



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/02/931
2022

Dated: 22-02-

Dated of Test: 02-03-2022

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

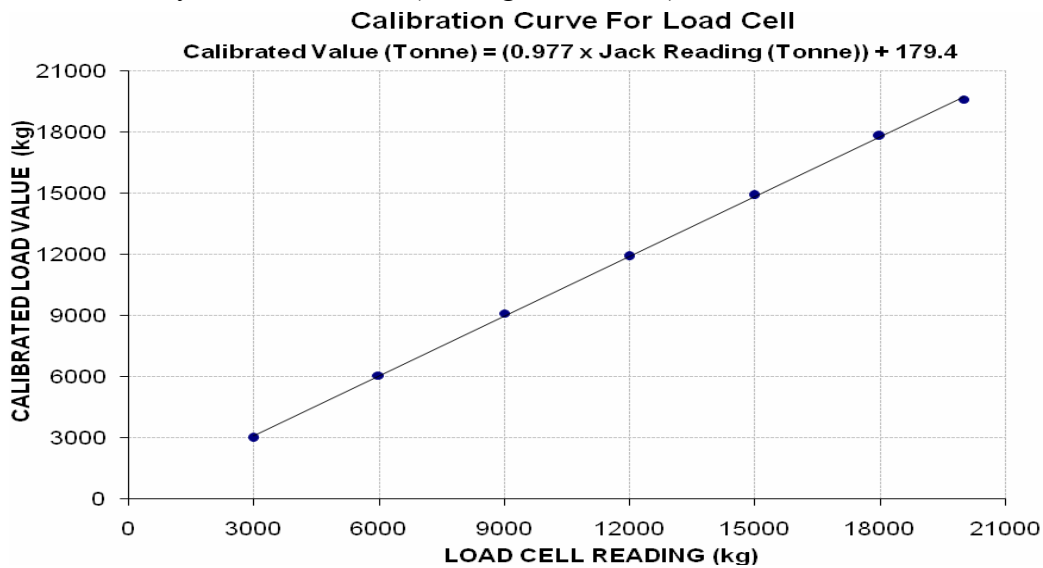
Subject: - **CALIBRATION OF LOAD CELL (MARK: TFL/02/931)** (Page -1/1)

Reference to your Letter No. 4125/321/NS/03/347, Dated: 18/02/2022 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)	3000	6000	9000	12000	15000	18000	20000
Calibrated Load (kg)	3000	6050	9100	11900	14900	17800	19600

Witness by Mudassar Zafar (Sr. Engr. NESPAK)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Izhar Concrete (Pvt) Ltd.
New Garden Town, Lahore

Reference # CED/TFL **964** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 28-02-2022

Dated: 23-02-2022

Tension Test Report (Page -1/1)

Date of Test 02-03-02-2022
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	9.53 (3/8")	432.0	449.0	10200	100.06	10900	106.93	>3.50	xx
2	9.53 (3/8")	432.0	442.0	10200	100.06	11000	107.91	>3.50	xx
3	9.53 (3/8")	432.0	444.0	10200	100.06	11000	107.91	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only three samples for Test									

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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL 971 (Dr. Asif Hameed)
Reference of the request letter # IHPL/Steel/0175

Dated: 28-02-2022
Dated: 25-02-2022

Tension Test Report (Page -1/1)

Date of Test 02-03-2022
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	0.381	3	0.377	0.11	0.112	3700	5200	74200	72880	104200	102500	1.10	13.8	PCS
2	0.383	3	0.379	0.11	0.113	3700	5250	74200	72370	105200	102700	1.00	12.5	
3	0.379	3	0.377	0.11	0.111	3850	5250	77200	76120	105200	103800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Engr. Ali Husnain Khan (Kingcreate Builders) & Rafi Ullah (IHPL)

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

Reference # CED/TFL **983** (Dr. Ali Ahmed)
Reference of the request letter # 4125/321/NS/03/353

Dated: 01-03-2022
Dated: 25-02-2022

Tension Test Report (Page -1/2)

Date of Test 02-03-2022
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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	784.0	17300	169.71	19500	191.30	198	>3.50	xxx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only one sample for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

