



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

To,

Deputy Manager
POWERCHINA SEPCO1 Electric Power Construction Co., Ltd.
Design, Manufacturing, Supply, Installation, Testing and Commission Lot-1; Extension
Works (1 x 600MVA) and Augmentation Works (3 x 160 to 3 x 250MVA) at 500kV
Nokhar Grid Station.

Reference # CED/TFL **4821** (Dr. Asad Ali)

Dated: 19-03-2024

Reference of the request letter # WB-10A-GS-SEPCO1-124

Dated: 19-03-2024

Tension Test Report (Page -1/1)

Date of Test 01-04-2024

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	0.401	10	9.84	0.12	0.118	3770	5500	69261	70540	101044	102900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Sohaib Ali (NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

Principal Engineer
NESPAK

Replacement of Elevator Ropes Installed at NESPAK House, Islamabad.

Reference # CED/TFL **4854** (Dr. M Rizwan Riaz)

Dated: 26-03-2024

Reference of the request letter # 0099/321/QAB/01/3207

Dated: 26-03-2024

Tension Test Report (Page – 1/1)

Date of Test 01-04-2024

Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	10	0.41	5800	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

I/C Testing Laboratories
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To,
M/S Premium Engineering (Private) Limited.
Lahore

Reference # CED/TFL 4877 (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 28-03-2024

Dated: 28-03-2024

Tension Test Report (Page – 1/1)

Date of Test 01-04-2024
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12	0.31	4500	
2	12	0.49	9300	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only two samples for Test				

I/C Testing Laboratoires
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To,

Proprietor
Five Star Construction Co.
Construction of Storm Water Drain @CCI Lhr Plant.

Reference # CED/TFL **4883** (Dr. M Rizwam Riaz)
Reference of the request letter # Nil

Dated: 29-03-2024
Dated: 29-03-2024

Tension Test Report (Page -1/1)

Date of Test 01-04-2024
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	0.430	10	10.19	0.12	0.126	4900	5800	90021	85490	106556	101200	0.90	11.3	
2	0.430	10	10.19	0.12	0.127	4800	5700	88184	83630	104719	99300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,

Assistant Executive Engineer-I
 Central Civil Division No. 1
 Pak PWD, Lahore
 (Strengthening of Training Activities of Pakistan Administrative Service Officers at Civil Services Academy, PAS Campus, Lahore. (Sub-Head: Construction of New Office Accommodation for MCMC / SMC at PAS Campus Lahore)

Reference # CED/TFL **4884** (Dr. M Rizwam Riaz)

Dated: 29-03-2024

Reference of the request letter # AEE-I/CCD-I/LHR/02

Dated: 06-03-2024

Tension Test Report (Page -1/1)

Date of Test 01-04-2024

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	0.374	3/8	0.374	0.11	0.110	3200	4700	64200	64160	94200	94300	1.20	15.0	Markhor Steel
2	0.373	3/8	0.374	0.11	0.110	3400	5000	68200	68360	100200	100600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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,

Assistant Project Manager – Infra and EHS
Maven Projects LLP, Islamabad
NovaCare Hospital Private Limited DHA - Phase 5, Sector D.

Reference # CED/TFL **4887** (Dr. Rizwan Riaz)

Dated: 01-04-2024

Reference of the request letter # Maven/NovaCare/EPS/Strands/01

Dated: 29-03-2024

Tension Test Report (Page – 1/1)

Date of Test 01-04-2024

Gauge length 640 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")	775.0	780.0	18400	180.50	19900	195.22	>3.50	xx
2	12.70 (1/2")	775.0	781.0	18200	178.54	19800	194.24	>3.50	xx
-			-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two samples for Test

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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

Ref: CED/TFL/04/4889

Dated: 01-04-2024

Date of Test: 01-04-2024

To,

Chief Resident Engineer
Osmani & Company (Pvt) Ltd.
AIIC, Faisalabad

(Construction of Sewer & Water Supply Networks at Main Arterial, Chiniot Sahianwala and Sem Nala Roads Including Balance Work at Mian Arterial Road and Re-Routing of Water Course due to Industrial Units in Allama Iqbal Industrial City, Near Sahianwala Interchange M-4 Motorway, Faisalabad)

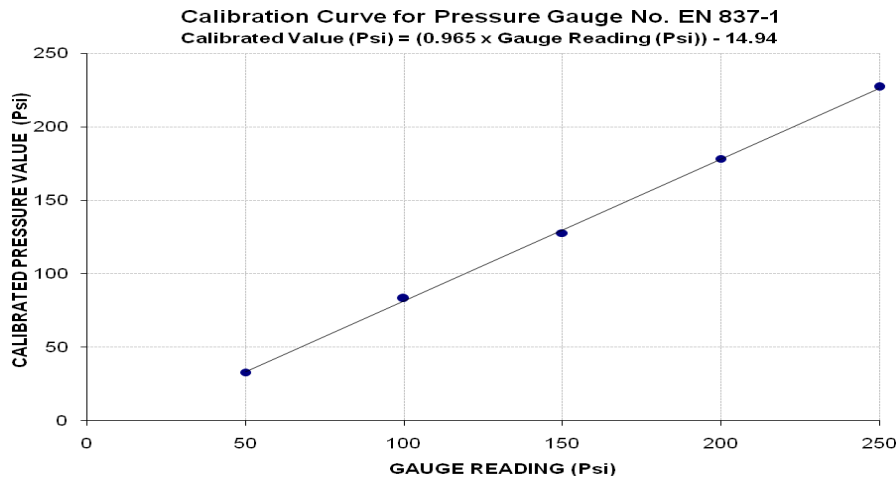
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/04/4889) (Page # 1/1)

Reference to your Letter No. CRE/AIIC-06/Lab/760, Dated: 29/03/2024 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 350 (Psi)
Calibrated Range : Zero - 250 (Psi)

Pressure Gauge Reading (Psi)	50	100	150	200	250
Calibrated Load (kg)	460	1160	1780	2480	3160
Calibrated Pressure (Psi)	33	83	128	178	227

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
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To,
 Director Projects
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **4890** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 01-04-2024
 Dated: 25-03-2024

Tension Test Report (Page -1/1)

Date of Test 01-04-2024
 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	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.411	10	9.96	0.12	0.121	3700	5200	67975	67480	95533	94900	1.40	17.5	
2	4.193	32	31.82	1.25	1.233	38600	54400	68078	69030	95944	97300	1.40	17.5	
3	5.353	36	35.95	1.58	1.573	51000	69200	71161	71450	96556	97000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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
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Pakistan. Ph: 92-42-99029202

To,

Manager
ABL – UML P-199 & 200
Allied Bank
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **4891** (Dr. M Rizwan Riaz)
Reference of the request letter # ABL-UML-AMC-QAQC; 73

Dated: 01-04-2024
Dated: 01-04-2024

Tension Test Report (Page -1/1)

Date of Test 01-04-2024
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	4.251	10	1.261	1.27	1.249	33000	53000	57300	58220	92000	93500	1.60	20.0	Batala Steel	
2	4.176	10	1.250	1.27	1.227	32800	52400	57000	58900	91000	94100	1.60	20.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only two samples for tensile and one sample for bend test															
Bend Test															
#10 Bar Bend Test Through 180° is Satisfactory															

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
Dy Dir Infra
Defence Housing Authority, Gujranwala
"Sector C"

Reference # CED/TFL **4893** (Dr. M Rizwan Riaz)
Reference of the request letter # 111/15/DD/RS/Lab/Pkg-2A/3011

Dated: 01-04-2024
Dated: 28-03-2024

Tension Test Report (Page -1/1)

Date of Test 01-04-2024
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	3100	4500	62200	62840	90200	91300	1.50	18.8	FF Steel
2	0.373	3	0.374	0.11	0.110	3300	4600	66200	66370	92200	92600	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
Shahzad Ayub Associates (SAA)
New Metro City Srailamgir

Reference # CED/TFL **4896** (Dr. Asad Ali)
Reference of the request letter # SAA-St-Rep-016

Dated: 01-04-2024
Dated: 30-03-2024

Tension Test Report (Page -1/1)

Date of Test 01-04-2024
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	0.418	3	0.396	0.11	0.123	3430	4860	68800	61480	97400	87200	1.10	13.8	FF Steel	
2	0.377	3	0.376	0.11	0.111	3980	5810	79800	79200	116500	115700	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															

Witness by M Nadeem (Senior Engineer (BSM))

I/C Testing Laboratories
UET Lahore, Pakistan.

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