



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
 NESPAK

Construction of Pedestrian Overhead Bridge at Shabbir Usmnai Road Infront of Jinnah Hospital,
 Lahore

Reference # CED/TFL 35835 (Dr. Ali Ahmed)

Dated: 29-12-2020

Reference of the request letter # 4047-R2/13/RK/133

Dated: 23-12-2020

Tension Test Report (Page – 1/6)

Date of Test 13-01-2021

Gauge length 2 inches

Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)										
1	Base Plate	30x30x1-1/2	25.30x39.80	1006.94	40000	57400	389.70	559.21	0.90	45.00	
2			25.30x39.80	1006.94	39800	57200	387.75	557.26	1.00	50.00	
3	M.S Pipe	6	25.60x6.45	165.12	6400	7000	380.23	415.88	0.85	42.50	
4			25.60x6.45	165.12	6400	7000	380.23	415.88	0.80	40.00	
5	Sq. Pipe	2x1-1/2x1/8	25.60x4.40	112.64	4300	4600	374.49	400.62	0.60	30.00	
6			25.60x4.40	112.64	5100	5500	444.17	479.00	0.50	25.00	
7	Girder	7x18x3/4x1/2	25.60x14.40	368.64	12000	20200	319.34	537.55	0.70	35.00	
8			25.60x14.40	368.64	12000	20700	319.34	550.85	0.70	35.00	
9	Angle	1-1/4x1-1/4x3/16	14.40x4.00	57.60	2300	3500	391.72	596.09	0.45	22.50	
10			14.40x4.00	57.60	2300	3500	391.72	596.09	0.45	22.50	
Only Ten Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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NESPAK
Construction of Pedestrian Overhead Bridge at Shabbir Usmnai Road Infront of Jinnah Hospital,
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Reference # CED/TFL **35835** (Dr. Ali Ahmed) Dated: 29-12-2020
Reference of the request letter # 4047-R2/13/RK/133 Dated: 23-12-2020

Weight & Size Test Report (Page – 2/6)

Date of Test 13-01-2021
Description Base Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(inch)	(g)	(cm)	(cm)	(kg/m ²)	(mm)	
1	30x30x1-1/2	28900	61.00	15.50	305.66	39.80	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
NESPAK
Construction of Pedestrian Overhead Bridge at Shabbir Usmnai Road Infront of Jinnah Hospital,
Lahore
Reference # CED/TFL **35835** (Dr. Ali Ahmed) Dated: 29-12-2020
Reference of the request letter # 4047-R2/13/RK/133 Dated: 23-12-2020

Weight & Size Test Report (Page – 3/6)

Date of Test 13-01-2021
Description MS Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	6	11700	48.20	24.27	167.00	154.00	6.50	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

I/C Testing Laboratories
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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Construction of Pedestrian Overhead Bridge at Shabbir Usmnai Road Infront of Jinnah Hospital,
Lahore
Reference # CED/TFL **35835** (Dr. Ali Ahmed) Dated: 29-12-2020
Reference of the request letter # 4047-R2/13/RK/133 Dated: 23-12-2020

Weight & Size Test Report (Page – 4/6)

Date of Test 13-01-2021
Description Sq Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Outer Dimension		Wall Thickness	Remark
					X	Y		
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	2x1-1/2x1/8	3750	53.00	7.08	70.00	51.80	4.50	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

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To,
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NESPAK
Construction of Pedestrian Overhead Bridge at Shabbir Usmnai Road Infront of Jinnah Hospital,
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Reference # CED/TFL **35835** (Dr. Ali Ahmed) Dated: 29-12-2020
Reference of the request letter # 4047-R2/13/RK/133 Dated: 23-12-2020

Weight & Size Test Report (Page – 5/6)

Date of Test 13-01-2021
Description Girder Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (bf)	Flange Thickness (tf)	Web Thickness (tw)	Remark
	(inch)	(g)	(cm)	(kg/m)	mm	mm	mm	mm	
1	7x18x3/4x1/2	50100	45.30	110.60	455.00	175.00	24.80	14.50	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only One Sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
NESPAK
Construction of Pedestrian Overhead Bridge at Shabbir Usmnai Road Infront of Jinnah Hospital,
Lahore
Reference # CED/TFL **35835** (Dr. Ali Ahmed) Dated: 29-12-2020
Reference of the request letter # 4047-R2/13/RK/133 Dated: 23-12-2020

Weight & Size Test Report (Page – 5/5)

Date of Test 13-01-2021
Description Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Wall Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	1-1/4x1-1/4x3/16	1100	54.60	2.01	35.00	35.00	4.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

I/C Testing Laboratories
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Project Manger
 Hassan Construction Company
 (M/s Honda Atlas Cars (Pakistan) ltd., 43-km, Multan Road Manga Mandi Lahore)

Reference # CED/TFL **35907** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 11-01-2021
 Dated: 11-01-2021