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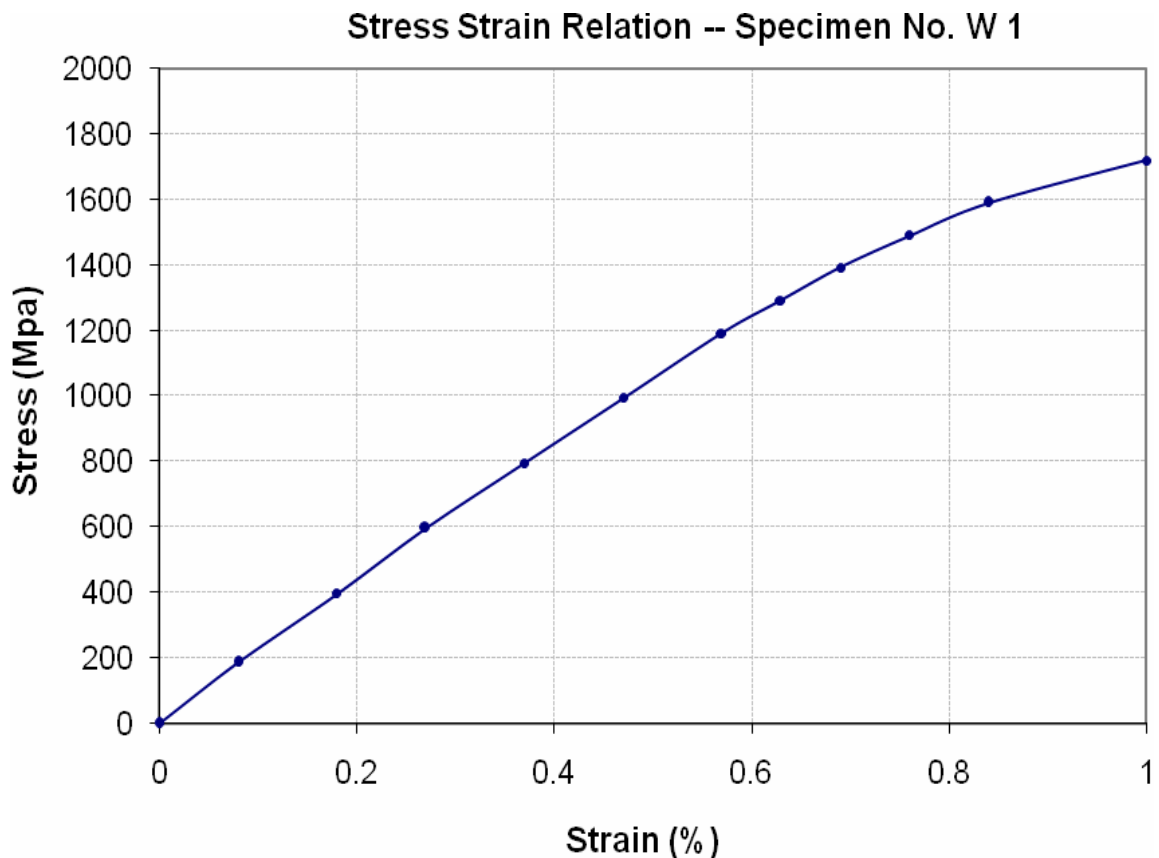
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To,
Engineer's Representative
NESPAK
Construction of Additional Block at Pakistan Engineering Council (PEC) Headquarters, G-5/2,
Islamabad
(WMI)

Reference # CED/TFL **983** (Dr. Ali Ahmed)
Reference of the request letter # 4125/321/NS/03/353

Dated: 01-03-2022
Dated: 25-02-2022

Graph (Page – 2/2)



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To,
M/S Transtech Engineering Company
NESPAK-CMEC
PTPL
Construction of 1263 MW Punjab Thermal Power Plant, Jhang (F.F Steel)

Reference # CED/TFL **984** (Dr. Ali Ahmed) Dated: 01-03-2022
Reference of the request letter # TEC/UET/22012301 Dated: 23-01-2022

Tension Test Report (Page -1/1)

Date of Test 02-03-2022
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	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.262	32	32.08	1.25	1.253	37400	50400	65962	65800	88889	88700	1.70	21.3	60
2	4.259	32	32.07	1.25	1.252	37000	50200	65256	65150	88537	88400	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Infra Dev Works of Sec-4, Block-Q (Rahbar) DHA Phase-XI) – (M/s DHA-C)

Reference # CED/TFL **985** (Dr. Ali Ahmed)
 Reference of the request letter # 408/241/32/Lab/61/52

Dated: 01-03-2022
 Dated: 01-03-2022

Tension Test Report (Page -1/1)

Date of Test 02-03-2022
 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	4.328	10	1.273	1.27	1.272	38600	56400	67000	66870	97900	97800	1.20	15.0	Moiz Steel
2	4.380	10	1.280	1.27	1.287	41400	57600	71900	70880	100000	98700	1.50	18.8	
3	4.345	10	1.275	1.27	1.277	37200	55000	64600	64200	95500	95000	1.70	21.3	
4	4.336	10	1.274	1.27	1.274	41400	57200	71900	71600	99300	99000	1.50	18.8	
5	4.416	10	1.286	1.27	1.298	42000	57800	72900	71320	100400	98200	1.60	20.0	
6	4.346	10	1.275	1.27	1.278	37600	55200	65300	64870	95800	95300	1.70	21.3	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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To,
 Assistant Project Engineer
 Defence Housing Authority, Gujranwala
 Construction of Villas (Block – A & D)

Reference # CED/TFL **987** (Dr. Asif Hameed)
 Reference of the request letter # 111/3/APE Bldgs/Gen/14

Dated: 02-03-2022
 Dated: 24-02-2022

Tension Test Report (Page -1/1)

Date of Test 02-03-2022
 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	0.381	3	0.377	0.11	0.112	3380	4740	67800	66600	95000	93400	1.20	15.0	SJ Steel
2	0.366	3	0.370	0.11	0.108	3210	4590	64400	65750	92000	94100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Resident Engineer
 G3 Engineering Consultants (Pvt) Ltd
 Construction of DHA Newlife Residency Apartments at 273/1 Q Block Phase-II DHA, Lahore

Reference # CED/TFL **990** (Dr. Asif Hameed) Dated: 02-03-2022
 Reference of the request letter # G3/DHA-NLD/RE/039 Dated: 02-03-2022

Tension Test Report (Page -1/1)

Date of Test 02-03-2022
 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	0.376	3	0.375	0.11	0.111	3700	5200	74200	73760	104200	103700	1.40	17.5	
2	0.386	3	0.380	0.11	0.113	3900	5100	78200	75760	102200	99100	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														

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