QATAR NAVIGATION (QPSC)

SHIP REPAIR & FABRICATION

Telephones
Office : 4771690 / 4771695
Fax : 4771687

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

INVOICE

105674
NORTH OIL COMPANY
GATE MALL, TOWER 4, 7TH FLOOR DOHA QA 21264

INVOICE NO: SFWK/INV/012888/2021
DATE: 31/07/2021
EXPENSE A/C:
W/O NO: 21-011013 / 1
W/O REF: NMO21015

Vessel Name/Description : REEL HOSE ASSEMBLY WORKS -NOC

Job No	Description	Line Amount
	PO:-4200008985	
1150	REEL HOSE ASSEMBLY/DISASSEMBLY:-	99,216.00
	Carried out assembly and testing of reel hose 20"-32 sections. USD 41,876 + 12 % annual escalation for year 2,3,4 &5 = USD 46,901.00	
	Mooring of the hose at the alongside floating dock for 10 days. USD 335 + 12 % annual escalation for year 2,3,4 & 5 x 10 days = USD 3,752.00	
	Shifting of hose from dock to outside water. USD 3,349 + 12 % annual escalation for year 2,3,4 &5 = USD 3,751.00	
	Receiving, disassembly and cleaning of the reel hose 20" - 32 sections USD 29,312 + 12 % annual escalation for year 2,3,4 &5 = USD 32,829.44	
	Mobile crane 80 Ton with operator. USD 1,260 + 12 % annual escalation for year 2,3,4 &5 x 5 days = USD 7,055.00	
	Service of mechanic provided for additional hydrotest, each 12 sections x 2 times - 4 mechanic provided x 5 days USD 220 x 4 nos + 12 % annual escalation for year 2,3,4 &5 x 5 days = USD 4,928.00	

E & O.E

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

This is a computer generated invoice and no signature/stamp required.
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 & FABRICATION

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Office : 4771690 / 4771695
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INVOICE

105674
NORTH OIL COMPANY
GATE MALL, TOWER 4, 7TH FLOOR DOHA QA 21264

INVOICE NO: SFWK/INV/012888/2021
DATE: 31/07/2021
EXPENSE A/C:
W/O NO: 21-011013 / 1
W/O REF: NMO21015

Vessel Name/Description : REEL HOSE ASSEMBLY WORKS -NOC

Job No	Description	Line Amount

Note:-

Payment within 30 days net after that 1% interest shall be applied every month.

Encl:-

Copy of PO and reports.

Invoice Amount --> 99,216.00

(USD - Ninety Nine Thousand Two Hundred Sixteen Only)

E & O.E

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

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MILAHA

CERTIFICATE

HYDRO TEST REPORT

SF-DT-025

DATE:	04/04/2021	**REPORT NO.**	SF/PT/21025
CLIENT/ VESSEL:	NORTH OIL COMPANY	**JOB NO.**	NMO 21015/21-011013/1150
LOCATION:	MILAHA SHIP REPAIR & FABRICATION YARD		
EQUIPMENT, DESCRIPTION :	FSO AFRICA STBD REEL HOSE STRING, 20" – 32 SECTIONS	**REFERENCE No.**	N.A
UNITS TESTED:	ONE STRING (32 SECTIONS)	**REF/ SL. Nos.**	N.A
SERVICE PRESSURE (Max.):		12 BAR	
TEST PRESSURE:		12 BAR	
TEST MEDIUM:		WATER	
PRESSURE HOLDING DURATION:		4HRS	
TEMPERATURE:		22^0C to 25^0 C	
PRESSURE GUAGE:		PG-23032101	
PRESSURE RECORDER:		SR. NO. : E000010530/1/1	
CONTROLLING PROCEDURE:		Work Pack No.: 037A (Revision No:01)	
REMARKS	Pressurised the hose string step by step to 12barg at each increment of 4 barg, allowing 15minutes settlement time at each step. After reaching 12 barg hold for 1 hour for stabilization and final hold for 3 hours. No leaks or abnormal pressure drop observed during test.		
TEST RESULT	❒ **SATISFACTORY** ✓	❒ **NOT SATISFACTORY**	❒ **TO BE RE TESTED**

