



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 Defence Housing Authority.
Lahore Cantt
(Infra Structure Works Sector IV S-Block DHA Rahbar Ph-XI) - (M/s DHA C)

Reference # CED/TFL **36602** (Dr. Usman Akmal)
Reference of the request letter # 408/241/E/Lab/86/TW # 04

Dated: 18-06-2021
Dated: 17-06-2021

Tension Test Report (Page – 1/1)

Date of Test 01-07-2021
Gauge length 2 inches
Description MS Blind Pipe Steel Strip Tensile and Bend Test as Per ASTM A-53

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)	(in)		
1	MS Blind Pipe	18	26.80x6.00	160.80	6600	7700	402.65	469.76	0.65	32.50	
2			26.90x6.00	161.40	6300	7500	382.92	455.86	0.60	30.00	
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-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from MS Blind Pipe (18") Bend Test Through 180° is Satisfactory											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Structure Works of Prism DHA Ph-IX Pkg-5) - (M/s Maaksons)

Reference # CED/TFL **36639** (Dr. Usman Akmal)

Dated: 24-06-2021

Reference of the request letter # 408/241/E/Lab/92/370 OHWT

Dated: 23-06-2021

Tension Test Report (Page – 1/1)

Date of Test 01-07-2021

Gauge length 2 inches

Description MS Blind Pipe Steel Strip Tensile and Bend Test as Per ASTM A-53

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)	(in)		
1	MS Blind Pipe	15	26.80x6.00	160.80	7000	8300	427.05	506.36	0.55	27.50	
2			26.80x6.00	160.80	7100	8300	433.15	506.36	0.55	27.50	
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-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from MS Blind Pipe (15") Bend Test Through 180° 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,
Project Manager
CCECC-MATRACON-HABIB Joint Venture
Re-Construction of & Up-gradation of Main Runway (18L/36R) at Allama Iqbal International
Airport (AIIAP), Lahore
(Shalimar Steel Industry (Pvt) Ltd Lahore)
Reference # CED/TFL **36646** (Dr. Usman Akmal)
Reference of the request letter # AIIAP/CCECC-MATRACON-HABIB Jv/2021/465

Dated: 25-06-2021

Dated: 25-06-2021

Tension Test Report (Page -1/2)

Date of Test 01-07-2021
Gauge length 8 inches
Description Plain Steel Dowel Bar Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	50	35.80	1006.598	38000	69200	370.34	674.40	1.30	16.25	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 Project Manager
 CCECC-MATRACON-HABIB Joint Venture
 Re-Construction of & Up-gradation of Main Runway (18L/36R) at Allama Iqbal International
 Airport (AIIAP), Lahore
 (S.J steel Mill (AS Steel Group) Lahore)
 Reference # CED/TFL **36646** (Dr. Usman Akmal)
 Reference of the request letter # AIIAP/CCECC-MATRACON-HABIB Jv/2021/467

Dated: 25-06-2021
 Dated: 25-06-2021

Tension Test Report (Page -2/2)

Date of Test 01-07-2021
 Gauge length 8 inches
 Description Plain Steel Dowel Bar Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	50	35.80	1006.598	37800	62000	368.39	604.23	1.80	22.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Note: only one sample 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,
 Assistant Resident Engineer
 NESPAK
 Storm Water Drainage System from Haji Camp to River Ravi via Lahshmi Chowk, Mcleod Road, Nabha Road, Chuburji and Sham Nagar, Lahore
 (Storm Water Drainage System from Sham Nagar to River Ravi (Package-II))

Reference # CED/TFL **36666** (Dr. Usman Akmal) Dated: 30-06-2021
 Reference of the request letter # 3882/11/MWA/01/251 Dated: 24-06-2021

Tension Test Report (Page -1/1)

Date of Test 01-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3	0.375	0.11	0.111	2800	4800	56200	55780	96200	95700	1.20	15.0	SJ Steel
2	0.373	3	0.374	0.11	0.110	3000	4750	60200	60280	95200	95500	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 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 Technical/C.E.O
Altec Engineers
Establishment of Model Bazar at Pakpattan & Bhakkar

Reference # CED/TFL **36667** (Dr. M Rizwan Riaz) Dated: 30-06-2021
Reference of the request letter # CS/MB/2/PKPTN/NMB/CONS/NOC/03/15 Dated: 30-06-2021

Tension Test Report (Page – 1/1)

Date of Test 01-07-2021
Gauge length 2 inches
Description Plate Steel Strip Tensile Test as per ASTM A572 M

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Plate	26.70x5.90	157.53	63.50	85.50	403.10	542.75	0.70	35.00	
2		26.80x5.90	158.12	64.00	85.70	404.76	541.99	0.65	32.50	
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-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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/S Amreli Steel Limited
Karachi

Reference # CED/TFL **36669** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 30-06-2021
Dated: 30-06-2021

Tension Test Report (Page -1/1)

Date of Test 01-07-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	Nominal	Actual			
1	0.374	9.5	9.50	0.110	0.110	3700	4900	74200	74220	98200	98300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
9.5mm Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
M/S Shahid Engineers
Faisalabad
(Apex Mall People Colony, D Block, Satiana Road, Faisalabad)(Rana Riasat Ali)

Reference # CED/TFL **36670** (Dr. Usman Akmal)
Reference of the request letter # Fx-83/21

Dated: 30-06-2021
Dated: 27-06-2021

Tension Test Report (Page -1/1)

Date of Test 01-07-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.416	3	0.394	0.11	0.122	3800	4800	76200	68560	96200	86600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36673** (Dr. Usman Akmal)
Reference of the request letter # IHPL/Steel/094

Dated: 01-07-2021

Dated: 29-06-2021

Tension Test Report (Page -1/1)

Date of Test 01-07-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.278	10	1.265	1.27	1.257	37400	55200	65000	65560	95800	96800	1.50	18.8	PCS Steel
2	4.287	10	1.267	1.27	1.260	37800	55200	65600	66110	95800	96600	1.50	18.8	
3	4.283	10	1.266	1.27	1.259	37200	55000	64600	65130	95500	96300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Rafi Ullah (IHPL) & Ali Haris Khan (KB)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
 Chief Executive
 KS & Associates
 Setting up of MCB Regional Office and Bank Branch at Township Lahore

Reference # CED/TFL **36674** (Dr. M Rizwan Riaz)

Dated: 01-07-2021

Reference of the request letter # KSA/MCB-TS-LHR/18/JY-01

Dated: 01-07-2021

Tension Test Report (Page -1/1)

Date of Test 01-07-2021

Gauge length 8 inches

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

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	3	0.374	0.11	0.110	3380	4910	67800	67820	98400	98600	1.20	15.0	Batala Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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