



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 Railway Underpass Gojra, District Toba Tek Singh.

Reference # CED/TFL 4228 (Dr. M Kashif)
Reference of the request letter # P4595/23/MA/43

Dated: 21-11-2023
Dated: 06-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023
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	4.161	10	1.248	1.27	1.223	37400	50800	65000	67410	88200	91600	1.50	18.8	Ittehad Steel
2	4.144	10	1.245	1.27	1.218	37800	51000	65600	68400	88600	92300	1.40	17.5	
3	4.177	10	1.250	1.27	1.228	37800	51000	65600	67860	88600	91600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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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
 PMCSC –KPCIP
 M/s Creative Engineering Consultants
 KOhat Development Authority, Kohat
 Khyber Pakhtunkhwa Cities Improvement Project
 OCB.KPCIP/CW-03: Construction of Sewerage System including New Sewerage Treatment Plant (STP) at: Lot - 01: Kotal Township (KDA) Sewerage System including New Sewage Treatment Plant (STP) and required SCADA System, Kohat.

Reference # CED/TFL **4236** (Dr. M Kashif) Dated: 22-11-2023

Reference of the request letter # KPCIP/PMCSC/CW-03/LOT-1/321 Dated: 20-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023

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	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.182	32	31.78	1.25	1.229	38400	53600	67725	68860	94533	96200	1.50	18.8	
2	4.241	32	32.00	1.25	1.246	39000	54400	68784	68960	95944	96200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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/11/4238

Dated: 22-11-2023

Dated of Test: 27-11-2023

To

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

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4238) (Page -1/2)

Reference to your Letter No. Nespak/LRRA/MNA/SL-3/084, dated: 21/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 313, Gauge No. AES-313) as received by us has been calibrated. The results are tabulated as under:

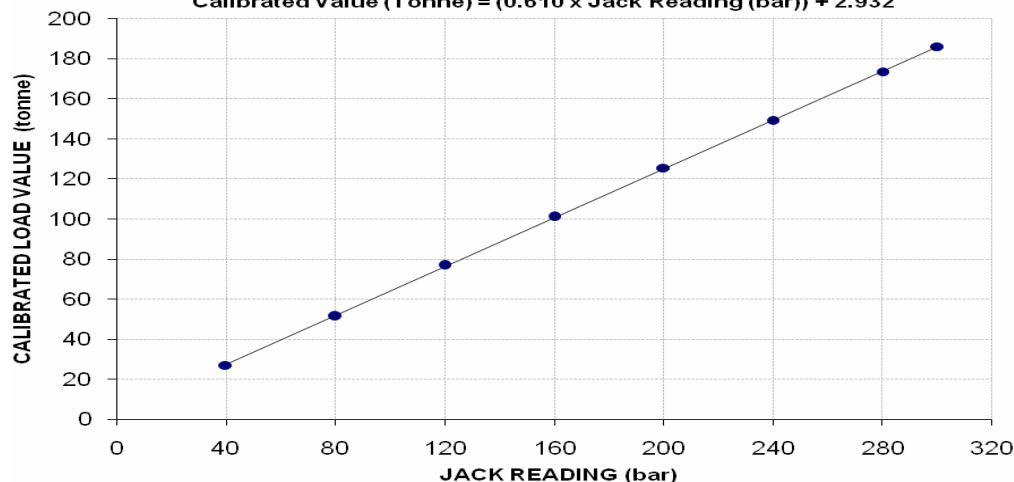
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 300 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	300	
Calibrated Load	(kg)	27000	51400	76800	101000	125400	149400	173600	186000
	(tonne)	27.00	51.40	76.80	101.00	125.40	149.40	173.60	186.00
Calibrated Pressure (bar)	44	84	125	165	204	243	283	303	

The Ram Area of Jack = 602.09 cm²

Calibration Curve For Jack No. 313

Calibrated Value (Tonne) = (0.610 × Jack Reading (bar)) + 2.932



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/11/4238

Dated: 22-11-2023

Dated of Test: 27-11-2023

To

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

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4238) (Page -2/2)

Reference to your Letter No. Nespak/LRRA/MNA/SL-3/084, dated: 21/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 314, Gauge No. AES-314) as received by us has been calibrated. The results are tabulated as under:

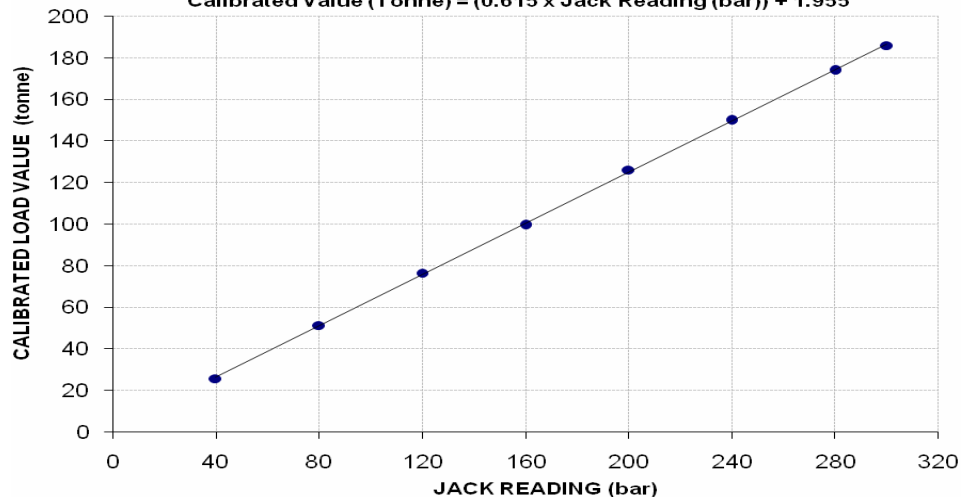
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 300 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	300	
Calibrated Load	(kg)	25800	51400	76600	99600	126200	150000	174000	186000
	(tonne)	25.80	51.40	76.60	99.60	126.20	150.00	174.00	186.00
Calibrated Pressure (bar)	42	84	125	162	206	244	283	303	

The Ram Area of Jack = 602.09 cm^2

Calibration Curve For Jack No. 314

Calibrated Value (Tonne) = $(0.615 \times \text{Jack Reading (bar)}) + 1.955$



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

To,

M/S Beacon Impex
 Construction of Boiler Area, Drain & Pipe Bridge Footing at Beacon Impex-II.
 34 – km Sheikhpura Road, Faisalabad
 (M/s M. Saleem Construction Company.)

Reference # CED/TFL **4241** (Dr. M Kashif)
 Reference of the request letter # B.I/II/CIVIL/23-55

Dated: 23-11-2023
 Dated: 23-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023
 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	0.361	3	0.368	0.11	0.106	3770	4890	75600	78270	98000	101600	0.75	9.4	Kisan Steel
2	0.362	3	0.368	0.11	0.106	3790	4810	76000	78440	96400	99600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Director PMO
 University of Management and Technology Lahore
 11th floor to Roof Slab, Beam and Parapet Steel
 (Ikram Amjad Trader & Engineering Works)

Reference # CED/TFL **4242** (Dr. M Kashif)
 Reference of the request letter # CB-2/88

Dated: 23-11-2023
 Dated: 23-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023
 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	0.377	3	0.376	0.11	0.111	3570	4710	71600	71050	94400	93800	1.20	15.0	Mughal Steel
2	0.366	3	0.370	0.11	0.107	3670	4640	73600	75290	93000	95200	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														

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 Flyover at 47/Pull Length 4400 Rft in District Sargodha.

Reference # CED/TFL **4243** (Dr. M Kashif)
 Reference of the request letter # 4376/SMH/23/4641

Dated: 23-11-2023
 Dated: 14-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023
 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	4.244	10	1.260	1.27	1.248	36200	52600	62900	63960	91300	93000	1.50	18.8	Sheikhoo Steel
2	4.288	10	1.267	1.27	1.260	36600	53000	63600	64010	92000	92700	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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/11/4247

Dated: 23-11-2023

Date of Calibration: 27-11-2023

To

Resident Engineer
Diamer Basha Consultants Group (DBCg)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv
Diamer Basha Dam Project

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4247)** (Page – 1/3)

Reference to your Letter No. DBCG/Lab/JV/2023/059, dated: 20/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 5478, Pump No. 970) as received by us has been calibrated. The results are tabulated as under:

