



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

To,

Sr. Engineer (C), WASO
Pakistan Atomic Energy Commission
“Construction of Mock-up Hall Near Chashma.”

Reference # CED/TFL **6022** (Dr. M Yousaf)

Dated: 20-11-2024

Reference of the request letter # WASO-CMD-LOI-029/2024/1530 Dated: 18-11-2024

Tension Test Report (Page -1/1)

Date of Test 22-11-2024

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	3920	5350	78600	79700	107200	108800	1.00	12.5	Heat # 1, 2 SJ Steel
-	0.381	3	0.378	0.11	0.112	4050	5560	81200	79640	111500	109400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Tariq Aleem (PE. QAD-DTS) and Zair Ullah (Sr. Tech. S&SD-DTS)

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S Jaffar Builders
Lahore
(Coca Cola Sunder Green Lahore.)

Reference # CED/TFL **6029** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 21-11-2024
Dated: 21-11-2024

Tension Test Report (Page -1/1)

Date of Test 22-11-2024
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	0.345	3	0.359	0.11	0.101	3310	4740	66400	71920	95000	103000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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Test Floor Laboratory
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To,

Resident Engineer
 NESPAK
 Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP).
 Darya Khan (Package-I)

Reference # CED/TFL **6030** (Dr. M Rizwan Riaz)

Dated: 21-11-2024

Reference of the request letter # 4608/PRSWSSP/RE/DYK/304

Dated: 08-11-2024

Tension Test Report (Page -1/1)

Date of Test 22-11-2024

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	0.367	3	0.371	0.11	0.108	3870	5100	77600	79120	102200	104300	1.10	13.8	FF Steel
2	0.367	3	0.370	0.11	0.108	3870	5060	77600	79140	101400	103500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,

Resident Engineer
NESPAK
Resolving Traffic Congestion Issues at Serena Chowk and Convention Centre Chowk
Islamabad.

Reference # CED/TFL **6031** (Dr. M Rizwan Riaz)
Reference of the request letter # SA-527/103/KTSN/01/05

Dated: 21-11-2024
Dated: 11-11-2024

Tension Test Report (Page -1/1)

Date of Test 22-11-2024
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	0.376	3	0.375	0.11	0.110	3690	4640	74000	73690	93000	92700	1.00	12.5	MughalSteel
2	0.373	3	0.374	0.11	0.110	3720	4690	74600	74720	94000	94300	1.00	12.5	
3	4.230	10	1.258	1.27	1.243	39000	53400	67700	69140	92700	94700	1.50	18.8	
4	4.195	10	1.253	1.27	1.233	39800	54200	69100	71150	94100	96900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,

Resident Engineer
NESPAK

Reconstruction of Cross Drainage Structure of Jahanpur Minor Damaged During Flood
2022 at RD 250+00 of Qutab Drain.

Reference # CED/TFL **6034** (Dr. M Rizwan Riaz)

Dated: 21-11-2024

Reference of the request letter # 4688/13/MAB/03/31

Dated: 18-11-2024

Tension Test Report (Page -1/1)

Date of Test 22-11-2024

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	0.378	3	0.376	0.11	0.111	3430	5250	68800	68040	105200	104200	1.10	13.8	Prime Steel
2	0.375	3	0.374	0.11	0.110	3380	5170	67800	67640	103600	103500	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 Laboratories
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To,
Manager Procurement
Gharibwal Cement Limited.
Lahore

Reference # CED/TFL **6036** (Dr. M Rizwan Riaz)

Dated: 22-11-2024

Reference of the request letter # GCL/Purchase/UET/TEST/007

Dated: 22-11-2024

Tension Test Report (Page -1/1)

Date of Test 22-11-2024

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	4.237	32	31.98	1.25	1.245	42400	54600	74780	75040	96297	96700	1.60	20.0	
2	4.252	32	32.04	1.25	1.250	42600	55000	75133	75120	97002	97000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

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To,

Head Construction Site
 ABL – UML P-199 & 200
 Allied Bank
 Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **6038** (Dr. M Rizwan Riaz)

Dated: 22-11-2024

Reference of the request letter # ABL-UML-AMC-QAQC-98

Dated: 22-11-2024

Tension Test Report (Page -1/1)

Date of Test 22-11-2024

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	3840	5120	77000	78670	102600	104900	1.00	12.5	FF Steel
2	0.372	3	0.373	0.11	0.109	3820	5100	76600	76930	102200	102800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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