fabricated by yard and handed over to chief engineer.  Mechanic:- QRs. 88.00 per hour x 60 Hours = QRs. 5,280.00. Consumable:-5,740.00.	11,020.00
1419	RENEWAL OF AIR COMPRESSOR SYSTEM AIR LINE VALVES :-  4 Nos. Air bottle drain valve size each 1/2"Bsp 90 degree needle valves removed from location and found damaged . Yard supplied 4 Nos. new 1/2"" Bsp 90 degree needle valve installed in position witnessed by ship staff. 2nos new 1/2" dia. Bsp 90 degree needle valve handed over to chief engineer supplied by yard.  Mechanic:- QRs. 88.00 per hour x 32 Hours = QRs. 2,816.00. Material/Consumable:-1,680.00.	4,496.00
1420	REPAIR OF SHIP SIREN AIR CONTROL MECHANISM :-  Air operated Ship siren system removed from location, cleaned and tested , functions ok and fitted back on position witnessed by ship staff.	2,325.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	Mechanic:- QRs. 88.00 per hour x 24 Hours = QRs. 2,112.00. Consumable:-213.00.	
1421	RENEWAL OF CATHOD PROTECTION :-  Cathode protection cover 4 nos removed cleaned and inspected by ship staff. Installed with yard supplied yard supplied new gasket. Witnessed by ship staff.  Mechanic:- QRs. 88.00 per hour x 36 Hours = QRs. 3,168.00. Consumable:-25.00.	3,193.00
1422	REPAIR OF PROPELLER :-  Port side outer propeller removed from location and brought to workshop for repair. Later returned to vessel and refitted on completion of repair works.  Mechanic:- QRs. 88.00 per hour x 64 Hours = QRs. 5,632.00. Rigger:- QRs. 75.00 per hour x 32 Hours = QRs. 2,400.00. Consumable:-150.00.	8,182.00
1423	STBD. SIDE SS TAIL SHAFT CUTLASS BEARING :-  Stbd outer propeller and tail shaft (No: 2) removed from location. 2nos of cutlass bearings found damaged. Client supplied new cutlass bearings installed on position. After yard QC and client inspection Tail shaft and propeller fitted back on position. Witnessed by client.  Mechanic:- QRs. 88.00 per hour x 238 Hours = QRs. 20,944.00.	30,406.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	Rigger:- QRs. 75.00 per hour x 24 Hours = QRs. 1,800.00. Consumable:-987.00.	
1800	REPAIR OF HANDRAIL :-  All handrail cleaned, blasted, painted and re-fitted, provided with new rubber gasket and new stainless steel nut and bolts. Necessary repairing done on damaged hand rails. Using yard supplied 5 Nos. rubber gasket size 140mm x 135mm x 3mm thickness., 31 No. rubber gasket size each 105mm dia. x 03 mm thickness, 200 Nos. Stainless steel bolts size each M12 x 40mm long and 20 Nos. 12 mm drill holes.  Fabricator/Welder:- QRs. 88.00 per hour x 241 Hours = QRs. 21,208.00. Blaster/Painter:- QRs. 75.00 per hour x 30 Hours = QRs. 2,250.00. Materials/Consumable:- QRs. 1,825.00.	25,283.00
1801	RENEWAL OF HANDRAIL STEEL BRACKETS :-  Handrail steel brackets inspected, cleaned, blasted, necessary damaged parts renewed and painted. 1 No. Aft area antenna securing aluminum clamp size 2 1/2" dia. new fabricated and welded. 1 No. Aft port. Corner side post support brackets renewed to size 30mm x 60mm x 8mm thickness.-01 No. 1 No. Stainless steel bolt and nut size M8 x 25mm long. Upper deck area 2 Nos. handrail base brackets renewed to size 175mm x 175mm x 8mm thickness.  Included in Job No. 1800.	

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1802	RENEWAL OF CONTROL LOCKER COVER HINGES :-  3 Nos. damaged control locker cover stainless steel hinges renewed to size each 1"width x 2" length.  Fabricator:- QRs. 88.00 per hour x 11 Hours = QRs. 968.00. Materials:- QRs. 50.00.	1,018.00
1803	RENEWAL OF SUPER STRUCTURE RUBBER JOINT :-  Super structure rubber joint removed and renewed. Approx. 17 meters insulation and ceiling removed and refitted for access. Scaffolding arranged. - 4M x 4M x 6M - 01 No. Rubber strip. - 100mm width x 16mm thick. - Total 17 mtr. used. Stainless steel bolts,- M8 x 40mm. - 530 Nos. Stainless steel nut. M8. - 530mm Stainless steel washer - 530mm. Existing stainless steel flat bar removed, polished and refitted., Size -33mm X 5mm. - 17 mtr. - 02 Nos. 4.5mm aluminum rivet, 100 Nos. used for refitting ceiling Hose testing done in rubber joint area.  Fabricator:- QRs. 88.00 per hour x 397 Hours = QRs. 34,936.00. Material/Consumable:- 4,217.00.	39,153.00
1804	REPAIR OF BRIDGE CHART TABLE LOCKS, HANDLE :-  1 No. Bridge chart table New handle fabricated and fitted	1,156.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>using stainless steel pipesize 1"dia., Sch. 40 stainless steel pipe x 1300mm long.</p> <p>2 Nos. Stainless steel bracket ('L' type) fabricated providing necessary drilling and bending size 150mm x 100mm (bend), 75mm x 75mm x 6mm thickness (FB). 8 Nos. Stainless steel screw size M6 x 25mm long.</p> <p>Fabricator:- QRs. 88.00 per hour x 12 Hours = QRs. 1,056.00.</p> <p>Material/Consumable:-100.00.</p>	
1805	<p>ROPE GUARD :-</p> <p>4 Nos. rope guard for tail shaft opened, cleaned, blasted and painted refitted in completion of work.</p> <p>Scaffolding arranged for access and later removed on completion.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 21 Hours = QRs. 1,848.00.</p> <p>Material/Consumable:-100.00.</p>	1,948.00
1806	<p>RENEWAL OF ALL CUPBORDS DOORS AND LOCK :-</p> <p>All cupboards doors and lock inspected, and lock renewed.</p> <p>Aft accommodation area 1 No. stainless steel hinges renewed to size 1" x 2",</p> <p>4 Nos. Upper deck area damaged aluminum support provided to size 80mm width x 350mm long x 6mm thickness.</p> <p>Aluminum rivet fitted to size each 4mm dia.</p> <p>Fabricator:- QRs. 88.00 per hour x 8 Hours = QRs. 704.00.</p> <p>Material/Consumable:-240.00.</p>	944.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1807	REPAIR OF FWD. AND AFT ENGINE ROOM TOOL BOX :-  Fwd. and aft engine room tool box's 3 Nos. damaged hinges replaced using stainless steel hinges size 1"x 2", 14 Nos. 3.5mm aluminum blind rivet fitted.  Fabricator:- QRs. 88.00 per hour x 33 Hours = QRs. 2,904.00. Material/Consumable:-129.00.	3,033.00
1808	REPAIR OF SUPER STRUCTURE DECK CRACK ON RUBBER JOINT :-  Super structure deck cracked near rubber joint, same inspected and renewed to size 440mm x240mm x6 mm thickness aluminium plate.- 1No.  Fabricator/ Welder:- QRs. 88.00 per hour x 30 Hours = QRs. 2,640.00. Material/Consumable:-100.00.	2,740.00
1809	REPAIR OF SHIP STRUCTURE PORT SIDE NEAR CHARGING PANEL :-  1 No. Damaged steel plate cut and renewed in way of Ship structure port side near charging panel size 600mm x 220mm x 6mm thickness Scaffolding arranged for access and later removed on completion 2M x 1.5M x 1.5M.  Fabricator/ Welder:- QRs. 88.00 per hour x 23 Hours = QRs. 2,024.00. Scaffolder:- Min. 25 M3 x QRs. 30.00 per cubic meter = QRs.	2,850.00

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No.2347/20]

Job No	Description	Line Amount
	750.00. Consumable:-76.00.	
1810	REPAIR OF MAIN ENGINE :-  ME no:4 Fresh water cooler found damaged, removed from location, repaired and installed back on position. Witnessed by ship staff.  Mechanic/Machinist:- QRs. 88.00 per hour x 57 Hours = QRs. 5,016.00. Welder:- QRs. 88.00 per hour x 19 Hours = QRs. 1,672.00. Consumable:-815.00.	7,503.00
1811	REPAIR OF DIESEL TANK NO.3 PORT SIDE BOTTOM HOLE :-  Fuel oil tank No. 3, stbd. Side bottom holed bulkhead plate cropped and renewed to size 1100mm x 250mm x 6mm thickness - 1 No. Bottom stiffener size 85mm x 20mm x 6mm thickness x 1100 mm long. - 2 Nos. Frames insert plate size 300mm x 160mm x 6mm thickness - 2 Nos. Moon plate size 90mm x 45mm x 8 mm thickness - 2 Nos. Tank air pressure tested and certificate issued. Manhole opened for access and tank gas freed. manhole cover refitted on completion.  Fabricator/Welder:- QRs. 88.00 per hour x 100 Hours = QRs. 8,800.00. Material/Consumable:-840.00.	9,640.00

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Job No	Description	Line Amount
1812	REPAIR OF DIESEL TANK NO.5 INNER SUCTION PIPE :-  Diesel tank No: 5 manhole cover opened and gas freed. Diesel tank no. 5 inner side suction chocked pipe inspected and cleared. Manhole cover after the completion of work.  Fabricator:- QRs. 88.00 per hour x 21Hours = QRs. 1,848.00. Consumable:-295.00.	2,143.00
1813	RENEWAL OF OFFICER TOILET FLOOR AND SIDE PLATING :-  Buffing and polishing work done in officers toilet damaged floor and side plating. All ladder polished and buffed (Included in Job No. 1823) . Fwd and aft gun main deck SS angle polished. Aft and jundi mess and fwd. accommodation floor plate buffed.  Fabricator:- QRs. 88.00 per hour x 72 Hours = QRs. 6,336.00. Consumable:-200.00.	6,536.00
1814	RENEWAL OF AFT ACCOMODATION TOILET FLOOR AND SIDE PLATING :-  Buffing and polishing work done aft. accommodation toilet flooring and side plating.  Fabricator:- QRs. 88.00 per hour x 35 Hours = QRs. 3,080.00. Consumable:-100.00.	3,180.00
1815	REPAIR OF FWD. ACCOMODATION WASH BASIN AREA :-	2,690.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>Fwd. accommodation wash basin area corroded ms plate renewed to size 300mm x 200mm x 2mm thickness provided with 2 mm coaming - 1 No.</p> <p>Fabricator:- QRs. 88.00 per hour x 30 Hours = QRs. 2,640.00. Consumable:-50.00.</p>	
1816	<p>REPAIR OF ALL WATER TIGHT DOOR AND HATCHES :-</p> <p>All water tight doors and hatches inspected and repaired. Aft, stbd accommodation door opened, shifted to work shop and repaired. 1 No. door spring made and installed. Aluminum plate renewed to size 120mm x 50mm x 8mm thickness provided with 6 Nos. drill holes. - 2 Nos. Stainless steel pinsize 25mm dia. x 90 mm long - 1 No. Stainless steel split pin size 3mm dia.- 1 No. M.S. plate size 50mm x40mm x 8mm thickness. - 2Nos. Stainless steel bolt, nut and washer size M12 x 60mm - 6 Nos. 1 No. Fwd. main deck hatch holding spring renewed spring supplied by navy. Cylinder removed. overhauled End plate welded and refitted.</p> <p>Fabricator:- QRs. 88.00 per hour x 197 Hours = QRs. 17,336.00. Materials/Consumable:- 840.00.</p>	18,176.00
1817	<p>RENEWAL OF PORT HOLES GASKET :-</p> <p>13 Nos. port holes gasket inspected, defective gasket renewed. Existing damaged rubber beading removed and area cleaned.Provided yard supplied Soft rubber beading size each 10mm x 10mm x 950mm long.- 13 Nos.</p>	4,530.00

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Job No	Description	Line Amount
	Hard rubber beading size size 10mm x 10mm x 850mm long.-13 Nos. Fabricator:- QRs. 80.00 per hour x 48 Hours = QRs.3,840.00. Material:- 690.00.	
1818	REPAIR OF FOxL ENTERANCE DOOR :- Included in Job No. 1816.	
1819	REPAIR OF DOOR LOCKING WHELL SPRING :- 1 No. Captain room door locking wheel spring replaced. 1 No. Aft toilet door locking wheel spring replaced. Fabricator:- QRs. 88.00 per hour x 30 Hours = QRs. 2,640.00. Material:- 677.00.	3,317.00
1820	REPAIR OF 40MM GUN MAGAZINE HATCH LOCKING MECHANISM :- 40mm gun magazine hatch locking mechanism repaired. Door removed from position and spring renewed. All handle freed. Fabricator:- QRs. 88.00 per hour x 11 Hours = QRs. 968.00. Consumable:- 20.00.	988.00
1821	RENEWAL OF DOOR HINGES :- 2 Nos. Fwd. deck Port side Door opened and defective hinges renewed. 2 Nos. Stainless steel pin renewed to size 25mm dia. x90mm	9,252.00

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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/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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long.

2 Nos. Stainless steel split pin renewed to size each 3mm dia.

4 Nos. Aluminum Packing plate renewed to size 50mm x 12mm x 8mm thickness.

4 Nos. M.S. eye plate renewed to size 65mm x 50mm x 8 mm thickness.

2 Nos. M.S. Bracket size renewed to size each 50mm x 40mm x 8mm thickness - Stainless steel bolt, nut and washer. - M 12 x 60mm - 12 Nos.

3 Nos. Aft accommodation locker door handle renewed using yard supplied stainless steel door handle installed by 4mm dia. x

18 Nos. rivets and provided with drill holes.

Fabricator:- QRs. 88.00 per hour x 104 Hours = QRs. 9,152.00.

Material:- 100.00.

1822 REPAIR OF BRIDGE PORT SIDE DOOR WHEEL :-

2,195.00

Bridge port side door wheel repaired and freed.

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

Material:- 83.00.

1823 CLEANING AND BUFFING OF ALL LADDER FOOT STEPS :-

Buffing work done on aluminum ladders, having 11 steps each.

Fwd and Aft gun base Rubber mat locking stainless steel angle polished and fitted. Stainless steel nut - M 10 - 100 Nos.

Stainless steel nut - M 8 - 75 Nos.

Aft accommodation floor plate copper strip buffing work done.

Copper strip - size 25mm x 500mm - 60 Nos.

Jundi mess floor plate size 25mm x 700mm - 35 Nos.

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W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	Incl in job no 1897.	
1824	REPAIR OF BATHROOM DEFECTIVE DOOR :-  1 No. Aft. stbd. Main deck door locking mechanism renewed. 2 Nos. spacer provided for door hinges.  Fabricator:- QRs. 88.00 per hour x 37 Hours = QRs. 3,256.00. Material/Consumable:-200.00.	3,456.00
1825	REPAIR OF PORTABLE LADDER :-  Aft engine room, aft stbd side ladder holding plate renewed to size 80mm x 60mm x8mm thickness. - 2 Nos. Main deck port and stbd. Monkey ladder, port side hinges fabricated, fitted and welded. M.S. Plate size 80mm x 65mm x 8 mm thickness - 4 Nos. Lube oil transferred for access by manually from lube oil tank and gas freed. Cleaned and refitted the manhole cover of lube oil tank with 1 No. new oil gasket size 450mm x 550mm x 3mm thickness.  Fabricator/Welder:- QRs. 88.00 per hour x 58 Hours = QRs. 5,104.00. Material/Consumable:-100.00.	5,204.00
1826	RENEWAL OF MAIN REFRIGERATION PLANT REGULATOR BASE :-  Main refrigeration plant regulator base repaired. 1 No. aluminum clamp fabricated and fitted to size 1" dia. x 4 mm thickness x 4 mm dia. drilled hole and 2 Nos. new stainless	3,180.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	steel bolt and nut size each M6 x 20mm.  Fabricator/Welder:- QRs. 88.00 per hour x 35 Hours = QRs. 3,080.00. Material/Consumable:-100.00.	
1827	RENEWAL OF STEERING OIL TANK IN STEERING ROOM GASKET :-  Steering oil tank in steering room gasket changed.  Fabricator:- QRs. 88.00 per hour x 10 Hours = QRs. 880.00. Consumable:-100.00.	980.00
1828	RENEWAL OF AFT AIR COMPRESSOR MOUNT :-  Aft air compressor mount inspected and renewed. Included in Job No. 1838.	
1829	RENEWAL OF FUEL TANK VENT PIPE AND ELBOW BREATHER :-  All fuel tank vent pipe disconnected, shifted to workshop, blasted, painted and refitted. Elbow breather replaced. Scaffolding arranged for access and later refitted to size 2000mm x 3000mm x 5000mm - 02 Nos.  Fabricator/Welder:- QRs. 88.00 per hour x 39 Hours = QRs. 3,432.00. Consumable:-50.00.	3,482.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1830	REPAIR OF WASTE TANK VENT PIPES :-  All waste tank vent pipes cleaned and refitted by piping section.  Pipe fitter:- QRs. 88.00 per hour x 33 Hours = QRs. 2,904.00. Consumable:-100.00.	3,004.00
1831	REPAIR OF FWD. AND AFT ENGINE ROOM FLOOR PLATES :-  Fwd. and aft engine room floor plates repaired and refitted. Damaged floor plates shifted to carpentry work shop. Plywood and aluminum sheet renewed. Marine plywood size 850mm x 400mm x 18mm thickness. Aluminum sheet size 850mm x 400mm x 2.5mm thickness. Plywood size 650mm x 450mm x 18mm thickness Aluminum sheet size 650mm x 450mm x 2.5mm thickness Plywood size 875mm x 460mm x 18mm thickness. Aluminum sheet size 875mm x 460mm x 2.5mm thickness. Plywood size 690mm x 390mm x 18mm thickness. Aluminum sheet size 690mm x 390mm x 2.5mm thickness. Plywood size 800mm x 470mm x 18mm thickness - 2 Nos. Aluminum sheet size 800mm x 470mm x 2.5mm thickness Plywood size 770mm x 470mm x 18mm thickness. Aluminum sheet size 770mm x 470mm x 2.5mm thickness Plywood size 650mm size 160mm x 18mm thickness - 2 Nos. Aluminum sheet size 650mm x 160mm x 2.5mm thickness Plywood size 770mm x 450mm x 18mm thickness." "Aluminum sheet size 770mm x 450mm x 2.5mm thickness Plywood size 770mm x 500mm x 18mm thickness. Aluminum sheet size 770mm x 550mm x 2.5mm thickness Plywood size 760mm 465mm x 18mm thickness and 760mm 465mm x	10,644.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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2.5mm aluminum sheet - 1 No.  
 Plywood size 775mm x 475mm x 18mm thickness and 2.5mm th.  
 Aluminum sheet. - 02 Nos.  
 Plywood size 765mm x 400mm x 18mm thicknessnes and 2.5mm  
 thickness. Aluminum sheet. - 2 Nos.  
 Plywood size 765mm x 560mm x 18mm thickness and 2.5mm  
 thickness. Aluminum sheet. - 1 No.  
 Plywood size 705 mm x 300mm x 18mm thickness and 2.5mm  
 thickness. Aluminum sheet - 1 No.  
 Plywood size 670mm x 500mm x 18mm thickness and 2.5mm aluminum  
 sheet - 01 No.  
 Plywood size 1000mm x 400mm x 18mm thickness nd 2.5mm aluminum  
 sheet - 1 No"  
 "Aluminum sheet size 770mm x 450mm x 2.5mm thickness  
 Plywood size 770mm x 500mm x 18mm thickness.  
 Aluminum sheet size 770mm x 550mm x 2.5mm thickness  
 Plywood size 760mm 465mm x 18mm thickness and 760mm x 465mm x  
 2.5mm aluminum sheet - 1 No.  
 Plywood size 775mm x 475mm x 18mm thickness and 2.5mm th.  
 Aluminum sheet. - 2 Nos.  
 Plywood size 765mm x 400mm x 18mm thickness and 2.5mm  
 thickness. Aluminum sheet. - 2 Nos.  
 Plywood size 765mm x 560mm x 18mm thickness and 2.5mm  
 thickness. Aluminum sheet. - 1 No.  
 Plywood size 705 mm x 300mm x 18mm thickness and 2.5mm  
 thickness. Aluminum sheet - 1 No.  
 Plywood size 670mm x 500mm x 18mm thickness and 2.5mm aluminum  
 sheet - 01 No.  
 Plywood size 1000mm x 400mm x 18mm thickness and 2.5mm aluminum  
 sheet - 01 No."  
 "Plywood size 650mm x 450mm x 18mm thickness and 2.5mm  
 thickness. Aluminum sheet - 1 No.  
 Plywood size 800mm x 570mm x 18mm thickness.plywood and 2.5mm  
 thickness aluminum sheet - 1 No.

