



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/02/36065

Dated: 10-02-2021

Dated of Test: 11-02-2021

To
Resident Engineer
NESPAK
Construction of High Level Bridge over Racy Nullah Tahsil Jand Distrcit Attock

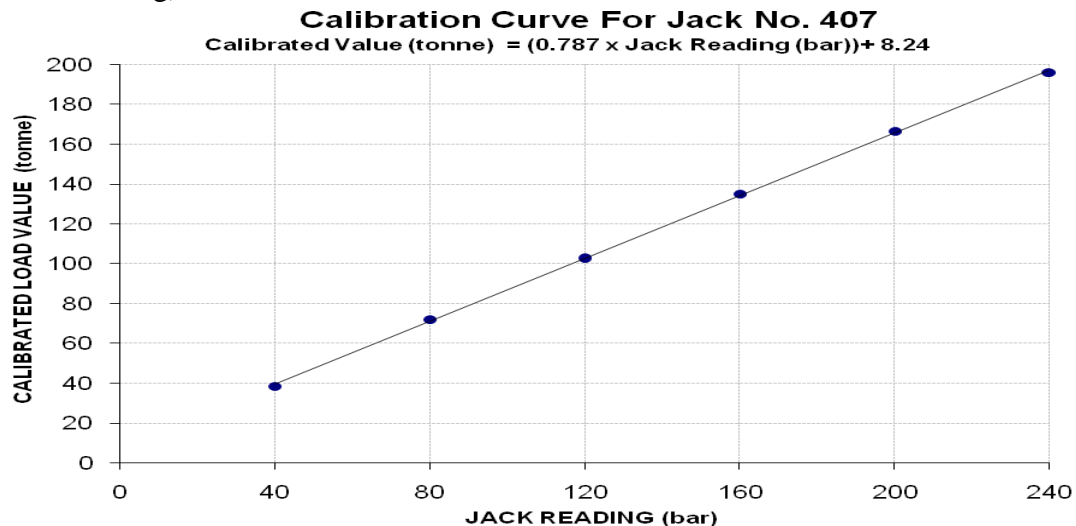
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/02/36065) (Page -1/2)

Reference to your Letter No. 3126/RE/ADP/SUJ/03/36, dated: 09/02/2021 on the subject cited above. One Hydraulic Jack (Jack No. 407, Gauge No. SF 407) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 240 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	
Calibrated Load	(kg)	38600	72200	102600	135000	166600	196000
	(Tonne)	38.60	72.20	102.60	135.00	166.60	196.00
Calibrated Pressure (bar)	51.55	96.42	137.02	180.29	222.49	261.75	

(1 Tonne = 1000 kg) The Ram Area of Jack = 734.35 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To
Resident Engineer
NESPAK
Construction of High Level Bridge over Racy Nullah Tahsil Jand Distrcit Attock

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/02/36065) (Page -2/2)

Reference to your Letter No. 3126/RE/ADP/SUJ/03/36, dated: 09/02/2021 on the subject cited above. One Hydraulic Jack (Jack No. 408, Gauge No. SF 408) as received by us has been calibrated. The results are tabulated as under:

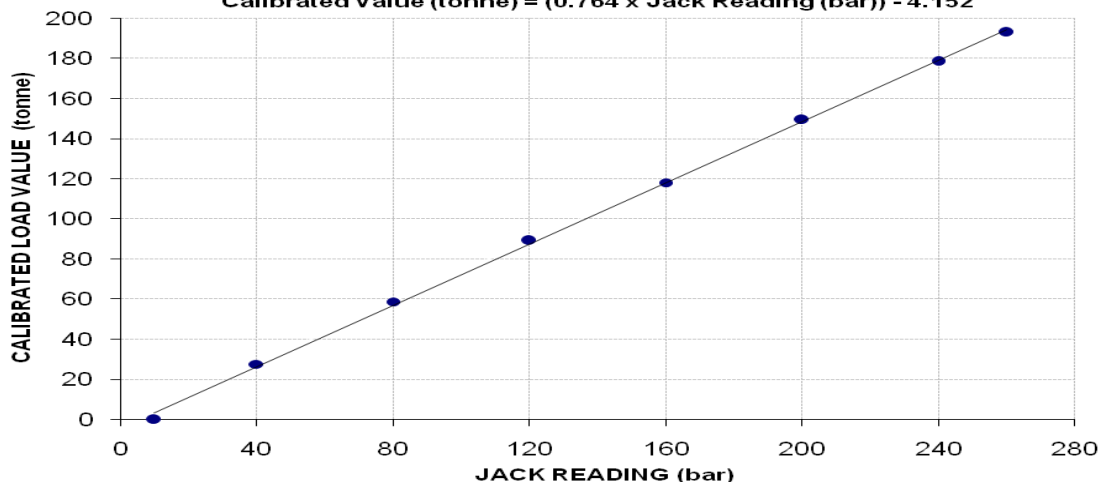
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)	10	40	80	120	160	200	240	260	
Calibrated Load	(kg)	0	27600	58800	89200	118200	149400	178600	193000
	(Tonne)	0	27.60	58.80	89.20	118.20	149.40	178.60	193.00
Calibrated Pressure (bar)	0	36.88	78.57	119.18	157.93	199.62	238.64	257.88	

