

To,

Engr. Umar Majeed (Chief Engineer, Development & Construction)
Urban Developer Group, Lahore
Plot # 125, 126, Block A of Central Park Housing Scheme, Ferozepur Road, Lahore

Reference # CED/TFL **6908** (Dr. Rizwan Azam)
Reference of the request letter # UD/CP/CE/943

Dated: 02-05-2025
Dated: 02-05-2025

Tension Test Report (Page-1/1)

Date of Test 06-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.373	3	0.374	0.110	0.11	3500	4700	70127	70293	94171	94393	1.3	16.3	-
2	0.371	3	0.372	0.110	0.109	3400	4700	68124	68770	94171	95064	1.4	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,
 Mr. Bineamin (Civil Engineer)
 Klash (Private) Limited
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Reference # CED/TFL 6911 (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 05-05-2025
 Dated: 05-05-2025

Tension Test Report (Page-1/1)

Date of Test 06-05-2025
 Gauge Length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.379	3	0.377	0.110	0.111	3600	5100	72131	71212	102185	100884	1.2	15.0	3"/8
2	0.379	3	0.377	0.110	0.111	3600	5100	72131	71189	102185	100851	1.3	16.3	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Resident Engineer

NESPAK (Pvt.) Ltd.

Construction of VR Bridge of Main Qutab Drain at RD 258+000

(AF Steel)

Reference # CED/TFL **6913** (Dr. Rizwan Azam)

Dated: 05-05-2025

Reference of the request letter # 4688/13/MAB/03/56

Dated: 02-05-2025

Tension Test Report (Page-1/1)

Date of Test 06-05-2025

Gauge Length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.376	3	0.375	0.110	0.11	3600	4700	72131	71839	94171	93790	0.7	8.8	-
2	0.375	3	0.375	0.110	0.11	3800	5100	76138	76031	102185	102042	1	12.5	-
3	4.233	10	1.258	1.270	1.244	38800	51000	67335	68757	88507	90376	1.2	15.0	-
4	4.181	10	1.251	1.270	1.229	38600	53400	66988	69250	92672	95802	1.6	20.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 4 Samples for Tensile and 2 Samples for Bend test

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	
# 10 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,
 Mr. Muhammad Shabbir Sandhu (Material Engineer)
 EPCM Consultants
 Turk Main Sewer Conduit, Effluent Pumping Station and Allied Work (NCB-Works/PICIIP-03 (LOT-03))

Reference # CED/TFL 6916 (Dr. Rizwan Azam) Dated: 05-05-2025
 Reference of the request letter # 3976/11/MSS/SWL/Lot-03/01/1282 Dated: 02-05-2025

Tension Test Report (Page-1/1)

Date of Test 06-05-2025
 Gauge Length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.349	3	0.361	0.110	0.102	3600	4500	72131	77440	90164	96801	1.1	13.8	AF Steel
2	0.344	3	0.359	0.110	0.101	3200	4300	64116	69749	86156	93726	0.8	10.0	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Muhammad Shabbir Sandhu (Material Engineer)
EPCM Consultants
Turk Main Sewer Lines and Allied Work (NCB-Works/PICIIP-03 (LOT-02))

Reference # CED/TFL 6915 (Dr. Rizwan Azam)
Reference of the request letter # 3976/11/MSS/SWL/Lot-02/01/1245

Dated: 05-05-2025
Dated: 23-04-2025

Tension Test Report (Page-1/1)

Date of Test 06-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.344	3	0.359	0.110	0.101	3800	4500	76138	82814	90164	98069	0.9	11.3	AF Steel
2	0.356	3	0.365	0.110	0.104	4100	4900	82149	86489	98178	103365	0.7	8.8	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,
 Mr. Muhammad Shabbir Sandhu (Material Engineer)
 EPCM Consultants
 Turk Main Sewer Conduit, Effluent Pumping Station and Allied Work (NCB-Works/PICIIP-03 (LOT-03))

Reference # CED/TFL 6916 (Dr. Rizwan Azam) Dated: 05-05-2025
 Reference of the request letter # 3976/11/MSS/SWL/Lot-03/01/1282 Dated: 02-05-2025

Tension Test Report (Page-1/1)

Date of Test 06-05-2025
 Gauge Length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (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			
1	0.349	3	0.361	0.110	0.102	3600	4500	72131	77440	90164	96801	1.1	13.8	AF Steel
2	0.344	3	0.359	0.110	0.101	3200	4300	64116	69749	86156	93726	0.8	10.0	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
 Mr. Ghulam Mustafa (Project Manager)
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL 6917 (Dr. Rizwan Azam)
 Reference of the request letter # SPT/UET/20250506

Dated: 06-05-2025
 Dated: 05-05-2025

Tension Test Report (Page-1/1)

Date of Test 06-05-2025
 Gauge Length 2 inches
 Description Strips Tensile Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	3mm	26.30 x 3.00	78.90	3000	3200	373.0	397.9	0.5	25.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by: