STRUCTURAL ENGINEERING DIVISION

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

To,

Contractor Representative
CCECC - HCS Jv
Expansion of Terminal Building and Allied Facilities at Allama Iqbal International Air[port (AIIAP), Lahore

Reference # CED/TFL **6108** (Dr.M Kashif) Dated: 06-12-2024
Reference of the request letter # CCECCHCSJVAIIAP2024-422 Dated: 29-11-2024

Tension Test Report (Page -1/2)

Date of Test 10-12-2024
Gauge length 8 inches
Description Plain Steel Dowel Bar Tensile and Bend Test

Sr. No.	Diameter / size (mm)	Reduced Dia (mm)	Reduced Area (mm^2)	Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation (inch)	% Elongation	Remarks
1	50	36.50	1046.35	39200	72000	368	675	0.80	10.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test										
-	-	-	-		-				-	
Bend Test										

Witness by M. Asif (M.E NESPAK) and Nazish Imram (CCECC - HCS Jv)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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,

Contractor Representative
CCECC - HCS Jv
Expansion of Terminal Building and Allied Facilities at Allama Iqbal International Air[port (AIIAP), Lahore

Reference # CED/TFL **6108** (Dr.M Kashif) Dated: 06-12-2024
Reference of the request letter # CCECCHCSJVAIIAP2024-422 Dated: 29-11-2024

Test Report (Page -2/2)

Date of Test 10-12-2024
Description Plain Steel Dowel Bar Weight & Size Test

Sr. No.	Weight	Diameter/ Size (mm)		Area (mm^2)		Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	
1	17.782	50	53.71	-------	2265.3	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
Note: only two samples for test						

Witness by M. Asif (M.E NESPAK) and Nazish Imram (CCECC - HCS Jv)

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
Highway Sub Division No. 2
Rawalpindi
(Construction of Flyover Khawaja Corporation Chowk to Adyala Road District Rawalpindi)

Reference # CED/TFL **6119** (Dr. M Kashif) Dated: 09-12-2024
Reference of the request letter # 1470/H-2 Dated: 05-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.372	3	0.373	0.11	0.109	3790	4890	76000	76310	98000	98500	1.10	13.8	
2	0.370	3	0.372	0.11	0.109	3790	4890	76000	76790	98000	99100	1.10	13.8	
3	4.225	10	1.257	1.27	1.242	38000	53800	66000	67450	93400	95500	1.60	20.0	
4	4.194	10	1.253	1.27	1.233	36400	52600	63200	65080	91300	94100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,

Senior Project Manager
Infrastructure Development Authority of The Punjab
Lahore

Reference # CED/TFL **6120, 6121** (Dr. M Kashif) Dated: 09-12-2024
Reference of the request letter # SPM(NETZERO)/IDAP/2024/20918 Dated: 09-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.372	3	0.373	0.11	0.109	3280	4790	65800	66190	96000	96700	1.40	17.5	Karachi Steel
2	0.372	3	0.373	0.11	0.109	3280	4790	65800	66170	96000	96700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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:

1- You can See your reports On Internet in the following web site
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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,

Divisional Engineer (Civil)
Engg. Services Maint. & Dev
PAA, AIIAP, Lahpore
(Replacement of GI Sheet Roofing with RCC Slabs Additional / Alteration Works in Camb and Water Proofing of All Offices at Ex-RD Block at AIIAP, Lahore.)

Reference # CED/TFL **6122** (Dr. M Kashif) Dated: 09-12-2024
Reference of the request letter # AIIAP/1659-01/059/LACV/IV/877 Dated: 09-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.368	3/8	0.371	0.11	0.108	3690	4810	74000	75230	96400	98100	1.10	13.8	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

3/8" 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,

Project Manager,
HIGH-Q
Construction of HIGH-Q Tower at CBD, Lahore.

