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
Umar Munshi Associates
Construction of Grade Separation Facility at Intersection of 7th Avenue with Khayaban-e-Suhrwardy & Sri Nagar Highway and Underpass along Khayaban-e-Suhrwardy, Islamabad

Reference # CED/TFL **37720** (Dr. Ali Ahmed) Dated: 18-01-2022
Reference of the request letter # RE/7th AV-IBD/2021/43 Dated: 17-01-2022

Tension Test Report (Page – 1/2)

Date of Test 26-01-2022
Gauge length 2 inches
Description Elastomeric Bearing Pad Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	**Bearing Pad**	**28.40x1.90**	**53.96**	**1900**	**2500**	**345**	**455**	**0.60**	**30.00**	
2		**28.40x2.00**	**56.80**	**1900**	**2500**	**328**	**432**	**0.60**	**30.00**	
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
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
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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

To,
Resident Engineer
Mascon Associates (Pvt) Ltd
HA Consulting
Punjab Model Bazar Sheikhupura Package A

Reference # CED/TFL **37741** (Dr. Ali Ahmed) Dated: 20-01-2022
Reference of the request letter # PMBA/22/003 Dated: 20-01-2022

Tension Test Report (Page – 1/2)

Date of Test 26-01-2022
Gauge length 2 inches
Description HR Sheet Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	HR Sheet	28.65x6.20	177.63	5200	8000	287	442	0.80	40.00	
2		28.25x6.00	169.50	5100	7900	295	457	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

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
Mascon Associates (Pvt) Ltd
HA Consulting
Punjab Model Bazar Sheikhupura Package A

Reference # CED/TFL **37741** (Dr. Ali Ahmed) Dated: 20-01-2022
Reference of the request letter # PMBA/22/003 Dated: 20-01-2022

Weight &Size Test Report (Page – 2/2)

Date of Test 26-01-2022
Description HR Sheet Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	-----	(g)	(mm)	(mm)	(kg/m^2)	(mm)	
1	**HR Sheet**	**1058**	**153.40**	**148.30**	**46.51**	**6.00**	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

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 Power Construction Corporation of China Ltd
Tarbela 5th Extension Hydropower Project

Reference # CED/TFL **37751** (Dr. Ali Ahmed) Dated: 21-01-2022
Reference of the request letter # PCCCL/T5HPP/T5C Dated: 20-01-2022

Tension Test Report (Page – 1/2)

Date of Test 26-01-2022
Gauge length 8 inches
Description Wire Mesh Tensile and Bend Test

Sr. No.	Weight	Diameter/ size		Area (mm^2)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	0.164	5	5.16	-------	20.9	960	1320	450	618	2.00	25.0	
2	0.165	5	5.17	-------	21.0	1080	1640	505	767	2.30	28.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for Bend test												
Bend Test												
Wire Taken from Wire Mesh Bend Test Through 180º 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 Power Construction Corporation of China Ltd
Tarbela 5th Extension Hydropower Project

Reference # CED/TFL **37751** (Dr. Ali Ahmed) Dated: 21-01-2022
Reference of the request letter # PCCCL/T5HPP/T5C Dated: 20-01-2022

Weld Test Report (Page – 2/2)

Date of Test 26-01-2022
Description Wire Mesh Weld Load Test

Sr. No	Wire Size (mm)	Remarks
1	**150x150**	**T- Section got bend and slippage occurred**
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
Note: only one sample for 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.
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

To,
Resident Engineer
Associated Consulting Engineers - ACE Ltd. Lahore
Jv Engineering General Consultants (Pvt) Ltd.
CPEC Project Western Route Hakla (M-1) to D.I Khan Motorway, Package –V Hakla to Pindi Gheb (km 0+000 to 62+767.422)

Reference # CED/TFL **37752** (Dr. Ai Ahmed) Dated: 21-01-2022
Reference of the request letter # RE/ACE/CPEC/P-V/22/1370 Dated: 17-01-2022

Tension Test Report (Page – 1/1)

Date of Test 26-01-2022
Gauge length -------
Description Fence Wire and Tension Wire Tensile Test

Sr. No.	Measure Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	**3.15**	**360**	**3.53**	**Fence Wire**
2	**3.15**	**680**	**6.67**	**Tension Wire**
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Two Samples for Test				

