



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
Osman & Company (Pvt) Ltd
Construction of Greenfield Aerodrome for General Aviation Activities at Muridke

Reference # CED/TFL 1230 (Dr. Rizwan Azam) Dated: 08-04-2022
Reference of the request letter # OCL/CAA/MAD-RE/3-2K22/033 Dated: 08-04-2022

Tension Test Report (Page – 1/1)

Date of Test 11-04-2022
Gauge length -----
Description Tension Wire Tensile Test

Sr. No.	Measure Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.00	360	3.53	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one Sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Team Leader IBC
 Islam Barrage Consultants (IBC)
 Rehabilitation and Modernization of Islam Barrage
 Construction of Building at Islam Barrage Irrigation Colony
 (Agha Steel)
 Reference # CED/TFL 1231 (Dr. Rizwan Azam)
 Reference of the request letter # IBC/16.1/1599

Dated: 08-04-2022
 Dated: 07-04-2022

Tension Test Report (Page -1/1)

Date of Test 11-04-2022
 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	0.375	3	0.375	0.11	0.110	3500	4500	70200	69960	90200	90000	1.10	13.8	RS-1
2	0.374	3	0.374	0.11	0.110	3600	4500	72200	72270	90200	90400	1.10	13.8	RS-2
3	0.362	3	0.368	0.11	0.106	3500	4500	70200	72440	90200	93200	1.00	12.5	RS-3
4	0.373	3	0.374	0.11	0.110	3600	4500	72200	72380	90200	90500	1.00	12.5	RS-4
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory (RS-5)														
#3 Bar Bend Test Through 180° is Satisfactory (RS-6)														

I/C Testing Laboratoires
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const of Entry Gate No. 6, Sec-4 (Rahbar), DHA Phas-XI) – (M/s Fauz Eng Ltd)

Reference # CED/TFL 1232 (Dr. Rizwan Azam)
Reference of the request letter # 408/241/32/Lab/93/1600

Dated: 11-04-2022
Dated: 08-04-2022

Tension Test Report (Page -1/1)

Date of Test 11-04-2022
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	0.382	3	0.378	0.11	0.112	3200	4600	64200	62760	92200	90300	1.40	17.5	FF Steel
2	0.373	3	0.374	0.11	0.110	3200	4500	64200	64320	90200	90500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S United Wire Industries (Pvt) Ltd
Lahore

Reference # CED/TFL **1235** (Dr. Asif Hameed)
Reference of the request letter # UWIL/D-810

Dated: 11-04-2022

Dated: 08-04-2022

Tension Test Report (Page – 1/1)

Date of Test 11-04-2022
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	15.24 (0.6")	1102.0	1104.0	24600	241.33	27800	272.72	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S United Wire Industries (Pvt) Ltd
Lahore

Reference # CED/TFL **1236** (Dr. Asif Hameed)
Reference of the request letter # UWIL/D-810-A

Dated: 11-04-2022

Dated: 08-04-2022

Tension Test Report (Page – 1/1)

Date of Test 11-04-2022
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	15.24 (0.6")	1102.0	1101.0	24400	239.36	27600	270.76	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
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To,
 Syed Hassan Raza
 H. No. 1910-Y-Ph.7
 D.H.A. Lahore

Reference # CED/TFL 1237 (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 11-04-2022
 Dated: 11-04-2022

Tension Test Report (Page -1/1)

Date of Test 11-04-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.378	3	0.376	0.11	0.111	3800	5000	76200	75380	100200	99200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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Ref: CED/TFL/04/1239

Dated: 11-04-2022

Dated of Test: 11-04-2022

To
Engineer's Representative
NESPAK
Construction of Additional Block at Pakistan Engineering Council (PEC)
Headquarters, G-5/2, Islamabad

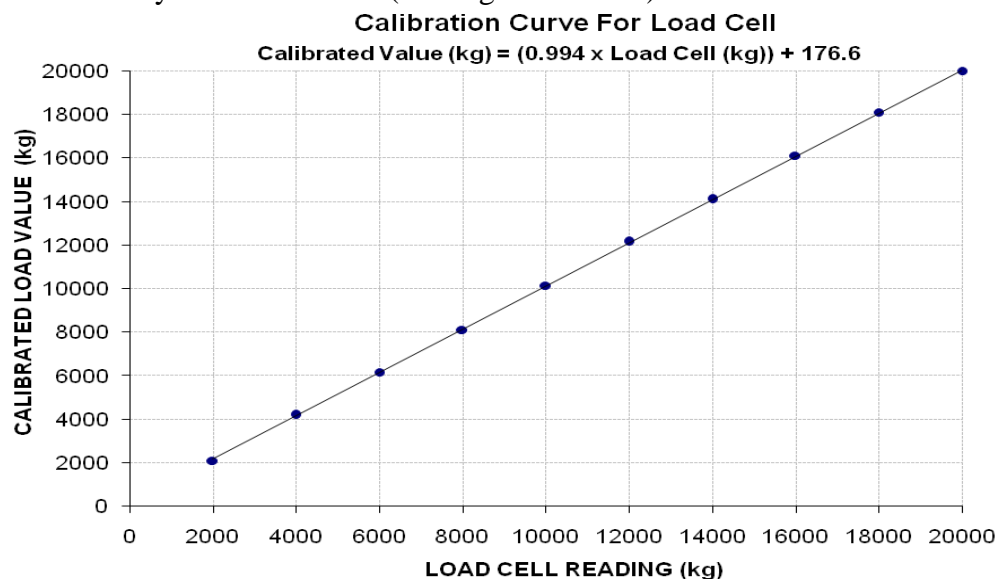
Subject: - CALIBRATION OF LOAD CELL (MARK: TFL/04/1239) (Page -1/1)

Reference to your Letter No. 4125/321/NS/03/375, Dated: 07/04/2022 on the subject cited above. One Load Cell as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 20000 (kg)
Calibrated Range : Zero - 20000 (kg)

Load Cell Reading (kg)	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000
Calibrated Load (kg)	2100	4200	6150	8100	10150	12150	14100	16100	18100	20000

Witness by Mudassar Zafar (Sr. Engr. NESPAK)



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To,
 Project Manager
 MS Tower Developers
 Construction of MS Tower at Plot 450, 451 Johar Town, Lahore

Reference # CED/TFL 1240 (Dr. Qasim Khan)
 Reference of the request letter # MST/UET/2022/S-003

Dated: 11-04-2022
 Dated: 09-04-2022

Tension Test Report (Page -1/1)

Date of Test 11-04-2022
 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	0.375	3	0.375	0.11	0.110	4600	5400	92200	92040	108200	108100	0.80	10.0	Amreli Steel
2	0.379	3	0.377	0.11	0.111	4600	5300	92200	90960	106200	104800	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														

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