Conducted by:	Approved by:	TPI (Intertek)	Client Representative
Arvind Kumar Gupta	Sasidharan Pillai	Mohammad Hasnain	Egor (Trelleborg)
QA/QC Inspector	QHSSE Manager	Third party Inspector	Hose Engineer
Signature:	Signature:	Signature:	Signature:

MILAHA Maritime and Logistics QA/QC - Shipyard

intertek ☐ Reviewed ☑ Witnessed Initial: 04-04-2021 Date: QA - 0021

CERTIFICATE	
HYDRO TEST REPORT	SF-DT-025

DATE:	27/03/2021	**REPORT NO.**	SF/PT/21024
CLIENT/ VESSEL:	NORTH OIL COMPANY	**JOB NO.**	NMO 21015/21-011013/1150
LOCATION:	MILAHA SHIP REPAIR & FABRICATION YARD		
EQUIPMENT, DESCRIPTION :	FSO AFRICA STBD REEL HOSE STRING, 20" – 22 SECTIONS	**REFERENCE No.**	N.A
UNITS TESTED:	ONE STRING (**22 SECTIONS** TESTED OUT OF 32 SECTIONS)	**REF/ SL. Nos.**	N.A
SERVICE PRESSURE (Max.):		12 BAR	
TEST PRESSURE:		12 BAR	
TEST MEDIUM:		WATER	
PRESSURE HOLDING DURATION:		90 MINUTES	
TEMPERATURE:		22^0C to 25^0 C	
PRESSURE GUAGE:		PG-23032101	
PRESSURE RECORDER:		SR. NO. : E000010530/1/1	
CONTROLLING PROCEDURE:		Work Pack No.: 037A (Revision No:01)	
REMARKS	Pressurised the hose string step by step to 12barg at each increment of 4 barg, allowing 15minutes settlement time at each step. After reaching 12 barg hold for 30minuts for stabilization and final hold for one hour. No leaks or abnormal pressure drop observed during test.		
TEST RESULT	❒ **SATISFACTORY** ✓	❒ **NOT SATISFACTORY**	❒ **TO BE RE TESTED**

Conducted by:	Approved by:	TPI (Intertek)	Client Representative
Arvind Kumar Gupta	Sasidharan Pillai	Mohammad Hasnain	Igor (Trelleborg)
QA/QC Inspector	QHSSE Manager	Third Party Inspector	Hose Engineer
Signature:	Signature:	Signature:	Signature:

Intertek
☐ Reviewed
☑ Witnessed
Initial:
Date: 27-03-2021
QA - 0021

Maritime and Logistics
QA/QC - Shipyard

CERTIFICATE	
HYDRO TEST REPORT	SF-DT-025

DATE:	18/03/2021	**REPORT NO.**	SF/PT/21023
CLIENT/ VESSEL:	NORTH OIL COMPANY	**JOB NO.**	NMO 21015/21-011013/1150
LOCATION:	MILAHA SHIP REPAIR & FABRICATION YARD		
EQUIPMENT, DESCRIPTION :	FSO AFRICA STBD REEL HOSE STRING, 20" – 12 SECTIONS	**REFERENCE No.**	N.A
UNITS TESTED:	ONE STRING (**12 SECTIONS** TESTED OUT OF 32 SECTIONS)	**REF/ SL. Nos.**	N.A
SERVICE PRESSURE (Max.):		12 BAR	
TEST PRESSURE:		12 BAR	
TEST MEDIUM:		WATER	
PRESSURE HOLDING DURATION:		90 MINUTES	
TEMPERATURE:		22^0C to 25^0 C	
PRESSURE GUAGE:		PG-23032101	
PRESSURE RECORDER:		SR. NO. : E000010530/1/1	
CONTROLLING PROCEDURE:		Work Pack No.: 037A (Revision No:01)	
REMARKS	Pressurised the hose string step by step to 12barg at each increment of 4 barg, allowing 15minutes settlement time at each step After reaching 12 barg hold for 30minuts for stabilization and final hold for one hour. No leaks or abnormal pressure drop observed during test.		
TEST RESULT	❒ **SATISFACTORY** ✓	❒ **NOT SATISFACTORY**	❒ **TO BE RE TESTED**