(1 Tonne = 1000 kg) The Ram Area of Jack = 733.975 cm²

Calibration Curve For Jack No. 408

Calibrated Value (tonne) = (0.764 × Jack Reading (bar)) - 4.152



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To,
 Resident Engineer
 ACE, Danish School
 Mankera Residency
 Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar

Reference # CED/TFL **36067** (Dr. Usman Akmal) Dated: 10-02-2021
 Reference of the request letter # ACE/RE-PDS/MNK/BHK/21/376 Dated: 06-02-2021

Tension Test Report (Page -1/1)

Date of Test 11-02-2021
 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	0.366	3/8	0.370	0.11	0.108	3000	5000	60200	61480	100200	102500	1.20	15.0	
2	0.369	3/8	0.372	0.11	0.109	2500	4100	50100	50790	82200	83300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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,
M. Shahbaz Iqbal
BPS (Pvt) Ltd
Alpha Homes (Apartments) Project

Reference # CED/TFL **36068** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 10-02-2021
Dated: 10-02-2021

Tension Test Report (Page -1/2)

Date of Test 11-02-2021
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	0.368	3	0.371	0.11	0.108	3600	5800	72200	73300	116300	118100	1.10	13.8	
2	0.372	3	0.373	0.11	0.109	3500	5800	70200	70550	116300	117000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two sample for bend test														
Bend Test														
#3 Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M. Shahbaz Iqbal
BPS (Pvt) Ltd
Alpha Homes (Apartments) Project

Reference # CED/TFL **36068** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 10-02-2021
Dated: 10-02-2021

Tension Test Report (Page -2/2)

Date of Test 11-02-2021
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	4.109	10	1.240	1.27	1.208	34200	55000	59400	62410	95500	100400	1.60	20.0	
2	4.089	10	1.237	1.27	1.202	33000	54800	57300	60510	95200	100500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two sample for bend test														
Bend Test														
#10 Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/02/36069

Dated: 10-02-2021

Dated of Test: 11-02-2021

To
Senior Engineer
Mansoor Mazhar & Associates
Park View Villas Lahore
(Vision Developers Private Limited)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page # 1/2)

Reference to your letter No. MMA/PVV/MH/07, dated 28.01.2021 on the subject cited above. Two R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.82	7.30	1.34	1.00	2.02	4400	5100	1326	1536
2	12	7.87	7.30	1.35	1.00	2.04	3800	5300	1143	1594

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/02/36069

Dated: 10-02-2021

Dated of Test: 11-02-2021

To
Senior Engineer
Mansoor Mazhar & Associates
Park View Villas Lahore
(Vision Developers Private Limited)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page # 2/2)

Reference to your letter No. MMA/PVV/MH/07, dated 28.01.2021 on the subject cited above. Two R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.68	7.30	0.92	0.63	1.72	7900	10800	3798	5192
2	9	7.74	7.31	0.92	0.63	1.73	7500	9300	3611	4478

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 Orbit Housing
 The Springs, Apartment Lahore

Reference # CED/TFL **36072** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 11-02-2021
 Dated: 11-02-2021

Tension Test Report (Page -1/1)

Date of Test 11-02-2021
 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	0.371	3	0.372	0.11	0.109	3300	4900	66200	66750	98200	99200	1.20	15.0	
2	0.377	3	0.375	0.11	0.111	3300	4900	66200	65720	98200	97600	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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