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SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/013135/2021

DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011300 / 1

W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No	Description	Line Amount
	VESSEL ARRIVED : 25-11-2021. VESSEL SAILED : 25-11-2021.	
	VESSEL RE-ARRIVED : 04-12-2021. VESSEL SAILED : 11-12-2021.	
	PO: 80TU-21-5208	
1150	WHARFAGE CHARGE :-	6,930.00
	Wharfage charge of tug alongside Shipyard's quay dated 25-11-2021 and dated from $04-12-2021$ to $11-12-2021$.	
	Based on our quotation no. EM 16014 Revised, item no. A. (QRs. 770.00 per day \times 9 days = QRs. 6,930.00).	
1151	BERTHING CREWS :-	1,540.00
	Berthing crews provided to assist in berthing movement alongside Jetty dated $25-11-2021$ and $04-12-2021$	
	Based on our quotation no. EM 16014 Revised, item no. B. (QRs. 770.00 x per time x 2 times = QRs. 1,540.00).	
1152	FIRE AND SAFETY WATCH :-	2,970.00
	Fire and safety watch provided alongside shipyard's quay dated $25-11-2021$ and dated from $04-12-2021$ to -2021 to $11-12-2021$.	
	Based on our quotation no. EM 16014 Revised, item no. C.(QRs. 330.00 per day \times 9 days) = QRs. 2,970.00).	

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PO Box 153, Doha - Qatar

EXPENSE A/C: 85.901.1434006 W/O NO: 21-011300 / 1 W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No	Description	Line Amount
1153	GALLEY GARBAGE SKIP :-	2,475.00
	Galley garbage skip provided during period of along side dated $25-11-2021$ and dated from $04-12-2021$ to $11-12-2021$.	
	Based on our quotation no. EM 16014 Revised, item no. D. (QRs. 275.00 per day \times 9 days) = QRs. 2,475.00).	
1154	ELECTRICAL SHORE POWER SUPPLY :-	2,475.00
	Electrical shore power supply 380volts, 3 phase, 50 Hz. including connection and disconnection.	
	Based on our quotation no. EM 16014 Revised, item no. E. (QRs. 275.00 per day \times 8 days + QRs. 275.00 (Connection Disconnection) = QRs. 2,475.00).	
1155	ULTRASONIC THICKNESS GAUGING :-	220.00
	20 spots Ultrasonic thickness gauging taken on main deck and report issued.	
	Based on our quotation no. EM 16014 Revised, item no. 1.2. (QRs. 11.00 per spot x 20 Spots = QRs. 220.00).	
1156	MAIN ENGINES SILENCER INSULATION WORKS :-	6,175.00
	Main engines silencer insulation work carried out by specialist subcontractor.	
	As per our quotation no. EM 16014C, item no. 1.	

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EXPENSE A/C: 85.901.1434006

W/O NO: 21-011300 / 1

W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No	Description	Line Amount
1157	GAS FREEING OF TANKS :-	700.00
	Fuel Tank 15 & 16 gas free tested and certificate issued.	
	As per our quotation No. EM 16014D, item No. 1.1	
1158	DISPOSAL OF DECK WOOD :-	1,400.00
	Deck wood collected and disposed.	
	As per our quotation No. EM 16014D, item No. 2	
1159	OVERTIME PREMIUM:-	5,080.00
	Necessary overtime arranged as per client's instruction. Overtime premium for Fabricators, Welders, Riggers and crane operator dated 07-12-2021, 09-12-2021 and $10-12-2021$ (Friday).	
	A) fabricator/Welder/Mechanic:- Friday QRs. 90.00 per hour x 80 hours x 0.5 = QRs. 3,600.00. B) Rigger:- Overtime QRs. 80.00 per hour x 16 hours x 0.25 = QRs. 320.00. Friday QRs. 80.00 per hour x 16 hours x 0.5 = QRs. 640.00. C) Crane Operator:- Overtime QRs. 90.00 per hour x 8 hours x 0.25 = QRs. 160.00. Friday QRs. 90.00 per hour x 8 hours x 0.5 = QRs. 360.00.	
1400	ENGINE ROOM STBD. SIDE VALVES OVERHAULING :-	2,720.00
	4 Nos. DN50 globe valves removed from engine room, brought to work shop, dismantled and overhauled. Valves reassembled after	

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EXPENSE A/C: 85.901.1434006

W/O NO: 21-011300 / 1

W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No Description Line Amount

completion of machining work with yard supplied packing.