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Doha - Qatar DOHA QA 37

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W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Aft engine room aluminum flat bar.  
 8mm x 100mm x 300mm - 1 No.  
 8mm dia hole - 4 Nos.  
 Aluminum flatbar size 8mm x 50mm x 80mm - 1 No.  
 Stainless steel screw, M8 x 20 - 6 Nos.  
 Cracked aluminum floor plate support flat bar rewelded in 05 locations  
 Stainless steel counter sunk M8 screw, 25mm long - 40 Nos.  
 Stainless steel nut, M8 - 40 Nos.

Fabricator:- QRs. 88.00 per hour x 58 hours = QRs. 5,104.00.  
 carpenter:- QRs. 75.00 per hour x 60 hours = QRs. 4,500.00.  
 Material/ Consumable:- QRs. 1,040.00.

1832	RENEWAL OF FWD. ACCOMODATION FLOOR PLATES :-	2,464.00
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Fwd. accommodation floor plates repaired using following materials.

Plywood size 1550mm x 870mm x 18mm thickness - 2 Nos.  
 Plywood size 1000mm x 900mm x 18mm thickness. - 1 No.  
 Plywood size 1000mm x 2750mm 18mm thickness. - 1 No.  
 Stainless steel catcher handle size 90mm x 70mm x 12mm thickness - 4 Nos.

Fabricator:- QRs. 88.00 per hour x 8 hours = QRs. 704.00.  
 Carpenter:- QRs. 75.00 per hour x 22 hours = QRs. 1,500.00.  
 Material/ Consumable:- QRs. 1,195.00.

1833	RENEWAL OF JUNDI MESS FLOOR PLATES :-	1,000.00
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Jundi mess floor plate renewed.  
 Plywood Size 700mm x 600mm x 18mm thickness - 1 No.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	Carpenter:- QRs. 75.00 per hour x 12 hours = QRs. 900.00. Material/ Consumable:- QRs. 100.00.	
1834	RENEWAL OF AFT ACCOMODATION FLOOR PLATES :-  Aft accommodation floor plates renewed using following materials. Plywood size 700mm x600mm 18mm thickness - 1 No. Plywood size 650mm x 600mm x 18mm thickness - 1 No. Plywood size 550mm x 550mm x 18mm thickness - 1 No. Plywood size 550mm x 450mm x 18mm thickness - 1 No. Floor plate holder size 70mm x 95mm x 12 mm thickness using M.S. flatbar - 16 Nos.  Carpenter:- QRs. 75.00 per hour x 16 hours = QRs. 1,200.00. Material/ Consumable:- QRs. 145.00.	1,345.00
1835	RENEWAL OF 40MM MAGAZINE AND 76MM MAGAZINE FLOOR PLATES :-  40mm magazine and 76mm magazine floor plates catcher strip renewed. Size 95mm x 70mm x 12mm - 5 x 10 Nos.  Carpenter:- QRs. 75.00 per hour x 10 hours = QRs. 750.00.	750.00
1836	RENEWAL OF FWD. AND AFT ENGINE ROOM FLOOR PLATES :-  Included in Job No. 1831	

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
1837	<p>RENEWAL OF FLOOR PLATES MISSING CATCHING HANDLE :-</p> <p>Missing floor plate holding strips fabricated and fitted 76mm magazine area stainless steel plate size 95mm x 70mm x 12mm thickness - 5 Nos. Copper flat bar size 25mm width x 500mm length x 2mm thickness - 4 Nos. Copper flat bar size 25mm width x 550mm length x 2mm thickness - 4 Nos. Copper flat bar size 25mm width x 200mm length x 2mm thickness - 4 Nos.</p> <p>Fabricator:- QRs. 88.00 per hour x 10 hours = QRs. 880.00.</p>	880.00
1838	<p>RENEWAL OF AIR COMPRESSOR NO.2 MOUNTING :-</p> <p>Main engine air compressor rubber mounting 4nos found damaged, removed from location and yard supplied new rubber mountings installed back on position. Witnessed by client.</p> <p>Included in Job No. 5803.</p>	
1839	<p>REPAIR OF KITCHEN/GALLEY VENTILATION TRUNKING FOUNDATION :-</p> <p>Kitchen/galley ventilation trunking foundation dismantled, shifted to work shop, cleaned with chemical, polished, assembled and refitted. Trunking size 900mm x 400mm - 1 No.</p> <p>Fabricator:- QRs. 88.00 per hour x 16 hours = QRs. 1,408.00. Consumable:- QRs. 10.00.</p>	1,418.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
1840	FABRICATION OF KITCHEN WASH BASIN DRAIN WIRE MESH :-  2 Nos. kitchen wash basin drain stainless steel wire mesh cleaned and polished. Size 450mm x 350mm x 350mm - 2 Nos.  Fabricator:- QRs. 88.00 per hour x 29 hours = QRs. 2,552.00. Consumable:- QRs. 186.00.	2,738.00
1841	RENEWAL OF KITCHEN CUPBOARD AND RACKS :-  Kitchen cupboard and racks cracked area repaired by TIG welding. 2 Nos. cupboards sliding rails replaced. Rack damaged area repaired by riveting. - 7 Nos.  Fabricator:- QRs. 88.00 per hour x 34 hours = QRs. 2,992.00.	2,992.00
1842	RENEWAL OF BRIDGE WIND SCREEN PROTECTIVE COVER HOLDING LOCK :-  Bridge wind screen protective cover holding locks found struck. Holding lock repaired and freed to overall size 2" x 1" dia. - 12 Nos.  Fabricator:- QRs. 88.00 per hour x 27 hours = QRs. 2,376.00.	2,376.00
1843	INSTALLATION OF VUHF AERIAL MAIN MAST :-  VUHF aerial one in no. fitted on main mast stbd. side area. Scaffolding arranged for access and later removed on completion. Area cleared by gouging and grinding. Aluminum round bar size	2,788.00

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No.2347/20]

Job No	Description	Line Amount
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12mm dia. x 600mm long - 1 No. fabricated as suitable shape,  
fitted and welded on position.

Fabricator/Welder:- QRs. 88.00 per hour x 31 hours = QRs.  
2,728.00.

Consumable:- QRs. 60.00.

1844	REPAIR OF PORT SIDE NEAR THE WATER LINE IN FWD. :-	23,690.00
------	--	-----------

Damaged steel plate in way of Port side forward near the water  
line cut and removed, new plate fabricated inserted and  
welded.

Shell plate size 2300mm x 1000mm x 8mm thickness. - 1 No.

Transverse frame steel insert size 1150mm x 800mm x 6mm

thickness - 1 No. Fabricated bulbar size 80mm x 20mm x 6mm

thickness. 2200mm long - 1 No. Nos. Fabricated bulbar - 80mm x

20mm x 6mm thickness. 1200mm long- 1 No. Nos. Fabricated bulbar

- 80mm x 20mm x 6mm thickness. 900mm long- 1 No.

Scaffolding arranged for access and later removed on completion

of repair works size 6000mm x 2500mm x 2000mm - 1 No.

Fabricator/Welder:- QRs. 88.00 per hour x 245 hours = QRs.  
21,560.00.

Material/Consumable:- QRs. 2,130.00.

1845	RENEWAL OF ENGINE ROOM BOTTOM PLATE. :-	16,189.00
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Damaged engine room bottom plate cropped and renewed.

New plate fabricated, fitted and welded. Bottom steel insert to  
size 1220mm x 1210mm x 6mm thickness -1 No.

Scaffolding arranged for access and later removed on completion  
size 3000 x 3000 x 1000mm height

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>2 Nos. pipe lines removed for access and later refitted. Bilge pump dismantled for access and later refitted.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 178 hours = QRs. 15,664.00. Consumable:- QRs. 525.00.</p>	
1846	<p>PORT AND STBD. SIDE FWD. SHELL PLATE RENEWAL :-</p> <p>Port and stbd. side fwd. dented shell plates Cut and removed by grinding machine internals cut removed, new plate fabricated, fitted and welded. Insert plate size 3700mm x 780mm x 6mm thickness. - 2 Nos. Insert plate size 1100mm x 600mm x 6mm thickness. - 2 Nos. Bulb bar size 85mm x 25mm x 6mm thickness x 3690mm long - 6 Nos. Stbd. Side transverse frame steel insert in way of FWD accommodation M.S. plate size 520mm x 210mm x 5mm thickness. - 4 Nos. M.S. plate size 700mm x 160mm x 5mm thickness. - 4 Nos. Face plate size 280mm x 75mm x 6mm thickness. - 4 Nos. Face plate size 520mm x 75mm x 6mm thickness. - 4 Nos. FWD accommodation area all plywood and bed removed for access and later refitted. All old plywood removed and new plywood installed Scaffolding arranged for access and later removed on completion of repair works size 6000mm x 3000mm x 2000mm. Fabricator/Welder:- QRs. 88.00 per hour x 960 hours = QRs. 84,480.00. Materials/Consumable:- QRs. 6,573.00.</p>	91,053.00
1847	REPAIR OF PORT AND STBD. SIDE RUBBER FENDER :-	5,240.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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AFT port and stbd. side rubber fender disconnected removed.  
Base frames cleaned blasted and inspected.  
Both side rubber fender fitted back in position to size each  
Size 110mm x 120mm x 4030mm long using yard supplied 32 Nos.  
new stainless steel bolts and nuts size each M 12 x 60mm.  
Port and stbd. Scaffolding arranged for access and later removed.

Fabricator/Welder:- QRs. 88.00 per hour x 50 hours = QRs.  
4,400.00.

Materials/Consumable:- QRs. 840.00.

1848	RENEWAL OF FWD. BELOW OF GREY WATER TANK STEEL PLATE :-	68,520.00
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Fwd. below of grey water tank defective steel plates cut and renewed.  
Port side steel insert in way of gun room size 1470mm x 600mm x 6mm thickness. - 1 No.  
Keel insert size 3150mm x 200mm x 8mm thickness. - 1 No.  
Stbd. Side shell steel insert in way of gun room size 3650mm x 600mm x 6mm thickness. - 1 No.  
Fwd. lower frame steel insert size 660mm x 80mm x 6mm thickness. - 1 No. Stiffener size 600mm x 65mm x 6 mm thickness. - 1 No.  
Bhd. Steel insert size 820mm x 550 mm x 6mm thickness - 1 No.  
Bhd. Steel insert size 1050mm x 565mm x 6mm thickness - 1 No.  
M.S. flat bar size 50mm x 6mm thickness x 650mm long.  
Bhd. Steel insert in way of gun room size 1470mm x 900mm x 6mm thickness - 1 No.  
Interenal stiffener size 85mm x 20mm x 6mm thickness - 4 Nos.  
Gray water base plate size 590mm x 425mm x 6mm thickness.- 1 No.  
Bracket size 425mm x 130mm x 6mm thickness. - 1 No.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Bhd. vertical Bulbar stiffener size 85mm x 20mm x 6mm thickness x 1310mm long - 2 Nos.

BHD vertical Bulbar stiffener size 85mm x 20mm x 6mm thickness x 910mm long - 2 Nos.

Lower stbd. Side Bulb bar stiffener size 85mm x 20mm x 6mm thickness x 3750mm long - 4 Nos.

Stbd. side Bhd. insert in way of gun room size 210mm x 700mm x 6 mm thickness.- 1 No.

Ceiling and paneling removed for access and later refitted on completion.

Scaffolding arranged for access and later removed on completion to size 1500mm x 3000mm x 1500mm - 2 Nos.

Pipe lines and rubber hoses removed and refitted for access and later refitted.

3 Nos. Gray water tank shifted and re-located for access.

Fabricator/Welder:- QRs. 88.00 per hour x 750 hours = QRs. 66,000.00.

Materials/Consumable:- QRs. 2,520.00.

1849	FABRICATION OF ACCOMODATION ROOM DORR LOWER VENTILATION UNIT :-	7,364.00
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4 Nos. accommodation room door lower ventilation unit removed from position, shifted to work shop, new ventilation unit fabricated using stainless steel perforated sheet Size 310mm x 210mm x 2mm thickness - 4 Nos.

Stainless steel screw size 3mm x 25mm long. - 26 Nos.

Fabricated and fitted new interior ceiling ac vent and connected to existing ac duct as per owner's instruction.

Stainless steel perforated sheet size 310mm x 210mm x 2 mm thickness provided with slot size 60mm x 190mm. - 4 Nos.

Stainless steel screw size 3mm x 25mm long - 26 Nos.

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W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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Fabricator/Welder:- QRs. 88.00 per hour x 78 hours = QRs.  
6,864.00.

Materials/Consumable:- QRs. 500.00.

1850	RENEWAL OF MID SHIP FREEZER AREA ABOVE WATER STEEL PLATE :-	16,348.00
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Port side mid ship freezer area Above water steel damaged plate  
cut new steel plate fitted and welded.

Side shell insert size 550mm x 350mm x 6mm thickness.

Plywood removed for access and later refitted after the  
completion of work.

Scaffolding arranged for access and later removed on  
completion size 6M x 1.5M x 3M - 1 location.

Fabricator/Welder/A/C technician:- QRs. 88.00 per hour x 116  
hours = QRs. 10,208.00.

Carpenter/Fire& safety man:- QRs. 75.00 per hour x 77 hours =  
QRs. 5,775.00.

Consumable:- QRs. 365.00.

1851	RENEWAL OF FWD. AREA CIC ROOM PLATE :-	2,924.00
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FWD area CIC room damaged plate cut and renewed.

Steel insert size size 420mm x 450mm x 06 mm thickness.

1 No. Scaffolding arranged for access and later removed on  
completion to size 3M x 2M x 5M.

Fabricator/Welder:- QRs. 88.00 per hour x 23 hours = QRs.  
2,024.00.

Carpenter:- QRs. 30.00 per cubic meter x 30 cubic meter = QRs.  
900.00.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1852	<p>RENEWAL OF AFT ENGINE ROOM PORT SIDE BELOW OF MAIN ENGINE BTOM THINNED PLATE-</p> <p>Thinned bottom plate, internal brackets and bulb bar cropped in way of AFT engine room Port side below of main engine exhaust pipes.</p> <p>F.O. tank No: 6 manhole opened and gas freed.</p> <p>Bottom steel insert size size 1070mm x 1805mm x 6mm thickness.</p> <p>- 1 No.</p> <p>F.O. tank No. 6 BHD. Steel insert size 940mm x 350mm x 6mm thickness. - 1 No. Fabricated bulb bar size 80mm x 20mm x 6 mm thickness. x 1550 mm long - 3 Nos.</p> <p>Internal bracket size 930mm x 820mm x 6mm thickness. - 2 Nos.</p> <p>M.S. Flat bar (coaming) cropped and renewed to size 70mm width x 6mm thickness x 1000mm long. - 2 Nos.</p> <p>M.S. flat bar size 25mm width x 6mm thickness. x 1400 mm long. - 2 Nos.</p> <p>'L' frame size 1050mm x 820mm x 6mm thickness. - 1 No.</p> <p>Scaffolding arrange for access and later removed on completion size 3M x 3M x 1.5 M height</p> <p>F.O. tank No: 6 air pressure tested and report issued.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 393 hours = QRs. 34,584.00.</p> <p>Materials/Consumable:- QRs. 506.00.</p>	35,090.00
1853	<p>RENEWAL OF AFT ENGINE ROOM STBD. SIDE BELOW OF MAIN ENGINE BTOM THINNED PLATE-</p> <p>Damaged steel in way of aft engine room stbd. side below main exhaust, cropped by grinding machine.</p> <p>New plate and internals, fabricated, fitted and welded.</p> <p>Bottom plate size 1450mm x 1330mm x 6 mm thickness. - 1 No.</p>	22,229.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Fabricated bulb bar size 80mm x 20mm x 6 mm thickness x 1450mm long. - 4 Nos.

Longitudinal bulkhead insert plate size 1560mm x 275mm x 6mm. - 1 No.

Side bracket plate size 1030mm x 915mm x 6 mm thickness. (Hole dia.230mm) - 2 Nos.

Ring shaped coaming provided and welded in side bracket hole size 25mm width x 6mm thickness M.S. flat bar - 2 Nos.

Bracket strip size 30mm width x 6 mm thickness x 2400mm long - 1 No.

Face plate size 70mm width x 5mm thickness x 725mm long - 2 No.

Scaffolding arranged and later removed after the completion of work size 3M x 3M x 1Mtr.-01 No.

Fabricator/Welder:- QRs. 88.00 per hour x 243 hours = QRs. 21,384.00.

Materials/Consumable:- QRs. 845.00.

1854	RENEWAL OF AFT STBD. SIDE TAIL SHAFT BOTTOM HOLE AREA :-	23,200.00
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Damaged plate and internals cropped and renewed in way of Aft. Stbd. side tail shaft bottom area.

Bottom steel insert Size 1290mm x 700mm x 8mm thickness. - 1 No.

