



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
 Osmani & Company (Pvt) Ltd
 Design, Supply, Installation, Testing & Commissioning of 132/11.5 kV AIS Outdoor Substation
 No. 2 at M-3 Industrial City Near Sahianwala Interchange M-3 Motorway, Faisalabad

Reference # CED/TFL **34819** (Dr. Asif Hameed) Dated: 10-03-2020
 Reference of the request letter # CRE/M3IC/FIC-GS-02/DES/06 Dated: 07-03-2020

Tension Test Report (Page -1/2)

Date of Test 19-03-2020
 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	0.381	3	0.377	0.11	0.112	3700	5400	74200	72900	108200	106400	1.00	12.5	FF Steel
2	0.381	3	0.378	0.11	0.112	3700	5300	74200	72780	106200	104300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

- 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



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Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Engineer
 Osmani & Company (Pvt) Ltd
 Design, Supply, Installation, Testing & Commissioning of 132/11.5 kV AIS Outdoor Substation
 No. 2 at M-3 Industrial City Near Sahianwala Interchange M-3 Motorway, Faisalabad

Reference # CED/TFL **34819** (Dr. Asif Hameed) Dated: 10-03-2020
 Reference of the request letter # CRE/M3IC/FIC-GS-02/DES/07 Dated: 07-03-2020

Tension Test Report (Page -2/2)

Date of Test 19-03-2020
 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	0.380	3	0.377	0.11	0.112	4000	5100	80200	78990	102200	100800	0.90	11.3	Pak Steel
2	0.380	3	0.377	0.11	0.112	4100	5200	82200	80930	104200	102700	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.

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To,
 Resident Engineer
 NESPAK
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I. Khan) Motorway, Package-3 (Trap to Kot Belian)(M/s Jamal Industries)

Reference # CED/TFL **34827** (Dr. Asif Hameed) Dated: 12-03-2020
 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/20/1368a Dated: 15-01-2020

Tension Test Report (Page – 1/1)

Date of Test 19-03-2020
 Gauge length 2 inches
 Description W-Metal beam, Metal Spacer & Metal Post (Galvanized) Strip Tensile Test

As per AASHTO M-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Metal beam	2.00x0.30	0.60	2600	3050	4333	5083	0.50	25.00	
2		2.00x0.30	0.60	2400	3000	4000	5000	0.50	25.00	
3	Metal Spacer	2.35x0.50	1.18	4500	5900	3830	5021	0.60	30.00	
4		2.35x0.50	1.18	4500	5900	3830	5021	0.60	30.00	
5	Metal Post	2.50x0.60	1.50	5600	7600	3733	5067	0.60	30.00	
6		2.50x0.60	1.50	5450	7500	3633	5000	0.60	30.00	
Only Six 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
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To,
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **34828** (Dr. Asif Hameed)
 Reference of the request letter # KK-DIK—BR-PJ/2020/142

Dated: 13-03-2020
 Dated: 11-03-2020

Tension Test Report (Page -1/1)

Date of Test 19-03-2020
 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	4.255	32	32.05	1.25	1.251	39600	55200	69842	69790	97355	97300	1.30	16.3	Pak Steel
2	4.261	32	32.08	1.25	1.253	39400	55000	69489	69330	97002	96800	1.30	16.3	
3	4.263	32	32.08	1.25	1.253	39400	55200	69489	69300	97355	97100	1.30	16.3	
4	4.284	32	32.16	1.25	1.259	40200	56000	70900	70370	98766	98100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														
32mm Dia 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,
 Resident Engineer
 NESPAK – Zeeruk (Jv)
 China Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I. Khan)
 Motorway – Rehmani Khel to Kot Balian – Package 2C

Reference # CED/TFL **34834** (Dr. Asif Hameed) Dated: 13-03-2020
 Reference of the request letter # RE/NESPAK/P-2/CPEC-WR/493 Dated: 11-03-2020

Tension Test Report (Page -1/1)

Date of Test 19-03-2020
 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	5.345	11	1.414	1.56	1.571	53200	65800	75200	74640	93000	92400	1.50	18.8	Nomi Steel
2	5.343	11	1.414	1.56	1.571	53000	66200	74900	74380	93600	92900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#11 Bar 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,
 Chief Resident Engineer
 DOLSAR – NESPAK Jv
 Consultancy Services as Assistant to Employer’s Representative (AER) for China Pakistan
 Economic Corridor: Havelian – Thakot (120 km)(NHA Building Complex at km 123+700 Section C)
 (Pak Iron)
 Reference # CED/TFL **34835** (Dr. Asif Hameed) Dated: 13-03-2020
 Reference of the request letter # DNJV/NHA/OKK/04/08-20 Dated: 12-03-2020

Tension Test Report (Page -1/1)

Date of Test 19-03-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.421	10	10.08	0.12	0.124	4000	5600	73487	71280	102881	99800	1.00	12.5	112
2	0.416	10	10.02	0.12	0.122	4000	5650	73487	72090	103800	101900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: 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,
 Resident Engineer
 AZ Engineering Associates
 Mianwali Residency