4 Nos. Valves pressure tested.

valves returned to vessel and refitted in position.

2 Nos. blinds fabricated to size each 110mm x 85mm x 25mm thickness provided with 2 nos. holes at 95PCD and fitted for valve removed area line and later removed on completion.

As per our quotation No. EM 16014 Revised, item No. 7.

1401 MAIN ENGINE PORT & STBD. LUBE OIL DRAIN VALVE :- 1,370.00

Port and stbd. Lube oil drain ball valves 2 Nos. size each 1" Dia stainless steel 316L ball valve supplied and fitted in position with following adaptors.

Size 1" dia. Mail thread adaptor as suitable to valve and one side Hydraulic hose -4 Nos.

As per our quotation No. EM 16014 Revised, item No. 7. (QRs. 970.00 + 2 Nos. Additional adaptors QRs. 400.00 = QRs. 1,370.00).

1402 A) AIR RECEIVER VALVE BLOCK REMOVAL AND REFIT:- 2,750.00

1 Nos. Air receiver valve removed from location and brought to workshop and later returned to vessel on completion of overhauling and refitted.

Based on our quotation No. EM 16014 Revised, item No. 9. (QRs. 500.00 less QRs. 250.00 = QRs. 250.00).

B) OVERHAULING AND PRESSURE TESTING OF AIR RECEIVER VALVE BLOCK: -

1 Nos. Air receiver valve block dismantled and overhauled.

1 No. valve seat dismantling tool fabricated, damaged valve

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EXPENSE A/C: 85.901.1434006

W/O NO: 21-011300 / 1

W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No Description Line Amount

seats and teflon washers removed 2 Nos. teflon washers and 2 No. brass seat manufactured and fitted in position. Valve block reassembled with PRV. Valve block pressure tested.

Based on our quotation No. EM 16014F Revised, item No.1 (QRs, 2,500.00).

PORT /STBD MAIN ENGINE EXHAUST TRUNK MOUNTING:-1800

2,460.00

Port /stbd main engine exhaust trunk mounting (4 Nos.) fabricated and installed in engine room using Channel and angle bar.M.S. angle bar, 75mm X 125mm X 10mm thick. 200mm long - 04 nos.M.S. Angle bar, 100mm X 100mm x 10mm thick. 300mm long - 01 nos.M.S. Angle bar, 100mm X 100mm x 10mm thick. 150mm long - 02 nos.M.S. Angle bar, 100mm X 100mm x 10mm thick. 200mm long - 01 nos.Provided new necessary drill holes -M 26 - 08 nos.M.S. bracket - 100mm X 100mm X 10mm thick - 02 nos.M.S. Flat bar -140mm X 200mm X 10mm thick - 02 nos. Fabricated flat washer -100mm O.D.X 06mm thick - I.D. 26mm. - 08 nos.G.I. stud bar - M24 X 500mm long - 04 nos.G.I. Nut and washer - M 24 - 16 nos. each.

As per our quotation No. EM 16014 Revised, item No.2. 1

1801 MAIN DECK PORT AND STBD. DECK PLATE RENEWAL :- 63,453.00

Necessary scaffolding arranged inside engine room port and stbd. side and later removed on completion. Engine room deck plate cutting area safety covering and safety watch provided.Wasted deck plates cut, removed. deck plate edges prepared for new fit up. New plate fabricated, fitted and welded as follows.

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W/O NO: 21-011300 / 1

W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No Description Line Amount

Port side deck plate size 3990mm x 3000mm x 8mm thickness -1

Stbd. side deck plate size 3990mm x 2700mm x 8mm thickness -1 No.

Surface area of new plate grit blasted and applied with one coat shop primer.

Yard crane used for lifting ad lifting of plates and materials.

MPI test done for new plate weld joints.

A) Plate renewal:- QRs. 38,499.00.

B) Fire& safety and Scaffolding as per signed day work sheet dated from 05-12-2021 to 09-12-2021.

B.1) Manpower:-

Normal time :- QRs. 80.00 per hour x 169 hours = QRs.

13,520.00.

Overtime: QRs. 80.00 per hour x 46 hours x 1.25 = QRs.

4,600.00.

Friday:- QRs. 80.00 per hour x 16 hours x 1.5 = QRs. 1,920.00.

C) Material/Consumable:- Supply of 75 meters Fire blanket & 13

Nos. Disposable coverall :- QRs. 4,914.00.

