



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

To,

Chief Resident Engineer
 Zeeruk International (Pvt) Ltd
 Construction of Sialkot Kharian Motorway Project – SKM.

Reference # CED/TFL **3842** (Dr. Usman Akmal)
 Reference of the request letter # SKMP/CRE/2023/0163

Dated: 01-09-2023
 Dated: 18-08-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	4.165	32	31.71	1.25	1.224	37800	54200	66667	68050	95591	97600	1.60	18.8	Mughal Steel
2	4.152	32	31.66	1.25	1.221	38000	54400	67020	68620	95944	98300	1.70	19.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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/09/3844

Dated: 01-09-2023

Dated of Test: 07-09-2023

To

Project Manager
AJK Engineering (Pvt) Ltd
Construction of Capital Tower, Plot No 59,F-6/G-6. Blue Area, Islamabad

Subject: - TESTING OF WALLER BEAM (DOUBLE) C-CHANNEL (Pile Anchorage) ASSEMBLY FOR LOAD.

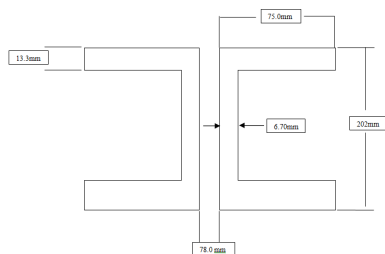
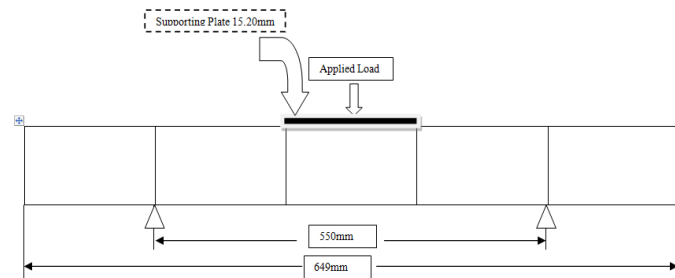
Reference to your letter no. AJK/UET/2023/09/001, dated: 01/09/2023 on the above mentioned subject. One Waller Beam (Double) C-Channel Assembly for load test as received by us has been tested and results are given below:

Sr. No.	Load Applied	Remarks
1	35 Ton (35000 kg)	(i) No visible deflection was observed at applied load of 35 tons for a span length of 550 mm.

Span length $L = 550 \text{ mm}$

Applied load = 35 ton

Applied Moment = $PL/4 = 47.95 \text{ kN-m}$



I/C Testing Laboratories
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,
Project Manager
Imperium Developers
Construction of Sixty6 at Gulberg-III, Lahore

Reference # CED/TFL **3850** (Dr. Ali Ahmed)
Reference of the request letter # IMP/66/04/85

Dated: 04-09-2023
Dated: 04-09-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
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	0.375	3	0.375	0.11	0.110	3300	5300	66200	65910	106200	105900	1.10	13.8	
2	0.372	3	0.373	0.11	0.109	3300	5300	66200	66460	106200	106800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M Husnain Imran (Site Engr. Imperium Developers)

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,

Sub Divisional Officer
 Highway Sub Division
 Sheikhpura
 (Construction of Underpass at Katchehri Rasool Naghar Road Railway crossing City,
 Sheikhpura.)

Reference # CED/TFL **3862** (Dr. Usman Akmal)
 Reference of the request letter # 1075/SKP

Dated: 05-09-2023
 Dated: 05-08-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
 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	0.380	3	0.377	0.11	0.112	3440	5000	69000	67880	100200	98700	1.00	12.5	Moiz Steel
2	0.379	3	0.377	0.11	0.111	3410	4940	68400	67420	99000	97700	0.80	10.0	
3	4.204	10	1.254	1.27	1.236	40000	53600	69500	71350	93100	95600	1.70	21.3	
4	4.304	10	1.269	1.27	1.265	40400	54000	70200	70390	93800	94100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
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
Pakistan. Ph: 92-42-99029202

To,

Sub Divisional Officer
Buildings Sub Division No. 02
Multan
(Construction of New Administration Block Lahore High Court Multan Bench Multan
(Group No. 1)

Reference # CED/TFL **3863** (Dr. Usman Akmal)
Reference of the request letter # IMP/66/04/85

Dated: 05-09-2023
Dated: 23-08-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
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	0.383	3	0.379	0.11	0.113	3920	5150	78600	76700	103200	100800	0.90	11.3	
2	0.383	3	0.379	0.11	0.113	3790	4940	76000	74240	99000	96800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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

To,

Sr. Manager Projects
 Izhar Construction (Pvt) Ltd
 Construction of Mixes-Used Commercial DB-32 at DHA Phase III, Lahore

Reference # CED/TFL **3864** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 05-09-2023
 Dated: 05-09-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
 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	0.403	3	0.388	0.11	0.119	3870	5660	77600	71960	113500	105300	1.10	13.8	Aziz Steel
2	0.403	3	0.388	0.11	0.118	3890	5730	78000	72450	114900	106800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
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,
 Director Projects
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3865** (Dr. Asif Hameed)
 Reference of the request letter # Nil

Dated: 05-09-2023
 Dated: 30-08-2023

Tension Test Report (Page -1/2)

Date of Test 07-09-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.366	3	0.370	0.11	0.108	3430	4740	68800	70250	95000	97100	1.00	12.5	073-S
2	0.368	3	0.371	0.11	0.108	3430	4790	68800	69950	96000	97700	1.30	16.3	074-S
3	0.366	3	0.370	0.11	0.107	3310	4910	66400	67890	98400	100700	1.20	15.0	075-S
4	0.380	3	0.377	0.11	0.112	3570	4890	71600	70460	98000	96600	1.20	15.0	076-S
5	0.366	3	0.370	0.11	0.108	3490	4790	70000	71520	96000	98200	1.20	15.0	077-S
6	0.376	3	0.375	0.11	0.111	3540	4880	71000	70550	97800	97300	1.20	15.0	078-S
7	0.370	3	0.372	0.11	0.109	3470	4790	69600	70280	96000	97100	1.30	16.3	079-S
8	0.373	3	0.374	0.11	0.110	3590	4760	72000	72110	95400	95700	1.30	16.3	080-S
9	0.378	3	0.376	0.11	0.111	3380	4780	67800	67130	95800	95000	1.30	16.3	081-S
10	0.373	3	0.374	0.11	0.110	3380	4660	67800	67920	93400	93700	1.40	17.5	082-S
Note: only ten samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,

Director Projects
Sheikhoo Sugar Mills (Steel Division)
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3865** (Dr. Asif Hameed)
Reference of the request letter # Nil

Dated: 05-09-2023
Dated: 30-08-2023

Tension Test Report (Page -2/2)

Date of Test 07-09-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.375	3	0.375	0.11	0.110	3410	4760	68400	68110	95400	95100	1.30	16.3	083-S
2	0.372	3	0.373	0.11	0.109	3520	4810	70600	70890	96400	96900	1.30	16.3	084-S
3	0.374	3	0.374	0.11	0.110	3540	4840	71000	70900	97000	97000	1.30	16.3	085-S
4	0.374	3	0.374	0.11	0.110	3520	4890	70600	70570	98000	98100	1.20	15.0	086-S
5	0.375	3	0.375	0.11	0.110	3670	4790	73600	73360	96000	95800	1.30	16.3	087-S
6	0.374	3	0.374	0.11	0.110	3740	4790	75000	74900	96000	96000	1.20	15.0	088-S
7	0.375	3	0.375	0.11	0.110	3740	4810	75000	74780	96400	96200	1.20	15.0	089-S
8	0.371	3	0.372	0.11	0.109	3590	4690	72000	72660	94000	95000	1.10	13.8	090-S
9	0.371	3	0.373	0.11	0.109	3620	4890	72600	73100	98000	98800	1.20	15.0	09-S
10	0.370	3	0.372	0.11	0.109	3590	4860	72000	72730	97400	98500	1.20	15.0	092-S

