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
Designmen Consulting Engineers
Construction of AKS Mastuj Chitral.

Reference # CED/TFL **6114** (Dr. Ali Ahmed) Dated: 06-12-2024
Reference of the request letter # N-187/AKES-SCSP-CHITRAL/24-1 Dated: 02-12-2024

Tension Test Report (Page – 1/1)

Date of Test 11-12-2024
Gauge length 2 inches
Description Steel Elements Steel Strip Tensile Test

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	I- Beam	W6	26.20x6.60	172.92	7800	12500	443	709	0.60	30.00	
-	I- Beam	W8	26.20x5.30	138.86	5800	9000	410	636	0.60	30.00	
-	MS H Beam	6x6	26.40x10.30	271.92	9900	16200	357	584	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/6118 Dated: 09-12-2024

Date of Test: 11-12-2024

To,

Manager – Planning & Coordination
Birudo Engineers
"Design of Permanent Shelter at Shrine of Hazrat Data Ganjbakhsh, Lahore."

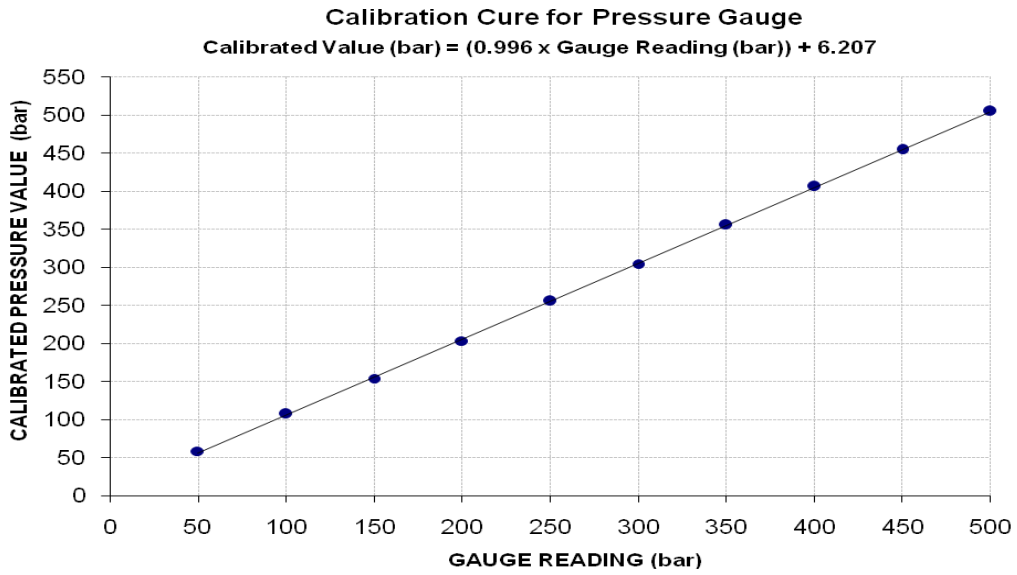
Subject: **- CALIBRATION OF PRESSURE GAUGE**

Reference to your Letter No. BE/2024/443, Dated: 09/12/2024 on the subject cited above. One Pressure Gauge No. 3305 as received by us has been calibrated. The results are tabulated as under:

Calibrated Range : Zero - 700 (bar)
Calibrated Range : Zero - 500 (bar)

Gauge Reading (bar)	50	100	150	200	250	300	350	400	450	500
Calibrated Load (kg)	11800	21600	31000	41000	51600	61400	71800	82000	91800	102000
Calibrated Pressure (bar)	58.45	106.99	153.54	203.07	255.58	304.12	355.63	406.15	454.69	505.21

The Ram Area for Calibration = 198 cm^2



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

To,

Sr. Site Engineer
Amanah Estate (Private) Limited.
Construction of Amanah Tower, Adda Plot, Lahore.

Reference # CED/TFL **6129** (Dr. Ali Ahmd) Dated: 10-12-2024
Reference of the request letter # Nil Dated: 10-12-2024

Tension Test Report (Page -1/1)

Date of Test 11-12-2024
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	0.382	3	0.378	0.11	0.112	2700	3900	54100	52940	78200	76500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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

To,

Sr. Site Engineer
Amanah Estate (Private) Limited.
Construction of Amanah Tower, Adda Plot, Lahore.