1802 MAIN DECK WOOD RETAINER BAR :- 7,180.00

Wood retainer bars and sloping plates cut, removed and area ground to level. New sloping plate $\,$ fabricated and welded to existing Deck wood aft retainer 'T' section's flange Size 9200mm x 140mm x 10 mm thickness fitted and welded. New sloping plate fabricated, fitted and welded around Sky hatch to size size 7500mm long x 140mm width x 10mm thickness. New bracket fabricated fitted and welded to size $70\,\mathrm{mm}$ x $120\,\mathrm{mm}$ x 10 m thick - 02 nos.

Based on our quotation No. EM 16014 revised, item No.1 (QRs.

16,531.00 Less QRs. 9,351.00 = QRs. 7,180.00).

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W/O NO: 21-011300 / 1

W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No	Description	Line Amount
2200	MAIN DECK WOOD :-	
	Job has been cancelled.	
2400	CLEANING OF TANKS :-	1,700.00
	Fuel Tank 15 & 16 cleaned with cotton rags.	
	As per our quotation No. EM 16014D, item No.3.	
2500	ANCHOR WINDLASS BREATHER LINE MODIFICATION :-	1,355.00
	Anchor windlass breather new line provided with 01 nos brass fitting 60mm diameter 75mm long with 1 1/2" BSP thread 17mm long ID 24mm. drilled 1/2" BSP thread on the OD for pipe fitting fixed 15mm copper pipe 500mm long. 01 nos cover drilled 60mm diameter hole as per client instruction.01 nos CS housing manufactured to weld on cover 70mm major diameter 60mm minor diameter with respect 10 and 15mm long with ID 1 1/2" BSP thread.01 nos Teflon washer supplied with brass fitting OD 62mm, ID 48mm and 3mm thickness. As per our quotation No. EM 16014 Revised, item No.6 and EM 16014D, item No.4 (QRs. 860.00 + QRs. 320.00+ QRs. 175.00 = QRs. 1,355.00)	
2501	THREAD BAR, AND FIRE HYDRANT LOCK NUT :-	5,315.00
	Following items manufactured as per sample.Client supplied 5 Nos. thread bar size each M30 x 500mm long along with 10 nos nuts received in work shop, each stud bars both end provided	

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Vessel Name/Description : TUG "SALWA"

Job No Description

Line Amount

with both end $18m \times 25mm$ long Hexogen machined portion.Brass adaptor as per sample provided with Female/female thread - 4 Pcs.

Anchor chain squaring bar thread fabricated as per sample and renewed - $2\ \text{Pcs.}$

Fire hydrant lock with nut to be fabricated as per sample to overall size each 25mm x 65mm long provided with 25mm x 15mm x 12mm thick head and 10mm shank with M8 thread at other end- 2 Pcs.

As per our quotation No. EM 16014A Revised 2, item No.1

2502 ENGINE EXHAUST SENSOR HOLDING :-

235.00

1No. broken fitting removed from Engine exhaust sensor housing.

As per our quotation No. EM 16014D, item No.5

2503 MANUFACTURE OF SENSOR ADAPTORS :-

330.00

2 Nos. CS sensor holding adaptors manufactured new from 32mm H/B 60mm long one end 1" BSW thread 27mm long and other end 1/4" NPT female thread 17mm deep. ID 7.5mm.

As per our quotation No. EM 16014E, item No. 3.

5050 PORT MAIN ENGINE VIBRATION MOUNTING :-

Job has been cancelled.

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Vessel Name/Description : TUG "SALWA"

Job No	Description	Line Amount
5051	PORT AND STBD. MAIN ENGINE SILENCER MOUNTING RENEWAL :- Port and stbd. Silencer's 4 Nos. dampers were removed and client supplied new dampers are fitted on position.	3,700.00
	As per our quotation No. EM 16014 Revised, item No. 12.	
5800	A) ANCHOR WINCH CLUTCH CYLINDERS AND BRAKE BAND :-	28,170.00
	1) 4 Nos. clutch cylinders for winches disconnected, removed and shifted to work shop and handed over to client for overhauling. After overhauling 4 Nos cylinders received and brought back to vessel and refitted on position. 2) Brake band 2 Sets removed from location and brought to workshop removed existing break pad and break band send to blasting painting, after the blasting painting received the both break band and installed back new yard supplied (10MM thickness 150 MM width 3 meter long break pad and new countersunk bolt) both break band return back to vessel and refitted on position witnessed. Based on quotation No. EM 16014 Revised, item No. 5 (QRs. 10,520.00 + (Brake band QRs. 5,180.00 x 2 sets) = QRs. 20,880.00).	
	Additional to quotation:- Supply of 10mm thickness x 150mm x 3 meters long brake liner and 80 Nos. M8 brass counter sunk bolts QRs. 2,490.00 B) BRAKE BAND DRILLING:- Brake band assembly 2 sets set up on lathe machine existing M6 hole enlarged to M8 as per the client instruction, each break band 10 holes (total 20 thread holes) Brake band's 8 Nos. Pins each provided with circular greasing groove at center and 2 Nos. length wise slot grooves.	