Note: only ten samples for tensile test

Bend Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Director Projects
Sheikhoo Sugar Mills (Steel Division)
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3866** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 05-09-2023

Dated: 03-09-2023

Tension Test Report (Page -1/4)

Date of Test 07-09-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3	0.373	0.11	0.109	3490	4810	70000	70290	96400	96900	1.20	15.0	116-S
2	0.372	3	0.373	0.11	0.109	3590	4840	72000	72400	97000	97600	1.30	16.3	117-S
3	0.370	3	0.372	0.11	0.109	3570	4810	71600	72350	96400	97500	1.30	16.3	118-S
4	0.369	3	0.371	0.11	0.108	3490	4840	70000	70980	97000	98500	1.10	13.8	119-S
5	0.374	3	0.374	0.11	0.110	3590	4890	72000	71920	98000	98000	1.10	13.8	120-S
6	0.373	3	0.374	0.11	0.110	3520	4840	70600	70770	97000	97400	1.30	16.3	121-S
7	0.374	3	0.374	0.11	0.110	3590	4840	72000	71900	97000	97000	1.30	16.3	122-S
8	0.367	3	0.371	0.11	0.108	3490	4840	70000	71270	97000	98900	1.30	16.3	123-S
9	0.367	3	0.371	0.11	0.108	3470	4840	69600	70900	97000	98900	1.40	17.5	124-S
10	0.366	3	0.370	0.11	0.108	3520	4840	70600	72040	97000	99100	1.30	16.3	125-S
11	0.370	3	0.372	0.11	0.109	3300	4700	66200	66920	94200	95400	1.40	17.5	126-S
12	0.367	3	0.371	0.11	0.108	3300	4700	66200	67370	94200	96000	1.70	21.3	127-S
13	0.368	3	0.371	0.11	0.108	3400	4800	68200	69320	96200	97900	1.20	15.0	128-S

Note: only thirteen samples for tensile test

Bend Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Director Projects
Sheikhoo Sugar Mills (Steel Division)
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3866** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 05-09-2023

Dated: 03-09-2023

Tension Test Report (Page -2/4)

Date of Test 07-09-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	3400	4800	68200	69340	96200	97900	1.30	16.3	129-S
2	0.368	3	0.371	0.11	0.108	3300	4800	66200	67210	96200	97800	1.30	16.3	130-S
3	0.372	3	0.373	0.11	0.109	3300	4900	66200	66570	98200	98900	1.40	17.5	131-S
4	0.370	3	0.372	0.11	0.109	3600	4800	72200	73060	96200	97500	1.40	17.5	132-S
5	0.370	3	0.372	0.11	0.109	3400	4800	68200	68900	96200	97300	1.50	18.8	133-S
6	0.370	3	0.372	0.11	0.109	3600	4800	72200	72960	96200	97300	1.50	18.8	134-S
7	0.371	3	0.373	0.11	0.109	3400	4800	68200	68630	96200	96900	1.40	17.5	135-S
8	0.370	3	0.372	0.11	0.109	3500	4700	70200	71000	94200	95400	1.40	17.5	136-S
9	0.369	3	0.372	0.11	0.109	3400	4700	68200	69040	94200	95500	1.30	16.3	137-S
10	0.370	3	0.372	0.11	0.109	3400	4700	68200	68880	94200	95300	1.40	17.5	138-S
11	0.368	3	0.371	0.11	0.108	3300	4700	66200	67310	94200	95900	1.40	17.5	139-S
12	0.370	3	0.372	0.11	0.109	3400	4800	68200	68980	96200	97400	1.20	15.0	140-S
13	3.678	3	1.173	0.11	1.081	3500	4800	70200	7140	96200	9800	1.20	15.0	141-S

Note: only thirteen samples for tensile test

Bend Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Director Projects
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3866** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 05-09-2023

Dated: 03-09-2023

Tension Test Report (Page -3/4)

