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 Qadri Steel International
Lahore

Reference # CED/TFL **3540** (Dr. Ali Ahmed) Dated: 26-06-2023
Reference of the request letter # QSI/UET/23/70 Dated: 26-06-2023

Tension Test Report (Page – 1/7)

Date of Test 17-08-2023
Gauge length 2 inches
Description MS Plate 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)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Plate	30	12.7029.90	379.73	--------	47800	-------	1235	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only One Sample 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

Ref: CED/TFL/08/3711 Dated: 08-08-2023

Dated of Test: 17-08-2023

To

Resident Engineer
Indus – Cameos – New Vision
Dualization of Zhob - Kuchlak Section of N-5, Khanozai to Kuchlak
(km 245+000 to km 298+412)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]**

Reference to your letter No. RE/Pkg-V/N-50/IAC/2023/-539, dated 03.08.2023 on the subject cited above. One R.C.C. Pipe as received by us has been tested.

The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	24	7.80	7.16	29.96	23.43	3.26	11010	14200	1736	2240

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

Ref: CED/TFL/08/3720 Dated: 09-08-2023

Dated of Test: 17-08-2023

To

Resident Engineer
NESPAK
Infrastructure Development at Chaahar Bagh Under Ravi Riverfront Urban Development Project.

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]**

Reference to your letter No. 4559/13/MAA/09/166, dated 08.08.2023 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	24	7.74	7.16	29.92	24.31	2.81	14200	19520	2160	2969

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

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,

Asst Dir Lab
Defence Housing Authority, Bahawalpur
(Plot no. 553- C, Owner Name Ayesha Khadim DHA Bahawalpur)

Reference # CED/TFL **3731** (Dr. Ali Ahmed) Dated: 11-08-2023
Reference of the request letter # 530/QC/MTL Dated: 11-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.387	3	0.380	0.11	0.114	4500	5200	90200	87230	104200	100800	0.90	11.3	Amreli Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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:
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.
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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,

Asst Dir Lab
Defence Housing Authority, Bahawalpur
(Plot no. 999- C, Owner Name Saeed Malik, DHA Bahawalpur)

Reference # CED/TFL **3732** (Dr. Ali Ahmed) Dated: 11-08-2023
Reference of the request letter # 530/QC/MTL Dated: 11-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.374	3	0.374	0.11	0.110	4300	5200	86200	86180	104200	104300	0.90	11.3	Naveena Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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:
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,

QA/QC Manager
Amir Steel Re-Rolling Mills
(Mehmboob Group)
Gujranwala

Reference # CED/TFL **3733** (Dr. Ali Ahmed) Dated: 11-08-2023
Reference of the request letter # Nil Dated: 11-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.369	3	0.371	0.11	0.108	3100	4800	62200	63060	96200	97700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Civil Engineer
M/S Naubahar Bottling Company (PEPSI) Pvt. Ltd.
Construction of ETP and Rain Water Collection Pit at NBC Gujranwala.

Reference # CED/TFL **3735** (Dr. Ali Ahmed) Dated: 11-08-2023
Reference of the request letter # Nil Dated: 11-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.379	10	9.56	0.12	0.111	3500	5000	64301	69310	91858	99100	1.40	17.5	
2	0.378	10	9.56	0.12	0.111	3400	4900	62464	67420	90021	97200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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
Elite Engineering Pvt. Ltd.
WB-10-B Extension Works at 220 kVA University Grid Station Bara Kahu, Islamabad

Reference # CED/TFL **3740** (Dr. Nauman Khurram) Dated: 15-08-2023
Reference of the request letter # EEPL/08/EL-01 Dated: 15-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.390	3	0.382	0.11	0.115	3230	4860	64800	62030	97400	93400	1.30	16.3	Aziz Steel
2	0.390	3	0.382	0.11	0.115	3280	4810	65800	63020	96400	92500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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														

Witness by Sohaib Ali (Sub-Engineer NESPAK) and Naveed Iqbal (Elite Company)

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 Ideal Construction Service
Lahore
(FMH Tower Lahore)

Reference # CED/TFL **3741** (Dr. Ali Ahmed) Dated: 15-08-2023
Reference of the request letter # ICS/786/546 Dated: 15-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.370	3	0.372	0.11	0.109	3400	4900	68200	68950	98200	99400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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:
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,

Manager Procurement
Petrocon (Pvt) Ltd
Relocation of MCH-01 Tank Project at Shell Pakistan Machike Depot.
M/S Shell Pakistan Ltd.