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Vessel Name/Description : TUG "SALWA"

Job No	Description	Line Amount
	Based on quotation No. EM 16014D, item No. 6 (QRs. 1,650.00 + QRs. 750.00) \times 2 sets = QRs. 4,800.00).	
6000	PORT /STBD AQUA THRUSTER PURIFICATION PIPES :-	9,600.00
	Port & Stbd. Aqua thruster purification suction pipe fabrication details as follows. PORT SIDE:- Size 2.5" dia. Sch 80 Ms pipe x 1200mm long provided with 3 Nos. MS flanges 2.5", 2 Nos. Sch 80 elbows., 1 No. 2 1/2" dia. ball valve SS 316, 1 No. 2.5 " dia. Brass end cap size 100 mm x 60 mm long. STBD SIDE:- Size 2.5" dia. Sch 80 Ms pipe x 1200mm long provided with 3 Nos. MS flanges, 2 Nos. 2.5" dia. Sch 80, elbows., 1 No. 2 1/2 " dia. ball valve SS 316 ,1 No. 2.5 " dia. end brass cap size 100 mm dia. x 60 mm long. Based on our quoattion No. EM 16014 Revised, item No.3 (QRs. 10,300.00 less QRs. 700.00 = QRs. 9600.00).	
6001	PORT SIDE THRUSTER GRAVITY TANK PIPE LINE SUPPORT :- Port side thruster gravity tank pipes lines removed and refix with provide additional saddle support dia 15 mm - 2 Nos. Ms channel 100X 50 mm X 08 mm X 60 mm long -2 Nos. Based on our quotation No. EM 16014 Revised, item No. 4. (QRs. 1,560.00 less QRs.710.00 = QRs. 850.00).	850.00
6002	GREASING PIPE FOR WINCH AND CAPSTAN ROLLER GREASE NIPPLE :-	1,500.00

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Vessel Name/Description : TUG "SALWA"

Job No Description

Line Amount

Following greasing pipes fabricated using yard supplied pipe, end fitting and Client supplied grease nopple. Winch greasing pipe size $10\,\mathrm{mm}$ dia. X $1500\,\mathrm{mm}$ long provided with end fitting - $4\,\mathrm{Nos}$.

Capstan greasing pipe size 10mm dia. X 300mm long provided with end fitting - 1 No.

As per our quotation No. EM 16014 Revised, item No. 13.

6003 PARTLY RENEWAL OF PIPE :-

880.00

Existing pipe size 1" dia. x 500 mm long with one fitting dismantled, ball valve , 1" Brass nipple , 1" Male / female elbow opened cleaned and refitted in with yard manufactured 1 No. 1" dia. adopter with male and female thread and 1 No. ss ball valve.

1 No. 75mm dia. x 60 mm long MS Adopter fabricated. 1 No. 175 mm OD x 50 mm ID x10 mm thick Washer Fabricated. Based on our quotation No. EM 16014E, item No. 1 (QRs. 430.00+QRs. 450.00 = QRs. 880.00).

7000 OVERHAULING OF D.G ALTERNATOR (180KW) :-

3,000.00

1 No alternator received in shipyard Carried out inspection and test completely dismantled. Cleaned using chemical Electrokleen (D-4) and inspected all mechanical parts Carried out incoming electrical inspection of main stator, main rotor, exciter rotor, exciter field Cleaned and driedApplied anti tracking red insulation varnish to all windings and tested checked and overhauled rotating rectifier assemblyDimensionally inspected NDE and shield bearing housing bore and found ok and recordedDimensionally inspected rotor shaft NDE bearing location bore found ok and recorded. Yard supplied NDE bearing

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W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No Description

Line Amount

fitted 6315 2RSC3 $\,$ 01 no. Alternator assembled, tested and delivered on board.

As per out Quotation No. EM EM 16014 Revised, item No. 14.