Date of Test 07-09-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.365	3	0.370	0.11	0.107	3300	4700	66200	67800	94200	96600	1.40	17.5	142-S
2	0.371	3	0.373	0.11	0.109	3400	4800	68200	68700	96200	97000	1.30	16.3	143-S
3	0.371	3	0.373	0.11	0.109	3300	4800	66200	66680	96200	97000	1.50	18.8	144-S
4	0.373	3	0.374	0.11	0.110	3600	4900	72200	72340	98200	98500	1.20	15.0	145-S
5	0.373	3	0.374	0.11	0.110	3600	5000	72200	72340	100200	100500	1.30	16.3	146-S
6	0.372	3	0.373	0.11	0.109	3400	4800	68200	68570	96200	96800	1.40	17.5	147-S
7	0.372	3	0.373	0.11	0.109	3500	4800	70200	70510	96200	96700	1.50	18.8	148-S
8	0.372	3	0.373	0.11	0.109	3500	4800	70200	70630	96200	96900	1.40	17.5	149-S
9	0.371	3	0.372	0.11	0.109	3500	4900	70200	70790	98200	99200	1.50	18.8	150-S
10	0.372	3	0.373	0.11	0.109	3400	4900	68200	68480	98200	98700	1.40	17.5	151-S
11	0.370	3	0.372	0.11	0.109	3500	4900	70200	70910	98200	99300	1.00	12.5	152-S
12	0.373	3	0.374	0.11	0.110	3400	4900	68200	68320	98200	98500	1.40	17.5	153-S
13	0.370	3	0.372	0.11	0.109	3300	4800	66200	66880	96200	97300	1.50	18.8	154-S

Note: only thirteen 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
- 2- The above results pertain to sample /samples supplied to this laboratory.
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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,
 Director Projects
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3866** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 05-09-2023
 Dated: 03-09-2023

Tension Test Report (Page -4/4)

Date of Test 07-09-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3	0.373	0.11	0.109	3400	4800	68200	68540	96200	96800	1.20	15.0	155-S
2	0.372	3	0.373	0.11	0.109	3300	4800	66200	66550	96200	96800	1.30	16.3	156-S
3	0.380	3	0.377	0.11	0.112	3500	4900	70200	69080	98200	96800	1.50	18.8	157-S
4	0.376	3	0.375	0.11	0.110	3500	4900	70200	69870	98200	97900	1.50	18.8	158-S
5	0.373	3	0.373	0.11	0.110	3300	4800	66200	66420	96200	96600	1.30	16.3	159-S
6	0.381	3	0.378	0.11	0.112	3500	4900	70200	68800	98200	96400	1.50	18.8	160-S
7	0.379	3	0.377	0.11	0.111	3500	4900	70200	69190	98200	96900	1.40	17.5	161-S
8	0.371	3	0.373	0.11	0.109	3500	4800	70200	70680	96200	97000	1.60	20.0	162-S
9	0.366	3	0.370	0.11	0.107	3500	5000	70200	71770	100200	102600	1.40	17.5	163-S
10	0.365	3	0.369	0.11	0.107	3400	4900	68200	69890	98200	100800	1.40	17.5	164-S
11	0.366	3	0.370	0.11	0.108	3500	4900	70200	71670	98200	100400	1.20	15.0	165-S
12	0.367	3	0.371	0.11	0.108	3400	4900	68200	69510	98200	100200	1.30	16.3	166-S

Note: only twelve 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
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,
Director Projects
Sheikhoo Sugar Mills (Steel Division)
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3867** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 05-09-2023
Dated: 31-08-2023

Tension Test Report (Page -1/2)

Date of Test 07-09-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3	0.373	0.11	0.109	3690	5050	74000	74540	101200	102100	1.00	12.5	093-S
2	0.371	3	0.373	0.11	0.109	3310	4590	66400	66900	92000	92800	1.20	15.0	094-S
3	0.373	3	0.374	0.11	0.110	3410	4710	68400	68520	94400	94700	1.30	16.3	095-S
4	0.371	3	0.372	0.11	0.109	3470	4740	69600	70210	95000	95900	1.10	13.8	096-S
5	0.372	3	0.373	0.11	0.109	3330	4640	66800	67180	93000	93600	1.20	15.0	097-S
6	0.372	3	0.373	0.11	0.109	3570	4810	71600	71990	96400	97000	1.10	13.8	098-S
7	0.371	3	0.373	0.11	0.109	3430	4740	68800	69330	95000	95800	1.20	15.0	099-S
8	0.377	3	0.376	0.11	0.111	3410	4660	68400	67830	93400	92700	1.30	16.3	100-S
9	0.374	3	0.374	0.11	0.110	3360	4660	67400	67290	93400	93400	1.40	17.5	101-S
10	0.374	3	0.374	0.11	0.110	3570	4940	71600	71500	99000	99000	1.00	12.5	102-S
Note: only ten 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
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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,
 Director Projects
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3867** (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 05-09-2023
 Dated: 31-08-2023

Tension Test Report (Page -2/2)

Date of Test 07-09-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3	0.373	0.11	0.109	3410	4640	68400	68810	93000	93700	1.30	16.3	103-S
2	0.371	3	0.373	0.11	0.109	3570	4790	71600	72140	96000	96800	1.00	12.5	104-S
3	0.373	3	0.374	0.11	0.110	3430	4740	68800	68900	95000	95300	1.30	16.3	105-S
4	0.369	3	0.372	0.11	0.109	3590	4810	72000	72900	96400	97700	1.10	13.8	106-S
5	0.373	3	0.374	0.11	0.110	3820	4790	76600	76780	96000	96300	1.20	15.0	107-S
6	0.375	3	0.375	0.11	0.110	3470	4790	69600	69340	96000	95800	1.30	16.3	108-S
7	0.371	3	0.373	0.11	0.109	3570	4790	71600	72110	96000	96800	1.30	16.3	109-S
8	0.374	3	0.374	0.11	0.110	3420	4740	68600	68490	95000	95000	1.40	17.5	110-S
9	0.364	3	0.369	0.11	0.107	3360	4660	67400	69240	93400	96100	1.20	15.0	111-S
10	0.371	3	0.373	0.11	0.109	3570	4850	71600	72140	97200	98000	1.10	13.8	112-S

Note: only ten 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
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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,

M/S Speed Construction Management
Lahore
(Construction of KIPS School Building at Plot No. 116B Campus View Town Lahore.)

Reference # CED/TFL **3869** (Dr. Usman Akmal)
Reference of the request letter # SCM-CVP-15A-23

Dated: 05-09-2023
Dated: 04-09-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
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	0.361	3	0.368	0.11	0.106	3590	5150	72000	74540	103200	107000	1.00	12.5	
2	0.361	3	0.368	0.11	0.106	3720	5300	74600	77230	106200	110100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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
 NESPAK
 Lahore Ring Road Southern Loop (L-3) Project

Reference # CED/TFL **3870** (Dr. Usman Akmal)
 Reference of the request letter # Nespak/LRRA/MNA/SL-3/004

Dated: 05-09-2023
 Dated: 04-09-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
 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	4.187	10	1.252	1.27	1.231	39000	52800	67700	69840	91700	94600	1.60	20.0	Mughal Steel
2	4.178	10	1.250	1.27	1.228	38800	52800	67400	69650	91700	94800	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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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,

Construction Manager
Guarantee Engineers (Pvt) Ltd.
“Constructing Kasuri Residence 49-Tufal Road Cantt Lahore.”

Reference # CED/TFL **3871** (Dr. Usman Akmal)
Reference of the request letter # KKH/GF/002

Dated: 05-09-2023
Dated: 05-09-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.384	9.5	9.63	0.110	0.113	3520	5120	70600	68790	102600	100100	1.10	13.8	
2	0.392	9.5	9.73	0.110	0.115	3620	5270	72600	69160	105600	100700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
9.5mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,

Sub Divisional Officer
 Building Sub Division No. 15
 Lahore
 (Construction of New Courts Block at The Site of Existing Old Admin Block at Lahore High Court, Lahore.)