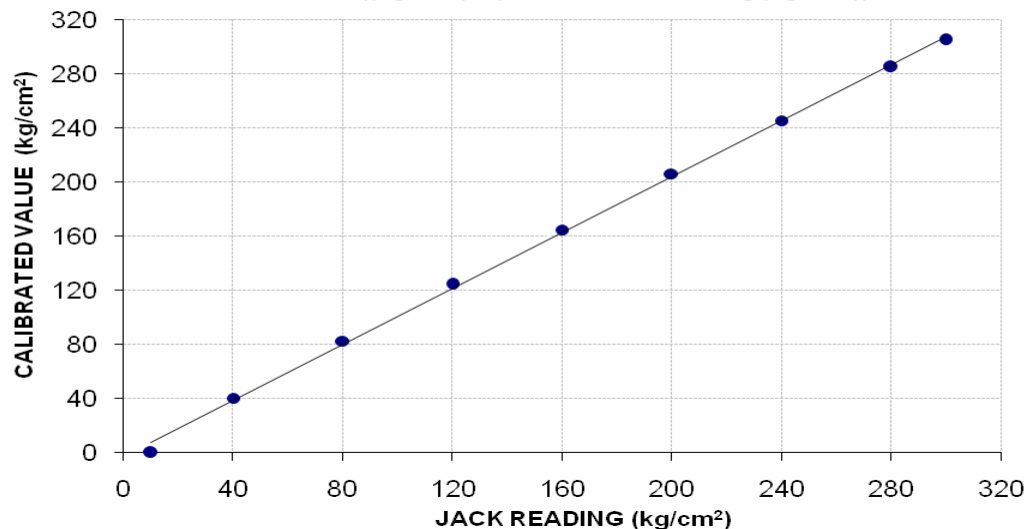
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 300 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	10	40	80	120	160	200	240	280	300
Calibrated Load (kg)	0	24200	49600	75000	99200	124200	147800	171600	183600
Calibrated Pressure (kg/cm ²)	0	40	82	125	165	206	245	285	305

The Ram Area of Jack = 602.4 cm²

Calibration Curve For Jack No. 5478

Calibrated Value ((kg/cm²) = (1.035 x Jack Reading (kg/cm²)) - 3.066



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/11/4247

Dated: 23-11-2023

Date of Calibration: 27-11-2023

To

Resident Engineer
Diamer Basha Consultants Group (DBCg)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv
Diamer Basha Dam Project

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4247)** (Page – 2/3)

Reference to your Letter No. DBCG/Lab/JV/2023/059, dated: 20/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 34, Pump No. 194) as received by us has been calibrated. The results are tabulated as under:

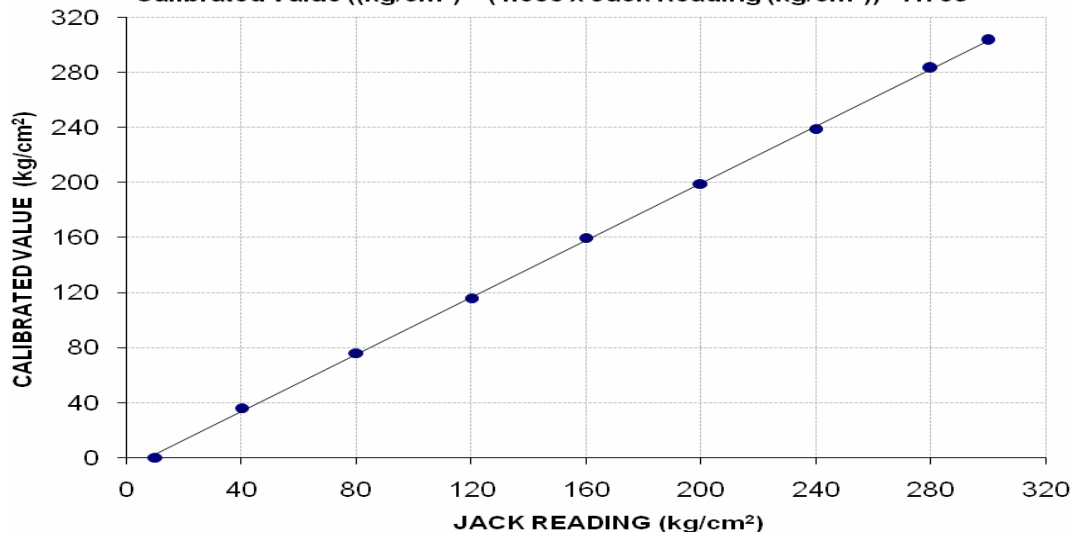
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 300 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	10	40	80	120	160	200	240	280	300
Calibrated Load (kg)	0	21800	45800	69800	96200	120000	144000	170600	182800
Calibrated Pressure (kg/cm ²)	0	36	76	116	160	199	239	283	303

The Ram Area of Jack = 602.4 cm²

Calibration Curve For Jack No. 34

Calibrated Value ((kg/cm²) = (1.036 x Jack Reading (kg/cm²)) - 7.739



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/11/4247

Dated: 23-11-2023

Date of Calibration: 27-11-2023

To

Resident Engineer
Diamer Basha Consultants Group (DBCg)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv
Diamer Basha Dam Project

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4247) (Page – 3/3)

Reference to your Letter No. DBCG/Lab/JV/2023/059, dated: 20/11/2023 on the subject cited above. One Hydraulic Jack (Jack No. 5297, Pump No. 951) as received by us has been calibrated. The results are tabulated as under:

