



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/09/3950

Dated: 21-09-2023

Date of Test: 25-09-2023

To,

Resident Engineer
NESPAK

Development of Signal Free Corridor from Main Boulevard Gulberg (Center Point) to Walton Road (Defence Morr), - Underpass at Khalid Butt Chowk, Lahore.

Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/02/2804) (Page # 1/1)

Reference to your Letter No. 3772/103/KBC/SA/04/19, Dated: 20/09/2023 on the subject cited above. Three Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 50 (mm)
Calibrated Range : Zero - 50 (mm)

Standard Reading	Dial Gauge Readings		
	Dial Gauge No. I (8822007)	Dial Gauge No. II (8115815)	Dial Gauge No. III (8A03442)
400	382	394	395
800	782	795	795
1200	1181	1194	1195
1600	1581	1594	1595
2000	1982	1995	1995
2400	2385	2395	2396
2800	2783	2796	2796
3200	3184	3196	3196
3600	3584	3596	3597
4000	3984	3998	3998
4400	4385	4398	4399
4800	4785	4798	4797
5000	4985	4997	4998

Witness by M Saleem (Material Engineer NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
Project Manager
Imperium Developers
Construction of Sixty6 at Gulberg-III, Lahore

Reference # CED/TFL **3952** (Dr. M Kashif)
Reference of the request letter # IMP/66/04/85

Dated: 21-09-2023
Dated: 21-09-2023

Tension Test Report (Page -1/1)

Date of Test 25-09-2023
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	0.350	3	0.362	0.11	0.103	3000	4600	60200	64280	92200	98600	1.20	15.0	
2	0.356	3	0.365	0.11	0.104	3000	4600	60200	63280	92200	97100	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														

Witness by M Husnain Imran (Site Engr. Imperium Developers)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer (QA/QC Department)
 Bahria Town Private Limited
 Masjid at Bahria Rose Garden Thokar.

Reference # CED/TFL **3955** (Dr. M Kashif)
 Reference of the request letter # QA/QC-Steel-3344

Dated: 22-09-2023
 Dated: 21-09-2023

Tension Test Report (Page -1/1)

Date of Test 25-09-2023
 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	0.374	3	0.374	0.11	0.110	3900	4900	78200	78160	98200	98200	1.20	15.0	
2	0.374	3	0.374	0.11	0.110	3900	4800	78200	78210	96200	96300	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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To,

Sub Divisional Officer
 Sub Division No. 17
 GOTR-I, Lahore
 (Improvement & Renovation of Dilapidated House in GORs & Government Colonies,
 Lahore (8-A, Club Road, GOR-I, Lahore)

Reference # CED/TFL **3956** (Dr. M Kashif)
 Reference of the request letter # SDO/172

Dated: 22-09-2023
 Dated: 28-04-2023

Tension Test Report (Page -1/1)

Date of Test 25-09-2023
 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	0.375	3/8	0.375	0.11	0.110	3600	4800	72200	71980	96200	96000	1.10	13.8	
2	0.375	3/8	0.374	0.11	0.110	3600	4900	72200	72050	98200	98100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Lahore Ring Road Southern Loop (SL-3) Project

Reference # CED/TFL **3962** (Dr. M Kashif)
 Reference of the request letter # Nespak/LRRA/MNA/SL-3/030

Dated: 22-09-2023
 Dated: 19-09-2023

Tension Test Report (Page -1/1)

Date of Test 25-09-2023
 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	4.173	10	1.250	1.27	1.226	39600	54400	68800	71170	94500	97800	1.60	20.0	Mughal Steel
2	4.219	10	1.257	1.27	1.240	39800	54600	69100	70740	94800	97100	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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To,

Chief Engineer
 Zaitoon
 New Lahore City
 Construction of Jamia Masjid by Al Mustafa Contractor, New Lahore City

Reference # CED/TFL **3967** (Dr. M Kashif)
 Reference of the request letter # NLC/CE/Const/90

Dated: 25-09-2023
 Dated: 22-09-2023

Tension Test Report (Page -1/1)

Date of Test 25-09-2023
 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	0.384	3	0.379	0.11	0.113	3800	5100	76200	74200	102200	99600	1.10	13.8	FF Steel
2	0.384	3	0.379	0.11	0.113	3800	5100	76200	74140	102200	99600	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														

Witness by M Azhar Rais (Asst. Lab Incharge, Zaitoon)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/09/3971

Dated: 25-09-2023

Dated of Test: 25-09-2023

To

M/S Amjad Engineering Services
Lahore

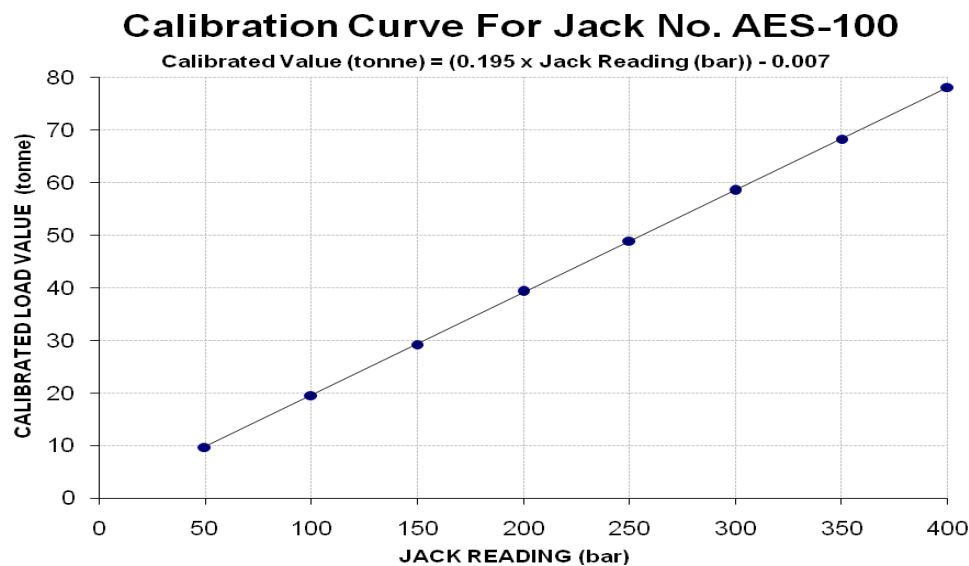
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/09/3971)

Reference to your Letter No. 0923, Dated: 25/09/2023 on the subject cited above. One Hydraulic Jack (Jack No. AES-100, Gauge No. AES-100) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 700 (bar)
Calibrated Range : Zero - 400 (bar)

Hydraulic Jack Reading (bar)	50	100	150	200	250	300	350	400	
Calibrated Load	(kg)	9700	19500	29200	39300	48900	58500	68300	78100
	Tonne	9.70	19.50	29.20	39.30	48.90	58.50	68.30	78.10
Calibrated Pressure (bar)	50	100	150	202	251	301	351	401	

1 Tonne = 1000 kg, The Ram Area of Jack = 190.80 cm²



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