



Certificate SA19/2615

The management system of

# Saudi National Steel Factory Company

Road No. 7, Dammam 3rd Industrial City,  
Dammam, Saudi Arabia

has been assessed and certified as meeting the requirements of



## ISO 9001:2015

For the following activities

**Production and supply of steel billets, hot rolled deformed, plain steel  
bar, square bar, channel and angle bar in cut to length**

This certificate is valid from 24 February 2022 until 24 February 2025  
and remains valid subject to satisfactory surveillance audits.  
Recertification audit due a minimum of 60 days before the expiration date.  
Issue 2. Certified since 24 February 2019



Authorised by

SGS United Kingdom Ltd  
Rossmore Business Park Ellesmere Port Cheshire CH65 3EN UK  
t +44 (0)151 350-6666 f +44 (0)151 350-6600 [www.sgs.com](http://www.sgs.com)

21HC 9001 2015 0421

Page 1 of 1



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extent of the law.





Jul 16, 2020

SRQU-071-20

**GURLOCHAN B. SINGH**, CEO  
Saudi National Steel Factory Co.  
P.O. BOX 640  
DAMMAM 31952  
SAUDI ARABIA

Fax 013 894 8354

**Mr. Singh,**

We are pleased to inform you that your company is included in the Saudi Aramco Supplier Information System under Vendor Code No. **10065838**, for the following products provided your company continues to meet relevant Saudi Arabian and Saudi Aramco standards.

9COM	Description
6000000615	BAR; REINFORCING; STEEL; ASTM A 615

This approval, however, should not be construed as a commitment by Saudi Aramco to purchase from you. Being approved as a supplier only grant your company the opportunity, along with other approved sources, to respond to requests for submitting proposals in accordance with Saudi Aramco's established policies and procedures. All purchase agreements and orders will be issued based on the name and address stated in your commercial registration (CR), as stated above.

Saudi Aramco wishes to remind you that being recognized as a potential supplier is a privilege which carries with it serious obligations and responsibilities to act in a legal and ethical manner. We wish to remind you of the Saudi Aramco Supplier Code of Conduct (SCOC) which you acknowledged. Failure to abide by the principles set forth in the SCOC can result in adverse actions being taken by Saudi Aramco against you including suspension of you as a supplier. Saudi Aramco also expects each of its suppliers to satisfy each of the requirements of any purchase agreements or orders which might be placed and to act responsibly and reliably as a supply chain supplier.



## SRQU-071-20

Please note that evidence of representation from your supply source(s) must be supported by letter(s) of confirmation stipulating the territorial coverage and specific product lines involved. Your supply sources must have been accepted as qualified suppliers of the range of materials that you wish to supply. It is also important that you advise us immediately of any changes in the agreements which you have negotiated with your supply sources and/or any changes in your contact information such as postal address, telephone and fax numbers.

**Suppliers should apply for Saudi Aramco Supplier Portal access by forwarding a request to portal-registration@aramco.com.** The Supplier Portal is the main electronic business tool used between Saudi Aramco and its suppliers and serves to improve the flow and accuracy of key supply chain information.

For linking applicable 9CATs, please communicate with Standardization engineer Abdullah Abdulaziz Aldaij on (013) 8740641 or on [abdullah.daeej@aramco.com](mailto:abdullah.daeej@aramco.com)

For further information or assistance, please contact Abdulrahman Aljedawi on (013) 874-1844 or the Supplier Help Desk on (013) 874-2222 or on [SupplierHelpDesk@aramco.com](mailto:SupplierHelpDesk@aramco.com)

Adnan A. Jaman, Supervisor (A)  
Supplier Registration & Qualification Unit

It is the responsibility of the supplier to notify Saudi Aramco Supplier Relations Management Unit of the following:

1. Change of Name/ Address/ Owner(s)
2. Any change of the supplier location (sub sourcing fabrication of major components)
3. Discontinue of fabrication or supply of approved commodities (9COMs, 9CATS and/or MSGs)



(صوره)