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
AZ Engineering Associates

1. Rehabilitation / Construction of Road from Lahore Road Chak 84/SBTO Minor Chak 29/SB Via Chak Hadda Chak 86/SB Link Chak 80/SBPull Length = 16.44 km in District Sargogha
2. Rehabilitation / Construction of Road Chak 29/NB to 37/NB via Chak 35/NB Chak 34/NB Link Chak 36/NB Bypass Link Chak No. 34/NB Bhawal Road Link Ajnala Length = 18.95 km in District Sargogha
3. Construction of Carpet Road from Chak 36 Pull to Ada Riazabad including Link Burali Kandiwal Road Link Villages Length 15.74 km in District Sargogha

Reference # CED/TFL **37760** (Dr. Ali Ahmed) Dated: 24-01-2022
Reference of the request letter # RE/AZEA/SGD/05 Dated: 17-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		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	0.395	3	0.385	0.11	0.116	3100	3600	62200	58800	72200	68300	1.60	20.0	
2	0.397	3	0.385	0.11	0.117	3000	3600	60200	56660	72200	68000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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,
Resident Engineer
ACES
Rumunza Golf Course, DHA Multan

Reference # CED/TFL **37762** (Dr. Ali Ahmed) Dated: 24-01-2022
Reference of the request letter # ACES-DHAM-CE-SLF-02 Dated: 21-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.382	10	9.60	0.12	0.112	3900	5000	71650	76560	91858	98200	0.80	10.0	Mughal Steel
2	0.377	10	9.55	0.12	0.111	3800	4900	69812	75510	90021	97400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

10mm Dia Bar Bend Test Through 180º 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,
Chairman
Eagle Developers
Dream Galleria, Dream Garden Lahore

Reference # CED/TFL **37764** (Dr. Ali Ahmed) Dated: 24-01-2022
Reference of the request letter # Nil Dated: 24-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		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	0.378	3	0.376	0.11	0.111	3200	5000	64200	63510	100200	99300	1.00	12.5	
2	0.379	3	0.377	0.11	0.111	3100	5000	62200	61340	100200	99000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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,
Construction Manager
Zameen Quadrangle
Construction of Zameen Quadrangle at Plot No. 49 Gulberg-V, Zafar Ali Road, Lahore

Reference # CED/TFL **37766** (Dr. Ali Ahmed) Dated: 24-01-2022
Reference of the request letter # ZD/ZQ/GSW/014 Dated: 24-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		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	0.388	3	0.381	0.11	0.114	3400	5300	68200	65770	106200	102600	1.20	15.0	SJ Steel
2	0.383	3	0.379	0.11	0.113	3400	5200	68200	66530	104200	101800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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 Baig Construction Co.
Lahore
(Atchison College Lab. Lahore)

Reference # CED/TFL **37767** (Dr. Ali Ahmed) Dated: 24-01-2022
Reference of the request letter # Nil Dated: 24-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3/8	0.374	0.11	0.110	3600	5100	72200	72240	102200	102400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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 Salman Developers
Lahore
(Grand Square Mall – Park House Appartment)

Reference # CED/TFL **37769** (Dr. Ali Ahmed) Dated: 24-01-2022
Reference of the request letter # Nil Dated: 24-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3/8	0.376	0.11	0.111	3200	4800	64200	63550	96200	95400	1.50	18.8	
2	0.380	3/8	0.377	0.11	0.112	3200	4800	64200	63210	96200	94900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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,
Muazzam Akram
Lahore

Reference # CED/TFL **37770** (Dr. Ali Ahmed) Dated: 24-01-2022
Reference of the request letter # Nil Dated: 24-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		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	0.369	3	0.372	0.11	0.108	3400	4900	68200	69090	98200	99600	1.30	16.3	Kamran
2	0.371	3	0.372	0.11	0.109	3800	5000	76200	76900	100200	101200	1.10	13.8	Mughal
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

#3 Bar Bend Test Through 180º 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,
Manager Projects
Infrastructure Development Authority of The Punjab
Establishment of 200 Bedded Mother & Child Hospital, Layyah (The Project)