Reference # CED/TFL **3743** (Dr. Ali Ahmed) Dated: 15-08-2023
Reference of the request letter # 100/UET-P331/TEST Dated: 15-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.422	10	10.10	0.12	0.124	4800	5800	88184	85260	106556	103100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: 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,

Mubashar Ahmed Khan
234-D OPF, Khayyaban e Jinnah Road Lahore

Reference # CED/TFL **3744** (Dr. Ali Ahmed) Dated: 15-08-2023
Reference of the request letter # Nil Dated: 15-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.362	3	0.368	0.11	0.107	3200	4700	64200	66200	94200	97300	1.10	13.8	
2	0.363	3	0.369	0.11	0.107	3200	4500	64200	66090	90200	93000	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.

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,

Sub Divisional Officer
Buildings Sub Division No. 01
Bahawalpur
(Construction of Environment Complex in Bahawalpur.)

Reference # CED/TFL **3747** (Dr. Ali Ahmed) Dated: 16-08-2023
Reference of the request letter # 2280/Bwp Dated: 14-06-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.390	3/8	0.382	0.11	0.115	3000	4800	60200	57730	96200	92400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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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 Professional Construction Services (Pvt) Ltd.
Lahore
(TCF Secondary School Basti Chan Wali Qasba Gujrat, Muzaffar Garh)

Reference # CED/TFL **3750** (Dr. Ali Ahmed) Dated: 16-08-2023
Reference of the request letter # PCS/23/Eng-103 Dated: 11-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.366	3	0.370	0.11	0.108	3300	4300	66200	67570	86200	88100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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:
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
Sheikhoo Sugar Mills (Steel Division)
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3751** (Dr. Usman Akmal) Dated: 16-08-2023
Reference of the request letter # Nil Dated: 10-08-2023

Tension Test Report (Page -1/2)

Date of Test 17-08-2023
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	Heat No.
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.108	3600	4900	72200	73770	98200	100500	1.30	16.3	674R
2	0.370	3	0.372	0.11	0.109	3600	4800	72200	72970	96200	97300	1.10	13.8	675R
3	0.368	3	0.371	0.11	0.108	3500	4700	70200	71260	94200	95700	1.40	17.5	677R
4	0.370	3	0.372	0.11	0.109	3500	4800	70200	70950	96200	97300	1.30	16.3	679R
5	0.371	3	0.373	0.11	0.109	3500	4700	70200	70650	94200	94900	1.50	18.8	683R
6	0.374	3	0.374	0.11	0.110	3500	4800	70200	70210	96200	96300	1.50	18.8	684R
7	0.374	3	0.374	0.11	0.110	3500	4800	70200	70190	96200	96300	1.40	17.5	685R
8	0.372	3	0.373	0.11	0.109	3400	4700	68200	68570	94200	94800	1.50	18.8	686R
9	0.371	3	0.373	0.11	0.109	3300	4700	66200	66730	94200	95100	1.50	18.8	688R
10	0.369	3	0.372	0.11	0.108	3300	4700	66200	67080	94200	95600	1.40	17.5	689R
11	0.371	3	0.372	0.11	0.109	3400	4700	68200	68790	94200	95100	1.30	16.3	690R
12	0.368	3	0.371	0.11	0.108	3700	4800	74200	75480	96200	98000	1.20	15.0	691R
13	0.371	3	0.373	0.11	0.109	3700	4900	74200	74700	98200	99000	1.30	16.3	692R
14	0.369	3	0.372	0.11	0.108	3200	4700	64200	65050	94200	95600	1.40	17.5	693R
15	0.371	3	0.373	0.11	0.109	3300	4700	66200	66630	94200	94900	1.40	17.5	694R