الموسم: بشأن تأهيل مصنع شركة الحديد الوطني السعودي

المكرمين/ مصنع شركة الحديد الوطني السعودي

ص. ب. ٦٤٠ الرياض: ٣١٦٥٢ الهاتف: ٠١٣٨٩٤٨٦٢٩ الفاكس: ٠١٣٨٩٤٨٣٥٤

السلام عليكم ورحمة الله وبركاته... وبعد

تهديكم وكالة الوزارة للشؤون الفنية بشؤون الإسكان أطيب التحايا والتقدير، وإشارة إلى خطابكم الوارد للوزارة برقم (١٤٨٢٦) وتاريخ ١٤٤٢/٠٦/٢٢ هـ بشأن طلب تأهيل مصنعكم في مشاريع الوزارة، وبعد الاطلاع والدراسة من قبل المختصين بالوزارة لملف التأهيل المقدم من قبلكم نفيدكم أنه لا مانع من تأهيل المصنع لتوريد حديد التسليح من الدرجة ٦٠ (Grade 60) علامة تجارية (SNS) لمشاريع الوزارة وذلك لمدة عامين من تاريخه على أن يتم التقديم من خلال المقاولين والمطورين المنفذين لمشاريع الوزارة مع الالتزام بما يلي عند كل تقديم:

- ١- شهادة الهيئة السعودية للمواصفات والمقاييس والجودة (SASO) لحديد التسليح المطلوب توريده سارية الصلاحية.
- ٢- شهادات اختبار بمعدل عدد ثلاث عينات لكل قطر في مختبر محايد معتمد، وعلى أن يتم أخذ العينات بواسطة المعمل المختص وأن يذكر ذلك صراحة بتقريره، وعلى أن يشتمل التقرير على منحنيات الاختبار مصحوبة بقيم إجهاد الخضوع وإجهاد الكسر ونسبة الإنفعال عند إجهاد الخضوع ونسبة الانفعال القصوى عند حدوث الكسر وطول العينة وقيمة معايير المرونة، وذلك للتأكد من مدى مطابقتها للمواصفات الفنية لمشاريع الوزارة.
- ٣- جميع الشروط والمواصفات وجدول الكميات والمخططات التعاقدية لكل مشروع.
- ٤- جميع شهادات الاختبارات بالإضافة إلى شهادات المنشأ لحديد التسليح المطلوب توريده للمشاريع.
- ٥- شهادة ضمان للمنتج حسب متطلبات العقد.

علماً بأن هذا الاعتماد لا يلزم الوزارة بأي منتجات لا تتوافق مع متطلبات المشاريع التابعة لها.

وتقبلوا تحياتي وتقديري

وكيل الوزارة المساعد والشؤون الفنية

م. نايف بن يوسف أبابطين

- صورة مكتبنا  
- صورة لإدارة العامة للتشغيل والصيانة  
- صورة ترسل ١٣٨٩٤٨٣٥٤





## شهادة ترخيص باستعمال علامة الجودة License For Use of The Quality Mark

رقم الترخيص: 1-000002050074490274542-1438

SASO certifies that it has granted the right to use (SASO) quality mark on the following products, after fulfilling the required requirements according to the related normative references:

تشهد الهيئة السعودية للمواصفات والمقاييس والجودة بأنها رخصت باستخدام علامة الجودة على المنتجات الموضحة أدناه بعد استيفائها للمتطلبات اللازمة وفق المراجع القياسية الخاصة بها:

The Establishment:	مصنع شركة الحديد الوطني السعودي	المنشأة:
The Establishment's Address:	الدمام - المدينة الصناعية الثالثة	عنوان المنشأة:
Production Line Location:	الدمام - المدينة الصناعية الثالثة	موقع خط الإنتاج:
Normative References:	SASO ASTM A615/2018 اللائحة الفنية لمواد البناء - الجزء الأول	المراجع القياسية:
The Trade Mark:	SNS	العلامة التجارية:
The Product:	اسياخ الصلب الكربوني	المنتج: (لتفاصيل المنتج في الملحق)
Date of Granting:	2018/05/27	تاريخ المنح:
Date of Renwal:	2021/04/23	تاريخ التجديد:
Date of Expiry:	2024/04/22	تاريخ الانتهاء:



نائب المحافظ للمطابقة والعمليات  
Vice-Governor, Operations and Conformity

المهندس / سعود بن راشد العسكر  
Eng. Saud R. AlAskar



للتأكد من صحة هذه الشهادة يرجى زيارة موقعنا على الإنترنت، وأي كسب أو تغيير في هذه الشهادة يلغيها.  
To verify this certification visit SASO website, and any changes or modification on this certificate will affect its validity.