Longitudinal bulkhead insert size size 1350mm x 210mm x 5mm thickness - 1 No.

Angle support size 90mm x 90mm x 6mm thickness. 1100mm long. - 1 No. Vertical flat bar size 70mm width x 6mm thickness x 350mm long.

Fabricated bulbar size 60mm x 20mm x 6 mm thickness x 1100 mm long - 2 Nos. Transverse frame insert size 450mm x 200mm x 5mm thickness - 1 No. Transverse frame insert size 550mm x 200mm x 5mm thickness - 1 No. Transverse frame insert size 600mm x

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>200mm x 5mm thickness - 1 No. Transverse frame insert size 500mm x 200mm x 5mm thickness - 2 Nos.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 250 hours = QRs. 22,000.00. Materials/Consumable:- QRs. 1,200.00.</p>	
1855	<p>RENEWAL OF AFT AREA CAMERA BRACKETS :-</p> <p>AFT area camera's old M.S. bracket cut by grinder. New stainless steel 1" dia. Pipe with bracket fabricated and welded.'C' type bracket, 200mm width x 75mm height x 350mm length- 1 No. Scaffolding arranged for access and later removed on completion size 1.5M x3M x 4M - 1 No.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 25 hours = QRs. 2,200.00. Materials/Consumable:- QRs. 200.00.</p>	2,400.00
1856	<p>REPAIR OF FWD. NEAR FUEL OIL TANK SHELL PLATE :-</p> <p>Steel renewal in way of Fwd. near fuel oil tank no.2. Tank gas freed. Damaged shell plate cut by grinding machine and renewed. Bottom steel insert size 1380mm x 1310mm x 6 mm thickness. - 1 No. F.O. tank No: 2, FWD. bulkhead. size 1130mm x 260mm x 6mm thickness. - 1 No. Bottom frame size 480mm x 260mm x 5mm thickness. - 1 No. Bottom frame size 930mm x 200mm x 5mm thickness. - 1 No. Bottom frame size 380mm x 500mm x 5mm thickness. - 1 No.</p>	46,560.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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M.S. Flat bar size 500mm x 70mm x 5mm thickness - 1 No.  
Vertical stiffener size 110mm x 80mm x 20mm x 6 mm thickness -1 No.

Steel bracket size 200mm x 200mm x 80mm bend x 6mm thickness - 2 Nos. Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 1100mm long - 6 Nos. Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 1310mm long - 3 Nos. Flat bar Size 20mm x 6 mm thickness x 110mm long - 1 No.

Steel plate size 1100 mm x 380mm x 05mm thickness -1 No.  
M.S. flat bar size 70mm x 05mm. thickness x 110mm long- 1 No.

M.S. Plate size 200mm x 930mm x 05 mm thickness - 1 No."

"M.S. Plate size 1130mm x 260mm x 05 mm thickness - 1 No.

M.S. Plate size 260mm x 480mm x 05 mm thickness - 1 No.

M.S. Plate size 500mm x 380mm x 05 mm thickness - 1 No.

M.S. flat bar size 70mm x 05mm thickness - 500mm long - 1 No.

Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 110mm long - 1 No.

Steel plate size 1100 mm x 210mm x 06mm thickness. - 1 No.

Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 1330mm long - 1 No. M.S. Plate size 1100mm x 380mm x 05 mm thickness - 1 No.

M.S. flat bar x size 70mm x 5mm thickness x 1100mm long - 1 No.

Fabricator/Welder:- QRs. 88.00 per hour x 515 hours = QRs. 45,320.00.

Materials/Consumable:- QRs. 1,240.00.

1857	REPAIR OF FWD. WINDLASS FOUNDATION :-	16,762.00
------	---------------------------------------	-----------

Anchor windlass unit removed from location and send to blasting and painting. Gear box cover removed and cleaned. Cover refitted back with yard supplied new gasket. Shifted to onboard and installed back on position. And navy supplied gear

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	box oil filled. Witnessed by client.	
	Fabricator/Mechanic:- QRs. 88.00 per hour x 189 hours = QRs. 16,632.00.	
	Materials/Consumable:- QRs. 130.00.	
1858	REPAIR OF FWD. WAVE BREAKER :-	19,281.00
	Fwd. wave breaker dismantled and shifted to work shop.Wave breaker over all size 8000 mm x 450mm.	
	Lower part of wave breaker cut and renewed as follows.	
	Aluminum insert plate size 80mm width x 8000mm long x 6mm thickness - 1 No. Damaged aluminum bracket cut and renewed size 300mm x 80mm x 6mm thickness - 10 Nos.	
	Deck landing area cut and renewed insert size 270mm x 200mm x 6mm thickness ms plate - 1 No.	
	M.S. plate size 300 mm x 150mm x 6mm thickness - 1 No.	
	Wave breaker flange Aluminum plate size 300mm x 90mm x 6mm thickness - 2 Nos.	
	Aluminum plate size 150mm x 90mm x 6mm thickness - 2 Nos.	
	All stainless steel bolts, nuts and washer renewed.	
	Stainless steel bolt size M 8 x 25mm long - 270 Nos.	
	Stainless steel nuts. M 8 - 270 Nos.	
	Stainless steel washer M 8 - 270 Nos.	
	Fabricator/Welder:- QRs. 88.00 per hour x 207 Hours = QRs. 18,216.00.	
	Materials/ Consumables:- QRs. 1,065.00.	
1859	REPAIR OF BOLLARD :-	7,974.00
	3 Nos. bollard pipe cut and renewed to size 2 ½" dia. Sch80,	

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	<p>M.S. pipe x 150mm long - 6 Nos.  2 ½" dia. Sch80, M.S. pipe, 200mm long - 03 Nos.M.S. plate (end plate) 100mm dia. x 10mm thickness. - 6 Nos.  M.S. plate (end plate) 90mm dia. x 10mm thickness. - 6 Nos.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 88 Hours = QRs. 7,744.00.  Materials/ Consumables:- QRs. 230.00.</p>	
1860	<p>REPAIR OF WHEEL HOUSE ALUMINIUM DAMAGED AREA :-</p> <p>Aluminum plate cut and renewed in wheel house areaDamaged area cut and renewed. New bimetal strip (steel and aluminum) transition joint used.  Size 35mm x 20mm x 250mm long. - 1 No.  2" dia. , fresh water air vent cut and removed for access,refitted and welded the same after the completion of work.  Scaffolding arranged size 4 M x 3 M x 06 M height. - 1 No.  M.S. Plate size 70mm width x 2250mm length x 6 mm thickness. - 1 No.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 46 Hours = QRs. 4,048.00.  Scaffolding :- QRs. 30.00 per cubic meter x 72 cubic meters = QRs. 2,160.00.  Materials/ Consumables:- QRs. 1,400.00.</p>	7,608.00
1861	<p>REPAIR OF FWD. GUN ROOM SCRAP HATCH COAMING AREA :-</p> <p>Fwd. gun room scrap hatch coming cut and renewed. Rolled plate (M.S.) 200mm x 250mm x 6 mm thickness. - 1 No.</p>	2,426.00

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Lock pocket plate size 60mm x 60mm x 6mm thickness - 1 No.  
M.S. Plate 60mm x 75mm x 6mm thickness- 1 No.

Fabricator/Welder:- QRs. 88.00 per hour x 27 Hours = QRs.  
2,376.00.

Materials/ Consumables:- QRs. 50.00.

1862	REPAIR OF UPPER DECK STBD. SIDE TOP OF ALUMINIUM PLATE :-	6,279.00
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Aluminum damaged plate cut and renewed in way of upper deck  
stbd. side top of galley area.  
Ceiling removed and refitted for access and later refitted.  
Electrical cables removed for access and later refitted.  
Under deck stiffener aluminum flat bar -30mm width x 5mm  
thickness x 2000mm long - 01 No.

Fabricator/Welder:- QRs. 88.00 per hour x 26 Hours = QRs.  
2,288.00.

Carpenter/ Fireman:- QRs. 75.00 per hour x 31Hours = QRs.  
2,325.00.

Materials/ Consumables:- QRs. 1,666.00.

1863	RENEWAL OF SPRINKLER PAINT AREA DECK PLATE :-	3,740.00
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Sprinkler area on main deck plate fitted and welded to size  
200mm x 200mm x 6mm thickness. - 3 Nos.

Fabricator/Welder:- QRs. 88.00 per hour x 42 Hours = QRs.  
3,696.00.

Consumables:- QRs. 44.00.

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W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
1864	RENEWAL OF HINGES :-  Upper deck of wheel house stbd. side area 2 Nos. hinges fabricated and renewed. Hinges packing plate size 120mm x 50mm x 8mm thickness. - 06 Nos. provided with 3 Nos. 14mm dia. drill holes. Stainless steel bolt size M 12 x 60mm long - 18 Nos. S.S pin manufactured to size 18mm dia. x 90mm long - 3 Nos. M.S. Plate size 65mm x 50mm x 8mm thickness - 6 Nos. Stainless steel split pin size 3mm dia. x 3 Nos. M.S. Plate size 40mm x 50mm x 8mm thickness - 3 Nos.  Fabricator/Welder:- QRs. 88.00 per hour x 22 Hours = QRs. 1,936.00. Material/Consumables:- QRs. 150.00.	2,086.00
1865	RENEWAL OF UPPER DECK COAMING :-  Upper deck aft area damaged coaming cut and removed. New coaming fabricated, fitted and welded to size 200mm x 350mm x 6mm thickness MS palte - 1 No. M.S. plate size 250mm x 350mm x 6mm thickness. - 1 No. M.S. plate size 600mm x 300mm x 6mm thickness. - 1 No. Scaffolding arranged for access and later removed on completion to size 3M x 2M x 1.5M. - 2 Nos. Insulation and ceiling removed and refitted.  Fabricator/Welder:- QRs. 88.00 per hour x 22 Hours = QRs. 1,936.00. Scaffolding:- QRs. 30.00 per cubic meter x Min. 25 Cubic meters x 2 Nos. = QRs. 1,500.00.	3,436.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1866	<p>FREEING OF MAIN DECK ROPE ROLLER :-</p> <p>Main deck rope roller removed and freed, bracket renewed and refitted, Roller assembled on completion of work.</p> <p>M.S. bracket plate size 100mm x 100mm x 6 mm thickness - 2 Nos.</p> <p>M.S. bracket plate size 150mm x 100mm x 6 mm thickness - 1 No.</p> <p>M.S. bracket plate size 220mm x 250mm x 6 mm thickness - 1 No.</p> <p>M.S. bracket plate size 250mm x 100mm x 6 mm thickness - 2 Nos.</p> <p>Stainless steel bottom bracket size 12mm x 50mm x 6 mm thickness. - 3 Nos.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 53 Hours = QRs. 4,664.00.</p> <p>Consumable:- 80.00.</p>	4,744.00
1867	<p>REPAIR OF STBD. BULWARK HOLE AREA :-</p> <p>Lube oil tank manhole opened. Lube oil transferred.</p> <p>Tank cleaned and gas freed stbd. bulwark holed thinned area cut by grinding machine.</p> <p>New plate fabricated, fitted and welded. Bulwark plate size 250mm x 225mm x 6mm thickness. - 1 No.</p> <p>Face plate size 6mm x 35mm x 200mm -1 No.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 40 Hours = QRs. 3,520.00.</p> <p>Consumable:- 30.00.</p>	3,550.00
1868	<p>REPAIR OF MAIN DECK PORT SIDE BOLLARD :-</p>	2,958.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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2 Nos. bollard repaired on main deck port side.  
Damaged cross pipe and end plates cut and renewed.  
M.S. Pipe, sch. 80. 2 ½" dia. 150mm long - 4 Nos.  
M.S. Pipe, sch. 80. 2 ½" dia. 200mm long - 2 Nos.  
M.S. end plates (Top side) 100mm dia. - 4 Nos.  
M.S. end plates 90mm dia. - 4 Nos.

Fabricator/Welder:- QRs. 88.00 per hour x 31 Hours = QRs.  
2,728.00.

Material/Consumable:- 230.00.

1869	REPAIR OF AFT GUN BASE HOLE AREA :-	1,948.00
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Aft gun base holed area & brackets cut and renewed.  
M.S. bracket, 100mm x 80mm x 8mm thickness - 4 Nos.  
M.S. bracket, 100mm x 50mm x 8mm thickness - 3 Nos.

Fabricator/Welder:- QRs. 88.00 per hour x 21 Hours = QRs.  
1,848.00.

Material/Consumable:- 100.00.

1870	REMOVAL AND REFITTING OF MAIN DECK COVER :-	1,760.00
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Main deck cable cover opened, removed, bracket repaired,  
painted and refitted by riveting. M.S. flat bar 40mm width x  
300mm length x 6mm thickness. - 1 No. Aluminum rivet size 4.2mm  
- 6 Nos.

Fabricator:- QRs. 88.00 per hour x 20 Hours = QRs. 1,760.00.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1871	REPAIR OF MAIN DECK AFT STBD. WATER SPRINKLER AREA :-  Main deck aft stbd. water sprinkler area deck damaged steel cut and renewed. Insulation removed and refitted for access. Fresh water pipe lines disconnected for access in way of repairing area. Deck insert size 200mm x 200mm x 6mm thickness. - 1 No.  Fabricator:- QRs. 88.00 per hour x 26Hours = QRs. 2,288.00. Material / Consumable:- QRs. 283.00.	2,571.00
1872	REPAIR OF UPPER DECK PETTING AREA :-  Upper deck petting area repaired by build-up welding in approx. 40 locations.  Welder:- QRs. 88.00 per hour x 43 hours = QRs. 3,784.00. Consumable:- QRs. 75.00.	3,859.00
1873	REPAIR OF EXHUAST FWD. STBD. BOTTOM PLATE :-  Existing damaged steel cut and removed by grinding machine. New plate and internals fabricated, fitted and welded. Bottom plate size 1455mm x 570mm x 06 mm thickness - 1 No. Fabricated bulb bar size 80mm x 20mm x 6 mm thickness x1560mm long - 2 Nos. Bracket size 600mm x 200mm x 6 mm thickness - 2 Nos. Backing strip flat plates size 30 mm width x 5mm thickness x 600mm long - 2 Nos. Scaffolding arranged for access and later removed on completion size approx. 4mtr. x 4 mtr. x 02 mtr. -1 No.	11,279.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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Fabricator/Welder:- QRs. 88.00 per hour x 113 Hours = QRs.  
9,944.00.

Consumable:- 535.00.

Scaffolding:- QRs. 25.00 per cubic meter x 32 cubic meter =  
QRs. 800.00.

1874	REPAIR OF MAIN ENGINE EXHUAUST FLAP :-	17,998.00
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3 Nos. main engine exhaust flap blasted.  
After blasting found crack, cracked area re-welded. Small and  
big flap disc repaired and welded.

Pipe fitter/Mechanic:- QRs. 88.00 per hour x 190 Hours = QRs.  
16,720.00.

Material/Consumable:- 1,278.00.

1875	REPAIR OF FWD. ENGINE ROOM BOTTOM PLATE :-	11,886.00
------	--	-----------

Fwd. engine room under exhaust of main engine port and stbd.  
side bottom plate and internals cropped and renewed.  
Bottom steel insert size 2050mm x 575mm x 6mm thickness - 1 No.  
Side bracket size 600mm x 200mm x 6mm thickness - 3 Nos.  
Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 2100 mm  
long - 2 Nos. M.S. Flat bar for Backing strips size 30mm width  
x 05mm thickness x 600mm long - 3 Nos.  
Scaffolding arranged for access and later removed on completion  
size 3M x 3M x 1M - 1 No.

Fabricator/Welder:- QRs. 88.00 per hour x 122 Hours = QRs.  
10,736.00.

Consumable:- 525.00.

Scaffolding:- QRs. 25.00 per cubic meter x min. 25 cubic meter

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	= QRs. 625.00.	
1876	<p>REPAIR OF STBD. SIDE NEAR WATER LINE DENT PLATE :-</p> <p>Damaged steel and internals cut and renewed in way of stbd. Side water line level steel insert size 2300mm x 1000mm x 8mm thickness - 1 No. Fabricated bulbar size 80mm x 20mm x 6mm thickness x 2200mm long - 1 No. Fabricated bulbar size 80mm x 20mm x 6mm thickness x 1200mm long - 1 No. Fabricated bulbar size 80mm x 20mm x 6mm thickness. 900mm long - 1 No. Scaffolding arranged for access size 6M x 2.5M x 2M.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 50 Hours = QRs. 4,400.00.</p> <p>Material/Consumable:- 863.00.</p> <p>Scaffolding:- QRs. 25.00 per cubic meter x 30 cubic meter = QRs. 750.00.</p>	6,013.00
1877	<p>RENEWAL OF CHAIN LOCKER HOLDING PLATE FRAMES :-</p> <p>Chain locker all wood removed, repaired, refitted in completion of work, damaged holding plate frames cut and renewed.</p> <p>M.S. channel size 150mm x 75mm x 10mm thickness x 600mm long - 1 No.</p> <p>M.S. channel size 150mm x 75mm x 10mm thickness x 400mm long - 1 No. Stainless steel bolt, nut and washer size M 14 x 60mm - 12 Nos.</p> <p>M.S. Flat bar size 60mm x 6mm thickness x 500mm long - 1 No.</p> <p>M.S. Flat bar size 60mm x 6mm thickness x 550mm long - 2 Nos.</p> <p>M.S. Flat bar size 60mm x 6mm thickness x 400mm long - 1 No.</p>	17,449.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>M.S. Flat bar - 60mm x 6mm thickness x 450mm long - 1 No.  M.S. Flat bar size 60mm x 6mm thickness x 120mm long - 2 Nos.  M.S. Flat bar size 60mm x 6mm thickness x 300mm long - 2 Nos.  FED frame size 250mm x 300mm x 6mm thickness - 1 No.  Scaffolding arranged for access and later removed to size 3M x 1.5M x 2.5M - 1 No.  Fabricator/Welder:- QRs. 88.00 per hour x 158 Hours = QRs. 13,904.00.  Carpenter:- QRs. 75.00 per hour x 39 hours = QRs. 2,925.00.  Material/Consumable:-620.00.</p>	
1878	<p>RENEWAL OF PORT SIDE FWD. ABOVE GREY WATER SHELL PLATE :-</p> <p>Cut and renewed damaged shell plate in way of Port side fwd. above of grey water tank.  Steel insert size 625mm x 2180mm x 6mm thickness - 1 No.  Fabricated bulbar size 80mm x 20mm x 6mm thickness x 2020mm long - 6 Nos. Face plate size 70mm x 6mm thickness x 1120mm long - 2 Nos.  Longitudinal girder insert size 330mm x 6mm thickness x 1120mm long - 2 Nos. Scaffolding arranged for access size 4.5M x 3M x 1M. - 1 No.</p> <p>Fabricator/Welder:- QRs. 88.00 per hour x 123 Hours = QRs. 10,824.00.  Material/Consumable:-375.00.  Scaffolding :- QRs. 25.00 per cubic meter x 25 Cubic Meter = QRs. 625.00.</p>	11,824.00
1879	<p>RENEWAL OF BLACK TANK AFT HOLE AREA :-</p> <p>Black tank aft holed area cropped and renewed.</p>	16,965.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Black water tank opened and cleaned.

