



**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 SA-RA Group  
Lahore  
(Procurement of Plant, Design, Supply, Installation, Testing and Commission of 220 kV Double  
Circuit Transmission Line on Rail Conductor from D.I Khan to Zhob)(Approx. 220km)

Reference # CED/TFL **37853** (Dr. Usman Akmal)  
Reference of the request letter # MIG/2022/242

Dated: 08-01-2022  
Dated: 08-02-2022

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

Date of Test 10-02-2022  
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	0.363	3	0.369	0.11	0.107	3300	4900	66200	68160	98200	101200	1.30	16.3	Kamran Steel
2	0.365	3	0.369	0.11	0.107	3400	4900	68200	69890	98200	100800	1.30	16.3	
3	0.366	3	0.370	0.11	0.107	3300	4900	66200	67670	98200	100500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and three samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Sohaib Ali (Sub-Engineer NESPAK)

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

Note:

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[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



**STRUCTURAL ENGINEERING DIVISION**  
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**University of Engineering and Technology Lahore, 54890**  
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To,  
 M/S Defence Housing Authority.  
 Lahore Cantt  
 (Const of Entry Gate of Sector-4 DHA PhXI Rahbar) – (M/s Fauz Engineering Ltd)

Reference # CED/TFL **37855** (Dr. Usman Akmal)  
 Reference of the request letter # 408/241/32/Lab/38/1586

Dated: 09-02-2022  
 Dated: 04-02-2022

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

Date of Test 10-02-2022  
 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	0.376	3	0.375	0.11	0.111	3300	4600	66200	65740	92200	91700	1.40	17.5	FF Steel
2	0.375	3	0.375	0.11	0.110	3300	4600	66200	65940	92200	92000	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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**STRUCTURAL ENGINEERING DIVISION**  
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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 NESPAK  
 Construction of Road from Bahawalpur (N-5) Jhangra Sharqi Interchange (KLM) Length 42.00  
 km District Bahawpur

Reference # CED/TFL **37856** (Dr. Usman Akmal) Dated: 09-02-2022  
 Reference of the request letter # RE/SA-467(B)/MSA/BWP-JS/15 Dated: 04-02-2022

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

Date of Test 10-02-2022  
 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	0.418	3	0.396	0.11	0.123	3600	4900	72200	64550	98200	87900	1.00	12.5	FF Steel
2	4.258	10	1.262	1.27	1.252	38200	55000	66300	67280	95500	96900	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 Resident Engineer  
 ACES  
 Development of Sector – T & B-1DHA Multan

Reference # CED/TFL **37857** (Dr. Usman Akmal)

Dated: 09-02-2022

Reference of the request letter # RE/Sec-T & B1/Material/50

Dated: 01-02-2022

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

Date of Test 09-02-2022

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	0.377	3	0.376	0.11	0.111	3600	5000	72200	71610	100200	99500	1.10	13.8	FF Steel
2	0.380	3	0.377	0.11	0.112	3600	5000	72200	70990	100200	98600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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To,  
 Manager QC  
 Country Developers (Pvt) Ltd.  
 Step School Burewala

Reference # CED/TFL **37858** (Dr. Usman Akmal)  
 Reference of the request letter # CD-22-Testing/ST/BRW-001

Dated: 09-02-2022  
 Dated: 08-01-2022

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

Date of Test 10-02-2022  
 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	0.366	3	0.370	0.11	0.108	3700	4800	74200	75800	96200	98400	0.80	10.0	Afco Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sr. QS  
 Thaheem Construction Company  
 Arena Mall at Bahawalpur

Reference # CED/TFL **37860** (Dr. Usman Akmal)  
 Reference of the request letter # TCC/UET/344

Dated: 09-02-2022  
 Dated: 09-02-2022

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

Date of Test 10-02-2022  
 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	0.375	3/8	0.375	0.11	0.110	3400	4400	68200	67960	88200	88000	1.50	18.8	
2	0.372	3/8	0.373	0.11	0.109	3400	4400	68200	68450	88200	88600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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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,  
 Resident Engineer  
 City Survey & Engineering Consultants  
 Green View Executive Apartments Phase-V

Reference # CED/TFL **37861** (Dr. Usman Akmal)  
 Reference of the request letter # GVA/RE/003/21

Dated: 09-02-2022  
 Dated: 08-02-2022

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

Date of Test 10-02-2022  
 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	0.396	3/8	0.385	0.11	0.116	3700	4900	74200	70060	98200	92800	1.40	17.5	
2	0.388	3/8	0.381	0.11	0.114	3700	4800	74200	71530	96200	92800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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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,  
 Deputy Director  
 Lahore Development Authority  
 Construction of Flyover at Sheranwala, Lahore  
 Construction / Re-Location of Essa Butt Masjid