## ملحق شهادة ترخيص باستعمال علامة الجودة Appendix (License For Use of The Quality Mark)

The establishment:
Certificate No.:
Certificate Expiration Date:
Product:
Brand Name:

مصنع شركة الحديد الوطني السعودي

1-000002050074490274542-1438

2024/04/22

اسياخ الصلب الكربوني

SNS

تاريخ الملتح/التجديد Date of Granting/Renewal	المقاسات Size	الصلف Classification	م No.
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2021/04/23

مم (32، 28، 25، 22، 20، 18، 16، 14، 12، 10، 8)

1 اسياخ الصلب الكربوني ذات التواءات لتسليح الخرسانة من الدرجة ٦٠ (Grade 60)



للتأكد من صحة هذه الشهادة يرجى زيارة موقعنا على الإنترنت، وأي كسب أو تغيير في هذه الشهادة يلغيها.  
 To verify this certification visit SASO website, and any changes or modification on this certificate will affect its validity.

2 / 2

QMS-F-10-98  
 Issue # 5  
 Date 23/04/1441  
 Rev # 2  
 Date 02/05/1442





الهيئة السعودية للمواصفات والمقاييس والجودة  
Saudi Standards, Metrology and Quality Org.

### شهادة ترخيص باستعمال علامة الجودة

#### License For Use of The Quality Mark

License No: **1-000002050074490274542-1438** رقم الترخيص:  
SASO certifies that: تشهد الهيئة السعودية للمواصفات والمقاييس والجودة بأنها رخصت  
لـ: مصنع شركة الحديد الوطني السعودي  
Address: العنوان: الدمام - المدينة الصناعية الثالثة  
Grant the right to use SASO quality mark on a following product: باستعمال علامة الجودة على منتجاتها التالية:

أسياخ الصلب الكربوني ذات الفتوات لتسليح الخرسانة من الدرجة ٦٠ (Grade 60) للأقطار الاسمية التالية :  
(8 ، 10 ، 12 ، 14 ، 16 ، 18 ، 20 ، 22 ، 25 ، 28 ، 32) مم ، علامة تجارية (SNS) فقط.

After fulfilling the required requirements  
according to the normative documents :

بعد استيفائها للمتطلبات اللازمة وفق المراجع القياسية التالية:

SASO ASTM A 615/2015

Date of issue : **1439/09/12**  
Date of renewal : -  
Date of expiry : **1442/09/11**

بداية تاريخ المنح:  
تاريخ التجديد:  
تاريخ الإنتهاء:



نائب المحافظ للمطابقة والجودة  
Vice-Governor for Conformity & Quality



تم منح هذا الترخيص وفقاً لتنظيم الهيئة السعودية للمواصفات والمقاييس والجودة  
الصادر بقرار مجلس الوزراء رقم ٢١٦ وتاريخ ١٦/٥/١٤٣١هـ

This license is granted according to the regulation of Saudi Standards,  
Metrology and Quality Organization that was issued based on  
the Council of Ministers' Resolution No. 216 dated 31-05-2010

تخضع هذه الشهادة خلال مدة سريانها لأنظمة واللوائح ذات العلاقة في المملكة العربية السعودية وأي تعليمات أو تعديلات تصدرها الهيئة.

This certificate is subject to during the period of validity of the rules and regulations relevant in the Kingdom of Saudi Arabia and any instructions or amendments issued by the commission.

www.saso.gov.sa

QMS- F -10 -98  
Issue # 4 Date 21/08/1439  
Rev # 0 Date 21/08/1439



## A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Saudi National Steel Factory Co.  
 Sample Condition : Good  
 Sample Description : 16mm $\phi$  Deformed Steel Bar  
 Heat No. : July - 75  
 Material Specification : ASTM A 615 Gr.60  
 Test Method : ASTM A 370 - 2017

## B. EQUIPMENT DETAILS:

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	400HVLL3537	6-Apr-18	6-Apr-19

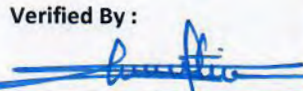
## C. TEST RESULTS :

Test Parameters	Units	Dimensions
Bend Specimen No.	:	3
Nominal Diameter	(mm) :	16.00
Cross - Sectional Area	(mm <sup>2</sup> ) :	201.06
Specimen Dimension (Diameter x Length)	(mm) :	16.00 X 400
Pin Diameter (3.5d)	(mm) :	56.00
Degree of Bending	:	180°

Bend Specimen No.	Method of Bend	Results	Remarks
Sample - 3	Guided Bend	No crack on the outside of the bend portion	SATISFACTORY


Tested By: Abdul Mannan

Verified By :

  
**Mohd.Usman Khan**  
 Supervisor  
 Met-Lab Department



Approved By :

  
**Bernard T. Penuliar**  
 Department Manager  
 Met-Lab Department

This report relates only to the sample tested and shall only be reproduced in full with a written approval of AHSL testing laboratory.



LB-208-TEST

AL HOTY STANGER LTD.CO.

INDEPENDENT LABORATORIES &amp; MATERIALS TESTING

P.O.Box 3072 - Al-Khobar 31952, - TEL: (013) 889 1000 / 808 4317 / 808 7517 / 808 7518 / 808 5217 Fax : (013) 898-1466

Jubail P.O. Box 467 - Tel: (013) 341-6791 Fax : (013) 341-0642 - Hofuf P.O. Box 2752 - Tel: (013) 586-3210 Fax : (013) 587-1420 - Riyadh P.O. Box 7359 - Tel: (011) 478-4292 Fax : (011) 479-2058

Jeddah P.O. Box 8129 - Tel: (012) 660-1924 Fax : (012) 665-6742 - Yanbu - P.O. Box 30312 - Tel: (014) 322-5495 Fax : (014) 391-7471



## A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Saudi National Steel Factory Co.  
 Sample Condition : Good  
 Sample Description : 16mmØ Deformed Steel Bar  
 Heat No. : July - 75  
 Material Specification : ASTM A 615 Gr.60  
 Test Method : ASTM A 370 - 2017

## B. EQUIPMENT DETAILS:

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	400HVLL3537	6-Apr-18	6-Apr-19

## C. TEST RESULTS :

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	3
Nominal Diameter	(mm) :	16.00
Cross - sectional Area	(mm <sup>2</sup> ) :	201.06
Weight	(Kg) :	0.894
Length	(m) :	0.600
Nominal Mass	(Kg/m) :	1.577
Gauge Length	(mm) :	200.00

Test Properties	Units	As per standard / Specification Requirement	Obtained Values
Yield Load	(kN) :	-	108.24
Yield Strength (0.2% Offset)	(MPa) :	420.0 (min)	538.39
Tensile Load	(kN) :	-	137.25
Tensile Strength	(MPa) :	620.0 (min)	682.62
Elongation	(%) :	9.0 (min)	10.00
Comment	:	-	SATISFACTORY

Tested By: Abdul Mannan

Verified By :

Mohd.Usman Khan

Supervisor

Met-Lab Department

Approved By :

Bernard T.Penuliar

Department Manager

Met-Lab Department

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Jeddah P.O. Box 8129 - Tel: (012) 660-1924 Fax : (012) 665-6742 - Yanbu - P.O. Box 30312 - Tel: (014) 322-5495 Fax : (014) 391-7471



LB-208-TEST



CLIENT: SAUDI NATIONAL STEEL

P.O. BOX 640, AL KHOBAR 31952, KSA

## CHEMICAL ANALYSIS

Report no.: M2K180455

Received Date: 30 July 2018

Test Date : 04 Aug. 2018

Report Date: 08 Aug. 2018

Page No. : 1 of 1

**"TEST REPORT ON REBAR SAMPLE"**

Sample Identification : 16mmØ REBAR  
 Sampled by : Client  
 AHS Lab. Ref. No. : KHMAD183111 / 002  
 Material Specification : ASTM A615 Grade 60

**TEST METHOD REF.**

- ❖ Spectrometric analysis using AMETEK SPECTROMAXx Stationary spark OES Instrument.
- ❖ SOP/AHS/MA/047

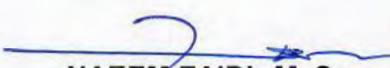
**RESULTS**

Carbon (C)	%	=	0.23
Sulphur (S)	%	=	0.027
Phosphorous (P)	%	=	0.010
Manganese (Mn)	%	=	0.76
Silicon (Si)	%	=	0.40


LT = Less than the detection limit

**REMARKS:**

The above chemical analysis result of the rebar sample complies with the chemical requirement of ASTM A615 / A615M-09, Grade 60 material.

  
**NAEEM ZAIDI, M. Sc.**  
 Manager  
 Materials Analysis Dept.  
 For AL HOTY-STANGER LTD. CO.



  
**A. N. M. OMAR, M. Sc.**  
 Assistant Manager  
 Materials Analysis Dept.  
 For AL HOTY-STANGER LTD. CO.

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AL HOTY STANGER LTD.CO.