Black water tank fwd. bulkhead renewed to size 610mm x 330mm x 6mm thickness - 1 No.

Internal stiffener renewed to size 600mm x 50mm x 6mm thickness. - 4 Nos. Scaffolding arranged for access and later removed on completion size 3M x 3M x 1M - 1 No.

Fabricator/Welder:- QRs. 88.00 per hour x 180 Hours = QRs. 15,840.00.

Material/Consumable:-500.00.

Scaffolding :- QRs. 25.00 per cubic meter x Min. 25 Cubic Meter = QRs. 625.00.

1880	REPAIR OF FWD. AREA STBD. SIDE :-	8,669.00
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Fwd. area stbd. side and port side steel insert.

M.S. plate, 3600mm x 700mm x 6 mm thickness - 1 No.

Stbd. Side M.S. Plate size 1450mm x 600mm x 6mm thickness. - 1 No.

(Port side shell plate Fabricated Bulbar size 80mm x 20mm x 6mm thickness - 1500mm long - 02 Nos.

Fabricated Bulbar size 80mm x 20mm x 6mm thickness - 3700mm long - 3 Nos. Internal area cleaned and painted.

Scaffolding arranged for access and later removed on completion size 6M x 2M x 1M.

Fabricator/Welder:- QRs. 88.00 per hour x 88 Hours = QRs. 7,744.00.

Material/Consumable:-300.00.

Scaffolding :- QRs. 25.00 per cubic meter x Min. 25 Cubic Meter = QRs. 625.00.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1881	REPAIR OF STERN LIGHT AND UNDER TOWING LIGHT BASE :-  Opened and removed the light post and shifted to work shop. Fabricated, fitted and welded new aluminum light base and welded on post Size 260mm x 250mm x 6mm thickness - 2 Nos. Stainless steel bolt and nut size M 12 x 25mm long - 6 Nos.  Fabricator/Welder:- QRs. 88.00 per hour x 26 Hours = QRs. 2,288.00. Material/Consumable:- QRs. 62.00.	2,350.00
1882	REPAIR OF STBD. SIDE FUEL OIL TANK DAMAGED AREA :-  Stbd. side at bottom damaged shell plate, stiffeners and brackets cropped by grinding machine and renewed in way of fuel oil tank no.1.F.O. tank manhole opened and make gas free for hot work. Bottom shell insert plate size 2400mm x 700mm x 6mm thickness. - 1 No. Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 2400 mm long - 2 Nos. Side bracket size 300mm x 200mm x 5mm thickness. - 5 Nos. F.O. tank longitudinal bulkhead size 2400mm x 250mm x 6mm thickness. - 1 No. F.O. Tank No. 1 air pressure tested. Scaffolding arranged and later removed size 3M x 3M x 1M - 1 No.  Fabricator/Welder:- QRs. 88.00 per hour x 334 Hours = QRs. 29,392.00. Material/Consumable:- QRs. 1,000.00.	30,392.00
1883	REPAIR OF STBD. SIDE FWD. ENGINE ROOM AREA :-	24,885.00

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Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Docking block removed and shifted to other location for access.  
Corroded bottom plate and internals cropped by grinding machine and renewed in way of Stbd. side fwd. engine room near of pump.  
Bottom insert plate size 1450mm x 1050mm x 6mm thickness. - 1 No.  
Longitudinal corroded frame cropped and renewed size 1000mm x 1000mm x 6mm thickness. -1 No.  
M.S. Flat bar size 25mm width x 6mm thickness x 1600mm long. - 2 Nos.  
Side frame size 1000mm x 900 mm x 6mm thickness. - 1 No.  
M.S. Flat bar size 25mm width x 6mm thickness x 1000mm long. - 1 No.  
Side bracket size 300mm x 300mm x 5mm thickness. - 1 No.  
Longitudinal corroded frame cropped and renewed to size 1000mm x 200mm x 6mm thickness. - 1 No.  
M.S. BHD plate in way of engine room -900mm x 950mm x 6mm thickness.- 1 No.  
Side bracket size 300mm x 280mm x 5mm thickness. - 01 No.  
Fabricated bulbar -80mm x 20mm x 6 mm thickness. 780 mm long - 1 No. Fabricated bulbar -80mm x 20mm x 6 mm thickness. 920 mm long - 1 No. "  
"Fabricated bulbar -80mm x 20mm x 6 mm thickness. 910 mm long - 1 No. Fabricated bulbar -80mm x 20mm x 6 mm thickness. 850 mm long - 1 No. Vertical stiffener (bulbar) 80mm x 20mm x 6mm thickness. 725mm long - 1 No.  
Scaffolding arranged. - 3m x 3M x 1M - 1 No.

Fabricator/Welder:- QRs. 88.00 per hour x 270 Hours = QRs. 23,760.00.

Material/Consumable:- QRs. 500.00.

Scaffolding :- QRs. 25.00 per cubic meter x 25 Cubic Meter = QRs. 625.00.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
1884	REPAIR OF STBD. SIDE AFT ENGINE ROOM UNDER WATER BHD. PLATE :-  Stbd. side aft engine room under water bhd., Bottom plate, internal brackets and bulbar cropped and renewed. Bottom steel insert size 1900mm x 670mm x 8mm thickness. - 1 No. Longitudinal frame steel insert size 300mm x 380mm x 6mm thickness. - 1 No. Bulkhead plate size 770mm x 325mm x 6mm thickness. - 1 No. Longitudinal frame steel insert size 480mm x 145mm x 5mm thickness. - 1 No. Transverse frame steel insert size size 685mm x 340mm x 5mm thickness. - 1 No. Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 470 mm long - 2 Nos. Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 810 mm long - 1 No. Fabricated bulbar size 80mm x 20mm x 6 mm thickness x 7700 mm long - 2 Nos. Vertical bracket size size 200mm x 200mm x 6mm thickness. Scaffolding arranged for access and later removed size 3M x 3M x 1M. - 1 No.  Fabricator/Welder:- QRs. 88.00 per hour x 173 Hours = QRs. 15,224.00. Material/Consumable:- QRs. 595.00. Scaffolding :- QRs. 25.00 per cubic meter x Min. 25 Cubic Meter = QRs. 625.00.	16,444.00
1885	RENEWAL OF KEEL PLATE :-  Three area keel plate at aft cut and renewed. Docking bhocks shifted for access. Keel plate size size 1150mm x 280mm x 8mm thickness. - 1 No. Keel plate size size 300mm x 280mm x 8mm thickness. - 1 No. Keel plate size size 800mm x 280mm x 8mm thickness. - 1 No.	14,254.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	<p>Fabricator/Welder/Pipe fitter:- QRs. 88.00 per hour x 143 hours = QRs. 12,584.00. carpenter:- QRs. 75.00 per hour x 20 hours = QRs. 1,500.00. Consumable:- QRs. 170.00.</p>	
1886	<p>REPAIR OF HEAT EXCHANGER FOR MAIN ENGINE COVER :-</p> <p>Work done by machinist.</p> <p>Machinist/Welder:- QRs. 88.00 per hour x 30 Hours = QRs. 2,640.00. Consumable:- QRs. 150.00.</p>	2,790.00
1887	<p>RENEWAL OF MAIN DECK PORT AND STBD. SIDE DRAIN UNIT WITH BASE :-</p> <p>Main deck port &amp; Stbd. drain unit renewed with base. Base unit material M.S. 160mm x 125mm x 25mm bend, provided with 10mm dia. drill hole - 2 Nos. Stainless steel plate size 170mm x 265mm x 2mm thickness, 25mm bend and 10mm drill hole both side - 8 Nos. Stainless steel bolt, nut and washer size M8 x 20mm - 16 Nos. Scaffolding arranged for access and later removed size 3M x 2M x 6M. - 2 Nos.</p> <p>Fabricator/Welder/Pipe fitter:- QRs. 88.00 per hour x 33 hours = QRs. 2,904.00. Scaffolding :- QRs. 25.00 per cubic meter x 25 Cubic Meter = QRs. 625.00. Material/Consumable:- QRs. 200.00.</p>	3,729.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
1888	RENEWAL OF FWD. AND AFT DECK SPENGLER :-  Fwd. and Aft. deck Spengler inspected and renewed size 200mm x 200mm x 6 mm thickness M.S. plate - 2 Nos. Insulation material removed and refitted for access. - 02 locations. Water pipe lines disconnected for access and refitted.  Fabricator/Pipe fitter:- QRs. 88.00 per hour x 43 hours = QRs. 3,784.00.	3,884.00
1889	REPAIR OF UPPER DECK STBD. SIDE NEAR RUBBER JOINT HOLE AREA :-  Upper deck STBD side near rubber joint hold area steel insert size. M.S. plate size 280mm x 160mm x 6 mm thickness. - 1 No. Ceiling opened and insulation material removed for access. Hand rail foundation cut and removed for access and later refitted.  Fabricator/Welder:- QRs. 88.00 per hour x 27 hours = QRs. 2,376.00.	2,376.00
1890	REPAIR OF BELOW OF SEWAGE TANK AFT AREA :-  Skeg bend plate near black water tank cropped and renewed. Internal bulk head size 920mm x 510mm x 6mm thickness. - 1 No. Port and stbd skeg plate size 680mm x 740mm x 6mm. - 2 Nos.  Fabricator/Welder:- QRs. 88.00 per hour x 41 hours = QRs. 3,608.00. Consumable;- 100.00.	3,708.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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1891	REPAIR OF MAST AREA ALUMINIUM BRACKETS :-	3,896.00
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Cut and renewed holed aluminum deck plate in way of mast area.  
Deck plate size 300mm x 200mm x 6mm thickness aluminum plate - 1 No.

Ceiling and insulation opened removed for access and later refitted on completion.

Fabricator/Welder:- QRs. 88.00 per hour x 42 hours = QRs. 3,696.00.

Material/Consumable:- 200.00.

1892	RENEWAL OF MAIN DECK MUSHROOM AREA :-	7,476.00
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A total of 9 Nos. Main deck aluminum mushroom head shifted to workshop, dismantled, overhauled, blasted, painted and refitted with new gasket and nut bolts.

Mushroom vent head over all size 480mm dia. x 450mm height - 4 Nos. Internal cracked

area repaired by aluminum welding. - 2 Nos.

Damaged area cut and renewed using aluminum flat bar size 60mm x 20 mm x 6 mm thickness - 1 No.

All rubber gasket renewed. 310mm OD, x 3mm thickness neoprene rubber sheet- 4 Nos.

Stainless steel bolt, nut and washersize M 10 x 30mm - 56 Nos.

Aluminum mushroom vent head over all size - 300mm dia. mushroom vent head dismantled, overhauled, blasted, painted and refitted with new gasket and nut bolts - 5 Nos.

Stainless steel nut, bolt and washer size M 10 x 30mm - 70 Nos.

Internal cracked area rewelded.

Fabricator/Welder:- QRs. 88.00 per hour x 82 hours = QRs.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	7,216.00. Material/Consumable:- 260.00.	
1893	RENEWAL OF PORT SIDE FWD. ENGINE ROOM BELOW OF COMPRESSOR PLATE :-  Port side fwd. engine room below of A/C compressor area bottom shell and internals cut and removed. New plate fabricated, installed and welded. Bottom insert plate size 615mm x 1130mm x 6mm thickness. - 1 No. Bracket insert size 570mm x 200mm x 5mm thickness. - 1 No. Bracket insert size 635mm x 450mm x 5mm thickness. - 1 No. Fabricated bulbar size 80mm x 20mm x 6 mm thickness. 690 mm long - 01 No. Hoses disconnected removed in way for access and later refitted on completion of work. Scaffolding arranged for access and later removed to size 3M x 3M x 1M - 01 No.  Fabricator/Welder:- QRs. 88.00 per hour x 106 hours = QRs. 9,328.00. Material/Consumable:- 550.00.	9,878.00
1894	RENEWAL OF UPPER DECK GUN BASE PLATE AND BRACKET :-  Upper gun base bracket, cover plate damaged area cropped, removed. Fabricated new bracket and cover plate, fitted and welded. Port and stbd side gun base cover plate overall size 2300mm dia x 08 mm thickness. Disconnected and shifted to workshop. Corroded bracket on upper deck cropped, new fabricated and welded. Stbd. Side Bracket size (Big)- 570mm x 205mm x 8mm thickness. -	17,950.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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2 Nos.

Port side Bracket size (Small) size 200mm x 200mm x 8 mm

thickness - 4 Nos. Port side big bracket size 205mm x 57mm x

8mm thickness. - 5 Nos.

Stainless steel bolt, nut and washer size M16 x 60mm long - 60

Nos.

Each Gun base rubber packing renewed to size 1310mm dia. x 5mm

thickness. Provided 18 holes. - 2 Nos.

Stbd. Side damaged area cut and renewed size 1100mm long x 150mm

width x 8mm thickness M.S. plate - 6 Nos.

Port side gun base corner plate size 310mm x 900mm x 8mm

thickness.- 1 No.

Size 800mm x 200mm x 8 mm thickness . - 05 Nos.

Ceiling and insulation material removed for welding and later  
refitted.

Fabricator/Welder:- QRs. 88.00 per hour x 170 hours = QRs.

14,960.00.

Painter:- QRs. 7500 per hour x 23 hours = QRs. 1,725.00.

Material/Consumable:- 1,265.00.

1895 RENEWAL OF SUPER STRUCTURE AREA LIGHT BRACKET :-

1,510.00

Super structure area light bracket and support renewed.

M.S. Flat bar size 75mm x 25mm x 5mm thickness provided with 2

Nos 8mm dia. drill holes - 01 No.

Stainless steel bolt, nut and washer size M6 x 20mm - 02 Nos.

Stainless steel clamp - ½" dia. x 3mm thickness. - 01 No.

Fabricator/Welder:- QRs. 88.00 per hour x 17 hours = QRs.

1,496.00.

Material/Consumable:- 14.00.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
1896	REPAIR OF DECK AREA :-  3 locations on port and stbd. deck hole area repaired by built up welding. Included in Job No. 1872.	
1897	POLISHING OF LADDER STEP :-  Main deck to upper deck aluminum ladder step polished. Main deck to FWD engine room aluminum ladder step size 400mm x 180mm - 11 steps. 1 No. Gun room ladder steps size 400mm x 180mm -11 steps. 1 No. FWD engine room ladder steps size 400mm x 180mm -11 steps. 1 No. Aft accommodation ladder size 400mm x 180mm - 11 steps. 1 No. C.I.C. room ladder size 400mm x 180mm - 11 steps. 1 No. Wheel house ladder step size 400mm x 180mm - 11 steps.  Fabricator:- QRs. 88.00 per hour x 108 Hours = QRs. 9,504.00. Material:- 250.00.	9,504.00
1898	REPAIR OF BED SUPPORT :-  Bed frame opened and removed old rivet by drilling machine. Installed the frame with new rivets. 4.2mm drill holes - 4 Nos. 4mm rivet - 4 Nos.  Fabricator:- QRs. 88.00 per hour x 12 hours = QRs. 1,056.00. Materials/Consumable:- 14.00.	1,070.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
2200	RENEWAL OF 76MM GUN AND CANVAS COVERS :- 4 Nos. Gun covers renewed by specialist subcontractor.	1,200.00
2201	RENEWAL OF GYRO REPEATER CANVAS :- Port and stbd, side Gyro repeater canvas made as per sample .	345.00
2202	RENEWAL OF PORTABLE FIRE ExTINGUISHER PUMP COVER :- Canvas cover renewed to size 1500mm x 1000mm - 2 Nos. Canvas cover renewed to size 1000mm x 500mm - 1 No.	552.00
2203	RENEWAL OF YAMAHA OUTBOARD ENGINE CANVAS COVER :- Yamaha outboard engine canvas cover made as per Navy instruction.	414.00
2204	RENEWAL OF ZODIAC BOAT CANVAS COVER :- Job has been cancelled.	
2205	RENEWAL OF SUN MICA SHEET OF TABLES IN CREW MESS AND AFT ACCOMODATION :- Sun mica sheet of tables in crew mess and aft accommodation renewed using yard supplied materials. Carpenter:- QRs. 75.00 per hour x 79 hours = QRs. 5,625.00.	6,055.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	Material/Consumable:- QRs. 430.00.	
2206	RENEWAL OF JUNDI MESS WOODEN TABLE :-  Jundi mess wooden table repaired, necessary renewed using yard Supplied materials.  Carpenter:- QRs. 75.00 per hour x 38 hours = QRs. 2,850.00. Material/Consumable:- QRs. 100.00.	2,950.00
2207	RENEWAL OF BRIDGE CAPTAIN CHAIR :-  Bridge captain chair renewed.  Carpenter:- QRs. 75.00 per hour x 41 hours = QRs. 3,075.00. Material/Consumable:- QRs. 200.00.	3,275.00
2208	RENEWAL OF MCR TABLE PROSPECT SHEET :-  MCR table prospect sheet repaired, necessary renewed.  Carpenter:- QRs. 75.00 per hour x 16 hours = QRs. 1,200.00.	1,200.00
2209	RENEWAL OF JUNDI MESS WOODEN TABLE :-  Jundi mess wooden table repaired, necessary renewed. Yard Supplied Foam sheet size 15 meters.  Carpenter:- QRs. 75.00 per hour x 40 hours = QRs. 3,520.00.	6,625.00

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	Subcontractor cost:- QRs. 3,105.00.	
2210	REPAIR OF STORAGE RACK IN FRONT OF REFRIGERATION COLD ROOM :-  Storage racks in front of refrigeration cold room repaired. Freezer rack aluminum clamp manufactured in machine shop - 04 pair. All rack Stainless steel bolts and nuts renewed.S.S.bolt, nut and washer - M10 x 30 long - 40 Nos.  Carpenter:- QRs. 75.00 per hour x 58 hours = QRs. 4,350.00. Material/Consumable:- QRs. 300.00.	4,650.00
2211	RENEWAL OF MCR SEAT COVER :-  10 Nos. chair small seat & back covers renewed by specialist subcontractor for MCR.  Carpenter:- QRs. 75.00 per hour x 58 hours = QRs. 4,350.00. Material/Consumable:- QRs. 300.00.	1,600.00
2212	RENEWAL OF ENGINE ROOM SEAT COVER :-  Fwd. and aft engine room seat and back cover renewed.	575.00
2213	REPAIR OF GANGWAY ROSTAM SEAT COVER :-  Gangway rostam and table repaired.	500.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
2214	RENEWAL OF OFFICER SLATE BOARD AT GANGWAY :-  Officers slate board at gangway made new ass per ship requirement.  Carpenter:- QRs. 75.00 per hour x 6 hours = QRs. 450.00. Subcontractor cost:- QRs. 455.00.	905.00
2215	REPAIR OF FWD. AND AFT ACCOMODATION SHOES RACK :-  Fwd. and aft accommodation shoes rack repaired. Aft accommodation shoe rack repaired - 16 Nos. Existing rail rivet removed and new rivet fixed. Aluminum blind rivet, 3.2mm - 40 Nos. FWD accommodation shoe rack repaired - 09 Nos. Existing rail rivet removed and new rivet fixed. Aluminum blind rivet, 3.2mm - 30 Nos.  Carpenter:- QRs. 75.00 per hour x 18 hours = QRs. 1,350.00.	1,350.00
2216	REPAIR OF JUNDI MESS WOODEN FRAME :-  Jundi mess wooden frame repaired and seat changed. Yard Supplied materials. Mess room following covers fabricated and fitted by specialist subcontractor. Mess room seat back cover -1.6 Meters. Mess room bench seat back cover -3 Nos. Mess room Becch seat back cover -8 Meters. Mess room bench seat back foam -12 meters.  Carpenter:- QRs. 75.00 per hour x 26 hours = QRs. 1,950.00.	11,771.00