Reference # CED/TFL **34836** (Dr. Asif Hameed)
 Reference of the request letter # AZEA/RE-Mwi/66

Dated: 13-03-2020
 Dated: 12-03-2020

Tension Test Report (Page -1/1)

Date of Test 19-03-2020
 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	0.372	3	0.373	0.11	0.109	3300	5000	66200	66600	100200	101000	1.30	16.3	
2	0.374	3	0.374	0.11	0.110	3400	5000	68200	68220	100200	100400	1.30	16.3	
3	5.095	11	1.381	1.56	1.498	49400	67000	69800	72710	94700	98700	1.40	17.5	
4	5.129	11	1.385	1.56	1.508	49800	67800	70400	72810	95800	99200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
M/S Yascon
Sialkot
(Project: RD Office/MP Hall Gwa Cantt.)(Garrison Academy 204 Bridge Coy Gwa Cantt.)

Reference # CED/TFL **34837** (Dr. Asif Hameed)
Reference of the request letter # Nil

Dated: 13-03-2020
Dated: 12-03-2020

Tension Test Report (Page -1/1)

Date of Test 19-03-2020
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	0.391	3	0.383	0.11	0.115	3700	5350	74200	70890	107200	102500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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
 Building Sub Division, Pakpattan
 (School Education Sector under construction of Additional Class Rooms Construction of 2 No.
 Class Rooms in Govt: Girls Primary School 66/D Ucharki District Pakpattan)

Reference # CED/TFL **34838** (Dr. Asif Hameed)
 Reference of the request letter # 284/SDO-PPN

Dated: 13-03-2020
 Dated: 02-03-2020

Tension Test Report (Page -1/1)

Date of Test 19-03-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	Nominal	Actual			
1	0.369	3/8	0.371	0.11	0.108	3150	4900	63200	64070	98200	99700	1.40	17.5	
2	0.379	3/8	0.376	0.11	0.111	3200	5050	64200	63370	101200	100000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: 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,
 Assistant Executive Engineer
 P. Rlys, Narowal
 The Work of External Development of Class III & IV Staff Quarters at Narowal Comprising of
 Sewerage System Roads Pavements Water Supply and Boundary Wall etc.

Reference # CED/TFL **34839** (Dr. Asif Hameed)
 Reference of the request letter # W/2-HC

Dated: 13-03-2020
 Dated: 13-03-2020

Tension Test Report (Page -1/1)

Date of Test 19-03-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	Nominal	Actual			
1	0.398	3/8	0.386	0.11	0.117	3450	5050	69200	65030	101200	95200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I. Khan) Motorway, Package-3 (Trap to Kot Belian)(M/s Jamal Industries)

Reference # CED/TFL **34840** (Dr. Asif Hameed) Dated: 13-03-2020
 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/20/1374 Dated: 17-01-2020

Tension Test Report (Page – 1/1)

Date of Test 19-03-2020
 Gauge length 2 inches
 Description W-Metal beam, Metal Post & Metal Spacer (Galvanized) Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Metal beam	2.00x0.30	0.60	2300	3000	3833	5000	0.50	25.00	
2		2.00x0.30	0.60	2400	3000	4000	5000	0.50	25.00	
3	Metal Spacer	2.35x0.50	1.18	4400	5900	3745	5021	0.50	25.00	
4		2.35x0.50	1.18	4500	5900	3830	5021	0.60	30.00	
5	Metal Post	2.50x0.60	1.50	5300	7400	3533	4933	0.60	30.00	
6		2.50x0.60	1.50	5500	7600	3667	5067	0.60	30.00	
Only Six 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,
Resident Engineer
Techno Consultant International (Pvt) Ltd
CPEC Package-1
(Structural Steel Column for Toll Plaza Canopy)

Reference # CED/TFL **34841** (Dr. Asif Hameed)
Reference of the request letter # RE/CPEC/DIK/2020/651

Dated: 17-03-2020
Dated: 12-03-2020

Tension Test Report (Page – 1/1)

Date of Test 19-03-2020
Gauge length 2 inches
Description Structural Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Angle	21.70x6.00	130.20	4000	6100	301.38	459.61	0.70	35.00	
2	Colum	22.70x12.40	281.48	10200	15200	355.49	529.74	0.60	30.00	
3	Channel	19.40x7.30	141.62	4600	6100	318.64	422.55	0.80	40.00	
4	Plate	21.30x20.10	428.13	15100	21200	346.00	485.77	0.90	45.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Four Samples for Bend Test										
Bend Test										
Strip Taken from Angle Bend Test Through 180° is Satisfactory										
Strip Taken from Colum Bend Test Through 180° is Satisfactory										
Strip Taken from Channel Bend Test Through 180° is Satisfactory										
Strip Taken from Plate Bend Test Through 180° 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