

## 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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900001

SHIP MANAGEMENT - SHIPYARD INTERCO Shipyard WS

PO Box 153, Doha - Qatar

INVOICE NO: SFWK/INV/012726/2021

DATE: 30/04/2021

EXPENSE A/C: 85.901.1434006

W/O NO: 21-011042 / 1

W/O REF: MLO 21026

Vessel Name/Description : M.V. "HALUL-41"

Job No	Description	Line Amount
2500	<p>ALTERNATOR ADDITIONAL WORKS:-</p> <p>Rotor shaft trueness checked and report submitted to QC. Rotor shaft damaged coupling area and key way repaired, damaged exists key closed with key tack welded, OD machined down to 2mm on diameter, taken final trueness and new key way machined. Coupling damaged ID and key way welded, ID machined according rotor shaft coupling OD and new key way machined. 01 nos SS new key manufactured with 1 1/8" x 16mm x 165mm long.</p> <p>As per our quotation No EM 15728B, item no. 1.</p>	5,040.00
2501	<p>RESLEEVEING OF ALTERNATOR END COVER:-</p> <p>NDE cover damaged bore repaired, enlarge the bore 225mm, manufactured grey cast iron sleeve, inserted with interference fit, secured with 02 nos M6 grub screw and final machined as per bearing OD + 0.03mm with O ring groove.</p> <p>As per our quotation No EM 15728B, item no. 2.</p>	2,600.00
7000	<p>OVERHAULING OF ALTERNATOR (500 KW):-</p> <p>1 No. alternator (500KW) received in work shop. Taken megger test and airgap. In our visual inspection, we found rotor shaft and coupling key damaged, as per client instruction started overhauling. Removed alternator coupling, drive end, NDE with excitor coil. Removed bearing and takeout rotor from inside the stator. All alternator parts cleaned by electro cleaner solvent. Rotor, stator and excitor coil keep inside automatic temperature control oven. Main stator, rotor and excitor stator re-varnished. End covers, rotor and coupling</p>	16,740.00

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.

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sent to machine shop for calibration as per QC instruction. DE and NDE bearing housing DP test done. found satisfactory. Rotor shaft MPI test completed and found satisfactory. ND end cover found loosen. Re-sleeved non drive end cover. Found shaft coupling area slightly bend. Shaft and coupling sent to machine shop for repairing. After repairing rotor with coupling sent to dynamic balancing, dynamic balanced. After that start to re-assembling the alternator using by owner supplied bearings. Coupling installed in the same position. Megger test and airgap carried out. found satisfactory. As per our quotation No EM 15728, item No. 1. & EM 15728C, item No. 1.

(QRs. 12,100.00 + QRs. 4,640.00 = QRs. 16,740.00).

9000	HIRE OF HYDRAULIC TORQUE WRENCH:-	800.00
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Hydraulic torque wrench provided on hire basis as per signed delivery Note dated 10-02-2021 and 25-02-2021.

Based on our quotation No EM 15728A, item No. 1.

(QRs. 50.00 per day x 16 Days = QRs. 800.00).

Encls:-

Copy of our quotation No. EM 15728 By E mail dated 07-02-2021.  
Copy of signed delivery Note dated 10-02-2021 & 25-02-2021  
Copy of our quotation No. EM 15728A By E mail dated 11-02-2021.  
Copy of our quotation No. EM 15728B By E mail dated 18-02-2021.  
Copy of your E Mail dated 18-02-2021.  
Copy of our quotation No. EM 15688C By E mail dated 04-03-2021.

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for QATAR NAVIGATION (Q.S.C)

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Copy of your E Mail dated 09-03-2021.

Copy of signed delivery Note dated 09-03-2021

Copy of your E Mail dated 28-04-2021.

Copy of DP test report dated 11-02-2021.

Copy of Alternator shaft &amp; End cover initial calibration report dated 15-02-2021.

Copy of MPI test report dated 15-02-2021.

Alternator coupling initial report dated 16-02-2021.

Copy of Alternator shaft final calibration report dated 22-02-2021.

Copy of dynamic balancing report dated 09-03-2021.

Copy of main stator and rotor air gap report dated 13-03-2021.

Copy of signed delivery note dated 13-03-2021.

Invoice Amount --&gt;

25,180.00

(QAR - Twenty-Five Thousand One Hundred Eighty Only)

E &amp; O.E

for QATAR NAVIGATION (Q.S.C)

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