Conducted by:	Approved by:	TPI (Intertek)	Client Representative
Arvind Kumar Gupta	Sasidharan Pillai	Mr. Hasnain	Egor (Trelleborg)
QA/QC Inspector	QHSSE Manager	Inspector (TPI)	Hose Engineer
Signature:	Signature:	Signature:	Signature:

MILAHA Maritime and Logistics QA/QC - Shipyard

intertek ☐ Reviewed ☑ Witnessed Initial: Date: 18-03-2021 QA - 0021

CALIBRATION CERTIFICATE

Client	**: M/s. SUPER TECHNICAL ENTERPRISES WLL., P.O Box No: 41043, Shop no: 43 & 45, Building No :1, Barwa Village, Al Wakra, Doha , Qatar.**	**Certificate No.**	**: CF210302.18**
		Date of Calibration	: 23/03/2021
		Date of Issue	: 23/03/2021
Job No:	**: CF210302**	Temp	: 20 ± 2°C
Procedure:	: MQS 03- C	Relative Humidity	: 55 ± 15 %
UUT DETAILS		Location	: Customer Premises
Unit Under Test	**: PRESSURE GAUGE**	Date Of Receipt	: 23/03/2021
Manufacturer	: WINTERS	UUT Condition	: Good
Model	: 4"dial		
Id No.	: 'PG-23032101		
Range	: (0 to 600) psi / 40 bar		
Resolution	: 5 psi		

CALIBRATION REFERENCES

Equipment	: Digital Pressure Calibrator
Manufacturer	: Sika
Serial. No.	: 1631TE3
Certificate No.	: C2001001.08
Traceability	: Intl. Std thru DH-Budenberg (UKAS:0138) thru Metromac QTR (IAS:CL-208)

REFERENCE :

(I). British standards : BS EN 837 - 1:1998

(ii) MM Work Instruction / Calibration procedure : W.I MQS 03 C13

NOTE

UUT Accuracy: ± 2.0% FS

TEST RESULTS

Range	UP - Pressure in psi			DOWN - Pressure in psi		
	Applied (UUT)	Measured (Master)	Deviation	Applied (UUT)	Measured (Master)	Deviation
(0 to 600) psi / 40bar	0	0	0	590	600	-10
	98	100	-2	492	500	-8
	295	300	-5	295	300	-5
	492	500	-8	98	100	-2
	590	600	-10	0	0	0
Maximum Deviation %FS				1.667		

*** END OF CERTIFICATE ***

Recommended Due: 22.03.2022

Calibrated by

Name : Varun.P

Signature :

METROMAC CALIBRATION SERVICES

Approved by

Name : Anoop Thomas

Signature :

Metro Mac *calibrated the above instrument using standards and instruments whose accuracy are traceable to the National or International Standards or to measurable conditions created in our laboratory using procedures developed by our company*

This certificate may not be reproduced in part or full without the written approval of Metro Mac.

Limitation of Liability

In no event will Metro Mac liable for any damage whatsoever resulting from loss of use and or data, arising out of or in connection with the use of the instrument certified herein.

intertek
Reviewed
Witnessed
Initial:
Date: 04-04-2021
QA - 0021

Tel: +974 44515336 | Fax: +974 44513525
P.O Box: 200239, Barwa Village, Building No.5, Shop 6 & 8, Al Wakrah, Doha - Qatar
qatar@metromac.com | www.metromac.com

شركة قطر لخدمات القياس ذ.م.م.
QATAR CALIBRATION SERVICES W.L.L.
A Petrotec JV Co.