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

16	**0.371**	**3**	**0.372**	**0.11**	**0.109**	**3500**	**4900**	**70200**	**70790**	**98200**	**99200**	**1.30**	**16.3**	**695R**
Note: only sixteen 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,

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

Reference # CED/TFL **3751** (Dr. Usman Akmal) Dated: 16-08-2023
Reference of the request letter # Nil Dated: 10-08-2023

Tension Test Report (Page -2/2)

Date of Test 17-08-2023
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	Heat No.
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.11	0.109	3400	4700	68200	68700	94200	95000	1.40	17.5	696R
2	0.367	3	0.371	0.11	0.108	3400	4800	68200	69390	96200	98000	1.30	16.3	697R
3	0.366	3	0.370	0.11	0.107	3300	4700	66200	67670	94200	96400	1.30	16.3	698R
4	0.369	3	0.371	0.11	0.108	3400	4800	68200	69180	96200	97700	1.40	17.5	699R
5	0.368	3	0.371	0.11	0.108	3300	4600	66200	67170	92200	93700	1.40	17.5	700R
6	0.367	3	0.371	0.11	0.108	3400	4700	68200	69490	94200	96100	1.00	12.5	701R
7	0.367	3	0.371	0.11	0.108	3400	4700	68200	69510	94200	96100	1.40	17.5	702R
8	0.366	3	0.370	0.11	0.108	3400	4800	68200	69640	96200	98400	1.30	16.3	703R
9	0.368	3	0.371	0.11	0.108	3400	4700	68200	69220	94200	95700	1.50	18.8	704R
10	0.375	3	0.375	0.11	0.110	3500	4800	70200	70010	96200	96100	1.40	17.5	705R
11	0.367	3	0.371	0.11	0.108	3300	4700	66200	67350	94200	96000	1.50	18.8	706R
12	0.373	3	0.373	0.11	0.110	3500	4800	70200	70420	96200	96600	1.20	15.0	707R
13	0.375	3	0.374	0.11	0.110	3500	4800	70200	70050	96200	96100	1.40	17.5	708R
14	0.366	3	0.370	0.11	0.107	3400	4600	68200	69720	92200	94400	1.40	17.5	709R
15	0.368	3	0.371	0.11	0.108	3500	4800	70200	71320	96200	97800	1.30	16.3	711R

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

Note: only fifteen 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,

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

Reference # CED/TFL **3752** (Dr. Usman Akmal) Dated: 16-08-2023
Reference of the request letter # Nil Dated: 08-08-2023

Tension Test Report (Page -1/2)

Date of Test 17-08-2023
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	Heat No.
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.381	3	0.378	0.11	0.112	3600	5000	72200	70880	100200	98500	1.30	16.3	639R
2	0.376	3	0.375	0.11	0.111	3400	4800	68200	67740	96200	95700	1.40	17.5	640R
3	0.371	3	0.373	0.11	0.109	3400	4800	68200	68660	96200	97000	1.30	16.3	642R
4	0.372	3	0.373	0.11	0.109	3500	4800	70200	70580	96200	96800	1.50	18.8	644R
5	0.372	3	0.373	0.11	0.109	3500	4900	70200	70510	98200	98800	1.50	18.8	645R
6	0.372	3	0.373	0.11	0.109	3500	4900	70200	70560	98200	98800	1.20	15.0	646R
7	0.371	3	0.373	0.11	0.109	3500	4900	70200	70680	98200	99000	1.20	15.0	647R
8	0.372	3	0.373	0.11	0.109	3400	4800	68200	68590	96200	96900	1.40	17.5	648R
9	0.365	3	0.370	0.11	0.107	3400	4800	68200	69760	96200	98500	1.40	17.5	649R
10	0.372	3	0.373	0.11	0.109	3200	4800	64200	64470	96200	96700	1.50	18.8	650R
11	0.368	3	0.371	0.11	0.108	3400	4800	68200	69240	96200	97800	1.30	16.3	653R
12	0.372	3	0.373	0.11	0.109	3300	4700	66200	66440	94200	94700	1.40	17.5	654R
13	0.370	3	0.372	0.11	0.109	3500	4800	70200	71010	96200	97400	1.50	18.8	655R

I/C Testing Laboratoires
UET Lahore, Pakistan.