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No.2347/20]

Job No	Description	Line Amount
	Subcontractor cost:- QRs. 9,821.00.	
2217	RENEWAL OF WOODEN BASE :-  1 in no. wooden/steel base to be made new in CIC area as per Navy instruction for charging WAKEEL and TALKEE)  Carpenter:- QRs. 75.00 per hour x 14 hours = QRs. 1,050.00. Consumable:- QRs. 20.00	1,070.00
2218	RENEWAL OF WOODEN BOX :-  1 no. wooden box made new in bridge as per ship requirement (for securing of WAKEEL and TALKEE) size 320mm x 130mm x 200mm using 12mm thickness plywood.  Carpenter:- QRs. 75 per hour x 16 hours = QRs. 1,200.00. Material/Consumable :- QRs. 50.00.	1,250.00
2219	RENEWAL OF WOODEN RACKS :-  3 in Nos. wooden racks made new in technical room as per ship requirement. Using yard Supplied materials  Carpenter:- QRs. 75 per hour x 64 hours = QRs. 4,800.00. Material/Consumable :- QRs. 150.00.	4,950.00
2220	REPAIR OF CHAIS :-  10 Nos. chairs seat and back foam renewed.	1,375.00

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Job No	Description	Line Amount
	<p>repaired/replaced and broken changed. Using ard Supplied materials</p> <p>Carpenter:- QRs. 75.00 per hour x 3 hours = QRs. 225.00. Subcontractor cost:- QRs. 1,150.00.</p>	
2221	<p>RENOVATION OF CAPTAIN CABIN :-</p> <p>9 Square meters carpets renewed by specialist subcontractor for Captain cabin.</p>	1,139.00
2222	<p>RENOVATION OF OFFICERS MESS AND CABINS :-</p> <p>27 Square meters carpets renewed by specialist subcontractor for Officers mess and cabins. 9 Square meters carpets renewed by specialist subcontractor for ward room</p>	4,554.00
2223	<p>RENOVATION OF WAKEEL MESS :-</p> <p>9 Square meters carpets renewed by specialist subcontractor for Wakeel mess .</p>	1,139.00
2224	<p>RENEWAL OF GLASS SEAL :-</p> <p>Bridge glass seal renewed using sikaflex.</p> <p>Carpenter:- QRs. 75.00 per hour x 24 hour = Qrs. 1,800.00. Consumable:- QRs. 200.00.</p>	2,000.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
2225	REMOVAL OF SIDE AND CENTER BLOCK :-  1 No. Side block and 3 Nos. center blocks removed and later refitted after completion of steel work.  Based on standard schedule of rates, page No. 9 (QRs. 360.00 per piece x 4 Pieces = QRs. 1,440.00).	1,440.00
2226	RENEWAL OF FLOOR AREA ACCOMODATION FLOOR PLATE HANDLE :-  Floor area accommodation floor plate handle supplied and fitted using yard Supplied materials.  Included in Job No. 1832.	
2400	CLEANING OF FUEL TANKS :-  Fuel tank no. 1, 2,3,4,5,6,7,8 and 9 manhole opened, gas freed, tanks cleaned necessary pressure test carried out as per Navy instruction.Bail out remaining oil and disposed Steel section workAll F.O.T tank manhole cover opened and closed.Provided new oil gasket ( 520mm x 420mmx3mm thickness. 32 holes.) 12 Nos.Stainless steel Nuts M 10 - 110 Nos.  Cleaner :-QRs. 48 per hour x 558 hours = QRs. 26,784.00. Consumable :- 1,800.00.	28,584.00
2401	CLEANING OF FWD. AND AFT WASTE TANKS :-  Fwd. and aft waste tanks remaining waste oil bail out and full cleaned, washed and painted.	2,500.00

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No.2347/20]

Job No	Description	Line Amount
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tanks. manholes opened, gas freed, necessary manhole gasket  
fabricated and renewed.

Cleaner :-QRs. 48 per hour x 50 hours = QRs. 2,400.00.

Consumable :- 100.00.

2402	CLEANING OF REFRIGERATION DRAIN TANK :-	3,270.00
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Refrigeration drain tank cleaned, inspected, repaired as per  
Navy instruction.

Cleaner :-QRs. 48 per hour x 65 hours = QRs. 3,120.00.

Consumable :- 150.00.

2403	CLEANING OF FRESH WATER TANKS :-	3,340.00
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Fresh water tank manhole opened, tanks washed and cleaned,  
necessary painted, manhole gasket inspected, necessary  
fabricated and renewed. Pipe section work.

P.V.C water tank (500 Ltr.), accessories and pipe lines

installed temporary to by pass fresh fresh water tank.

Manhole opened and closed for cleaning and painting work.

Disconnect and demobilized P.V.C. tank after the completion of  
work

Cleaner :- QRs. 48.00 per hour x 50 hours = QRs. 2,400.00.

Consumable :- QRs. 320.00.

Manhole removal /refitting QRs. 310.00 per cover x 2 nos = QRs.  
620.00.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
2404	CLEANING OF STEERING OIL TANK IN STEERING ROOM :-  Steering oil tank steering room, manhole opened, tank cleaned and boxed up in completion of work.  Cleaner :- QRs. 48.00 per hour x 46 hours = QRs. 2,208.00. Consumable :- QRs. 150.00. Manhole removal /refitting QRs. 300.00 per cover x 1 No = QRs. 310.00.	2,668.00
2500	CLEANING AND POLISHING OF SS TAIL SHAFT :-  4 Nos. SS propeller tail shaft cleaned, washed, polished using steel cup wire brush at site. scaffolding erected for access and later removed on completion.  Machinist:- QRs. 88.00/hour x 35 hours = QRs. 3,080.00. Consumables:- QRs. 150.00.	3,230.00
2501	MANUFACTURE OF ZINC ANODES :-  4 Nos. shaft zinc anodes removed, manufactured new, machined to size each OD 280mm wide 101-103mm and fitted back.weight of the each set is 27 kgs.  Machinist:- QRs. 88.00/hour x 46 hours = QRs. 4,048.00. Consumables:- QRs. 1920.00.	5,968.00
2502	RENEWAL OF ZINC ANODES FOR SUCTION PIPE :-  11 No. zinc anodes for (suction pipe) removed and 11 No. anodes	2,035.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>fabricated as per sample and fitted to size each 16mm dia. x 60mm long.</p> <p>(QRs. 185.00/piece x 11 pcs = QRs. 2,035.00 ).</p>	
2503	<p>MANUFACTURE OF COMPRESSOR LINE FILTER MALE ADAPTOR :-</p> <p>4 in Nos. compressor line (filter) male adaptor manufactured new as per sample from brass 32mm H/B 38mm long with M27 x 1.5 thread with 24 OD with grove 3mm diameter 19mm.</p> <p>Machinist:- QRs. 88.00 per hour x 9 hours = QRs. 792.00. Material/Consumable:- QRs. 78.00.</p>	870.00
2504	<p>MANUFACTURE OF ADAPTOR :-</p> <p>3 in Nos. brass nipples manufactured as per sample to size 3/4" BSP x 39mm long provided with 16mm dia. through hole.</p> <p>Machinist:- QRs. 88.00 per hour x 6 hours = QRs. 528.00. Material:- QRs. 22.00.</p>	550.00
2505	<p>MANUFACTURE OF HPAC NON RETURN VALVE ADAPTOR :-</p> <p>6 in Nos. HPAC non return valve adaptor manufactured as per sample to size each 24mm H/B x 43mm long provided one side with 3/8" dia. BSP male thread x 14mm long other side with M24 x 1.5mm male thread x 14mm long using carbon steel materials.</p> <p>Machinist:- QRs. 88.00 per hour x 12 hours = QRs. 1,056.00. Material/Consumable:- QRs. 40.00.</p>	1,096.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
2506	<p>MANUFACTURE OF AIR SYSTEM FEMALE ADAPTOR :-</p> <p>4 Nos. air system female adaptors manufactured as per sample to size each 22mm Hex. x 40mm long provided one end with 3/8"BSP thread x 14mm long and other end with M20 x1.5 thread with 13mm long using carbon steel materials.</p> <p>Machinist:- QRs. 88.00 per hour x 8 hours = QRs. 704.00. Material/Consumable:- QRs. 40.00</p>	744.00
2507	<p>RE SLEEVING OF MOTOR END COVER :-</p> <p>Following motor end cover repaired with resleeve. enlarge the hole, sleeve manufactured, installed, secured and final bored according bearing size.</p> <p>1. FWD E/R ventilation fan motor DE cover. 2. AFT E/R ventilation fan motor DE cover. 3. Steering compartment room exhaust fan motor DE cover. 4. E/R generator exhaust fan motor - port DE cover.</p> <p>Machinist:- QRs. 88.00 per hour x 17 hours = QRs. 1,496.00. Material/Consumable:- QRs. 100.00.</p>	1,596.00
2508	<p>MANUFACTURE OF TRITON RADAR ANTENNA CAP BOLT :-</p> <p>Triton radar antenna lubricant oil inlet and outlet cap and plugs manufactured new as per navy personnel instruction as below.</p> <p>1. 03 aluminium cap manufactured new 32mm OD 22mm long with one side M24 x 1.5mm male thread.</p>	1,176.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>2. 02 nos brass cap manufactured new 42mm OD 23mm long with one side M36 x 2mm thread.</p> <p>3. 02 nos CS plugs manufactured new from 32mm hex 28mm long 3/4" BSP thread.</p> <p>4. 7 Nos. copper washers supplied.</p> <p>Machinist:- QRs. 88.00 per hour x 12 hours = QRs. 1,056.00.</p> <p>Material/Consumable:- QRs. 120.00.</p>	
2509	<p>MANUFACTURE OF FCR DIRECTOR CAP BOLT :-</p> <p>FCR director lubricant oil inlet and outlet point cap bolts manufactured as follows.</p> <p>1 nos aluminum elbow manufactured as per sample size M28 x 1.5 male thread at one end and other end with M28 x 1.5 female thread.</p> <p>1 nos aluminum cap with female thread size M28 x 1.5 long 26mm with hex and collar.</p> <p>1 No. copper washer supplied for cap.</p> <p>Machinist:- QRs. 88.00 per hour x 12 hours = QRs. 1,056.00.</p> <p>Material/Consumable:- QRs. 60.00.</p>	1,116.00
5050	<p>REPAIR OF EXHAUST AND UNDER WATER FLAPS FOR MAIN ENGINES :-</p> <p>Exhaust flap 1,2 &amp; 4 removed and inspected. No:1 &amp;4 Exhaust flaps found damaged yard repaired (under Job No. 1874) and fitted back on position.</p> <p>No: 2 Found damaged, Owner supplied new flap fitted on position.</p> <p>New gaskets, bolt nuts are supplied by yard. No: 2 flap repaired by yard and handed over to client.</p>	20,037.00

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Job No	Description	Line Amount
	<p>4nos of new gaskets for No:2 flap supplied by yard and handed over to client as spare. No:3 Exhaust flap freed up in location , Witnessed by ship staff.</p> <p>Mechanic:- QRs. 88.00 per hour x 199 hours = QRs. 17,512.00. Material/Consumable:- QRs. 2,525.00."</p>	
5600	<p>FUEL SEPARATOR FILTER :-</p> <p>6 Nos. Fuel separator removed from location and due to unavailability of new filters, old filters cleaned by fresh diesel and fitted back on position. Later navy supplied new fuel filters. all 6 Nos. fuel filters removed and new filters installed in position witnessed by ship staff. Float valve flange O-rings and main cover O-rings supplied by yard.</p> <p>Mechanic:- QRs. 88.00 per hour x 73 hours = QRs. 6,424.00. Material/Consumable:- QRs. 750.00."</p>	7,174.00
5800	<p>REPAIR OF 40MM HYDRAULIC GUN MOUNTS :-</p> <p>Job has been cancelled.</p>	
5801	<p>PRESSURE TESTING OF FWD. AND AFT HP AIR BOTTLES :-</p> <p>4 Nos. Air bottles removed from location and brought to workshop, cleaned and pressure tested at 250bar. Inspected and Report</p>	14,532.00

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	submitted.	
	Mechanic/ Machinist:- QRs. 88.00/hour x 164 hours = QRs. 14,432.00.	
	Material/Consumable:- QRs. 100.00. "	
5802	RENEWAL OF AIR BOTTLE GAUGES :-	7,475.00
	Air bottle pressure gauges (0 to 400bar) -4 nos removed from location and found damaged.	
	Yard supplied new gauges fitted back on position. Witnessed by client.	
	Mechanic:- QRs. 88.00/hour x 75 hours = QRs. 6,600.00.	
	Material/Consumable:- QRs. 875.00.	
5803	REPAIR OF AIR COMPRESSOR RUBBER MOUNTING :-	2,400.00
	Main engine air compressor rubber mounting 4 nos found damaged.	
	Removed from location and yard supplied new rubber mountings installed back on position. Witnessed by client.	
	Mechanic:- QRs. 88.00/hour x 24 hours = QRs. 2,112.00.	
	Material/Consumable:- QRs. 288.00. "	
6000	RENEWAL OF PROPELLER SHAFT COOLING LINES WITH VALVES :-	4,412.00
	4 Nos. propeller shaft cooling lines with valves disconnected, overhauled and refitted. Details: 1 ¼ " rubber hose, 3000 mm long. - 1 No.	
	10 Nos. stainless steel hose clamps renewed size each 35 mm x	

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DATE: 01/05/2021

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W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	50 mm.	
	Pipe fitter:- QRs. 88.00/hour x 49 hours = QRs. 4,312.00.	
	Material/Consumable:- QRs. 100.00. "	
6001	RENEWAL OF SEA SUCTION STUB PIPES :-	8,912.00
	12 Nos. sea suction subs pipes with flanges inspected.	
	thickness of pipes inspected and report submitted by Q.C.	
	Damaged pipes and flanges renewed.	
	M.S. Pipe, 2 1/2" dia., sch. 80., 500mm long, with one bend and one flange renewed.	
	M.S. Pipe renewed to size 80. x 300mm long. - renewed.	
	One damaged flange cut and renewed in position.	
	Pipe fitter:- QRs. 88.00/hour x 99 hours = QRs. 8,712.00.	
	Material/Consumable:- QRs. 200.00. "	
6002	RENEWAL OF GAUGE CONNECTION LEAK PIPE :-	7,704.00
	03 Nos. gauge connections, disconnected, and renewed as per Navy instruction using following sections.	
	Size 10mm dia. Copper pipe x700mm long - 1 No.	
	Size 1/2" angle valve - 1 No.	
	Size 1/2" x 10 mm adapter - 2 Nos.	
	Size 1/2" x 1/2" adaptor - 01 No.	
	Size 10mm dia. brass straight connector - 1 No.	
	Size 10mm dia. Copper pipe x 500mm long - 1 No.	
	Size 10mm dia. Brass straight connector - 2 Nos.	
	Size 1/2" x 1/2" angle valve - 1 No.	
	Size 1/2" x 1/2" adaptor - 1 No.	
	1/2" x 10mm adaptor - 1	

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	Size 10mm copper pipe x 300mm long - 1 No. 10mm dia. Brass straight connector - 1 No. Pressure gauge, 16 bar. - 1 No. Pipe fitter:- QRs. 88.00/hour x 78 hours = QRs. 6,864.00. Material/Consumable:- QRs. 840.00. "	
6003	SUPPLY OF FRESH WATER FILLING AND WASHING HOSE :-  Size 1/2"dia. x 20 meter fresh water filling and washing clear hose supplied as per Navy instruction.	1,136.00
6004	RENEWAL OF FIRE LINE PIPE BRACKET :-  22 Nos. 1 1/2" dia. Aluminum brackets renewed.  Pipe fitter:- QRs. 88.00/hour x 13 hours = QRs. 1,144.00. Material/Consumable:- QRs. 60.00. "	1,204.00
6005	REPAIR OF MAIN PIPE LINE SYSTEM :-  All fire line main pipe line system inspected and found leakage at 3 locations pipe disconnected, shifted to work shop, cleaned, blasted, painted and refitted with new rubber gaskets. Size: 1 1/2" copper pipe x 2000mm long provided with 2 Nos. flanges - 1 No. Size 1 1/2" copper pipe x 2500 mm long provided with 2 Nos. flanges - 2 Nos.  Pipe fitter:- QRs. 88.00/hour x 32 hours = QRs. 2,816.00.  Consumable:- QRs. 64.00.	2,880.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
6006	RENEWAL OF A/C NO.1 AND 2 SEA WATER DISCHARGE AND RELIEF PIPE :-  A/C no. 1 and no. 2 sea water discharge and relief pipe linedisconnected. shifted to work shop, blasted, painted and refitted.Copper nickel pipe size 1 ½" dia. x 2500mm long. - 2 Nos. Relief valve overhauled and refitted - 2 Nos.1 6 bar, pressure gauge renewed - 2 Nos.  Pipe fitter:- QRs. 88.00/hour x 29 hours = QRs. 2,552.00.  Material/Consumable:- QRs. 495.00. "	3,047.00
6007	RENEWAL OF BOTH A/C PLANT SEA WATER LINE ZINC ANODES PLUG :-  7 Nos. Both A/C plant sea water line zinc anodes plug renewed size ¾" x 80mm - 04 Nos. And size ½" x 70mm - 03 Nos.  Pipe fitter:- QRs. 88.00/hour x 27 hours = QRs. 2,376.00.  Consumable:- QRs. 50.00. "	2,426.00
6008	RENEWAL OF FIRE MAIN PUMP NO.1 SUCTION LINE :-  Fire main pump no. 1 suction line renewed size 2 ½", sch. 40. stainless steel pipe x 1500mm long. Size 2 ½" elbow, 90 deg. - 1 No. Size 2 ½" elbow, 45 deg. - 4 Nos.  Pipe fitter/Welder:- QRs. 88.00/hour x 34 hours = QRs. 2,992.00.	3,712.00

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W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	Material/Consumable:- QRs. 720.00.	
6009	RENEWAL OF SHIP MAST PRE WETTING SYSTEM SEA WATER PIPE LINE :-  Ship mast pre wetting system sea water pipe line renewed size 1 ½", Stainless steel pipe x 150mm long, both side flange. Size 1 ½", Stainless steel pipe x 350mm long provided with 2 Nos. Stainless steel flange , Aluminum flange size 1 ½" - 1 No. Straub coupling size 44.5mm - 1 No.  Pipe fitter/Welder:- QRs. 88.00/hour x 81 hours = QRs. 7,128.00. Material/Consumable:- QRs. 167.00.	7,295.00
6010	RENEWAL OF JUNDI MESS FIRE MAIN LINE :-  Jundi mess fire main line disconnected, blasted, painted and refitted with new rubber gaskets.  Pipe fitter:- QRs. 88.00/hour x 16 hours = QRs. 1,408.00. Material/Consumable:- QRs. 431.00.	1,839.00
6011	RENEWAL OF FRESH WATER TANK VENT LINE FLEXIBLE HOSE :-  Fresh water tank vent line flexible hose line (sight glass) cleaned and refitted to size: - 1 ½" dia. x 300mm long - 01 No. Stainless steel clamp - 35mm x 50mm - 2 Nos.  Pipe fitter:- QRs. 88.00/hour x 24 hours = QRs. 2,112.00.	2,432.00

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W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Material/Consumable:- QRs. 320.00.

