STRUCTURAL ENGINEERING DIVISION

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

To,

Engr. Mazhar Latif
General Manager (Projects)
Habib Rafiq Engineering (Pvt.) Limited
Development of One Central Project, Lahore

Reference # CED/TFL **6507** (Dr. M Kashif) Dated: 10-02-2025
Reference of the request letter # L1C-MISC-25-0021 Dated: 10-02-2025

Tension Test Report (Page -1/1)

Date of Test 13-02-2025
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	0.404	10	9.87	0.12	0.119	3700	5400	67975	68710	99207	100300	1.50	18.8	Moiz Steel
2	0.405	10	9.89	0.12	0.119	3700	5400	67975	68500	99207	100000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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:
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,

Sub Divisional Officer
Public Health Engg: Sub Division
Noor Pur Thal
(Construction of PCC Slab / Water Filtration Plant in U.C Gunjial Janubi District Khushab.)

Reference # CED/TFL **6517** (Dr. M Kashif) Dated: 11-02-2025
Reference of the request letter # 26/NPT Dated: 13-01-2025

Tension Test Report (Page -1/1)

Date of Test 13-02-2025
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	0.357	3/8	0.366	0.11	0.105	2900	4300	58200	60880	86200	90300	1.10	13.8	
2	0.359	3/8	0.366	0.11	0.105	2900	4200	58200	60600	84200	87800	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Hafiz Saeed ur Rehman
Resident Engineer, NESPAK
CBD Office at Ex. UMT Building.

Reference # CED/TFL **6521** (Dr. M Kashif) Dated: 11-02-2025
Reference of the request letter # 4322/13/HSR/09/02 Dated: 04-02-2025

Tension Test Report (Page -1/1)

Date of Test 13-02-2025
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	0.106	3700	4500	74200	76690	90200	93300	0.90	11.3	AK Supreme
2	0.363	3	0.369	0.11	0.107	3700	4700	74200	76330	94200	97000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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:
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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,

Manzoor Ahmad Joya
Resident Engineer, NESPAK
Establishment of Labour Colony at Quaid-e-Azam Business Park, M2 – Mptorway, Distt. Sheikhupura.

Reference # CED/TFL **6524** (Dr. M Kashif) Dated: 11-02-2025
Reference of the request letter # 3844/311/RE/053 Dated: 01-02-2025

Tension Test Report (Page -1/1)

Date of Test 13-02-2025
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	0.375	3	0.374	0.11	0.110	3100	4900	62200	62040	98200	98100	1.30	16.3	SJ Steel
2	0.375	3	0.375	0.11	0.110	3100	4500	62200	61960	90200	90000	1.70	21.3	
3	4.198	10	1.253	1.27	1.234	42400	55600	73600	75740	96500	99400	1.20	15.0	
4	4.246	10	1.261	1.27	1.248	41600	55200	72200	73470	95800	97500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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.

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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,

Arfan Nazir
Manager Civil, Nishat Mills Limited
Dyeing & Finishing Plant, Lahore.
(Construction of Compressor Room Unit 29"

Reference # CED/TFL **6525** (Dr. Kashif) Dated: 11-02-2025
Reference of the request letter # NDF/ST/002 Dated: 31-01-2025

Tension Test Report (Page -1/1)

Date of Test 13-02-2025
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	0.407	10	9.91	0.12	0.120	3600	5500	66138	66400	101044	101500	1.10	13.8	Batala Gold Steel
2	0.405	10	9.89	0.12	0.119	3700	5600	67975	68500	102881	103700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

M/S Ittehad Chemicals Limited.
Lahore.

Reference # CED/TFL **6526** (Dr. M Kashif) Dated: 11-02-2025
Reference of the request letter # Nil Dated: 10-02-2025

Tension Test Report (Page -1/1)

Date of Test 13-02-2025
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	0.377	3	0.376	0.11	0.111	3300	4600	66200	65680	92200	91600	1.40	17.5	
2	0.375	3	0.375	0.11	0.110	3200	4500	64200	64020	90200	90100	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.

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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
Building Sub Division
Kasur.
(Construction of 3rd Story of Haji Safdar Ali Academic Block at Govt. Islamia College for Boys Kasur Tehsil & District Kasur.)

Reference # CED/TFL **6527** (Dr. M Kashif) Dated: 11-02-2025
Reference of the request letter # 220/K Dated: 08-02-2025

Tension Test Report (Page -1/1)

Date of Test 13-02-2025
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	0.391	3/8	0.382	0.11	0.115	3500	5000	70200	67160	100200	96000	1.50	18.8	
2	0.374	3/8	0.374	0.11	0.110	3200	4800	64200	64160	96200	96300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: 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,

M Usman Rauf
Resident Engineer, NESPAK
Restoration / Improvement of Road from Kot Radha Kishan to Kasur, Length = 7.00 km in District Kasur.

Reference # CED/TFL **6528** (Dr. M Kashif) Dated: 11-02-2025
Reference of the request letter # 4084/103/MUR/104/23 Dated: 10-02-2025

Tension Test Report (Page -1/1)

Date of Test 13-02-2025
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	0.373	3	0.374	0.11	0.110	2700	4000	54100	54240	80200	80400	1.30	16.3	
2	0.373	3	0.374	0.11	0.110	2600	3700	52100	52240	74200	74400	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,

Imtiaz Khalil
Engineer QA/QC, Zes Zain Engineering Solutions
Ramada Project.
(Bashir Pipe)

Reference # CED/TFL **6544** (Dr. M Kashif) Dated: 13-02-2025
Reference of the request letter # ZES-QA/QC-14/25 Dated: 13-02-2025

Tension Test Report (Page – 1/1)

Date of Test 13-02-2025
Gauge length 2 inches
Description 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	**1.6**	**29.60x0.90**	**26.64**	**1600**	**2400**	**589**	**884**	**0.10**	**5.00**	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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