Tension Test Report (Page -1/1)

Date of Test 13-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.416	3/8	0.395	0.11	0.122	4000	5100	80200	72080	102200	91900	1.20	15.0	
2	0.416	3/8	0.395	0.11	0.122	4100	5100	82200	73920	102200	92000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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

To,
 Sub Divisional Officer
 Buildings Sub Division
 Shakkot
 (Construction of Record Room in Judicial Complex Shashkot District Nankana Sahib)

Reference # CED/TFL **35908** (Dr. Ali Ahmed)

Dated: 11-01-2021

Reference of the request letter # 2392/SDO/BSO/SKT

Dated: 10-11-2020

Tension Test Report (Page -1/1)

Date of Test 13-01-2021

Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3/8	0.373	0.11	0.109	3800	5000	76200	76760	100200	101000	1.00	12.5	
2	0.373	3/8	0.373	0.11	0.110	4000	5100	80200	80480	102200	102700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
XEN
Officer Commanding
702 Pak Works Section
CA No. CEA-01/NZ/2021 – Const of 1 x 192 Men SM BK, 70 Punjab at Upper Jari (M/s
Tajarat Developers)
Reference # CED/TFL **35909, 934** (Dr. Ali Ahmed) Dated: 11-01-2021
Reference of the request letter # 600014/E-6 Dated: 05-01-2021

Tension Test Report (Page -1/1)

Date of Test 13-01-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.378	3/8	0.376	0.11	0.111	3300	5100	66200	65500	102200	101300	1.20	15.0	
2	0.376	3/8	0.375	0.11	0.111	3200	5100	64200	63820	102200	101800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

Witness by M. Aftab Hussain (Sub Engr. M.E.S.)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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

To,
 Chief Executive
 Technical Associates Pakistan (Private) Ltd
 Construction of New Fence Work at Lal Suhanara Bahawalpur

Reference # CED/TFL **35910** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 11-01-2021
 Dated: 11-01-2021

Tension Test Report (Page -1/)

Date of Test 13-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3/8	0.375	0.11	0.111	3000	4500	60200	59790	90200	89700	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and two samples 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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Test Floor Laboratory
Department of Civil Engineering
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To,
 Sub Divisional Officer
 Buildings Sub Division
 Nankana Sahib
 (Reconstruction of Dangerous School Building at GGES Hallan Syedan District Nankana Sahib)(EMIS Code 35610091)
 Reference # CED/TFL 35912 (Dr. Ali Ahmed) Dated: 11-01-2021
 Reference of the request letter # 400/SDO/BSD.NNS Dated: 04-12-2020

Tension Test Report (Page -1/2)

Date of Test 13-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3/8	0.374	0.11	0.110	3900	5100	78200	78440	102200	102600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and two samples 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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Department of Civil Engineering
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To,
 Sub Divisional Officer
 Buildings Sub Division
 Nankana Sahib
 (Reconstruction of Dangerous School Building at GPS Malka Mouj District Nankana Sahib)
 (EMIS Code 35610387)
 Reference # CED/TFL **35912** (Dr. Ali Ahmed) Dated: 11-01-2021
 Reference of the request letter # 401/SDO/BSO.NNS Dated: 04-12-2020

Tension Test Report (Page -2/2)

Date of Test 13-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3/8	0.372	0.11	0.108	3900	5000	78200	79250	100200	101600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Sub Divisional Officer
 Buildings Sub Division
 Assembly, Lahore
 (Construction of MPA Hostel Phase-II Lahore(Group No. 02))

Reference # CED/TFL **35914** (Dr. Ali Ahmed)
 Reference of the request letter # 19

Dated: 11-01-2021
 Dated: 06-01-2021

Tension Test Report (Page -1/1)

Date of Test 13-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3/8	0.372	0.11	0.108	3200	4700	64200	65060	94200	95600	1.50	18.8	
2	0.363	3/8	0.369	0.11	0.107	3200	4700	64200	66050	94200	97100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Manager Civil Works
 Nishat Mills Limited Lahore
 Nishat Apparel Garment Unit Lahore

Reference # CED/TFL **35917** (Dr. Ali Ahmed)
 Reference of the request letter # NA/GU/ST/002

Dated: 12-01-2021
 Dated: 07-01-2021

Tension Test Report (Page -1/1)

Date of Test 13-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.409	10	9.93	0.12	0.120	3700	5000	67975	67910	91858	91800	1.20	15.0	Afco Steel
2	0.365	10	9.39	0.12	0.107	3700	5000	67975	75970	91858	102700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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

To,
 Resident Engineer
 NESPAK
 Construction of DHA Office Complex, DHA Bahawalpur

Reference # CED/TFL **35918** (Dr. Ali Ahmed)
 Reference of the request letter # 4401/NY/05/35