6012	JUNDI MESS BLACK TANK OVERBOARD PIPE LINE :-	2,795.00
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Jundi mess black tank overboard pipe line 4 Nos. disconnected, Blasted, painted and refitted with new gaskets and bolts.

1. Copper nickel pipe size 1 ½" dia. x 1500mm long with 2 bend and 2 union.

2. Copper nickel pipe size 1 ½" dia. x 1000mm long with 2 bend and 02 union.

3. Copper nickel pipe size 1 ½" dia. x 1200mm long with 1 bend and 2 union.

4. Copper nickel pipe x 1 ½" dia. x 800mm long with 3 bend and 3 union.

Pipe fitter:- QRs. 88.00/hour x 30 hours = QRs. 2,640.00.

Consumable:- QRs. 155.00.

6013	OVERBOARD FWD. ACCOMODATION TOILET PIPE :-	1,463.00
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Fwd. Accommodation overboard drain pipe and valves of toilet removed, cleaned and fitted back. Using 4 Nos. super clamps size each 52mm x 55mm.

Pipe fitter:- QRs. 88.00/hour x 15 hours = QRs. 1,320.00.

Material/Consumable:- QRs. 143.00.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
6014	CAPTAIN TOILET DRAINAGE PIPE :-  Captain toilet rubber hose renewed to size 2" dia. x 4000mm long. Existing chocked drainage hose disconnected, cleaned and refitted. One injector opened, cleaned and refitted to size 1 ½" dia. x 400mm long.  Pipe fitter:- QRs. 88.00/hour x 25 hours = QRs. 2,200.00.	2,200.00
6015	OFFICERS TOILET DRAINAGE PIPE :-  Officers toilet 2" dia. Heavy duty hose renewed - total 09 Nos.  1. 2 ¼" rubber hose x 5000mm long. - 1 No. Stainless steel hose clamp, 50mm x 65mm. - 06 Nos. 2. 2 ¼" rubber hose, 4400mm long. - 1 No. Stainless steel hose clamp, 50mm x 65mm. - 06 Nos. 3. 2 ¼" rubber hose, 4000mm long. - 01 No. Stainless steel hose clamp, 50mm x 65mm. - 06 Nos. 4. 2" rubber hose, 3000mm long - 01 No. Stainless steel hose clamp, 35mm x 50mm - 06 Nos. 5. 2" rubber hose, 3000mm long - 01 No Stainless steel hose clamp, 35mm x 50mm - 06 Nos. 6. 2" rubber hose, 2500mm long - 01 No. Stainless steel hose clamp, 35mm x 50mm - 06 Nos. 7. 2" rubber hose, 3000mm long - 01 No. Stainless steel hose clamp, 35mm x 50mm - 06 Nos. 8. 2" rubber hose, 2200mm long - 01 No. Stainless steel hose clamp, 35mm x 50mm - 04 Nos." "9. 2" rubber hose, 1700mm long - 01 No.	8,357.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Stainless steel hose clamp, 35mm x 50mm - 04 Nos. 1 ½" dia.  
Stainless steel pipe renewed., 200mm long, both side thread. -  
01 No. Below sized pipes disconnected, blasted, painted and  
refitted.

1. 1 ½" copper nickel pipe, 1500mm long, 04no. bend. - 01  
No.  
2. 1 ½" copper nickel pipe, 1000mm long, Valve - 01 nos,  
N.R.V - 01 No. and 01 elbow - 01 No.

Pipe fitter:- QRs. 88.00/hour x 74 hours = QRs. 6,512.00.

Materials/Consumable:- QRs. 1,845.00."

6016	AFT TOILET DRAINAGE PIPE :-	7,213.00
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Aft toilet drainage pipe renewed.

1. Stainless steel pipe, 1 ½" dia., sch.40, 5000mm long - 01  
No.  
2. 1 ½" stainless steel elbow, 90deg. - 05 Nos.  
3. 1 ½" stainless steel elbow, 45deg. - 05 Nos.  
4. 1 ½" stainless steel union - 01 No.  
5. 1 ½" gate valve (Bronze) - 01 No.  
6. 1 ½" stainless steel nipple - 02 Nos.  
7. 28mm copper pipe - 2000 mm8. 28mm brass elbow - 08 Nos.  
9. 48.3mm straub coupling. -04 Nos.10. 48mm saddle support -  
03 Nos.  
11. 28mm male straight connector - 02 Nos. Aft toilet drainage  
line connected to wash basin drainage line.  
Yard supplied new N.R.V renewed, 1 " dia. - 01 No.

Pipe fitter/Welder:- QRs. 88.00/hour x 40 hours = QRs.  
3,520.00.

Materials/Consumable:- QRs. 3,693.00."

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
6017	AFT ACCOMODATION BATH ROOM DRAINAGE PIPE :-  Aft accommodation bath room drainage pipe renewed to size 2"dia. rubber hose. X 10 meters Long provide with 10 Nos. Stainless steel hose clamp size 35mm x 50 mm.  Pipe fitter:- QRs. 88.00/hour x 10 hours = QRs. 880.00. Materials/Consumable:- QRs.400.00."	1,280.00
6018	FABRICATION OF AFT ACCOMODATION BATH ROOM DECK DRAIN MESH :-  Fabricated and installed aft bathroom deck drain mesh using stainless steel perforated sheet. Size 50mm x 50mm x 3 mm thickness - 2 Nos.  Pipe fitter:- QRs. 88.00/hour x 7 hours = QRs. 616.00. "	616.00
6019	"RENEWAL OF AFT ACCOMODATION WAKEEL BATH ROOM DRAIN LINE :-  Aft accommodation wakeel bath room drain line made new and renewed to size 2"" rubber hose x 6 meters long with 4 Nos. stainless steel hose clamp size 35 x 50mm.  Pipe fitter:- QRs. 88.00/hour x 10 hours = QRs. 880.00. Materials/Consumable:- QRs. 400.00."	1,280.00
6020	"RENEWAL OF AFT ACOMODATION W/C DRAIN PIPE :-  Aft accommodation W/C drain pipe renewed to size 2"dia. rubber	2,870.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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hose x 7000mm long renewed with 4 Nos. stainless steel hose  
clamp size 35mm x 50mm  
Stainless steel nut, bolt and washer, M 14 x 60mm - 8 Nos.  
Transformer base ('U' type bend) - 250mm x 40mm x 8mm  
thickness- 4 Nos.

Pipe fitter:- QRs. 88.00/hour x 28 hours = QRs. 2,464.00.

Materials/Consumable:- QRs. 406.00.

6021	RENEWAL OF FWD. ACCOMODATION W/C DRAIN PIPE :-	1,684.00
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FWD. accommodation W/C drain pipe renewed to size 2"dia.  
Rubber hose x 3000mm long with 6 Nos. stainless steel hose  
clamp size 35mm x 50mm

Pipe fitter:- QRs. 88.00/hour x 18 hours = QRs. 1,584.00.

Materials/Consumable:- QRs. 100.00.

6022	RENEWAL OF AFT ACCOMODATION JUNDI BATH ROOM DRAIN LINE :-	1,544.00
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Aft accommodation jundi bathroom drain line renewed to size  
2"dia. rubber hose x 7000mm long with 10 Nos. stainless steel  
hose clamp size 35mm x 50mm.

Pipe fitter:- QRs. 88.00/hour x 13 hours = QRs. 1,144.00.

Materials/Consumable:- QRs. 400.00."

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
6023	RENEWAL OF ALL W/C BASE BOLTS :-  Total 6 Nos. W/C base bolts foundation renewed.  Pipe fitter:- QRs. 88.00/hour x 10 hours = QRs. 880.00.	880.00
6024	RENEWAL OF ALL W/C SEA WATER FLUSHING VALVES :-  W/C sea water flushing Brass valves renewed to size 28mm dia. - 6 Nos.  Pipe fitter:- QRs. 88.00/hour x 12 hours = QRs. 1,056.00.  Materials/Consumable:- QRs. 600.00."	1,656.00
6025	RENEWAL OF ALL W/C DRAIN LINE VALVE :-  9 Nos. W/C drain line non return valve renewed.  Pipe fitter:- QRs. 88.00/hour x 24 hours = QRs. 2,112.00.  Materials/Consumable:- QRs. 314.00.	2,426.00
6026	RENEWAL OF ALL W/C MUSLEM :-  10 Nos. W/C muslem showers fresh water pipes renewed.  Pipe fitter:- QRs. 88.00/hour x 23hours = QRs. 2,024.00. Materials/Consumable:- QRs. 688.00."	2,712.00

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Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
6027	RENEWAL OF ALL W/C SEA WATER DRAIN LINE FLEXIBLE HOSE :- 10 Nos. W/C sea water drain line flexible hose renewed. Pipe fitter:- QRs. 88.00/hour x 19 hours = QRs. 1,672.00. Materials/Consumable:- QRs. 376.00."	2,048.00
6028	RENWAL OF ALL W/C SEAT :- 7 Nos. W/C seat repaired, painted and refitted. Pipe fitter:- QRs. 88.00/hour x 19 hours = QRs. 1,672.00.	1,672.00
6029	RENWAL OF ALL COOLING UNITS DECK DRAIL LINES PIPE :- 4 Nos. cooling units deck drain lines hose renewed to size 1"dia Plastic clear hose x 1500mm long - 2 Nos. Size 1" dia. Plastic clear hose x 1000mm long - 2 Nos. Stainless steel Hose clamp size 25 x 35 mm - 10 Nos. Pipe fitter:- QRs. 88.00/hour x 27 hours = QRs. 2,376.00. Materials/Consumable:- QRs. 141.00.	2,517.00
6030	MAIN REFRIGERATION PLANT SEA WATER SUPPLY MANIFOLD PIPE :- Main refrigeration plant sea water supply manifold pipe disconnected, shifted to workshop, all fittings separated, overhauled, blasted, painted, reassembled and refitted.	3,228.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	Pipe fitter:- QRs. 88.00/hour x 36 hours = QRs. 3,168.00.	
	Consumable:- QRs. 60.00.	
6031	RENEWAL OF MAIN REFRIGERATION SEA WATER OVERBOARD JUNCTION LINE :-  Main refrigeration sea water overboard junction line renewed to size 1" dia. rubber hose x 7000mm long - 1 No. Stainless steel hose clamp renewed to size 25 x 35mm - 6 Nos.  Pipe fitter:- QRs. 88.00/hour x 18 hours = QRs. 1,584.00.  Materials/Consumable:- QRs. 100.00."	1,684.00
6032	RENEWAL OF MAIN REFRIGERATION FLEXIBLE HOSES :-  Main refrigeration flexible hoses renewed to size 1" dia. rubber hose x 3000mm long - 2 Nos. Size 3/4" clear hose x 2000mm long - 6 Nos. Stainless steel hose clamp size 18 x 25mm - 20 Nos. Stainless steel super clamp size 25x28 - 20 Nos.  Pipe fitter:- QRs. 88.00/hour x 27 hours = QRs. 2,376.00.  Materials/Consumable:- QRs. 1,011.00."	3,387.00
6033	RENEWAL OF MAIN REFRIGERATION PLANT SEA W DISCHARGE VALVE PIPE :-  Main refrigeration plant sea water discharge overboard valve	2,940.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	<p>pipe modified and fitted as per Navy ship requirement. Over board valve overhauled and refitted. Additional rubber hose size 1 ¼" dia. x4200 mm long and clamps fitted as per owner's instruction.</p> <p>Pipe fitter:- QRs. 88.00/hour x 30 hours = QRs. 2,640.00.</p> <p>Materials/Consumable:- QRs. 300.00."</p>	
6034	<p>REPAIR OF COOL ROOM COOLING FAN CONDENSER TRAY DRAIN :-</p> <p>Cool room cooling fan condenser tray drain repaired and refitted.</p> <p>Pipe fitter:- QRs. 88.00/hour x 16 hours = QRs. 1,408.00.</p>	1,408.00
6035	<p>MAIN REFRGERATION NO. 1AND NO.2 SEA WATER RELIEF LINE :-</p> <p>Main refrigeration no. 1, no. 2 sea water relief valve and line disconnected, cleaned and refitted</p> <p>Relief Valve size ¾" - 2 Nos.</p> <p>Size ¾" copper pipe x 1000mm long - 2 Nos.</p> <p>Pipe fitter:- QRs. 88.00/hour x 40 hours = QRs. 3,520.00.</p>	3,520.00
6036	<p>RENEWAL OF MAIN REFRIGERATION SEA WATER SUPPLY PIPE LINE FILTER :-</p> <p>Main refrigeration sea water supply pipe line dis connected, shifted to workshop blasted, painted and refitted to size 1 ½"</p>	1,546.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>stainless steel pipe x 2500mm long provided with 04 Nos. elbow, 02 Nos. flanges.1 ½" dia, new brass filter renewed.</p> <p>Pipe fitter:- QRs. 88.00/hour x 17 hours = QRs. 1,496.00. Consumable:- QRs. 50.00.</p>	
6037	<p>RENEWAL OF D/GENERATOR NO. 1 AND NO. 2 AIR STARTING FLEXIBLE HOSE :-</p> <p>D/Generator no. 1 and no. 2 air starting flexible hose removed and renewed to size 1" dia. flexible hose x 600mm long - 2 Nos. Hose pressure tested at 40 bar pressure.</p> <p>Pipe fitter:- QRs. 88.00/hour x 12 hours = QRs. 1,056.00.</p>	1,056.00
6038	<p>RENEWAL OF FUEL TANK NO. 4, 8, AND 9 LEVEL GAUGE :-</p> <p>3 gauges opened and checked and same old one fixed back due to not able to open the pipe.</p> <p>Pipe fitter:- QRs. 88.00/hour x 6 hours = QRs. 528.00.</p>	528.00
6039	<p>RENEWAL OF FRESH WATER PIPE LINE IN KITCHEN :-</p> <p>Fresh water pipe line renewed in galley area to size using 15mm brass valve - 1 No. 15mm straight connector - 1 No.</p> <p>Pipe fitter:- QRs. 88.00/hour x 13 hours = QRs. 1,144.00. Material:- QRs. 50.00.</p>	1,194.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
6040	RENEWAL OF FRESH WATER MIXER :-  1 No. Fresh water mixer supplied and renewed  Pipe fitter:- QRs. 88.00/hour x 14 hours = QRs. 1,232.00. Material:- QRs. 85.00. "	1,317.00
6041	RENEWAL OF FRESH WATER HEATER FLEXIBLE HOSES :-  10 Nos. fresh water heater flexible hoses renewed.  Pipe fitter:- QRs. 88.00/hour x 13 hours = QRs. 1,144.00. Material:- QRs. 1,633.00. "	2,777.00
6042	RENEWAL OF OVER FLOW PIPES :-  6 Nos. Existing damaged overflow pipes removed and 6 Nos. 4" dia. , sch 80 ms elbows renewed. Pipe refitted on completion.  Pipe fitter/Welder:- QRs. 88.00/hour x 114 hours = QRs. 10,032.00. Material:- QRs. 1,287.00.	11,319.00
6043	DG WET SS EXHAUST MUFFLERS :-  3 Nos. DG wet SS exhaust mufflers damaged and leakage area partly repaired as per requirement using forllowing sections. Stainless steel doubler plate size 3mm x 240mm x 440mm - 4 Nos. Stainless steel doubler plate size 5mm x 240mm x 440mm - 2 Nos. Stainless steel pipe size 4" dia., sch.80. x 500mm long. - 1	21,147.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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No.

Stainless steel elbow. 90 deg., sch.40. - 1 No.

2 Nos. existing flange cropped and refitted with new pipe and elbow- 2 Nos.

Threaded type brass gate valve - 1 No.

Hydro pressure test carried out at 2 bar pressure.

Pipe fitter/Welder:- QRs. 88.00/hour x 205 hours = QRs.  
18,040.00.

Material:- QRs. 3,107.00.

6044 FIBER GLASS GREY WATER TANK :-

4,776.00

Fwd. bilges area Fiber Glass Gray water tank fittings

dismantled, fittings cleaned and refit in same position .

In way of Gray Water tank damage Copper pipe renewed to size

10 mm copper tube x 900 mm long - 1 No.

10 mm Brass compressing connector - 2 Nos.

Gray water tank repositioned and connected the all fittings.

Pipe fitter/Welder:- QRs. 88.00/hour x 53 hours = QRs.  
4,664.00.

Material:- QRs. 112.00.

6045 STEERING ROOM PRESSURE RUBBER HOSES :-

2,972.00

Steering room, pressure rubber hoses renewed and fitted

connected for Steering system, as per Navy instruction.