Reference # CED/TFL **37862** (Dr. Usman Akmal)  
 Reference of the request letter # DD/SF/LDA/105

Dated: 09-02-2022  
 Dated: 28-01-2022

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

Date of Test 09-02-2022  
 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	0.367	3	0.370	0.11	0.108	3600	5000	72200	73640	100200	102300	1.00	12.5	Model Steel
2	0.371	3	0.373	0.11	0.109	4200	5600	84200	84940	112300	113300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**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 MH Associates  
Lahore  
(SJ Steel)  
Reference # CED/TFL **37863** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 09-02-2022

Dated: 09-02-2022

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

Date of Test 10-02-2022  
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	0.385	3/8	0.380	0.11	0.113	3500	5400	70200	68170	108200	105200	1.00	12.5	
2	0.384	3/8	0.379	0.11	0.113	3500	5400	70200	68410	108200	105600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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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,  
GM  
Professional Construction Services (Pvt) Ltd.  
TCF Secondary School at Chak # 507 Burewala, Vehari

Reference # CED/TFL **37864** (Dr. Usman Akmal)  
Reference of the request letter # PCS/22/Emng-14

Dated: 09-02-2022  
Dated: 08-02-2022

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

Date of Test 10-02-2022  
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	0.374	3	0.374	0.11	0.110	3700	5200	74200	74130	104200	104200	0.80	10.0	
2	0.372	3	0.373	0.11	0.109	3700	4700	74200	74590	94200	94800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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**STRUCTURAL ENGINEERING DIVISION**  
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Ref: CED/TFL/12/37566  
Dated of Test: 10-02-2022

Dated: 21-12-2021

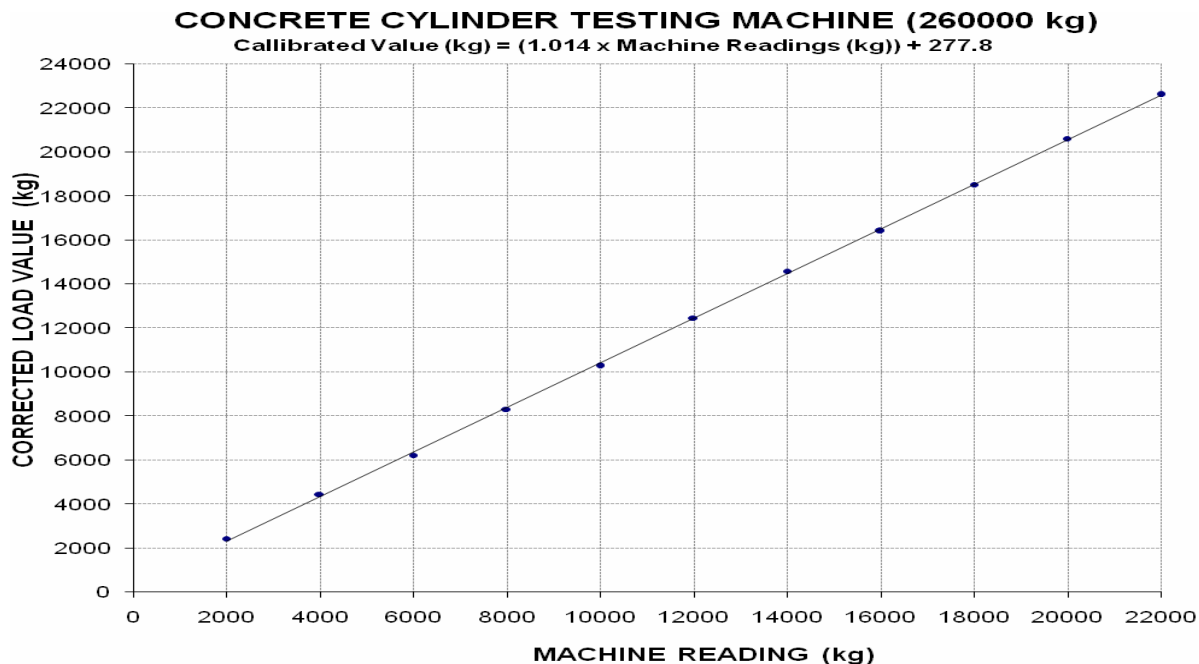
To  
**M/S Hiscon Engineers**  
**Lahore**

Subject:- **CALIBRATION OF CYLINDER TESTING MACHINE**  
**(MARK: CED/TFL/12/37566) (Page -1/2)**

Reference to your letter No. Nil, dated: 21/12/2021 on the subject cited above. One Concrete Cylinder Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 26000 (kg)  
Calibrated Range : Zero - 22000 (kg)

Machine Reading (kg)	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000
Corrected Load Value (kg)	2422	4449	6228	8304	10282	12457	14582	16411	18537	20613	22619



