



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
 EA Consulting (Pvt) Ltd
 Sukkur - Multan Motorway Project
 Section – III
 Reference # CED/TFL **32374** (Dr. Rizwan Azam)
 Reference of the request letter # CRE/EA/M.P-III/287-2018

Dated: 04-01-2019
 Dated: 04-01-2019

Tension Test Report (Page -1/1)

Date of Test 09-01-2019
 Gauge length 8 inches
 Description Anchor Bolt Steel Bar Tensile and Bend 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	32	25.50	510.71	22500	36600	432.20	703.04	1.4	17.5	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test										
-	-	-	-	-	-	-	-	-	-	
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Resident Engineer
 NESPAK, Lahore
 Fabrication & Installation of Steel Pedestrian Bridge along Lytton Road at RD 19+377, Near
 Jain Mandar, Lahore

Reference # CED/TFL **32378** (Dr. Asad) Dated: 04-01-2019
 Reference of the request letter # 3772/Al-Furqan(J.M)/MSW/018/02 Dated: 26-10-2018

Tension Test Report (Page -1/2)

Date of Test 09-01-2019
 Gauge length 8 inches
 Description J- Anchor Bolt Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	6.091	30	31.43	-----	776.0	34600	56400	437	713	1.5	18.8	
2	7.679	35	35.29	-----	978.2	40800	66400	409	666	2.0	25.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

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Resident Engineer
NESPAK, Lahore
Fabrication & Installation of Steel Pedestrian Bridge along Lytton Road at RD 19+377, Near
Jain Mandar, Lahore

Reference # CED/TFL **32378** (Dr. Asad)

Dated: 04-01-2019

Reference of the request letter # 3772/Al-Furqan(J.M)/MSW/018/02

Dated: 26-10-2018

Slippage Test Report (Page -2/2)

Date of Test 09-01-2018

Gauge length --

Description J- Anchor Bolt Slippage Test

Sr. No.	Dia	Failure Load	Mode of Failure	Remarks
	(mm)	(kg)	---	
1	30	34800	Thread Failure	-
2	32	38000	Broken at Thread Portion	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Note: only two samples for test				

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Ref: CED/TFL/01/32384

Dated: 07-01-19

To
Resident Engineer
NESPAK
Dualization & Improvement of Old Banu Road / Domail - Khurram Road (Project (P-1))

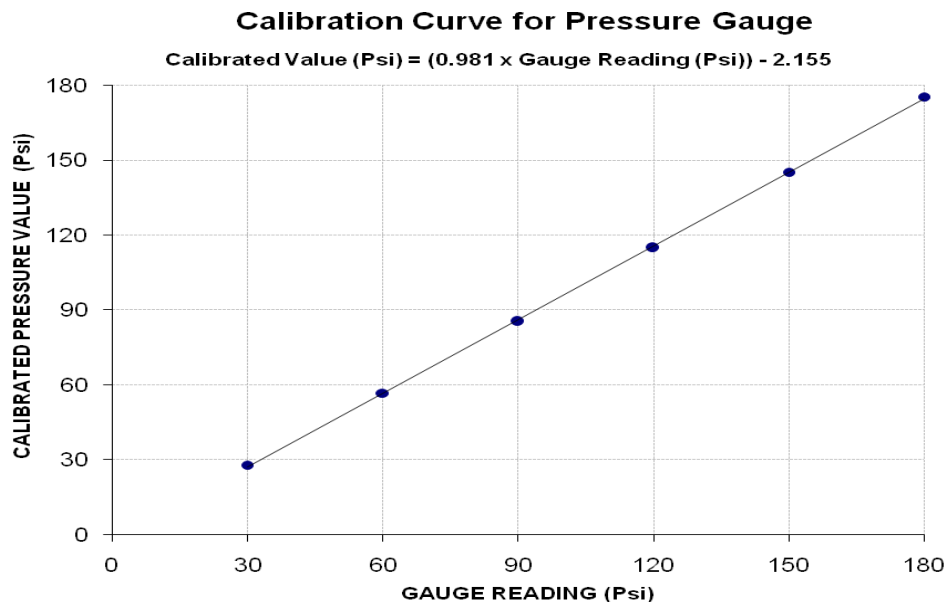
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/01/32384)**

Reference to your Letter No. OBR/KKR-02/RE/AHJ/111, dated: 02/01/2019 on the subject cited above. One Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 210 (Psi)
Calibrated Range : Zero - 180 (Psi)

Pressure Gauge Reading (Psi)	30	60	90	120	150	180
Calibrated Load (kg)	390	790	1190	1600	2020	2440
Calibrated Pressure (Psi)	28.02	56.75	85.48	114.93	145.10	175.27

The Ram Area of Calibration = 198 cm²



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Development of Graveyard Sector-V, DHA Ph-VIII)(M/s Arfco)

Reference # CED/TFL **32388** (Dr. Rizwan Azam)
Reference of the request letter # 408/241/E/Lab/400

Dated: 08-01-2019
Dated: 08-01-2019

Tension Test Report (Page -1/1)

Date of Test 09-01-2019
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	0.370	3	0.372	0.11	0.109	3400	5600	68200	68850	112300	113400	1.00	12.5	AMS Steel
2	0.376	3	0.375	0.11	0.111	3400	5700	68200	67730	114300	113600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
 ARE – ADP Projects
 NESPAK
 Protection of Chandar Bhan Flood Bund RD: 55+000 to 67+000

Reference # CED/TFL **32391** (Dr. M Rizwan Azam)
 Reference of the request letter # 3158/13/CAA/09/1256

Dated: 08-10-2018
 Dated: 20-11-2018

Tension Test Report (Page -1/1)

Date of Test 09-01-2019
 Gauge length 8 inches
 Description GI Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (Swg)	Actual (mm)	Nominal	Actual							
1	0.107	8	4.16	-----	13.6	-----	520	-----	374	0.9	11.3	
2	0.109	8	4.20	-----	13.8	-----	560	-----	397	0.9	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer-III
MM Pakistan (Pvt) Ltd
PMIC (DCRIP) Balloki

Reference # CED/TFL **32392** (Dr. Rizwan Azam)
Reference of the request letter # DCRIP/RE-III/BLK/014

Dated: 08-01-2019
Dated: 14-11-2018

Tension Test Report (Page – 1/1)

Date of Test 09-01-2019
Gauge length -----
Description GI Wire Tensile Test

Sr. No.	Weight per Unit Length	Diameter of Wire	Breaking Load		Remarks
	(kg/m)	(mm)	(kg)	(kN)	
1	0.107	4.20	560	5.49	
2	0.107	4.20	560	5.49	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
Only Two Samples for Test					

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To,
 Resident Engineer
 Mascon Associates (Pvt) Ltd
 Musfir Khana (Badami Bagh Bus Stand)

Reference # CED/TFL **32393** (Dr. Rizwan Azam)
 Reference of the request letter # MASC-RE/PG/18/5031

Dated: 08-01-2019
 Dated: 07-01-2019

Tension Test Report (Page -1/1)

Date of Test 09-01-2019
 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	0.367	3	0.371	0.11	0.108	4200	5000	84200	85860	100200	102300	0.90	11.3	
2	0.360	3	0.367	0.11	0.106	3700	4700	74200	77160	94200	98100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
 Medical Superintendent
 Nishtar Hospital Multan
 Construction of Building for New MRI Machine in Nishtar Hospital Multan

Reference # CED/TFL **32394** (Dr. Rizwan Azam)
 Reference of the request letter # 7196/NH

Dated: 08-01-2019
 Dated: 26-12-2018

Tension Test Report (Page -1/1)

Date of Test 09-01-2019
 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	0.420	3/8	0.397	0.11	0.123	4300	5500	86200	76750	110200	98200	0.90	11.3	
2	0.420	3/8	0.397	0.11	0.124	4100	5500	82200	73130	110200	98100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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To,
 Resident Engineer
 PEPAC
 Establishment of Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate,
 District Kasur (Package-H)(Lot 3-A)

Reference # CED/TFL **32395** (Dr. Rizwan Azam) Dated: 08-01-2019
 Reference of the request letter # RE/PEPAC/WWCK/P-H/70A Dated: 07-01-2019

Tension Test Report (Page -1/1)

Date of Test 09-01-2019
 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	0.363	3/8	0.368	0.11	0.107	3600	4500	72200	74400	90200	93000	1.10	13.8	
2	0.372	3/8	0.373	0.11	0.109	3600	4600	72200	72510	92200	92700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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