3 Nos. Rubber hoses (owner's supply High pressure hydraulic hose) size each ¾"dia. x 400mm long - 3 Nos.

High pressure hydraulic hoses size 3/8" dia. x 1100mm long - 2  
Nos.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	High pressure hydraulic hose size 3/8"dia. x 500mm long - 9 Nos.	
	Pipe fitter:- QRs. 88.00/hour x 32 hours = QRs. 2,816.00. Material:- QRs. 156.00.	
6046	RENEWAL OF MAIN SUCTION SEA WATER PIPE :-  Main engine Stbd. sea suction line renewal existing pipe cut from position and then fabricate new pipe and weld to existing pipe in position on size 6 " dia., SCH 80 ms pipe x 150 mm long provided with 1 No. flange size 225 mm OD x 145mm ID x 15 mm thickness with both side chamfering to align with existing pipe.  Pipe fitter/Welder:- QRs. 88.00/hour x 39 hours = QRs. 3,432.00. Material:- QRs. 250.00. "	3,682.00
6047	RENEWAL OF FWD. VENT PIPE :-  Fwd. 3 Nos. damaged vent pipe renewed to size 2"dia. , sch 80 ms pipe x 400mm long provided with 2 Nos. elbows. Size 2", sch 80 M.S. pipe x 300mm long with 2 Nos. elbow - 2 Nos.  Pipe fitter/Welder:- QRs. 88.00/hour x 53 hours = QRs. 4,664.00. Material:- QRs. 286.00.	4,950.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
6048	RENEWAL OF OVER BOARD PIPE :-  Stbd. side over board pipe 3 location damaged, new pipes fabricated, fitted and welded using 2"dia. M.S. pipe, sch.80. x 50mm long - 3 Nos.  Pipe fitter/Welder:- QRs. 88.00/hour x 24 hours = QRs. 2,112.00. Material:- QRs. 138.00.	2,250.00
6049	RENEWAL OF HOSES :-  Fwd. area damage hoses renewed as follows. Hose size 32 mm dia. rubber hose x 7 meter long - 1 No. Size 45 mm Rubber hose x 7 meter long - 1 No. Hose clip size 35-50 mm - 10 Nos. SS Hose clip size 55-70 mm - 10 Nos. Hose supports renewal - 4 Nos .  Pipe fitter:- QRs. 88.00/hour x 33 hours = QRs. 2,904.00. Material:- QRs. 840.00.	3,744.00
6050	RENEWAL OF PNEUMATIC AIR FLAP CYLINDERS :-  Pneumatic air flap cylinder pipe renewed using following sections. Size 10mm copper pipe x 1000mm long - 2 Nos. Size 10mm copper pipe x 900mm long - 2 Nos. Size 10mm copper pipe x 1200mm long - 1 No. Size 10mm brass straight connector - 10 Nos.  Pipe fitter:- QRs. 88.00/hour x 32hours = QRs. 2,816.00.	2,960.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
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Material:- QRs. 144.00.

6051	RENEWAL OF M/E PRE HEATING UNIT RUBBER HOSES :-	1,473.00
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Existing main engine preheating unit, rubber hoses disconnected and removed from position. Yard supplied new rubber hose fitted with new stainless steel hose clips. Both side adaptor cleaned and refitted.

Size 42mm rubber hose x 2000mm long. - 1 No.

Stainless steel hose clip size 55mm x 70mm - 6 Nos.

Pipe fitter:- QRs. 88.00/hour x 15 hours = QRs. 1,320.00.

Material:- QRs. 153.00. "

6052	RENEWAL OF PORT SIDE AFT ENGINE ROOM RUBBER HOSES :-	3,261.00
------	--	----------

Port side AFT engine room in way of steel work plates rubber hoses removed for access and partly renewed.

Following hoses removed for access and refitted

Size 45mm dia. Rubber hose x 6000 mm long - 1 No.

Size 35mm dia. Rubber hose x 5000 mm long. - 1 No.

Damaged hoses removed and yard supplied new hoses installed to

size 45mm Dia., rubber hose x 6000 mm long. - 1 No.

Size 35mm Dia., rubber hose x 5000mm long - 1 No.

Stainless steel hose clamps size 55 - 70 - 10 Nos.

Stainless steel hose clamps size 35 - 50 - 4 Nos.

Pipe fitter:- QRs. 88.00/hour x 26 hours = QRs. 2,288.00.

Material:- QRs. 973.00. "

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
6053	RENEWAL OF FWD. BOW AREA NEEAR CHAIN LOCKER HOSES AND PIPE :-  Fwd. bow area near the chain locker in way of steel work area house and flange renewed to size 55 mm dia. x 5.5 meter long Rubber hose =1 No. SS Hose clamp size 55-70 mm - 6 Nos. One MS flange renewed to size 170 mm OD x 130 mmID x 15 mm thickness with drilling and taping . - 1 No. SS nut and bolt size M8 x 25 mm long - 20 Nos. Size stainless steel bolt size M12 x 50 mm long with Nut and bolt - 8 Nos.  Pipe fitter:- QRs. 88.00/hour x 28 hours = QRs. 2,464.00. Material:- QRs. 501.00. "	2,965.00
6054	RENEWAL OF FWD. ACCOMODATION GREY WATER TANK SUCTION AND DISCHARGE PIPE :-  Fwd. accommodation grey water tank suction and discharge pipe lines renewed using following sections. Threaded brass elbow size 1 ½" dia. - 2 Nos. Stainless steel pipe size 1 ½" dia. x 750mm long provided one end with thread. Teflon tape size 2 Nos. Fabricated Brass union manufactured to size 1 ½" dia. -1 No. manufactured brass nipple size 1 ½" dia. x 180mm long. - 1 No. Stainless steel nut and bolts size M 10 x 30mm long - 30 Nos.  Pipe fitter/Welder:- QRs. 88.00/hour x 38 hours = QRs. 3,344.00. Material:- QRs. 1,028.00. "	4,372.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
6055	REPAIR OF MAIN ENGINE SEA WATER COOLING PIPE FLANGE :-  Stbd. Main engine sea water cooling pipe flange leakage rectified as follows. Size 2"dia. Pipe line opened, flanges cleaned, provided new gaskets and new nut and bolts. Stainless steel nut and bolts, M 12 x 50mm long. -6 Nos.  Pipe fitter:- QRs. 88.00/hour x 27 hours = QRs. 2,376.00. Material:- QRs. 20.00.	2,396.00
6056	RENEWAL OF LUBE OIL TRANSFER PUMP RUBBER HOSE :-  Lube oil transfer pump rubber hose Only clamps renewal Stainless steel hose clamps size 60 - 80mm- 4 Nos. Damage Rubber hose renewed for sea water line, steel plate replace area Fwd engine room Stbd. side near the gear box area size 38 mm dia. rubber hose 3 meter -1 No.  Pipe fitter:- QRs. 88.00/hour x 20 hours = QRs. 1,760.00. Material:- QRs. 200.00. "	1,960.00
6057	REPAIR OF A/C DUCT LINE DRAIN FWD :-  AC duct drain line renewed to size 22 mm dia. copper pipe x 1200 mm long - 1 No. Size 22 mm dia. brass compressing straight connector- 4 Nos. Size 22mm dia. Brass compressing elbow - 2 Nos. Brass reducing bush size 22mm x ¾" - 1 No. Tank's brass connector size 22 mm x ¾" - 1 No. stainless steel Hose clamp size 25 - 40 mm - 2 Nos. Wood for support of pipe Size 50x60x1200 mm long -1 No.	1,950.00

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EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	Cable Tie size 300 mm long - 20 Nos.	
	Pipe fitter:- QRs. 88.00/hour x 20 hours = QRs. 1,760.00.	
	Material:- QRs. 190.00. "	
6058	RENEWAL OF RUBBER HOSES :-	5,321.00
	Main engine room Stbd. at mid ship steel repair area Rubber hose renewed to size 55mm ID x 5.5meter long - 1 No.	
	Rubber hosesize 65mm ID x 2.5meter long - 1 No.	
	Rubber hose size 65mm ID x 3.5meter long - 1 No.	
	Stainless steel hose clamp size 65-80 mm Dia -12 Nos.	
	Stainless steel hose clamp size 55-75 mmdia. - 6 Nos.	
	Scotch tape -1 No.	
	1 No. Hose holding support fixing brass connector size 65mm dia. x 150mm long 1 no. fabricated, fitted and connected.	
	Pipe fitter:- QRs. 88.00/hour x 35 hours = QRs. 3,080.00.	
	Material:- QRs. 2,241.00. "	
6059	RENEWAL OF FIRE DRAIN LINE :-	1,608.00
	Fire drain line from aft skeg area existing pipe cut and renewed to size 1 ½"dia., sch 80 ms pipe x 1300 mm long with one bend - 1 No.	
	Pipe fitter:- QRs. 88.00/hour x 16 hours = QRs. 1,408.00.	
	Material/Consumable:- QRs. 200.00. "	
6060	REPAIR OF MAIN ENGINE PORT SEA WATER BELLOW HOSE :-	857.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	<p>Main engine port side sea water cooling line Rubber bellow found leaking Rubber bellow hose super clamps renewed using stainless steel Super clamp size 113-121 mm - 4 Nos.</p> <p>Pipe fitter:- QRs. 88.00/hour x 6 hours = QRs. 528.00. Material/Consumable:- QRs. 329.00. "</p>	
6061	<p>RENEWAL OF FUEL OIL RUBBER HOSE :-</p> <p>Port side Aft engine room area damage Fuel oil rubber hose open from position and new hose supplied and fitted to size 45mm dia. x long 3000mm long- 1 No. stainless steel hose clamp size 55- 70 mm dia. - 6 Nos.</p> <p>Pipe fitter:- QRs. 88.00/hour x 18 hours = QRs. 1,584.00. Material/Consumable:- QRs. 200.00. "</p>	1,784.00
6062	<p>RENEWAL OF WHEEL HOUSE GLASS WIPER VALVE :-</p> <p>Wheel house area glass wiper fresh water line's following sections supplied and renewed. Size ½" dia. stainless steel ball valve - 1 No. Size ½" dia. Brass mail threaded x 60 mm long fitting manufactured - 1 No.</p> <p>Pipe fitter:- QRs. 88.00/hour x 18 hours = QRs. 1,584.00. Material/Consumable:- QRs. 130.00. "</p>	1,714.00
6063	<p>RENEWAL OF OIL TRANSFER RUBBER HOSE :-</p> <p>Oil transfer rubber hose renewed to size 45mm dia. x 4250mm</p>	1,077.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
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Job No	Description	Line Amount
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long - 1 No.

Stainless steel hose clamp size 55 - 70 mm - 6 Nos.

Hose tail fitting supplied to navy crew.

Pipe fitter:- QRs. 88.00/hour x 9 hours = QRs. 792.00.

Material/Consumable:- QRs. 285.00. "

6064 CLEANING OF FWD. ACCOMODATION BASIN DRAIN PIPE :-

704.00

Fwd. accommodation Wash basin chocked, drain pipe manifold  
opened, cleaned, chocking cleared and refitted - 1 No.

Pipe fitter:- QRs. 88.00/hour x 8 hours = QRs. 704.00.

6065 FABRICATION OF STOPPER END PIPE :-

4,731.00

Main engine suction cooling pipe fabricated as per sample.

3 Nos. stopper end for pipe fabricated over all size 40mm long,

one side 185mm O.D. and other side 142mm O.D. each. 3 in Nos.

elbow with pipe and two flange manufactured for main engine

suction cooling pipe reducer size 5"x3"dia., sch-80,-3 Nos.,

sch. 80 Elbow - 3 Nos.

5" dia. Ring -2nos, Square flange 3"dia. (140x15mm thickness)

-3 Nos. ( Square flange fabricated in machine shop)

After fabrication pipe blasted, galvanized and painted.

Pipe fitter:- QRs. 88.00/hour x 46 hours = QRs. 4,048.00.

material/Consumable:- QRs. 683.00."

7000 RENEWAL OF BRIDGE WINDOW WIPER BLADES :-

6,524.00

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No.2347/20]

Job No	Description	Line Amount
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Bridge window wiper angle adjustment carried out and blades renewed.

Transformer flexible base fabricated Stainless steel nut, bolt and washer size M 14 x 60mm - 8 Nos.

Transformer base ('U' type bend) - 250mm x 40mm x 8mm thickness- 4 Nos.

Electrician:- QRs. 88.00/hour x 73 hours = QRs. 6,424.00.

material/Consumable:- QRs. 100.00."

7001	FWD ACCOMMODATION VENTILATION AND ExHAUST MOTORS :-	3,300.00
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Forward accommodation ventilation and exhaust motors Removed, shifted to electrical workshop, dismantled, draw out rotor, removed existing bearing from rotor shaft. Motor winding other mechanical parts cleaned using electro solvent and winding kept inside the Oven for baking. Checked insulation of winding noted value. Exhaust motor end cover checked conformed all are OK. Ventilation motor DE side knurling done. Bearings renewed using shipyard supplied bearings. Motors cleaned and painted. Motors re-assembled, bench tested. Motors shifted back to on-board and installed. Test carried out with Navy crew. found OK.

Based on standard schedule of rates, page No. 22.

Overhauling:- QRs. 1,200.00 x 1.25 x 2 Nos. = QRs. 3,000.00.

Bearing renewal :- QRs. 150.00 x 2 Nos. = QRs. 300.00."

7002	76MM VENTILATION MOTOR :-	1,350.00
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76MM ventilation motor Removed, shifted to electrical workshop. Dismantled, draw out rotor, removed existing bearing from rotor shaft. Motor winding other mechanical parts cleaned using

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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electro solvent and winding kept inside the Oven for baking. Insulation checked and value noted. Motor end cover checked and found clearance not satisfied. Both end covers knurling done. Bearings renewed using yard supplied bearings. Motors cleaned and painted. Motor re-assembled, bench tested, shifted back to on-board and installed. Run test carried out with Navy crew and found working satisfactory.

Based on standard schedule of rates, page No. 22.  
Overhauling:- QRs. 1,200.00 x 1 No. = QRs. 1,200.00.  
Bearing renewal :- QRs. 150.00."

7003 TECHNICAL ROOM FAN MOTOR :-

1,650.00

Technical room fan motor removed, shifted to electrical workshop. Dismantled, draw out rotor, removed existing bearing from rotor shaft. Motor winding other mechanical parts cleaned using electro solvent and winding kept inside the Oven for baking. Insulation checked and value noted. Motor end cover checked and found clearance not satisfied. Both end covers knurling done. Bearings renewed using yard supplied bearings. Motors cleaned and painted. Motor re-assembled, bench tested, shifted back to on-board and installed. Run test carried out with Navy crew and found working satisfactory.

Based on standard schedule of rates, page No. 22.  
Overhauling:- QRs. 1,200.00 x 1.25 x 1 No. = QRs. 1,500.00.  
Bearing renewal :- QRs. 150.00."

7004 OFFICER TOILET EXHAUST FAN MOTOR :-

1,650.00

Officer toilet's exhaust fan motor removed, shifted to

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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electrical workshop, dismantled, rotor drawn out,existing bearing removed from rotor shaft, motor winding other mechanical parts cleaned with electro solvent and winding kept inside ofor baking. Insulation of winding checked and value noted. End cover checked conformed all are OK. Bearing renewed using shipyard supplied bearings. Motor cleaned and panted. Motor re-assembled, bench tested. Motor shifted back to on-board and installed. Motor run test carried out with Navy crew and found working satisfactory.

Based on standard schedule of rates, page No. 22.

Overhauling:- QRs. 1,200.00 x 1.25 x 1 No. = QRs. 1,500.00.

Bearing renewal :- QRs. 150.00.

7005	SUPERSTRUCTURE VENTILATION MOTOR (3KW, 440VAC, 60HZ) :-	1,485.00
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Superstructure ventilation motor removed, shifted to electrical workshop, dismantled, rotor drawn out,existing bearing removed from rotor shaft, motor winding other mechanical parts cleaned with electro solvent and winding kept inside ofor baking. Insulation of winding checked and value noted. End cover checked conformed all are OK. Bearing renewed using shipyard supplied bearings. Motor cleaned and panted. Motor re-assembled, bench tested. Motor shifted back to on-board and installed. Motor run test carried out with Navy crew and found working satisfactory.

Based on standard schedule of rates, page No. 22.

Overhauling:- QRs. 1,320.00 x 1 No. = QRs. 1,320.00.

Bearing renewal :- QRs. 165.00."

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
7006	FWD AND AFT ENGINE ROOM VENTILATION FAN MOTORS :-  Forward and aft. engine room ventilation fan motor's electrical cables isolated, marked disconnected from motor terminal. Base bolts removed, mushroom removed from both side. Fan assembly with motor removed from location and shifted to electrical workshop. Motors removed from blower, Motors both end covers removed. Rotor removed from stator body . Existing bearing removed. Motors mechanical parts and windings cleaned with electrical cleaning solvent, cured inside the temperature control oven and windings re-varnished. Motors end covers bearing clearance checked and both motors DE end covers re-sleeved. Motor reassembled with shipyard supplied ball bearing 6204 ZZ/C3 - 02 Nos and 6205 ZZ/C3-2 Nos. Motors cleaned and painted. Motors Megger tested and found satisfactory (infinity). Blower reassembled, bench tested and shifted back to vessel. Installed back to original location and put back mushroom. Power cables reconnected as per original position, on-board tested out and Found OK.  Electrician:- QRs. 88.00 per hour x 84 Hours = QRs. 7,392.00. Material/ Consumable:- QRs. 1,025.00.	8,417.00
7007	GENERATORS ExHAUST FAN MOTOR (STBD &PORT) :-  Both side generators fan motor cables disconnected, all base flange bolts removed. Both side generator exhaust motors (0.75KW) removed from ship to electrical workshop. Full body cleaned as well as fan assembly of the motor using fresh water.Both fan motorm assembly Marked and dismantled. Motors mechanical parts and windings cleaned using electro solvent and kept inside the Oven for baking of winding coils. Port side and Stbd. DE end covers knurling carried out. Motors bearing	3,300.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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renewed using yard supplied 4 Nos. bearings size each 6202ZZ.  
Motors reassembled and painted. Motors satisfactory running test carried out. Motors shifted to on-board installed back to original position. All base bolts ventilation ducts connected and on-board running test carried out and found OK.

Based on standard schedule of rates, page No. 22.

Overhauling:- QRs. 1,200.00 x 1.25 x 2 Nos. = QRs. 3,000.00.

Bearing renewal :- QRs. 300.00."

7008	AFT. ACCOMMODATION VENTILATION AND EXHAUST MOTORS :-	3,000.00
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Aft. accommodation ventilation and exhaust motors Removed, shifted to electrical workshop, dismantled, draw out rotor, removed existing bearing from rotor shaft. Motor winding other mechanical parts cleaned using electro solvent and winding kept inside the Oven for baking. Checked insulation of winding noted value. Exhaust and ventilation motor end cover checked conformed all are OK. Bearings renewed using shipyard supplied bearings. Motors cleaned and painted. Motors re-assembled, bench tested. Motors shifted back to on-board and installed. Test carried out with Navy crew. found OK.

Based on standard schedule of rates, page No. 22.

Exhaust Overhauling:- QRs. 1,200.00 x 1.25 x 1 No. = QRs. 1,500.00.

Ventilation Overhauling with out blower:- QRs. 1,200.00 x 1 No. = QRs. 1,200.00.

Bearing renewal :- QRs. 150.00 x 2 Nos. = QRs. 300.00."

7009	OVERHAULING OF 70MM VENTILLATION AND EXHAUST FAN MOTORS :-	
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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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Included in Job No. 7204.