**I/C Testing Laboratoires**  
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**STRUCTURAL ENGINEERING DIVISION**  
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**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/12/37566  
Dated of Test: 10-02-2022

Dated: 21-12-2021

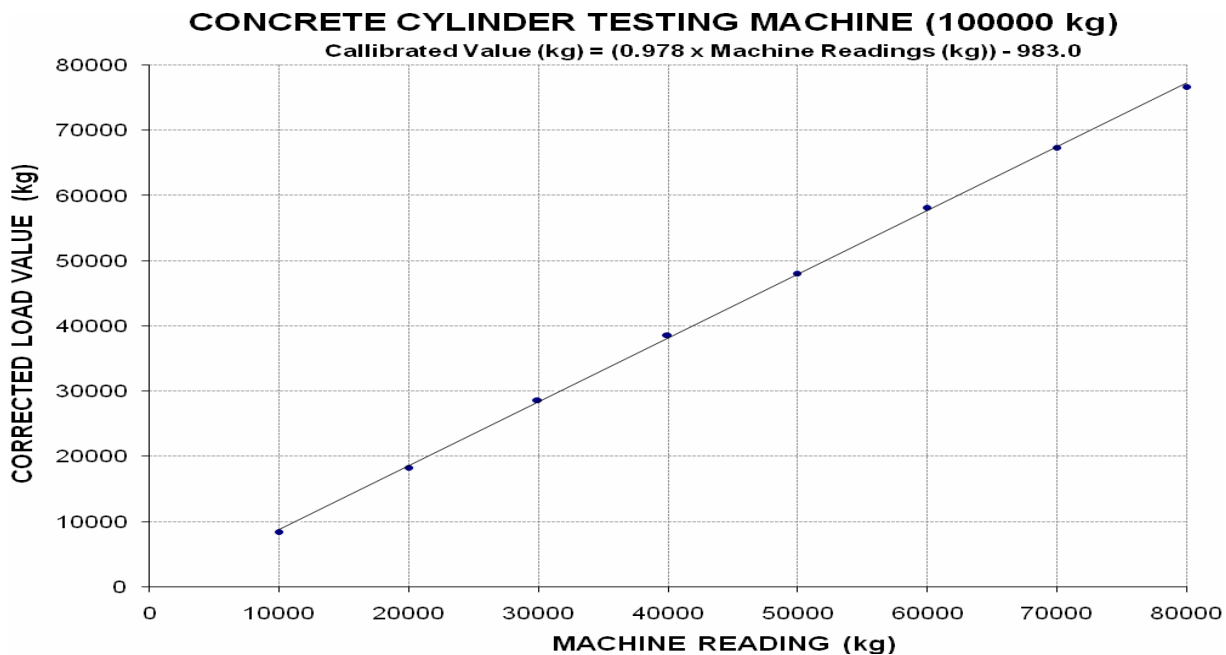
To  
M/S Hiscon Engineers  
Lahore

Subject:- CALIBRATION OF CYLINDER TESTING MACHINE  
(MARK: CED/TFL/12/37566) (Page -2/2)

Reference to your letter No. Nil, dated: 21/12/2021 on the subject cited above. One Concrete Cylinder Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 100000 (kg)  
Calibrated Range : Zero - 80000 (kg)

Machine Reading (kg)	10000	20000	30000	40000	50000	60000	70000	80000
Corrected Load Value (kg)	8453	18240	28621	38601	48092	58190	67389	76703