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14	**0.376**	**3**	**0.375**	**0.11**	**0.110**	**3300**	**4700**	**66200**	**65900**	**94200**	**93900**	**1.40**	**17.5**	**657R**
Note: only Fourteen 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,

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

Reference # CED/TFL **3752** (Dr. Usman Akmal) Dated: 16-08-2023
Reference of the request letter # Nil Dated: 08-08-2023

Tension Test Report (Page -2/2)

Date of Test 17-08-2023
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	Heat No.
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.11	0.109	3400	4800	68200	68740	96200	97100	1.10	13.8	658R
2	0.371	3	0.373	0.11	0.109	3400	4800	68200	68740	96200	97100	1.50	18.8	659R
3	0.368	3	0.371	0.11	0.108	3400	4800	68200	69320	96200	97900	1.20	15.0	660R
4	0.373	3	0.374	0.11	0.110	3400	4800	68200	68360	96200	96600	1.30	16.3	661R
5	0.375	3	0.375	0.11	0.110	3400	4800	68200	67980	96200	96000	1.50	18.8	664R
6	0.373	3	0.374	0.11	0.110	3400	4800	68200	68300	96200	96500	1.30	16.3	665R
7	0.369	3	0.372	0.11	0.108	3400	4800	68200	69110	96200	97600	1.20	15.0	666R
8	0.372	3	0.373	0.11	0.109	3400	4800	68200	68570	96200	96800	1.40	17.5	667R
9	0.370	3	0.372	0.11	0.109	3400	4700	68200	68880	94200	95300	1.30	16.3	668R
10	0.370	3	0.372	0.11	0.109	3400	4700	68200	68980	94200	95400	1.30	16.3	669R
11	0.370	3	0.372	0.11	0.109	3400	4700	68200	68860	94200	95200	1.40	17.5	670R
12	0.370	3	0.372	0.11	0.109	3300	4700	66200	66930	94200	95400	1.30	16.3	671R
13	0.369	3	0.372	0.11	0.108	3300	4700	66200	67050	94200	95500	1.50	18.8	672R
Note: only Thirteen samples for tensile test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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Pakistan. Ph: 92-42-99029202

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.

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
Construction of Multi-Level Grade Separation Flyover at Shahdra Morr, Lahore
(Mughal Steel)

Reference # CED/TFL **3753** (Dr. Ali Ahmed) Dated: 16-08-2023
Reference of the request letter# 4537/03/MSA/09/104 Dated: 15-07-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	Heat No.
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.369	3	0.372	0.11	0.109	3600	4600	72200	73100	92200	93400	0.90	11.3	B-4351
2	0.368	3	0.371	0.11	0.108	3500	4500	70200	71270	90200	91700	1.00	12.5	
3	4.131	10	1.243	1.27	1.214	40600	53400	70500	73690	92700	97000	1.60	20.0	E-9558
4	4.133	10	1.244	1.27	1.215	40400	53400	70200	73290	92700	96900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

#10 Bar Bend Test Through 180º 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,

Resident Engineer
ACE CSM
Secretariat Office Building Multan & Allied Work

Reference # CED/TFL **3759** (Dr. Ali Ahmed) Dated: 17-08-2023
Reference of the request letter # ACE/RE/CSM/2023/809 Dated: 12-08-2023

Tension Test Report (Page -1/1)

Date of Test 17-08-2023
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	0.372	3	0.373	0.11	0.109	3380	4640	67800	68120	93000	93600	1.10	13.8	FF Steel
2	0.378	3	0.376	0.11	0.111	3520	4790	70600	69840	96000	95100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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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