Dated: 12-01-2021
 Dated: 07-01-2021

Tension Test Report (Page -1/1)

Date of Test 13-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Nominal (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3	0.373	0.11	0.109	3500	4800	70200	70740	96200	97100	1.30	16.3	Kamran Steel
2	0.368	3	0.371	0.11	0.108	3400	4800	68200	69220	96200	97800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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

To,
 Resident Engineer
 NESPAK
 Development of Infrastructure in LDA City, Lahore (Package 2 of Development Area - 1)

Reference # CED/TFL **35920** (Dr. Ali Ahmed)

Dated: 12-01-2021

Reference of the request letter # 4047/13/OH/04-KRC/125

Dated: 01-01-2021

Tension Test Report (Page -1/1)

Date of Test 13-01-2021

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Nominal (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	3000	4400	60200	61210	88200	89800	1.70	21.3	FF Steel
2	0.376	3	0.375	0.11	0.110	3400	4900	68200	67860	98200	97800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/01/35922

Dated: 12-01-2021

Dated of Test: 13-01-2021

To
M/S StrongForce Private Limited
Lahore
(Portable Block Foundation for AJAX Compressor at United Energy Pakistan Ltd)

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35922) (Page -1/1)

Reference to your Letter No. L2021-01-11380, dated: 12/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 102, Gauge No. SF 102) as received by us has been calibrated. The results are tabulated as under:

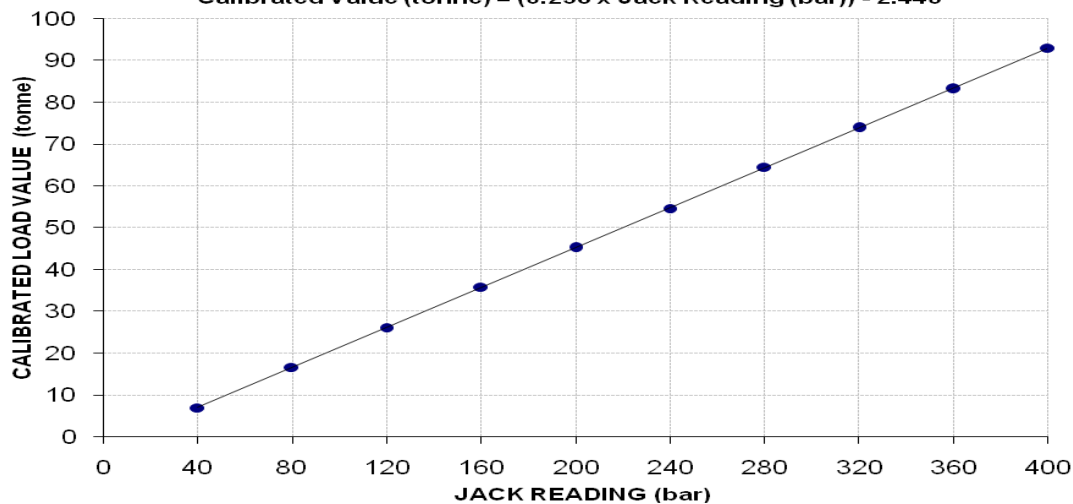
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 400 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	320	360	400	
Calibrated Load	(kg)	7000	16700	26100	35900	45200	54600	64500	73900	83200	93000
	(Tonne)	7.00	16.70	26.10	35.90	45.20	54.60	64.50	73.90	83.20	93.00
Calibrated Pressure (bar)	29.59	70.59	110.33	151.75	191.07	230.80	272.65	312.39	351.70	393.13	

(1 Tonne = 1000 kg) The Ram Area of Jack = 232 cm²

Calibration Curve For Jack No. 102

Calibrated Value (tonne) = (0.238 x Jack Reading (bar)) - 2.446



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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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/01/35923

Dated: 12-01-2021

Dated of Test: 13-01-2021

To
M/S StrongForce Private Limited
Lahore
(Rehabilitation Works at Raw Meal Silo, Askari Cement, Wah)

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35923) (Page -1/2)

Reference to your Letter No. L2021-01-11379, dated: 12/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 47, Gauge No. SF-47) as received by us has been calibrated. The results are tabulated as under:

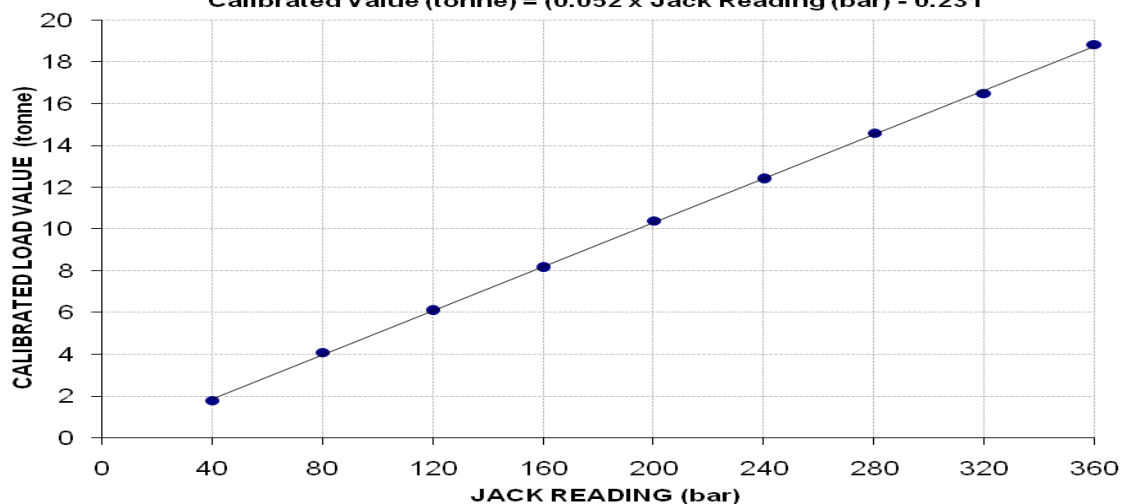
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 360 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	320	360	
Calibrated Load	(kg)	1800	4100	6100	8150	10400	12400	14600	16500	18850
	(Tonne)	1.80	4.10	6.10	8.15	10.40	12.40	14.60	16.50	18.85
Calibrated Pressure (bar)	34.58	78.76	117.18	156.57	199.79	238.21	280.47	316.97	362.12	

(1 Tonne = 1000 kg) The Ram Area of Jack = 51.05 cm²

Calibration Curve For Jack No. 47

Calibrated Value (tonne) = (0.052 × Jack Reading (bar) - 0.231)



I/C Testing Laboratories
UET Lahore, Pakistan.

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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/01/35923

Dated: 12-01-2021

Dated of Test: 13-01-2021

To
M/S StrongForce Private Limited
Lahore
(Rehabilitation Works at Raw Meal Silo, Askari Cement, Wah)

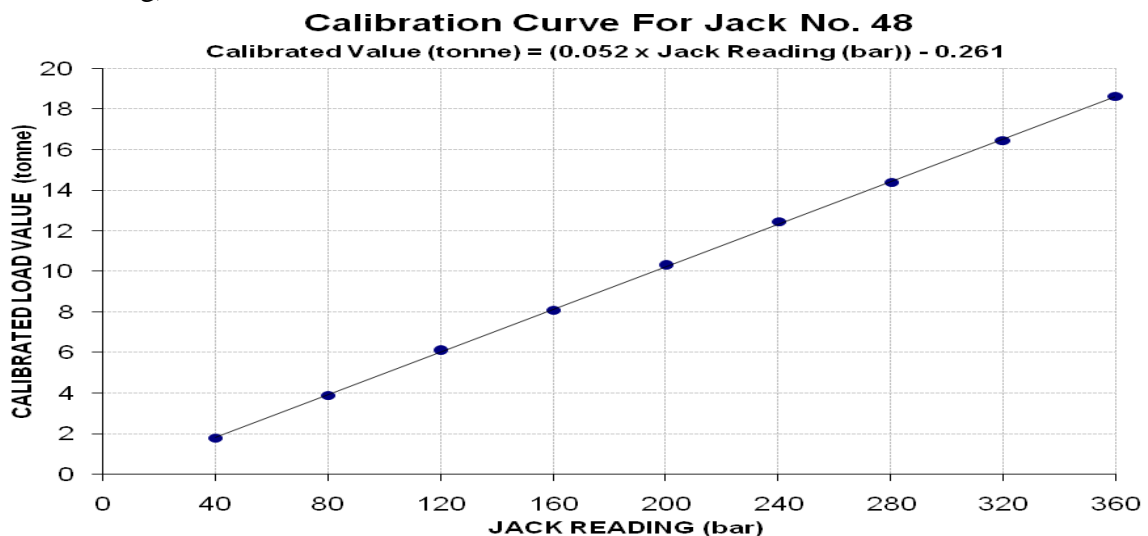
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/35923) (Page -2/2)

Reference to your Letter No. L2021-01-11379, dated: 12/01/2021 on the subject cited above. One Hydraulic Jack (Jack No. 48, Gauge No. SF-48) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 360 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	320	360	
Calibrated Load	(kg)	1800	3900	6100	8100	10300	12450	14400	16450	18650
	(Tonne)	1.80	3.90	6.10	8.10	10.30	12.45	14.40	16.45	18.65
Calibrated Pressure (bar)	34.58	74.92	117.18	155.61	197.87	239.17	276.63	316.01	358.28	

(1 Tonne = 1000 kg) The Ram Area of Jack = 51.05 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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