**I/C Testing Laboratories**  
**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



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

Ref: CED/TFL/12/37566  
Dated of Test: 10-02-2022

Dated: 21-12-2021

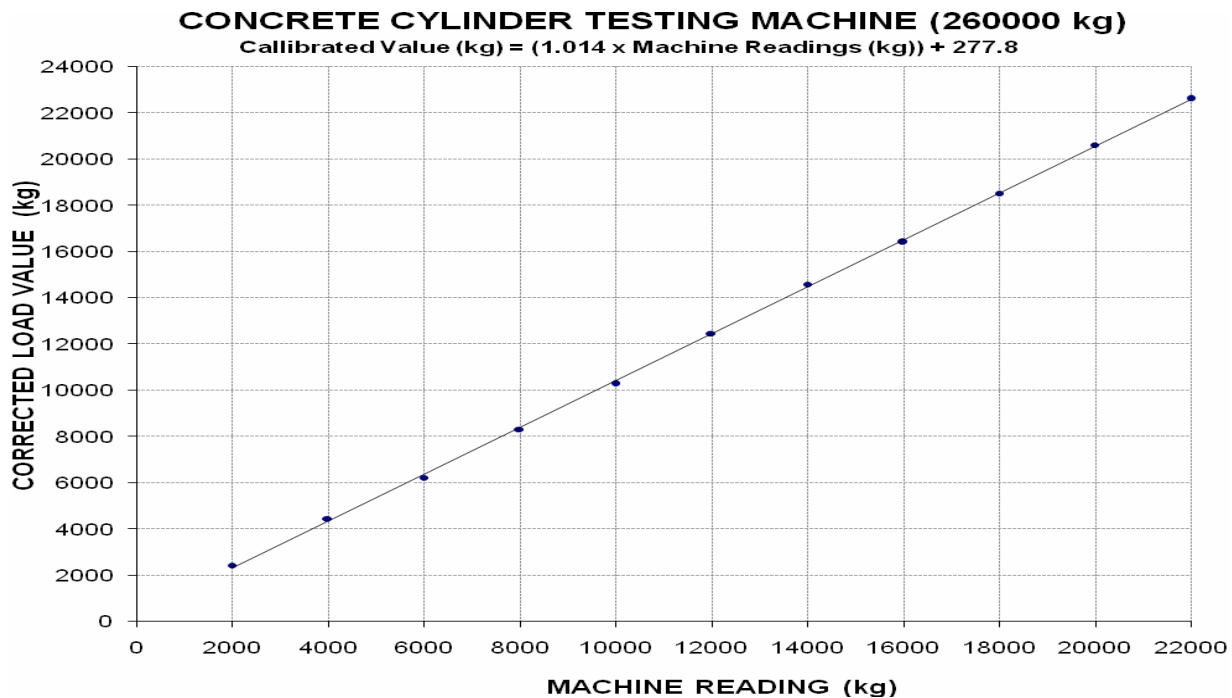
To  
**M/S Hiscon Engineers**  
**Lahore**

Subject:- **CALIBRATION OF CYLINDER TESTING MACHINE**  
**(MARK: CED/TFL/12/37566) (Page -1/2)**

Reference to your letter No. Nil, dated: 21/12/2021 on the subject cited above. One Concrete Cylinder Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

**Total Range : Zero - 26000 (kg)**  
**Calibrated Range : Zero - 22000 (kg)**

Machine Reading (kg)	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000
Corrected Load Value (kg)	2422	4449	6228	8304	10282	12457	14582	16411	18537	20613	22619



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

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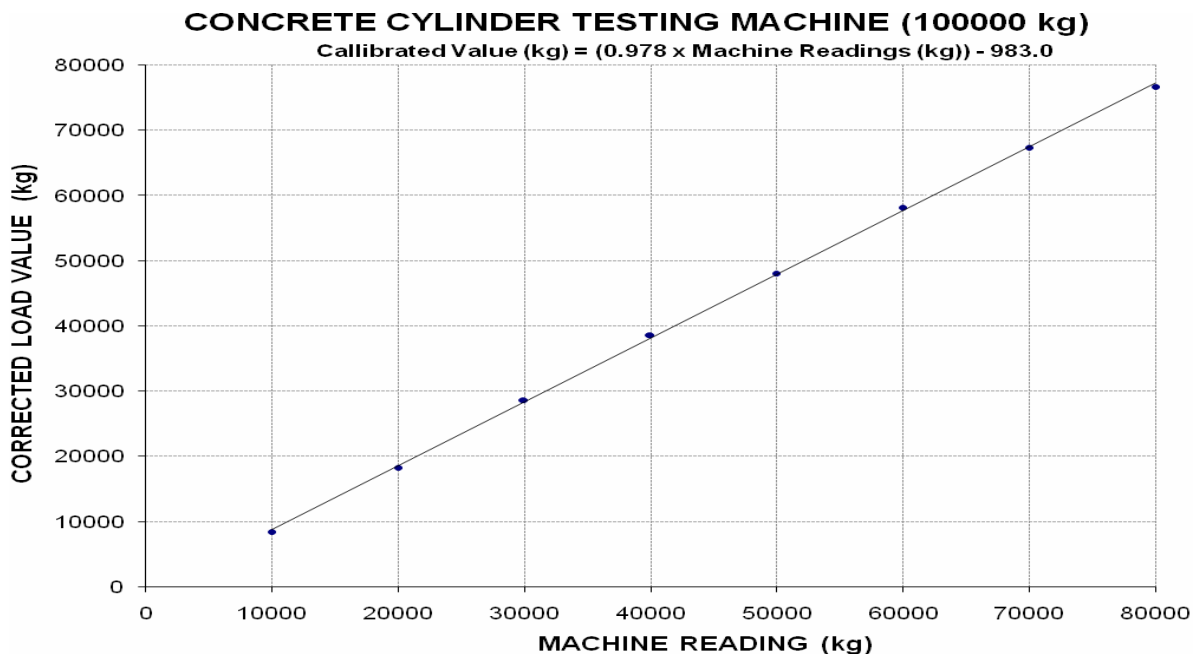
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Subject:- CALIBRATION OF CYLINDER TESTING MACHINE  
(MARK: CED/TFL/12/37566) (Page -2/2)

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