P.O. Box 16069
Doha, Qatar
C.R. No 20582
Tel : +974 4033 1741
Fax : +974 4451 5319
Email :qcal@qatar.net.qa
Web : www.qcal.com.qa

CALIBRATION
REPAIR
INSPECTION
ANALYSIS

ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Certificate of Calibration

Date of Issue
5/January/2021
Certificate Number
90455
73244

Page : 1 / 2

Approved Signatory

Approved Signatories : B. Davis ( ) N. A. Aguba (✓) D. Pablo ( ) Bushra K. ( ) Arjun S ( ) Joson J ( ) Jishin A (✓) S Joshua ( )

Equipment Description	: Dual Chart Recorder
Manufacturer	: Rototherm
Type	: T080
Serial Number	: E000010530/1/1
Asset Number	: n/s
Date Received	: 05 January 2021
Date Calibrated	: 05 January 2021
Customer	: MILAHA Maritime & Logistics
Address	: P.O. Box: 153, Doha, Qatar
Job Reference	: 19526-0019
Due Date	: 05 January 2022
Test Standard	: Budenberg 580HX Dead Weight Tester Sl. No: A7036; A5693 Cert. No: 70680
	: Fluke 51 II Digital Thermometer Sl.No.: 36580116WS, Cert.No.: 85129

Comments

No adjustment were carried out .

Estimated Uncertainty	: Temperature ± 0.06°C
	Pressure ± 0.04%
Indication On UUT	: ± ½ division

Stamp Here

intertek
☑ Reviewed
☑ Witnessed
Initial: Mohd. Hasnain
Date: 04-04-2021

Calibration Engineer : Ganesh Bashyal

Disclaimer :
This certificate relates to calibration services in relation to the instruments provided by the Customer or its nominated third parties or collected by Qcal in accordance with the Customer instructions.
This document only certifies that the instruments have been calibrated using measuring equipment in accordance with the relevant industry standards. Qcal accepts no responsibility for the condition and usage of the instruments. The calibration results given in this certificate represent the measured values obtained at the time of test and Qcal makes no representation regarding the stability of the unit under test. Any holder of this document is advised that this certificate is for exclusive use of Qcal Customer and is provided pursuant to the agreement between Qcal and its Customer. Qcal responsibility and liability are limited to the terms and conditions of the agreement.

This is to certify that the above instrument has been calibrated at an RH between 30% & 70%, and a temperature of 23°C ± 2°C. All measurements are traceable to UK National Standards.

شركة قطر لخدمات القياس ذ.م.م.
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C.R. No 20582
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Fax : +974 4451 5319
Email :qcal@qatar.net.qa
Web : www.qcal.com.qa

CALIBRATION
REPAIR
INSPECTION
ANALYSIS

ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Certificate of Calibration

Date of Issue
05/January/2021
Certificate Number
90455

Approved Signatory

As Found/As Left

Range	Applied Standard	Indicated on UUT Rising	Indicated on UUT Falling
Pressure			
0 - 40 bar	0.0000 bar	0 bar	0 bar
	7.9860 bar	8 bar	8 bar
	15.9719 bar	16 bar	16 bar
	23.9579 bar	24 bar	24 bar
	31.9439 bar	32 bar	32 bar
	39.9298 bar	40 bar	--- bar

Note : 1/2 division is taken as 0.4 bar

Range	Indicated on UUT	Applied Standard	Deviation
Temperature			
0 to 60 °C	30 °C	30.3 °C	-0.30 ºC
	54 °C	54.6 °C	-0.60 ºC
	60 °C	60.4 °C	-0.40 ºC

Note : 1/2 division is taken as 0.6 °C.

intertek
Reviewed
Witnessed
Initial:
Date: 04-04-2021
QA - 0021

QCAL
شركة قطر لخدمات القياس ذ.م.م.
QATAR CALIBRATION SERVICES W.L.L.
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CALIBRATION
REPAIR
INSPECTION
ANALYSIS

ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Certificate of Calibration

Date of Issue
10/December/2020
Certificate Number
89466
65865

Approved Signatories : B. Davis ( ) N. A. Aguba ( ) D. Pablo ( ) Bushra K. ( ) Arjun S ( ) Joson J (✓) Jishin A ( ) S Joshua ( )

Approved Signatory

Equipment Description	: Torque Wrench
Manufacturer	: Norbar
Type	: 5R
Serial Number	: 2011/101308
Asset Number	: QN202
Date Received	: 10 December 2020
Date Calibrated	: 10 December 2020
Customer	: MILAHA Maritime & Logistics
Address	: P.O. Box: 153, Doha, Qatar
Job Reference	: 19342-0031
Due Date	: 10 December 2021
Test Standard	: Norbar 1500 N.m Torque Tester Sl.No.: 99713, Cert.No.: 250874

intertek
☑ Reviewed
☒ Witnessed
Initial:
Date: 04-04-2021
QA - 0021

Comments

No adjustment were carried out.
Unit was calibrated as per method suggested by ISO 6789:2003.

Estimated Uncertainty : ±1% of reading

شركة قطر لخدمات القياس ذ.م.م.
QCAL Stamp Here
QATAR CALIBRATION SERVICES W.L.L.

Calibration Engineer : Arjun Satheesh

Disclaimer :
This certificate relates to calibration services in relation to the instruments provided by the Customer or its nominated third parties or collected by Qcal in accordance with the Customer instructions.
This document only certifies that the instruments have been calibrated using measuring equipment in accordance with the relevant industry standards. Qcal accepts no responsibility for the condition and usage of the instruments. The calibration results given in this certificate represent the measured values obtained at the time of test and Qcal makes no representation regarding the stability of the unit under test. Any holder of this document is advised that this certificate is for exclusive use of Qcal Customer and is provided pursuant to the agreement between Qcal and its Customer. Qcal responsibility and liability are limited to the terms and conditions of the agreement.

This is to certify that the above instrument has been calibrated at an RH between 30% & 70%, and a temperature of 23°C ± 2°C. All measurements are traceable to UK National Standards.

شركة قطر لخدمات القياس ذ.م.م.
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CALIBRATION
REPAIR
INSPECTION
ANALYSIS

ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Certificate of Calibration

Date of Issue
10 December 2020
Certificate Number
89466
Page : 2/2
Approved Signatory

Range	Setting on UUT in N.m	STD Reading in N.m				
		1st Set	2nd Set	3rd Set	4th Set	5th Set
300 - 1000 N.m	300	301.6	302.6	300.5	301.0	300.9
	600	602.6	600.2	605.0	606.4	603.4
	1000	1012.1	1010.6	1009.6	1012.1	1011.4

intertek
Reviewed
Witnessed
Initial: MOHD. HASNAIN
Date: 04-04-2021
QA - 0021

شركة قطر لخدمات القياس ذ.م.م.
QCAL
QATAR CALIBRATION SERVICES W.L.L.

Purchase order	**4200008985**
Date :	**05.01.2021**

Qatar Navigation QPSC
153
153 DOHA
QATAR
Your Tel. : +97444947789
Attention :
Email : Vendor.Management@milaha.com

Dear Sir/Madam,

This Call-Off Order together with any attached documents is/are based on the terms and conditions under the CONTRACT referenced herein.

Final shipping address		**Buyer contact details**
N/A		**Selvaganapathy THANGAVELU** North Oil Company **Email :** Selvaganapathy.THANGAVELU@noc.qa
Your reference	**Our reference**	**Incoterms**
		N/A
Original / Receipt To return duly signed within 5 days For the attention of Selvaganapathy THANGAVELU		**Total value of the Order :** **99,216.00 USD**
For Qatar Navigation QPSC : **Date :** 05.01.2021 **Signature :** Valid for this acknowledgement of this call off order, which has been registered under reference :		**APPROVAL FOR COMPANY** Original released by: Christopher Anthony CLARK **Signature :**

Purchase order	**4200008985**
Date :	**05.01.2021**

Marine Hose String Inspection Services

This call off is for the FSO AFRICA STBD Reel hose change out hose assembly / disassembly and testing.

Start Date: 1-03-2021 End 15-04-2021.

Item	Service Description	Completion Date	Quantity	Unit	Unit Price	Net Amount (USD)
1	4000186	23.12.2020	99,216.000	Activ.unit	1.00	99,216.00
	Please refer to the contract Nbr 4600000087 FLEXIBLE HOSE INSPECTION SERVICES					

NORTH OIL COMPANY
Registered no. 90333
P.O Box 21264
Doha - Qatar

Purchase order	**4200008985**
Date :	**05.01.2021**

Total amount w/o taxes	**99,216.00**
Total Net amount of Order	**99,216.00**
Total amount of Order	**99,216.00**

NORTH OIL COMPANY
Registered no. 90333
P.O Box 21264
Doha - Qatar

Marine & Technical Services
Maritime & Logistics
Gas & Petrochem
Offshore Marine
Capital

MILAHA

Date : 10-12-2020
Ref. No. : ENM 11860
Attn. : NORTH OIL COMPANY
Contract No. : **4600000087**
Subject : ASSEMBLY AND DIS ASSEMBLY OF REEL HOSE

Dear Sir,

With reference to the email dated 26 Nov 2020, we are pleased to submit our **Quotation** for the above scope of work based on agreed contract as follows:

1. **SCOPE OF WORK:**
   - As per attachment no. 1 – Scope of work and pricing.

2. **GENERAL TERMS AND CONDITIONS:**
   - Any taxes and duties payable within Qatar or internationally and related to this project are excluded from this proposal and will be charged as additional.
   - Milaha reserves the right to change unit prices if quantities issued in final order will be changed from the current tender documentation prior or during the execution of the contract.
   - All other terms and conditions as per our agreed contract.
   - Our quotation is for the works to be carried out at Milaha Shipyard.

3. **ATTACHMENTS:**
   - Attachment No.1: Scope of Work and Pricing.

4. **PAYMENT TERMS:**
   - Payment as per the agreed contract.

5. **VALIDITY:**
   - Our offer is valid for 30 days from the date mentioned on this letter.

Trusting this meets your approval and assuring you of our best attention at all times.

Yours faithfully,

For

S & F

Patryk Ryszard Michalak
Manager – Sales & Marketing
Milaha Ship Repair & Fabrication Division
Email: C-PMichalak@milaha.com; Tel: +974 44947000

DATE: 10-12-2020

CLIENT: NORTH OIL COMPANY REF NO: ENM 11854

Sl No	DESCRIPTION	UNIT PRICE (USD)	TOTAL PRICE (USD)
	REEL HOSE ASSEMBLY/DISASSEMBLY :-		
1.1	Assembly and testing of reel hose 20"-32 sections.	46,901	46,901.00
	USD 41,876 + 12 % annual escalation for year 2,3,4 &5 = USD 46,901.00		
1.2	Mooring of the hose at the alongside floating dock - consider for 10 days.	3,752	3,752.00
	USD 335 + 12 % annual escalation annual escalation for year 2,3,4 &5 x 10 days = USD 3,752.00		
1.3	Shifting of hose from dock to outside water.	3,751	3,751.00
	USD 3,349 + 12 % annual escalation annual escalation for year 2,3,4 &5 = USD 3,751.00		
1.4	Receiving, disassembly and cleaning of the reel hose 20" - 32 sections	32,829	32,829.00
	USD 29,312 + 12 % annual escalation annual escalation for year 2,3,4 &5 = USD 32,829.44		
1.5	Mobile crane 50 Ton with operator.	7,055	7,055.00
	USD 1,260 + 12 % annual escalation annual escalation for year 2,3,4 &5 x 5 days = USD 7,055.00		
1.6	Service of mechanic to be provided for additional hydrotest, each 12 sections x 2 times (Consider 4 mechanic x 5 days)	4,928	4,928.00
	USD 220 x 4 nos + 12 % annual escalation annual escalation for year 2,3,4 &5 x 5 days = USD 4,928.00		
	Notes:		
	Any additonal requirements if any to be as per contract rates.		
	All spares/materials shall be provided by NOC.		
	Total amount in US Dollars		**99,216.00**

MILAHA S & F