Reference # CED/TFL **6123** (Dr. M Kashif) Dated: 09-12-2024
Reference of the request letter # QC/HQ/CIVIL/003 Dated: 09-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.363	10	9.36	0.12	0.107	3620	5520	66505	74740	101412	114000	1.10	13.8	
2	0.361	10	9.34	0.12	0.106	3540	5450	65036	73490	100126	113200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm 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,

Material Engineer
Banu Mukhtar Contracting (Pvt) Ltd
Burj – 1 by Ajwa Builders

Reference # CED/TFL **6124** (Dr. M Kashif) Dated: 09-12-2024
Reference of the request letter # DOC/AJWA/149 Dated: 09-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.361	3	0.367	0.11	0.106	3890	5120	78000	80850	102600	106500	1.20	15.0	
2	0.366	3	0.370	0.11	0.108	3890	5170	78000	79630	103600	105900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Project Manager
University of Management and Technology Lahore.
Exhibition Building
(Riz Builders)

Reference # CED/TFL **6125** (Dr. M Kashif) Dated: 09-12-2024
Reference of the request letter # EXB-1/76 Dated: 05-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.371	3	0.373	0.11	0.109	3670	5350	73600	74080	107200	108000	1.00	12.5	Hunza Steel
2	0.371	3	0.373	0.11	0.109	3620	5300	72600	73210	106200	107200	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.

Note:
1- You can See your reports On Internet in the following web site
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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,

AE B&R
CMES (PAF) Sargodha
(Establishment of Cattle Farm and Horse Breeding Facilities at PAF Chander.)

Reference # CED/TFL **6126** (Dr. M Kashif) Dated: 09-12-2024
Reference of the request letter # 6000-HB/39/E6 Dated: 05-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.374	3	0.374	0.11	0.110	4080	4790	81800	81720	96000	96000	0.80	10.0	
2	0.375	3	0.375	0.11	0.110	4080	5450	81800	81550	109200	109000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" 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,

Project Coordinator
M/S Bestway Cement Ltd
Bestway Tower Project.

Reference # CED/TFL **6127** (Dr. M Kashif) Dated: 10-12-2024
Reference of the request letter # ST/BT/04 Dated: 09-12-2024

Tension Test Report (Page – 1/1)

Date of Test 10-12-2024
Gauge length 600 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")**	**780.0**	**784.0**	**17700**	**173.64**	**19500**	**191.30**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for 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,

Manager Procurement
Gharibwal Cement Limited.
Lahore

Reference # CED/TFL **6128** (Dr. M Kashif) Dated: 10-12-2024
Reference of the request letter # GCL/Purchase/UET/TEST/010 Dated: 10-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	4.240	32	32.00	1.25	1.246	37200	57400	65609	65780	101235	101500	1.40	17.5	
2	4.267	32	32.10	1.25	1.254	38200	59400	67373	67130	104763	104400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm 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,

Additional Director (Maintence)
Defence Housing Authority, Gujranwala
"External Electrification Sys (UG) Sector 1A Extension DHA Gwa."

Reference # CED/TFL **6132** (Dr. M Kashif) Dated: 10-12-2024
Reference of the request letter # 318/13/Maint/UG Elec 1A Extn Dated: 09-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.368	10	9.43	0.12	0.108	3430	4790	63015	69830	88000	97600	1.20	15.0	Sheikhoo Steel
2	0.364	10	9.37	0.12	0.107	3470	4790	63750	71500	88000	98700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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,

Khurram Shahzad
Ali Trade Centre, Lahore

Reference # CED/TFL **6134** (Dr. M Kashif) Dated: 10-12-2024
Reference of the request letter # Nil Dated: 10-12-2024

Tension Test Report (Page -1/1)

Date of Test 10-12-2024
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	0.374	3	0.374	0.11	0.110	4080	4640	81800	81800	93000	93100	1.00	12.5	
2	0.370	3	0.372	0.11	0.109	3980	4590	79800	80670	92000	93100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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:
1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
2. The above results pertain to sample /samples supplied to this laboratory.
3- Sealed sample / Unsealed sample / Marked sample/Signed Samples