Reference # CED/TFL **3872** (Dr. Usman Akmal)
 Reference of the request letter # 3660

Dated: 05-09-2023
 Dated: 02-09-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
 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	0.368	3	0.371	0.11	0.108	3410	4910	68400	69410	98400	100000	1.10	13.8	
2	0.371	3	0.372	0.11	0.109	3430	4940	68800	69420	99000	100000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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

Deputy Team Leader / Resident Engineer
 Techno-Consult International (Pvt) Ltd.
 Construction of Water Supply And Sewerage System in Kallar Kahar.
 (M/s Tayyab Manzoor Tarar Pvt Ltd.)

Reference # CED/TFL **3874** (Dr.Usman Akmal)

Dated: 05-09-2023

Reference of the request letter # TCI/PRSWSSP-North/Phase 1/025

Dated: 17-08-2023

Tension Test Report (Page -1/2)

Date of Test

07-09-2023

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	0.376	3	0.375	0.11	0.110	3470	5120	69600	69240	102600	102200	1.10	13.8	AK Supreme
2	0.378	3	0.376	0.11	0.111	3520	5120	70600	69750	102600	101500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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 Team Leader / Resident Engineer
 Techno-Consult International (Pvt) Ltd.
 Construction of Water Supply And Sewerage System in KOt Momin.
 (M/s Tayyab Manzoor Tarar Pvt Ltd.)

Reference # CED/TFL **3874** (Dr.Usman Akmal)

Dated: 05-09-2023

Reference of the request letter # TCI/PRSWSSP-North/Phase 1/025

Dated: 17-08-2023

Tension Test Report (Page -2/2)

Date of Test

07-09-2023

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	0.376	3	0.375	0.11	0.110	3490	5120	70000	69650	102600	102200	1.00	12.5	AK Supreme
2	0.375	3	0.374	0.11	0.110	3490	5100	70000	69870	102200	102100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Assistant Director (QCD)
 WASA, LDA, Lahore
 (M/s Bismillah RCC Pipe Factory).

Reference # CED/TFL **3875** (Dr. M Kashif)
 Reference of the request letter # QCD/1461-62

Dated: 05-09-2023
 Dated: 04-09-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

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	0.081	5/32	0.174	-----	0.024	-----	720	-----	-----	-----	66800	0.70	8.8	
2	0.085	5/32	0.179	-----	0.025	720	1000	-----	63330	-----	88000	0.30	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
5/32" Dia Bar Bend Test Through 180° is Satisfactory														

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
- 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

Umair Latif,
 Development Engineer,
 University of the Punjab, Lahore.
 “Construction of Law College Graduate Block (Phase-I) at University Law College at
 Q.A.C, University of the Punjab, Lahore.

Reference # CED/TFL **3880** (Dr. Ali Ahmed)
 Reference of the request letter # D-3357-DE

Dated: 06-09-2023
 Dated: 05-09-2023

Tension Test Report (Page -1/1)

Date of Test 06-09-2023
 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	0.379	3	0.377	0.11	0.111	4000	4700	80200	79110	94200	93000	1.00	12.5	
2	0.379	3	0.377	0.11	0.111	4000	4700	80200	79110	94200	93000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,

Project Manager
United Lifestyle (Private) Limitd.
High-Rise Building “Skyscrapers United” at Johar Town Lahore

Reference # CED/TFL **3883** (Dr. M Kashif)
Reference of the request letter # ULS/2021-22-23/0042

Dated: 07-09-2023
Dated: 07-09-2023

Tension Test Report (Page -1/1)

Date of Test 07-09-2023
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	0.485	3	0.426	0.11	0.142	4300	6300	86200	66530	126300	97500	1.30	16.3	
2	0.495	3	0.430	0.11	0.146	4600	6700	92200	69680	134300	101500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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