Reference # CED/TFL **6129** (Dr. Ali Ahmd) Dated: 10-12-2024
Reference of the request letter # Nil Dated: 10-12-2024

Tension Test Report (Page -1/1)

Date of Test 11-12-2024
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	0.382	3	0.378	0.11	0.112	2700	3900	54100	52940	78200	76500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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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 Syste (Under Ground) for Sector C&G DHA Gujranwala."

Reference # CED/TFL **6130** (Dr. Ali Ahmed) Dated: 10-12-2024
Reference of the request letter # 318/2/59/Maint/UG Elec Sec C&G Dated: 05-12-2024

Tension Test Report (Page -1/1)

Date of Test 11-12-2024
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	0.349	10	9.18	0.12	0.103	2800	4300	51441	60180	78998	92500	1.30	16.3	Afaq Steel
2	0.368	10	9.43	0.12	0.108	3000	4500	55115	61120	82673	91700	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:
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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 Engineer
ITU (Information Technology University of The Punjab)
Construction of Main Multi-Purpose Building at Main Campus Barki Road Lahore.

Reference # CED/TFL **6131** (Dr. Ali Ahmed) Dated: 10-12-2024
Reference of the request letter # ITU/OEW/24/389 Dated: 06-12-2024

Tension Test Report (Page -1/1)

Date of Test 11-12-2024
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	0.375	3	0.375	0.11	0.110	3800	4900	76200	76020	98200	98100	1.10	13.8	
2	0.369	3	0.372	0.11	0.109	3700	4900	74200	75120	98200	99500	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.

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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,

Resident Engineer
Master Consulting Engineers (Pvt) Ltd.
Construction of 07-Storey Residential Block Having Minimum 100 Rooms with Attached Bathroom Facilities at Gurdwara Janamsthan Nankana Sahib.

Reference # CED/TFL **6133** (Dr. Ali Ahmed) Dated: 10-12-2024
Reference of the request letter # NKB/RE/MCE/Steel/32 Dated: 05-12-2024

Tension Test Report (Page -1/1)

Date of Test 11-12-2024
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	0.363	3/8	0.368	0.11	0.107	3400	5200	68200	70290	104200	107500	1.10	13.8	
2	0.365	3/8	0.370	0.11	0.107	3400	5200	68200	69870	104200	106900	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 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Material Engineer
NESPAK – EPCM Consultants
Punjab Intermediate Cities Improvement Investment Program (PICIIP)
Consultancy Services for Engineering, Procurement and Construction Management
Trunk Main Sewer Lines and Allied Works (NCB-WORKS/PICIIP-03 (Lot-02)

Reference # CED/TFL **6136** (Dr. Ali Ahmed) Dated: 10-12-2024
Reference of the request letter # 3976/11/MSS/SWL/Lot-02/01/730 Dated: 30-11-2024

Tension Test Report (Page -1/2)

Date of Test 11-12-2024
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	3200	4700	64200	64530	94200	94800	1.50	18.8	Sheikhoo Steel
2	0.380	3	0.377	0.11	0.112	3300	4900	66200	65180	98200	96800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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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To,

Material Engineer
NESPAK – EPCM Consultants
Punjab Intermediate Cities Improvement Investment Program (PICIIP)
Consultancy Services for Engineering, Procurement and Construction Management
Trunk Main Sewer Conduit, Effluent Pumping Station and Allied Works (NCB-WORKS/PICIIP-03 (Lot-03)

Reference # CED/TFL **6136** (Dr. Ali Ahmed) Dated: 10-12-2024
Reference of the request letter # 3976/11/MSS/SWL/Lot-03/01/715 Dated: 30-11-2024

Tension Test Report (Page -2/2)

Date of Test 11-12-2024
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	3200	4700	64200	64490	94200	94800	1.30	16.3	Sheikhoo Steel
2	0.371	3	0.373	0.11	0.109	3300	4600	66200	66650	92200	93000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

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