7001 OVERHAULING OF ENGINE ROOM BLOWERS (16.5 KW EACH):-

6,040.00

2 Nos. engine room blowers (Each 15.5/2.7KW) received in work shop, dismantled and overhauled. Motor overhauled. Motors bearings renewed using client supplied bearings. Motor's rotor and stator re-varnished, baked in oven, megger tested and reassembled. Blower cleaned and assembled with motor.

As per quotation No. EM 16014 Revised, item No. 15 (QRs. 3,600.00).

Additional to quotation.

Assistance of 2 electricians, 2 Riggers and Yard's mobile crane provided during removal and refitting of Engine room blowers. (QRs. 2,440.00).

DIOWELS. (QRS. 2,440.00)

SUPPLY OF MATERIALS :-

1,905.00

A) Following materials supplied agaist signed delivery Note. Size $3x\ 1.5$ sqmm Marine cable -100 meters long.

Size 3x 2.5 sqmm Marine cable - 100 meter long.

As per our quoattion No. EM 16014B, item No. 2 (QRs. 1,860.00).

B) Aluminium rivets size 4.5mm dia. - 100 Nos. (QRs. 45.00)

E & O.E

for QATAR NAVIGATION (Q.S.C)

7500

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DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011300 / 1

W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Line Amount

9100 SERVICE OF MANPOWER :-

Description

22,070.00

Services of Manpower (Mechanic, Rigger) along with 15 Tons Forklift and 80Tons Mobile crane) provided to work under direct supervision of client representative for as per signed day work sheets dated from 04-12-2021 to 06-12-2021.

A) MANPOWER:-

A.1) Mechanic:-

Normal Time: - QRs. 90.00 per hour x 16 HOURS = QRs. 1,440.00. Over Time: - QRs. 90.00 per hour x 4 HOURS x 1.25 = QRs. 450.00.

A.1) Rigger:-

Normal Time:- QRs. 80.00 per hour x 60 HOURS = QRs. 4,800.00.

Over Time: - QRs. 80.00 per hour x 16 HOURS x 1.25 = QRs.

1,600.00.

B) EQUIPMENTS:-

80 Tons Mobile crane:- QRs. 580.00 per hour x 21 hours = QRs.

12,180.00.

15 Tons Forklift:- QRs. 400.00 per hour x 4 hours = QRs.

1,600.00.

Encls:-

Copy of our quotation No. EM 16014 Revised by E-mail dated 16-11-2021.

Copy of signed day work sheets for job No. 9100 dated from 04-12-2021 to 11-

12-2012 (5 Sheets).

Copy of signed delivery hote For Job No. 7500 dated 04-12-2021 and 05-12-2021.

Copy of signed day work sheets for Job No. 1801 dated from 05-12-2021 to 09-

12-2021 (5 sheets).

Copy of Ultrasonic thickness measurement report for Job No. 1155 dated 07-12-

2021.

Copy of MPI examination report for Job No. 1801 dated10-12-2021.

E & O.E

for QATAR NAVIGATION (Q.S.C)

SHIP REPAIR & FABRICATION

Telephones

Office: 4771690 / 4771695

Fax : 4771687



Telex: 4206 DH
Cable: "NAVIGATION" Doha
Bank A/c:QNB Main Branch
P.O.Box 1000, Doha - Qatar
Swift Code: QNBAQAQA
QAR A/C No. 0013-000309-060
USD A/C No. 0013-000309-061

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900001

SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/013135/2021

DATE: 31/12/2021

EXPENSE A/C: 85.901.1434006 W/O NO: 21-011300 / 1

W/O REF: MLO21247

Vessel Name/Description : TUG "SALWA"

Job No Description

Line Amount

Copy of pressure test report for Job No. 1402 dated 11-12-2021.

Copy of our quotation No. EM 16014A Revised2 by E-mail dated 13-12-2021.

Copy of our quotation No. EM 16014C by E-mail dated 06-12-2021.

Copy of our quotation No. EM 16014E by E-mail dated 07-12-2021.

Copy of our quotation No. EM 16014F Revised. by E-mail dated 13-12-2021.

Copy of your E mail dated from 05-12-2021 to 07-12-2021

Copy of signed work completed reports.

Invoice Amount -->

196,548.00

(QAR - One Hundred Ninety-Six Thousand Five Hundred Forty-Eight Only)

E & O.E

for QATAR NAVIGATION (Q.S.C)
SHIP REPAIR, FABRICATION & ENGINEERING DIVISION