7010	STEERING COMPARTMENT ExHAUST FAN MOTOR :-	1,650.00
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Steering compartment exhaust fan motor removed, shifted to electrical workshop, dismantled, draw out rotor, removed existing bearing from rotor shaft. Motor winding other mechanical parts cleaned using electro solvent and winding kept inside the Oven for baking. Checked insulation of winding noted value. Exhaust and ventilation motor end cover checked and DE cover resleeved. Bearings renewed using shipyard supplied bearings. Motors cleaned and painted. Motors re-assembled, bench tested. Motors shifted back to on-board and installed. Test carried out with Navy crew. found OK.

Based on standard schedule of rates, page No. 22.  
Overhauling:- QRs. 1,200.00 x 1.25 x 1 No. = QRs. 1,500.00.  
Bearing renewal :- QRs. 150.00 "

7011	30MM VENTILATION FAN MOTOR :-	1,650.00
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30MM ventilation exhaust fan motor removed, shifted to electrical workshop, dismantled, draw out rotor, removed existing bearing from rotor shaft. Motor winding other mechanical parts cleaned using electro solvent and winding kept inside the Oven for baking. Checked insulation of winding noted value. Exhaust and ventilation motor end cover checked and found ok. Bearings renewed using shipyard supplied bearings. Motors cleaned and painted. Motors re-assembled, bench tested. Motors shifted back to on-board and installed. Test carried out with Navy crew. found OK.

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Job No	Description	Line Amount
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Based on standard schedule of rates, page No. 22.

Overhauling:- QRs. 1,200.00 x 1.25 x 1 No. = QRs. 1,500.00.

Bearing renewal :- QRs. 150.00 "

7012	MCR ExHAUST FAN MOTOR :-	800.00
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Job identified. Disconnected the cables, Removed the fan motor and owner's supplied new fan motor installed, connected the cables, run test carried out and found working satisfactory.

Electrician :- QRs. 88.00 per hour x 8 Hours = QRs. 704.00.

Consumable :- QRs. 96.00.

7013	REPAIRING OF NAVIGATION LIGHTS AND SINGNAL LIGHTS :-	8,490.00
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Navigation lights (Stern light) electrical cables disconnected and marked. 2 Nos. light poles shifted to painting shop and blasted and painted. Existing cables inside poles found insulation brittle due to long life of usage. Dismantled all light fixtures and repaired including cleaning, changing of gasket, applied silicon for water proof. After painting of light pole, laid 2Core 1.5mm rubber cables for all lights approximately 15 meters. Installed lights as per original position termination done. Shifted back to on-board and installed in forward mast AFT mast light location. Cables are connected to JB cables and switched on Found OK.

NAVIGATION MAST LIGHTS: 8 No's of navigation lights removed from mast as well as port STBD of super structure. Transferred to workshop, dismantled. Bulb holder removed from lighting fixtures including glass and stored in safe place. Sent lighting fixture parts for blasting painting. After blasting painting, installed holder with bracket inside the fixtures and

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for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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installed bulb. Damaged holder and bulb provided by Navy. Glass cleaned safely by water and soap oil. Re-assembled as per original and installed back to on-board. "

"Re-connected all cables tested and found OK. Two Nos. blue glass light fixtures removed brought to workshop for repairing. Light fixture blasted and painted. Checked all connectors bulb confirmed all are OK. Re-assembled, shifted back to on-board installed. Connection done as per marking tested. Signal lights brought to workshop. Dismantled, cleaned and painting work completed. Refitted onboard. Tested, found OK.

Electrician:- QRs. 88.00 per hour x 80 hours = QRs. 7,040.00.

Materials/ Consumable:- QRs. 1,450.00."

7014	GENERATOR CLEANING. (3 Nos):	4,098.00
------	------------------------------	----------

Job identified. chemical cleaning carried out 3 alternators. Remove all access covers and terminal covers. Cleaned main stator and rotor by electro cleaner solvent. Checked slipring and brushes, found satisfactory. Take megger reading and noted. All connections tighten. Secure all cables. Close all access covers. DG run tested, found OK.

Electrician:- QRs. 88.00 per hour x 20 hours = QRs. 1,760.00.

Consumable:- QRs. 2,338.00."

7015	REPAIRING OF DECK LIGHTS :-	7,943.00
------	-----------------------------	----------

All the deck lights 110V identified with ship staff. There were 18 No's of deck light clear safety glass securing bolt M6 \* 25mm - 8pc's per light has been removed. Electrical power supply marked disconnected. Marked each light location and

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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shifted to electrical workshop. All light fixtures completely dismantled like holders, holder support, bulb, glass, glass guard each 18 PC's mounting clip 54 PC's. All lights glass well cleaned by using electro solvent and kept away for reassemble. Holders Holder Supports, lighting fixtures, bulb well cleaned. Existing gasket removed - 18 PC's. Light fixtures sent to painting shop for painting. The following parts are damaged informed to navy to supply. Re-assembled all deck light fixtures as per marking. Shifted back to ship and installed properly to all location. All the bolts, nut washers are renewed which was supplied by shipyard. Deck light vibration clip fabricated renewed 10 PC's. Tested all lights and found working well.

Electrician:- QRs. 88.00 per hour x 85 hours = QRs.7,480.00.

Materials/ Consumable:- QRs. 463.00.

7016	ALL VENTILATION CONTROL BOXES:-	5,016.00
------	---------------------------------	----------

Electrical supply OFF. Open panel board. clean by CRC, angle brush and cotton rags. All cables checked and tighten. Secure all cables. Found satisfactory.

Electrician:- QRs. 88.00 per hour x 57 hours = QRs.5,016.00.

7017	FUEL TRANSFER PUMP MOTORS.	2,640.00
------	----------------------------	----------

Electrical power supply OFF.  
Open terminal covers.  
Take megger test. Found satisfactory.

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

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
7018	LUBE OIL TRANFER PUMP MOTORS.  Electrical power supply OFF. Open terminal covers. Take megger test. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 30 hours = QRs. 2,640.00."	2,640.00
7019	FIRE PUMP MOTORS CONTROL PANEL.  Electrical power supply OFF. Open terminal covers. Take megger test. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 62 hours = QRs. 5,456.00. Consumable:- QRs. 43.00.	5,499.00
7020	CLEANING OF AIR COMPRESSOR PANEL BOARD:  Job identified with navy staff. Power supply put OFF. Opened panel doors. Cleaned by CRC, brushes, and cotton rags. All terminals check and cables secured properly. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 27 hours = QRs. 2,376.00.	2,376.00
7021	PROVIDING OF COOKING RANGE :-  Job has been cancelled.	

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W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
7022	REPAIR OF ALL WIRING COOKING PLATES :-  Job identified with navy staff. Power supply off. Shift the oven from the position. Checked all electrical connections and tight. All cables clean and secured with heat shrink, found some oven coil damaged. According to senior electrician ordered for 6 number coils. Replace 6 number coils. All cables secured well. shift to original position. Power ON, Checked cooking range. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 69 hours = QRs. 6,072.00. Material/Consumable:- QRs. 3,102.00.	9,174.00
7023	CLEANING AND CHECKING OF 24 VOLTS SWITCH BOARDS. (3 N0s):-  Job identified. Electrical supply put OFF. Opened panel doors. Cleaned by CRC, brushes, and cotton rags. All terminals check and cables secured properly. Found satisfactory.  Based on standard schedule of rates, page No. 23.	2,300.00
7024	ALL BATTERY CHARGERS:-  Job identified. Electrical supply put OFF. Opened panel doors. Cleaned by CRC, brushes, and cotton rags. All terminals check and cables secured properly. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 12 hours = QRs. 1,056.00.	1,056.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
7025	MEGGER TESTING OF PREHEATING MOTOR AND COILS. (4 Nos):-  Electrical power supply OFF. Open terminal covers. Take megger test. Found satisfactory.  Electrician:- QRs. 88.00 per hour x 28 hours = QRs. 2,464.00.	2,464.00
7026	INSTALLATION OF 10 KVA TRANSFOMER:-  Job identified with navy staff. Transformer installed in place as per navy staff instruction. 4 Nos brackets made for install the transformer. Transformer supplied by navy. Materials supplied by the yard. NOTE: Transformer supplied by the navy.  Electrician:- QRs. 88.00 per hour x 32 hours = QRs. 2,816.00. Material/Consumable:- QRs. 76.00.	2,892.00
7027	INSTALLATION OF TRANSFORMER (440/220):-  Job identified with navy staff. Transformer and PVC breaker box installed as per navy staff instruction. 3x2.5 mm sq ship wiring cables laying for 220 volts socket installation. Necessary ceilings removed for cable laying. Installed 5Nos double sockets as per navy staff instructions. Closed all ceilings. Main supply connected from existing breaker. After all electrical connection ON power supply. Tested all new 220 volts sockets. Found satisfactory. NOTE: transformer supplied by navy and materials supplied by shipyard. 1. 13Amps double sockets-05Nos	4,147.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
	2. 3x2.5mm sq marine cable-22Mts 3. 4x6mm sq marine cable-03Mts 4. 16Amps 2 pole breaker-04Nos 5. 6x6 PVC breaker box-01 No 6. M8x30mm ss bolts and nut-04Nos  Electrician:- QRs. 88.00 per hour x 32 hours = QRs. 2,816.00. Material/Consumable:- QRs. 1,331.00."	
7028	INSTALLATION OF AC SOCKETS:-  Job identified with navy staff. Necessary ceilings removed for cable laying. Sockets position marked by navy staff. 4 numbers sockets installed as per navy instructions. After cable laying and socket installation power ON. Tested all power sockets. Closed all ceilings. Found satisfactory. NOTE: Materials supplied by shipyard. 1. 13Amps double sockets-04Nos 2. 6x6 breaker box-01 No 3. 4x4 PVC box-01 No 4. 10Amps 2 pole breaker-02Nos 5. 16Amps 2 pole breaker-01 No 6. 4x2.5sq mm ship wiring cables-15Mts 7. PG-13 PVC gland-5Nos 8. PG-16 PVC gland-5Nos. 9. M8x50mm ss bolts and nut-04Nos.  Electrician:- QRs. 88.00 per hour x 61 hours = QRs. 5,368.00. Material/Consumable:- QRs. 1,980.00.	7,348.00
7029	CLEANING OF REFRIGERATION CONDESORS. (2 Nos):-	2,316.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
	<p>Job identified with navy staff. Removed both condenser flanges. Then cleaned by fresh water. Closed the covers with new gasket. Tested, found satisfactory.</p> <p>Electrician:- QRs. 88.00 per hour x 10 hours = QRs.880.00. Consumable:- QRs. 1,436.00."</p>	
7030	FRESH WATER PUMP MOTOR:-	704.00
	<p>Electrical power supply OFF. Open terminal covers. Take megger test. Found satisfactory.</p> <p>Electrician:- QRs. 88.00 per hour x 8 hours = QRs. 704.00.</p>	
7031	CLEANING AND CHECKING OF AIR CONDITIONING PANEL:-	1,408.00
	<p>Job identified with ship staff. Power supply OFF. Open panel board doors. Cleaned by brush, CRC, cotton rags and electrical portable blower. All terminals checked and tight. All cables secured by cable ties. Close all door and power ON. Found satisfactory.</p> <p>Electrician:- QRs. 88.00 per hour x 16 hours = QRs. 1,408.00.</p>	
7032	INSTALLATION OF NEW EMLOG PROBE:-	2,828.00
	<p>Job identified with navy staff. Disconnected the EMLOG PROBE cables. Removed the existing emlog probe. Found one brass nipple thread damaged. Renewed brass nipple. After that installed new emlog probe with sika. Inspect navy staff, found</p>	

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No.2347/20]

Job No	Description	Line Amount
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satisfactory.

Electrician:- QRs. 88.00 per hour x 29 hours = QRs. 2,552.00.

Material:- QRs. 276.00.

7033 Job has been cancelled.

7034 Job has been cancelled.

7035 Job has been cancelled.

7036 Job has been cancelled.

7037 Job has been cancelled.

7038 Job has been cancelled.

7039 Job has been cancelled.

7040 Job has been cancelled.

7041 CLEANING OF CONVERTORS :-

1,584.00

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No.2347/20]

Job No	Description	Line Amount
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Job identified with navy staff. AFT and FWD convertors access covers are opened. winding cleaned by CRC, air blower and cotton rag. After cleaned well, all access covers are closed as per original position.

Electrician:- QRs. 88.00 per hour x 18 hours = QRs. 1,584.00.

7200	CLEANING OF VENTILATION CONDENSER:-	2,882.00
------	-------------------------------------	----------

These following condensers and filters had been cleaned by jet wash.

1. FWD Accommodation
2. 76mm magazine
3. CIC area
4. Super structure
5. 30mm magazine
6. AFT accommodation area
7. 40mm magazine area

Electrician:- QRs. 88.00 per hour x 32 hours = QRs. 2,816.00.

Consumable:- QRs. 66.00.

7201	CLEANING OF AC COOLING BLOWERS :-	2,378.00
------	-----------------------------------	----------

Job identified with navy staff. Blowers cleaned. Existing grease removed and applied new grease. Found satisfactory.

Electrician:- QRs. 88.00 per hour x 26 hours = QRs. 2,288.00.

Consumable:- QRs. 90.00.

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
7202	REFILLING OF ANTI FREEZE :-  Job identified. Drain the water and coolant. After that flush the system with fresh. Then refill antifreeze coolant. Found satisfactory. NOTE: 30 Gallon antifreeze supplied by the shipyard.  Electrician:- QRs. 88.00 per hour x 70 hours = QRs. 6,160.00. Consumable:- QRs. 1,000.00.	7,160.00
7203	CLEANING OF AC SEA WATER COOLING CONDESER. (2 Nos) :-  Job identified with navy staff. Removed both condenser flanges. Then cleaned by fresh water. Closed the covers with new gasket. Tested, found satisfactory.  Electrician:- QRs. 88.00 per hour x 55 hours = QRs. 4,840.00. Consumable:- QRs. 225.00.	5,065.00
7204	VENTILATION FAN WITH MOTORS :-  The following ventilation motors and blowers overhauled. 1. AFT accommodation AC ventilation blower (blower only). 2. 40mm ventilation blower with motor. 3. 30mm ventilation blower (blower only). 4. 76mm ventilation blower (blower only). 5. Superstructure ventilation blower (blower only). 6. CIC ventilation blower. 7. Galley exhaust fan motor 8. Galley ventilation fan motor 9. 40mm ventilation fan motors -2nos 10. CIC ventilation motor	27,007.00

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Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract No.2347/20]

Job No	Description	Line Amount
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11. Captain room chiller AC ventilation fan motor.  
12. CIC ventilation motor

NOTE: Serial Nos 5,6 and 9 only cleaning by CRC and applied grease.

Serial Nos 1,2,3 and 4 bearing supplied by navy.

Serial No:11 replaced new ventilation fan motor supplied by navy.

76mm ventilation blower DE side re-sleeved.30mm and 40mm DE and NDE end covers re-sleeved.

40mm blower shaft slightly bend. Shaft repaired.

Serial Nos 7,8 and 10 and 12 bearing supplied by yard.

76mm ventilation blower DE side re-sleeved.

40mm ventilation blower DE and NDE side re-sleeved.

30mm ventilation blower DE and NDE side re-sleeved.

Motor and blowers removed from ship. Brought to workshop.

Blowers and motors dismantled. Motors and blower parts cleaned by electro cleaner solvent. Checked insulation value of stators and noted. Bearing housings checked. Unsatisfied housings knurling and re-sleeving done. Reassembled the motors and blowers. Bench tested. All motors and blowers shift to vessel. Installed same position with alignment. Electrical connection done. Tested, found satisfactory.

Electrician/Machinist:- QRs. 88.00 per hour x 304 hours = QRs. 26,752.00.

Consumable:- QRs. 255.00.

7205 RENEWAL OF BRIDGE A/C UNIT :-

Job has been cancelled.

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QATAR ARMED FORCES

Doha - Qatar DOHA QA 37

INVOICE NO: SFWK/INV/012756/2021

DATE: 01/05/2021

EXPENSE A/C:

W/O NO: 20-010943 / 1

W/O REF: MDO 20251

Vessel Name/Description : [DAMSAH CLASS]NAVY BOAT Q 02 - "AL GHARIAH"[Contract  
No.2347/20]

Job No	Description	Line Amount
7206	CHANGING OF AC COMPRESSOR OIL:-  Job identified with navy staff. Removed the drain plug and drained oil. New oil filled. Found satisfactory. NOTE: Compressor oil supplied by navy.  Electrician/Machinist:- QRs. 88.00 per hour x 26 hours = QRs. 2,288.00. Consumable:- QRs. 189.00.	2,477.00
7207	REPLACEMENT OF DRYER FILTERS:  Job identified with navy staff. Removed existing dryer filters. Renewed with new filters. Checked the system. Found satisfactory. NOTE: Dryer filters supplied by navy.  Electrician/Machinist:- QRs. 88.00 per hour x 78 hours = QRs. 6,864.00.	6,864.00
7208	Job has been cancelled.	
7209	CLEANING OF MAIN REFRIGERATION PLANT BOTH CONDENSER :-  Included in Job No. 7029	
7210	RENEWAL OF MAIN REFRIGERATION NO.1 AND NO. 2 SEA WATER REGULATOR :-  Job has been cancelled.	

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR, FABRICATION &amp; ENGINEERING DIVISION

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Any discrepancy on this document should be notified to us within 3 working days from the receipt of the document.



## QATAR NAVIGATION (QPSC)

## SHIP REPAIR &amp; FABRICATION

## Telephones

Office : 4771690 / 4771695

Fax : 4771687



## INVOICE

Telex : 4206 DH

Cable : "NAVIGATION" Doha

Bank A/c: QNB Main Branch

P.O.Box 1000, Doha - Qatar

Swift Code : QNBAQAQA

QAR A/C No. 0013-000309-060

USD A/C No. 0013-000309-061

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No.2347/20]

Job No	Description	Line Amount
7500	SUPPLY OF MATERIALS :-  Following materials supplied as per signed delivery note.  Stainless steel plate size 1000mm x 1000mm x 1mm thickness - 1 No. Stainless steel plate size 1000mm x 1000mm x 1.5mm thickness - 1 No.	480.00
8000	CLEANING AND POLISHING OF PROPELLERS :-  A) 4 Nos. propeller diameter approx. 1450mm, with 3 blade cleaned, polished with steel cup wire brush at site. Based on standard schedule of rates, page No. 13. (QRs. 1,240.00 per piece x 4 pieces = QRs. 4,960.00) 1 No. Port out board propeller's one no. damaged blade repaired with welding and grinding. after repair done DP tested. (QRs. 1,060)  Note :-  Payment as per contract.  Encl:-  Copy of original completion report.	6,020.00
Invoice Amount -->		2,344,661.70

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Invoice Amount --&gt; 2,344,661.70

(QAR - Two Million Three Hundred Forty-Four Thousand Six Hundred Sixty-One And 70/100 Only)

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for QATAR NAVIGATION (Q.S.C)

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