



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 Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6041** (Dr. M Kashif)
Reference of the request letter # BMSQA.QC-070/24

Dated: 25-11-2024

Dated: 22-11-2024

Tension Test Report (Page – 1/1)

Date of Test 29-11-2024
Gauge length 2 inches
Description HR 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	TT-03	12	31.20x11.70	365.04	15600	22200	419	597	1.00	50.00	
2	TT-01	25	31.50x25.50	803.25	27000	38300	330	468	1.10	55.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

To,

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Project Manager
AJK Engineers (Pvt.) Ltd.
Protection Piling, Excavation & Tubewell Works at JDW Tower.

Reference # CED/TFL **6050** (Dr. M Kashif)
Reference of the request letter # AJK/JDW/UET/2024/11/004

Dated: 27-11-2024
Dated: 25-11-2024

Tension Test Report (Page – 1/1)

Date of Test 29-11-2024
Gauge length 2 inches
Description Steel 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)										
1	Steel Plate	8	26.30x8.20	215.66	7100	9900	323	450	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test											
Bend Test											

To,
M/S Izhar Steel (Pvt) Ltd.

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Lahore
(LPG Storage & Bottling Facility PARCO PEARL GAS)

Reference # CED/TFL **6055** (Dr. M Kashif)
Reference of the request letter # ISPL-112-LET-00041

Dated: 28-11-2024
Dated: 28-11-2024

Tension Test Report (Page -1/1)

Date of Test 29-11-2024
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	3600	4600	72200	73510	92200	94000	1.00	12.5	
2	0.369	3	0.372	0.11	0.109	3700	4700	74200	75110	94200	95500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

To,

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Resident Engineer
 NESPAK – TURPAK jv
 Reconstruction of Old P&D Building, Lahore.

Reference # CED/TFL **6056** (Dr. M Kashif)
 Reference of the request letter # 4674/P&D/13/09/AZL/67

Dated: 28-11-2024

Dated: 07-11-2024

Tension Test Report (Page -1/1)

Date of Test 29-11-2024
 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	3200	4900	64200	63440	98200	97200	1.00	12.5	Aziz Steel
2	0.379	3	0.377	0.11	0.111	3300	4900	66200	65300	98200	97000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 – TURPAK jv
 Reconstruction of Old P&D Building, Lahore.

Reference # CED/TFL **6057** (Dr. M Kashif)
 Reference of the request letter # 4674/P&D/13/09/AZL/72

Dated: 28-11-2024
 Dated: 28-11-2024

Tension Test Report (Page -1/1)

Date of Test 29-11-2024
 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	0.381	3	0.378	0.11	0.112	3200	4900	64200	62970	98200	96500	1.30	16.3	Aziz Steel
2	0.388	3	0.381	0.11	0.114	3200	5000	64200	61840	100200	96700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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To,
Officer Building
Allied Bank
ABL Head Office Kamla Tower Lahore.

Reference # CED/TFL **6060** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 28-11-2024
Dated: 28-11-2024

Tension Test Report (Page – 1/1)

Date of Test 29-11-2024
Description Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	8	0.23	3200	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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UET Lahore, Pakistan.

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To,

M/S Bravo Associates

Project: Mini Igloo at Khaigala Rawalkot, 61 ORD, 12DIV.

Reference # CED/TFL **6061** (Dr. M Kashif)

Dated: 28-11-2024

Reference of the request letter # Nil

Dated: 28-11-2024

Tension Test Report (Page -1/1)

Date of Test 29-11-2024

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	0.379	3/8	0.377	0.11	0.111	3400	5200	68200	67240	104200	102900	1.10	13.8	Aziz Steel
2	0.379	3/8	0.377	0.11	0.111	3400	5000	68200	67240	100200	98900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
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To,
Deputy General Manager Works
Habib Rafiq Engineering (Pvt.) Limited
101 Tower, Lahore

Reference # CED/TFL **6062** (Dr. M Kashif)
2024

Dated: 29-11-

Reference of the request letter # HRLE/SKG/2024/SPT/177

Dated: 29-11-2024

Tension Test Report (Page – 1/1)

Date of Test 29-11-2024

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	12.70 (1/2")	775.0	784.0	18000	176.58	19700	193.26	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

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Witness by Najam Shabbir Khan (Site Engineer, 101 Group) and M Irfan (QC Engineer /HRL)

To,

M/S Voltac Engineering and Contractor
Karachi

Reference # CED/TFL **6098** (Dr. M Kashif)

Dated: 04-12-2024

Reference of the request letter # Nil

Dated: 04-12-2024

Tension Test Report (Page – 1/1)

Date of Test

06-15-2024

Description

Steel Wire Rope SS316 Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12 (6x19)	0.50	6800	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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