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 Jeddah P.O. Box 8129 - Tel: (012) 660-1924 Fax : (012) 665-6742 - Yanbu - P.O. Box 30312 - Tel: (014) 322-5495 Fax : (014) 391-7471





## BEND TEST REPORT

Report No.: M2K180455

Receipt Date: 30 July. 2018

Test Date: 30 July. 2018

Report Date: 04 Aug. 2018

Page No.: 4 of 6

## A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Saudi National Steel Factory Co.  
 Sample Condition : Good  
 Sample Description : 18mmØ Deformed Steel Bar  
 Heat No. : July - 175  
 Material Specification : ASTM A 615 Gr.60  
 Test Method : ASTM A 370 - 2017

## B. EQUIPMENT DETAILS:

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	400HVLL3537	6-Apr-18	6-Apr-19

## C. TEST RESULTS :


Test Parameters	Units	Dimensions
Bend Specimen No.	:	1
Nominal Diameter	(mm) :	18.00
Cross - Sectional Area	(mm <sup>2</sup> ) :	254.46
Specimen Dimension (Diameter x Length)	(mm) :	18 x 400
Pin Diameter (5d)	(mm) :	90.00
Degree of Bending	:	180°

Bend Specimen No.	Method of Bend	Results	Remarks
Sample - 1	Guided Bend	No crack on the outside of the bend portion	SATISFACTORY

Test Witnessed By: Bipul Kr. Sinha - Saudi National Steel


Tested By: Abdul Mannan

Verified By :

  
**Mohd.Usman Khan**  
 Supervisor  
 Met-Lab Department



Approved By :

  
**Bernard T. Penuliar**  
 Department Manager  
 Met-Lab Department

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LB-208-TEST

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 Jeddah P.O. Box 8129 - Tel: (012) 660-1924 Fax : (012) 665-6742 - Yanbu - P.O. Box 30312 - Tel: (014) 322-5495 Fax : (014) 391-7471



## A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Saudi National Steel Factory Co.  
 Sample Condition : Good  
 Sample Description : 18mmØ Deformed Steel Bar  
 Heat No. : July - 175  
 Material Specification : ASTM A 615 Gr.60  
 Test Method : ASTM A 370 - 2017

## B. EQUIPMENT DETAILS:

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	400HVLL3537	6-Apr-18	6-Apr-19

## C. TEST RESULTS :

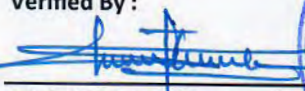
Test Parameters	Units	Dimensions
Tensile Specimen No.	:	1
Nominal Diameter	(mm) :	18.00
Cross - sectional Area	(mm <sup>2</sup> ) :	254.46
Weight	(Kg) :	1.180
Length	(m) :	0.600
Nominal Mass	(Kg/m) :	1.966
Gauge Length	(mm) :	200.00

Test Properties	Units	As per standard / Specification Requirement	Obtained Values
Yield Load	(kN) :	-	132.82
Yield Strength (0.2% Offset)	(MPa) :	420.0 (min)	521.93
Tensile Load	(kN) :	-	176.07
Tensile Strength	(MPa) :	620.0 (min)	691.91
Elongation	(%) :	9.0 (min)	16.00
Comment	:	-	SATISFACTORY

Test Witnessed By: Bipul Kr. Sinha - Saudi National Steel


Tested By: Abdul Mannan

Verified By :

  
**Mohd.Usman Khan**  
 Supervisor  
 Met-Lab Department



Approved By :

  
**Bernard T. Penuliar**  
 Department Manager  
 Met-Lab Department

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LB-208-TEST

AL HOTY STANGER LTD.CO.

INDEPENDENT LABORATORIES &amp; MATERIALS TESTING

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**"TEST REPORT ON REBAR SAMPLE"**

Sample Identification : 18mmØ REBAR  
 Sampled by : Client  
 AHS Lab. Ref. No. : KHMAD183051 / 001  
 Material Specification : ASTM A 615 Grade 65

**TEST METHOD REF.**

- ❖ Spectrometric analysis using AMETEK SPECTROMAXx Stationary spark OES Instrument.
- ❖ SOP/AHS/MA/047

**RESULTS**

Carbon (C)	%	=	0.31
Sulphur (S)	%	=	0.028
Phosphorous (P)	%	=	0.003
Manganese (Mn)	%	=	0.72
Silicon (Si)	%	=	0.33

LT = Less than the detection limit

**REMARKS:**

The above chemical analysis result of the Rebar sample complies with the chemical requirement of ASTM A615 / A615M-09b, Grade 65 material.

NAEEM ZAIDI, M. Sc.  
 Manager  
 Materials Analysis Dept.  
 For AL HOTY-STANGER LTD. CO.



A. N. M. OMAR, M. Sc.  
 Assistant Manager  
 Materials Analysis Dept.  
 For AL HOTY-STANGER LTD. CO.

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## TENSILE TEST REPORT

Report No.: M2K180455

Receipt Date: 30 July. 2018

Test Date: 31 July. 2018

Report Date: 04 Aug. 2018

Page No.: 2 of 6

## A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Saudi National Steel Factory Co.  
 Sample Condition : Good  
 Sample Description : 14mmØ Deformed Steel Bar  
 Heat No. : July - 125  
 Material Specification : ASTM A 615 Gr.60  
 Test Method : ASTM A 370 - 2017

## B. EQUIPMENT DETAILS:

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	400HVLL3537	6-Apr-18	6-Apr-19

## C. TEST RESULTS :

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	2
Nominal Diameter	(mm) :	14.00
Cross - sectional Area	(mm <sup>2</sup> ) :	153.93
Weight	(Kg) :	0.703
Length	(m) :	0.600
Nominal Mass	(Kg/m) :	1.209
Gauge Length	(mm) :	200.00

Test Properties	Units	As per standard / Specification Requirement	Obtained Values
Yield Load	(kN) :	-	74.35
Yield Strength (0.2% Offset)	(MPa) :	420.0 (min)	482.99
Tensile Load	(kN) :	-	95.38
Tensile Strength	(MPa) :	620.0 (min)	619.60
Elongation	(%) :	9.0 (min)	11.00
Comment	:	-	UNSATISFACTORY

Tested By: Abdul Mannan

Verified By :

Mohd.Usman Khan  
 Supervisor  
 Met-Lab Department



Approved By :

Bernard T. Penuliar  
 Department Manager  
 Met-Lab Department

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LB-208-TEST





## BEND TEST REPORT

Report No.: M2K180455

Receipt Date: 30 July. 2018

Test Date: 31 July. 2018

Report Date: 04 Aug. 2018

Page No.: 5 of 6

## A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Saudi National Steel Factory Co.  
 Sample Condition : Good  
 Sample Description : 14mmØ Deformed Steel Bar  
 Heat No. : July - 125  
 Material Specification : ASTM A 615 Gr.60  
 Test Method : ASTM A 370 - 2017

## B. EQUIPMENT DETAILS:

Make / Model	Equipment Serial No.	Calibration date	Calibration Due date
INSTRON	400HVLL3537	6-Apr-18	6-Apr-19

## C. TEST RESULTS :

Test Parameters	Units	Dimensions
Bend Specimen No.	:	2
Nominal Diameter	(mm) :	14.00
Cross - Sectional Area	(mm <sup>2</sup> ) :	153.39
Specimen Dimension (Diameter x Length)	(mm) :	14.00 x 400
Pin Diameter (3.5d)	(mm) :	49.00
Degree of Bending	:	180°

Bend Specimen No.	Method of Bend	Results	Remarks
Sample - 2	Guided Bend	No crack on the outside of the bend portion	SATISFACTORY

Tested By: Abdul Mannan

Verified By :

Mohd.Usman Khan  
 Supervisor  
 Met-Lab Department



Approved By :

Bernard T.Penuliar  
 Department Manager  
 Met-Lab Department

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## CHEMICAL ANALYSIS

**"TEST REPORT ON REBAR SAMPLE"**

Sample Identification : 14mmØ REBAR  
 Sampled by : Client  
 AHS Lab. Ref. No. : KHMAD183111 / 001  
 Material Specification : ASTM A615 Grade 60

**TEST METHOD REF.**

- ❖ Spectrometric analysis using AMETEK SPECTROMAXx Stationary spark OES Instrument.
- ❖ SOP/AHS/MA/047

**RESULTS**

Carbon (C)	%	=	0.26
Sulphur (S)	%	=	0.039
Phosphorous (P)	%	=	0.009
Manganese (Mn)	%	=	0.71
Silicon (Si)	%	=	0.43

LT = Less than the detection limit

**REMARKS:**

The above chemical analysis result of the rebar sample complies with the chemical requirement of ASTM A615 / A615M-09, Grade 60 material.

**NAEEM ZAIDI, M. Sc.**  
 Manager  
 Materials Analysis Dept.  
 For AL HOTY-STANGER LTD. CO.



**A. N. M. OMAR, M. Sc.**  
 Assistant Manager  
 Materials Analysis Dept.  
 For AL HOTY-STANGER LTD. CO.

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