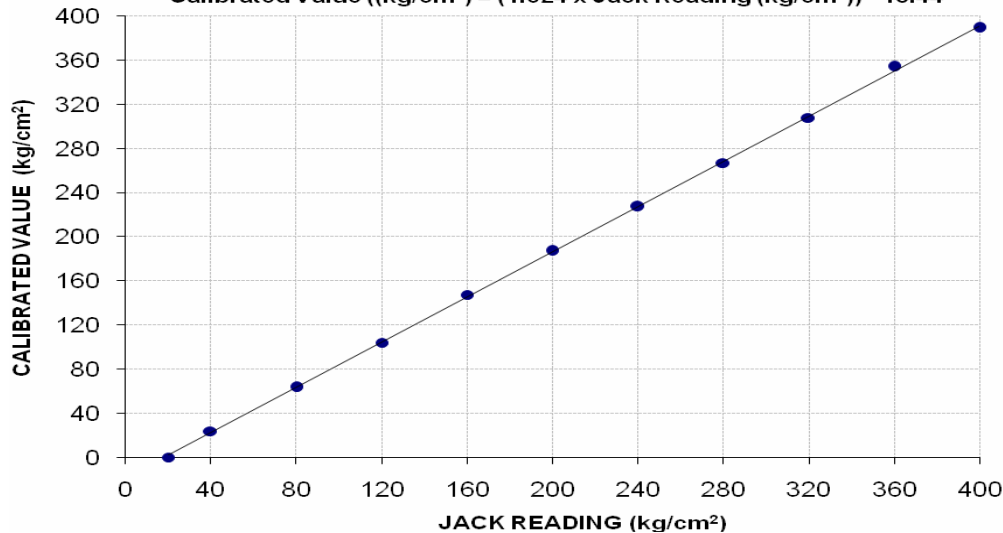
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 400 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	15	40	80	120	160	200	240	280	320	360	400
Calibrated Load (kg)	0	4500	11900	19500	27600	35100	42600	50000	57700	66400	73000
Calibrated Pressure (kg/cm ²)	0	24	63	104	147	187	227	267	308	354	389

The Ram Area of Jack = 187.48 cm²

Calibration Curve For Jack No. 5297

Calibrated Value (kg/cm²) = (1.024 x Jack Reading (kg/cm²)) - 18.44



I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
 Project Manager
 Barqaab Consulting Services (Pvt) Limited
 Design, Supply and Installation of 500/220/132kV Nowshera HVAC Grid Station.

Reference # CED/TFL **4248** (Dr. M Kashif) Dated: 23-11-2023
 Reference of the request letter # WB-05A/BQB/NTDC/0771 Dated: 20-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023
 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	0.380	3	0.377	0.11	0.112	3230	4690	64800	63750	94000	92600	1.00	12.5	SJ Re-Rolling
2	0.378	3	0.376	0.11	0.111	3410	4960	68400	67600	99400	98400	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														

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
 AZ Engineering Associates
 Rehabilitation of Road from Choniot to Pindi Bhattian M-2 Interchange Section-II
 Length 18.45 km District Hafizabad.

Reference # CED/TFL 4249 (Dr. M Kashif)

Dated: 23-11-2023

Reference of the request letter # AZEA/RE/HFZ/252

Dated: 18-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023

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	0.365	3/8	0.370	0.11	0.107	3490	4890	70000	71720	98000	100500	1.20	15.0	Sheikhoo Steel
2	0.366	3/8	0.370	0.11	0.108	3520	4890	70600	72120	98000	100200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
 AZ Engineering Associates
 Reconstruction / Rehabilitation of Road from Gujranwala, Hafizabad, Pindi Bhattian
 Road (Part-B)(Section km no. 57.77 to 63.75 & 71.70 to 97.21 Length = 29.48 kms)
 Tehsil & District Hafizabad.

Reference # CED/TFL **4250** (Dr. M Kashif)

Dated: 23-11-2023

Reference of the request letter # AZEA/RE/HFZ/250

Dated: 18-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023

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	0.373	3/8	0.373	0.11	0.109	3080	4690	61800	62000	94000	94500	1.20	15.0	Supreme
2	0.372	3/8	0.373	0.11	0.109	3130	4690	62800	63130	94000	94600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Director
 Overseas Construction Co. (Pvt) Ltd
 Gulberg City Centre, Lahore

Reference # CED/TFL **4251** (Dr. M Kashif)
 Reference of the request letter # OCC/Steel/49

Dated: 27-11-2023
 Dated: 22-11-2023

Tension Test Report (Page -1/1)

Date of Test 27-11-2023
 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	4350	5520	87200	87260	110700	110800	0.90	11.3	Afco Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples