



**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Chief Executive  
 KS & Associates  
 Setting Up of New Branch of MCB at Fruit Mandi Chakwal

Reference # CED/TFL **32538** (Dr. Qasim Khan)  
 Reference of the request letter # KSA/MCB-FM-CHKW/17/JN-40

Dated: 31-01-2019  
 Dated: 31-01-2019

**Tension Test Report** (Page -1/1)

Date of Test 01-02-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	3800	5300	76200	77500	106200	108100	1.20	15.0	
2	0.368	3	0.371	0.11	0.108	3900	5300	78200	79400	106200	107900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

- 1- You can See your reports On Internet in the following web site  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
 Material Engineer  
 ACE (Pvt) Ltd  
 Rahim Yar Khan  
 (Construction of Flyover at Abbasia Town Railway Crossing (Part-A : Bridge Portion Only)(Length 2300 Rft), District Rahim Yar Khan)  
 Reference # CED/TFL **32539** (Dr. Qasim Khan) Dated: 31-01-2019  
 Reference of the request letter # ACE/RVK/1447 Dated: 27-01-2019

**Tension Test Report** (Page -1/1)

Date of Test 01-02-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3/8	0.373	0.11	0.109	3900	5000	78200	78510	100200	100700	1.10	13.8	
2	0.371	3/8	0.373	0.11	0.109	3700	4900	74200	74760	98200	99100	1.00	12.5	
3	4.306	10/8	1.270	1.27	1.266	38200	57400	66300	66520	99700	100000	1.40	17.5	
4	4.232	10/8	1.258	1.27	1.244	37800	56600	65600	66980	98300	100300	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
<b>Bend Test</b>														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
10/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Infra Dev Works at Sector-R, Pkg-1 DHA Ph-IX)(M/s DHA-C Coy)

Reference # CED/TFL **32540** (Dr. Qasim Khan)  
Reference of the request letter # 408/241/E/Lab/434/3760

Dated: 31-01-2019  
Dated: 30-01-2019

**Tension Test Report** (Page -1/1)

Date of Test 01-02-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.366	3	0.370	0.11	0.108	3000	4600	60200	61460	92200	94300	1.30	16.3	Saeed Kasur
2	0.377	3	0.376	0.11	0.111	3000	4700	60200	59670	94200	93500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Izhar Concrate (Pvt) Ltd  
New Gardenb Town, Lahore  
(Kamalia Steel)

Reference # CED/TFL **32542** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 31-01-2019  
Dated: 31-01-2019

**Tension Test Report** (Page -1/2)

Date of Test 01-02-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.074	5/32	0.166	-----	0.022	650	920	-----	66170	-----	93700	0.40	5.0	
2	0.073	5/32	0.165	-----	0.021	700	1020	-----	72340	-----	105500	0.80	10.0	
3	0.069	5/32	0.161	-----	0.020	660	940	-----	71340	-----	101600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
Bend Test														
5/32" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Izhar Concrate (Pvt) Ltd  
New Gardenb Town, Lahore  
(Hamza Steel)

Reference # CED/TFL **32542** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 31-01-2019  
Dated: 31-01-2019

**Tension Test Report** (Page -2/2)

Date of Test 01-02-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.065	5/32	0.156	-----	0.019	400	600	-----	46390	-----	69600	0.40	5.0	
2	0.067	5/32	0.158	-----	0.020	550	820	-----	61700	-----	92000	0.50	6.3	
3	0.064	5/32	0.154	-----	0.019	650	920	-----	76690	-----	108600	0.20	2.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
Bend Test														
5/32" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Const of House No 105-L DHA Ph-VI)(M/s DHA-C Coy)

Reference # CED/TFL **32544** (Dr. Qasim Khan)  
Reference of the request letter # 408/241/E/Lab/433/69

Dated: 31-01-2019  
Dated: 30-01-2019

**Tension Test Report** (Page -1/1)

Date of Test 01-02-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	3	0.374	0.11	0.110	3300	5200	66200	66100	104200	104200	1.20	15.0	Saeed Kasur
2	0.373	3	0.374	0.11	0.110	3300	5100	66200	66370	102200	102600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 X.E.N Tamirat Committee  
 Anjuman Himayat-I-Islam  
 119 Multan Road, Lahore  
 “Construction of Residential Building at 86-D Gulberg AHI, Lahore”

Reference # CED/TFL **32545** (Dr. Qasim Khan)  
 Reference of the request letter # AHI/TM:675

Dated: 31-01-2019  
 Dated: 24-01-2019

**Tension Test Report** (Page -1/1)

Date of Test 01-02-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.367	3	0.371	0.11	0.108	3200	4600	64200	65410	92200	94100	1.20	15.0	
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<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/01/32541

Dated: 31-01-2019

To,  
M/S Nimbus Engineering Corporation (Pvt) Ltd  
New Garden Town, Lahore

Subject: - CALIBRATION OF DYNAMOMETER (MARK: TFL/01/32541)

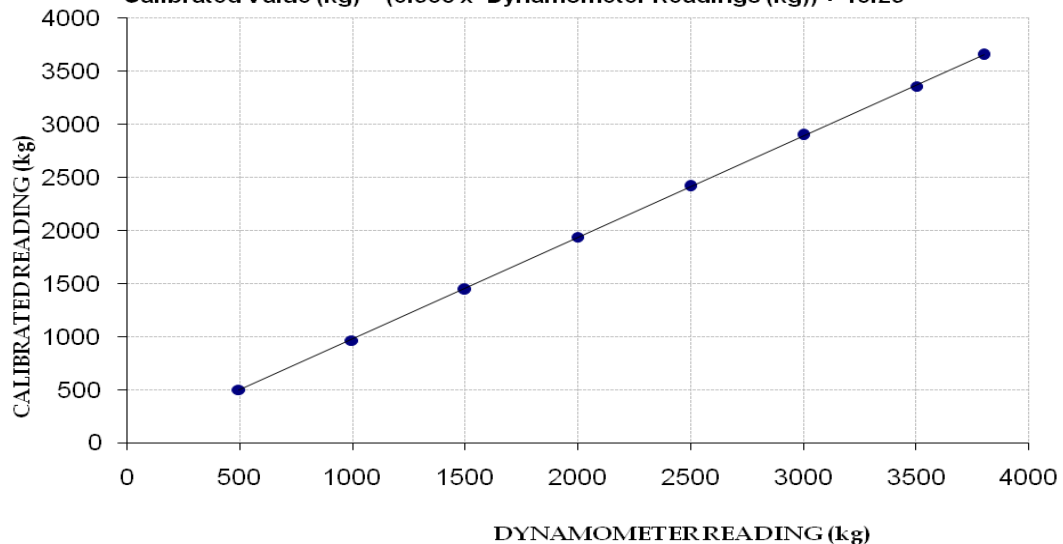
Ref: Your letter No. DGK-13/169, dated: 31/01/2019 on the subject cited above. One Dynamometer (Dillon, No. 3,277,705) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 2000 (kg)**  
**Calibrated Range : Zero - 1800 (kg)**

Dynamometer Readings (kg)		200	400						
Calibrated Readings	(kN)	4.92	9.47	14.17	19.02	23.72	28.45	32.95	35.87
	(kg)	502	965	1444	1939	2418	2900	3358	3656

### Calibration Curve for Dynamometer

$$\text{Calibrated Value (kg)} = (0.958 \times \text{Dynamometer Readings (kg)}) + 16.29$$



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