Reference # CED/TFL **37771** (Dr. Waseem Abbass) Dated: 25-01-2022
Reference of the request letter # PD/MCH/Layyah/IDAP/2021/22 Dated: 18-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		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	0.390	3	0.382	0.11	0.115	3990	5150	80000	76750	103200	99100	0.90	11.3	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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

To,
Resident Engineer
Bahria Town Private Limited
Residence Alfalah Masjid Bahria Town Multan Road Lahore

Reference # CED/TFL **37772** (Dr. Waseem Abbass) Dated: 25-01-2022
Reference of the request letter # QA/QC-Steel-2465 Dated: 24-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		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	0.370	3	0.372	0.11	0.109	3380	4610	67800	68590	92400	93600	1.00	12.5	FF Steel
2	0.365	3	0.370	0.11	0.107	3520	4840	70600	72290	97000	99400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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,
Sub Divisional Officer
Public Health Engg: Sub Division - I
Mianwali
(Construction of PCC Slab Sewerage / DraingWandha Islamabad PACCA Ghanjera Wan Bhachran District Mianwali)
Reference # CED/TFL **37773** (Dr. Ali Ahmed) Dated: 25-01-2022
Reference of the request letter # 127/MI-I Dated: 10-11-2021

Tension Test Report (Page -1/3)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3/8	0.370	0.11	0.108	-----	5900	-----	-----	118300	121000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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,
Sub Divisional Officer
Public Health Engg: Sub Division - I
Mianwali
(Construction of PCC Slab / Drain / Sewerage Pakka Ghanjera District Mianwali)

Reference # CED/TFL **37773** (Dr. Ali Ahmed) Dated: 25-01-2022
Reference of the request letter # 131/MI-I Dated: 13-11-2021

Tension Test Report (Page -2/3)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.373	3/8	0.374	0.11	0.110	3500	5900	70200	70350	118300	118600	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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,
Sub Divisional Officer
Public Health Engg: Sub Division - I
Mianwali
(Provision of Sewerage Drainage Scheme for Lorry Adda Mianwali City)

Reference # CED/TFL **37773** (Dr. Ali Ahmed) Dated: 25-01-2022
Reference of the request letter # 22/MI-I Dated: 14-01-2022

Tension Test Report (Page -3/3)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3/8	0.374	0.11	0.110	-----	5900	-----	-----	118300	118200	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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,
Assistant Resident Engineer
Engineering Consultancy Services Punjab (Pvt) Ltd.
Installation of Surveillance Cameras and Traffic Management System and OSP Work at Entry & Exit Point of Lahore

Reference # CED/TFL **37774** (Dr. Ali Ahmed) Dated: 25-01-2022
Reference of the request letter # ECSP/PAPA/CZ-L1-2 Dated: 25-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		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	0.369	3	0.372	0.11	0.109	3800	5100	76200	77190	102200	103600	0.90	11.3	Mughal Steel
2	0.370	3	0.372	0.11	0.109	4100	5200	82200	82980	104200	105300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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 Al Fazal Engineering Pakistan
Lahore
(Grid Solution Pakistan (Pvt) Ltd)(Aisha Steel Mills)

Reference # CED/TFL **37776** (Engr. Amina Rajput) Dated: 26-01-2022
Reference of the request letter # ALF-22-01-0006 Dated: 12-01-2022

Tension Test Report (Page – 1/3)

Date of Test 18-01-2022
Gauge length 2 inches
Description Angle Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	**90x90x6**	**20.00x6.10**	**122.00**	**4500**	**6700**	**362**	**539**	**0.50**	**25.00**	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

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 Al Fazal Engineering Pakistan
Lahore
(Grid Solution Pakistan (Pvt) Ltd)(Aisha Steel Mills)

Reference # CED/TFL **37776** (Engr. Amina Rajput) Dated: 26-01-2022
Reference of the request letter # ALF-22-01-0005 Dated: 12-01-2022

Tension Test Report (Page – 2/3)

Date of Test 18-01-2022
Gauge length 2 inches
Description Angle Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	**40x40x4**	**15.15x5.00**	**75.75**	**2700**	**4300**	**350**	**557**	**0.60**	**30.00**	
-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

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 Al Fazal Engineering Pakistan
Lahore
(Grid Solution Pakistan (Pvt) Ltd)(Aisha Steel Mills)

Reference # CED/TFL **37776** (Engr. Amina Rajput) Dated: 26-01-2022
Reference of the request letter # ALF-22-01-0006 Dated: 12-01-2022

Tension Test Report (Page – 3/3)

Date of Test 18-01-2022
Gauge length 2 inches
Description Angle Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	**60x60x6**	**20.95x6.25**	**130.94**	**5200**	**8700**	**390**	**652**	**0.50**	**25.00**	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

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
Associated Consulting Engineers ACE Limited
Secretariat Office Building Multan & Allied Work

Reference # CED/TFL **37777** (Engr. Amina Rajput) Dated: 26-01-2022
Reference of the request letter # ACE/RE/CSM/2021/0025 Dated: 25-01-2022

Tension Test Report (Page -1/1)

Date of Test 26-01-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		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	0.374	3	0.374	0.11	0.110	4100	5100	82200	82160	102200	102200	1.30	16.3	Union Steel
2	0.374	3	0.374	0.11	0.110	4000	5100	80200	80290	102200	102400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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

Ref: CED/TFL/01/37779 Dated: 26-01-2022

Dated of Test: 26-01-2022

To
Engineer's Representative
NESPAK
Construction of Additional Block at Pakistan Engineering Council (PEC) Headquarters, G-5/2, Islamanbad

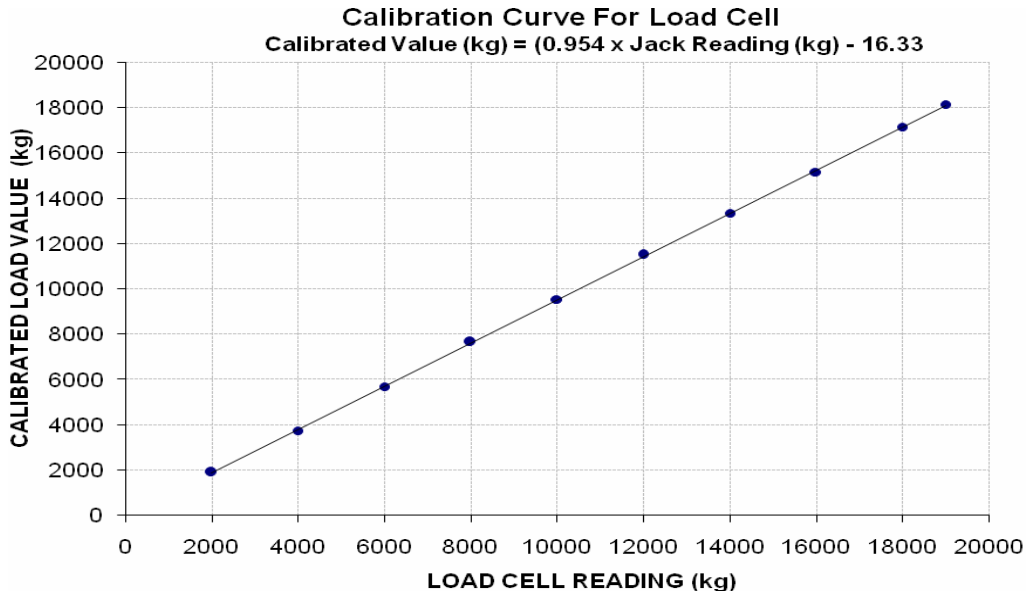
Subject: **- CALIBRATION OF LOAD CELL (MARK: TFL/01/37779)** (Page -1/1)

Reference to your Letter No. 4125/321/NS/03/318, Dated: 24/01/2022 on the subject cited above. One Load Cell as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 20000 (kg)
Calibrated Range : Zero - 19000 (kg)

Load Cell Reading (kg)	2000	4000	6000	8000	10000	12000	14000	16000	18000	19000
Calibrated Load (kg)	1900	3750	5700	7650	9550	11500	13350	15150	17150	18150

Witness by Mudassar Zafar (Sr. Engr. NESPAK)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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3- Sealed sample / Unsealed sample / Marked sample/Signed Samples