



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 Beybani Construction Co.
Islamabad
(FFC Mirpur Mathelo)

Reference # CED/TFL **33351** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 11-06-2019
Dated: 11-06-2019

Tension Test Report (Page -1/1)

Date of Test 19-06-2019
Gauge length 8 inches
Description Plain Steel Bar Tensile and Bend Test

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Reduction of Area (mm ²)	% Reduction of Area	Remarks
		Nominal (inch)	Actual (mm)	Nominal	Actual									
1	6.145	1-1/4	31.57	---	782.8	24800	38000	311	476	2.50	31.3	317.3	59.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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Islamabad
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Reference # CED/TFL **33351** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 11-06-2019
Dated: 11-06-2019

Tension Test Report (Page -2/2)

Date of Test 19-06-2019
Gauge length 8 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Reduction of Area	% Reduction of Area	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		(mm ²)		
1	1-3/4	30.50	730.617	24000	36200	322.25	486.06	2.00	25.00	340.77	53.36	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
-	-	-	-	-	-	-	-	-	-	-	-	
Bend Test												

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UET Lahore, Pakistan.

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To,
M/s Fairmay Investments
Gulberg III, Lahore

Reference # CED/TFL **33383** (Dr. Qasim Khan)
Reference of the request letter # ST/F.R/01

Dated: 14-06-2019
Dated: 14-06-2019

Tension Test Report (Page -1/1)

Date of Test 19-06-2019
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 ²)		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	4.296	10	1.268	1.27	1.263	42500	56000	73800	74190	97200	97800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
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Ref: CED/TFL/06/33394

Dated: 18-06-19

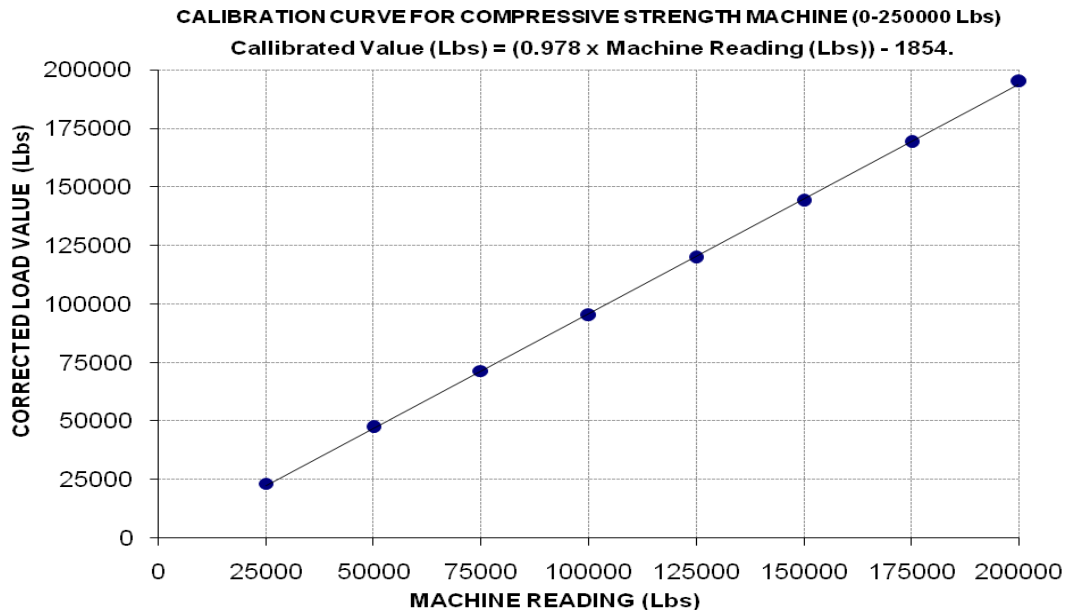
To
Project Manager
Netracon Technologies
NTDC Project - ADB-100 - Extension of 500 kV Sahiwal Grid Station, Yousafwala

Subject:- CALIBRATION OF COMPRESSION STRENGTH MACHINE OF 250000 lbs (MARK: CED/TFL/06/33394)

Reference to your letter No. NTT/SIE/UET/ADB-100/001, dated: 17/06/2019 on the subject cited above. One Compression Strength Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 250000 (lbs)
Calibrated Rang : Zero - 200000 (lbs)

Machine Reading	25000	50000	75000	100000	125000	150000	175000	200000
Corrected Load Value	23212	47460	71426	95180	119841	144063	169208	195007



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To,
 GM Engineering
 Cotton Web Limited
 Construction of Extension Building # 1

Reference # CED/TFL **33395** (Dr. Qasim Khan)
 Reference of the request letter # CW/Admin/10126

Dated: 18-06-2019
 Dated: 31-05-2019

Tension Test Report (Page -1/1)

Date of Test 19-06-2019
 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 ²)		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	4.273	10	1.265	1.27	1.256	37600	55400	65300	65990	96200	97300	1.60	20.0	
2	4.243	10	1.260	1.27	1.247	40600	54600	70500	71740	94800	96500	2.00	25.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for Bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Construction of Under Passes at Kashmir Bridge along Canal Faisalabad
 (Kisan Steel)

Reference # CED/TFL 33396 (Dr. Qasim Khan) Dated: 18-06-2019
 Reference of the request letter # 3994/103/AS/02/103 Dated: 17-06-2019

Tension Test Report (Page -1/1)

Date of Test 19-06-2019
 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 ²)		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	4.255	10	1.262	1.27	1.251	36400	52000	63200	64150	90300	91700	1.50	18.8	
2	4.137	10	1.244	1.27	1.216	38200	55400	66300	69240	96200	100500	1.20	15.0	
3	5.317	11	1.411	1.56	1.563	42600	68600	60200	60080	97000	96800	1.60	20.0	
4	5.293	11	1.407	1.56	1.556	42600	64000	60200	60360	90500	90700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and four samples for bend test

Bend Test

#10 Bar Bend Test Through 180° is Satisfactory

#10 Bar Bend Test Through 180° is Satisfactory

#11 Bar Bend Test Through 180° is Satisfactory

#11 Bar Bend Test Through 180° is Satisfactory

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To,
M/S Sui Northern Gas Pipelines Limited
Lahore
(Construction of Underground Water Tank and Pump Room at Regional Distribution Office
Gujranwala)

Reference # CED/TFL **33405, 406** (Dr. Asad Ali)
Reference of the request letter # CC/64/U.W/P.R/GUJ

Dated: 19-06-2019
Dated: 18-06-2019

Tension Test Report (Page -1/1)

Date of Test 19-06-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		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	0.374	3/8	0.374	0.11	0.110	5250	6290	105200	105240	126100	126100	0.80	10.0	
2	0.371	3/8	0.373	0.11	0.109	5060	6140	101400	102260	123100	124100	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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