



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/01/2577

Dated: 05-01-2023

Dated of Test: 12-01-2023

To

Site Manager
Descon Engineering Limited
Mohmand Dam Hydro-Power Project

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/2577)** (Page -1/1)

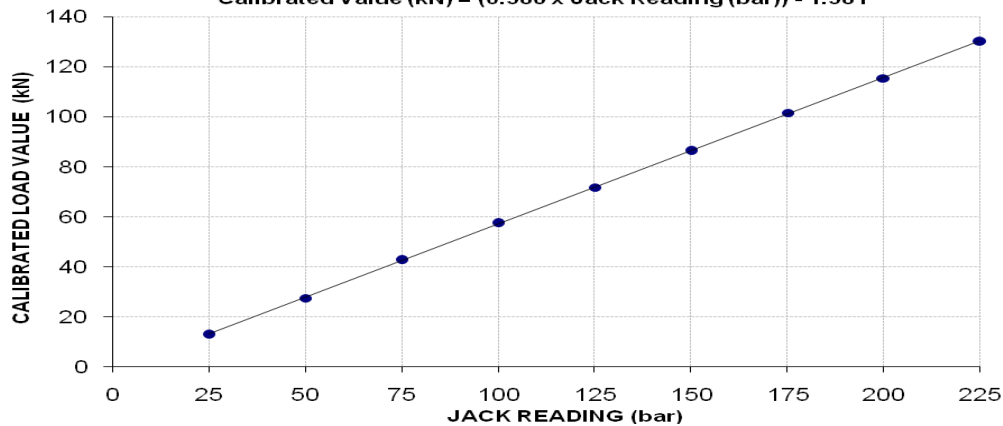
Reference to your Letter No. MDHP-DEL-LABT-155, dated: 19/12/2022 on the subject cited above. One Hydraulic Jack (Jack No. EJ-39, Gauge No. SF 39) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 250 (bar)
Calibrated Range : Zero - 225 (bar)

Hydraulic Jack Reading (bar)	25	50	75	100	125	150	175	200	225	
Calibrated Load	(kg)	1300	2800	4350	5850	7300	8800	10350	11750	13250
	(kN)	13	27	43	57	72	86	102	115	130
	(Tonne)	1.30	2.80	4.35	5.85	7.30	8.80	10.35	11.75	13.25
Calibrated Pressure (bar)	21.65	46.64	72.46	97.45	121.60	146.58	172.40	195.72	220.71	

(1 Tonne = 1000 kg) The Ram Area of Jack = 58.875 cm²

Calibration Curve For Jack No. EJ-39
Calibrated Value (kN) = (0.586 x Jack Reading (bar)) - 1.581



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,

Quality Assurance Specialist – Roads
CDM Smith Peshawar
Bridge Girders of Jamrud bypass Road-Khyber Project KPK

Reference # CED/TFL **2578** (Dr. M Kashif)
Reference of the request letter # USAID/CDM/CL/69

Dated: 06-01-2023
Dated: 27-12-2022

Tension Test Report (Page -1/4)

Date of Test 12-01-2023
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" GPa	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)			
1	12.70 (1/2")	775.0	785.0	17900	175.60	19700	193.26	199	>3.50	xx
2	12.70 (1/2")	775.0	785.0	17800	174.62	19500	191.30	198	>3.50	xx
3	12.70 (1/2")	775.0	781.0	17800	174.62	19600	192.28	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only three samples 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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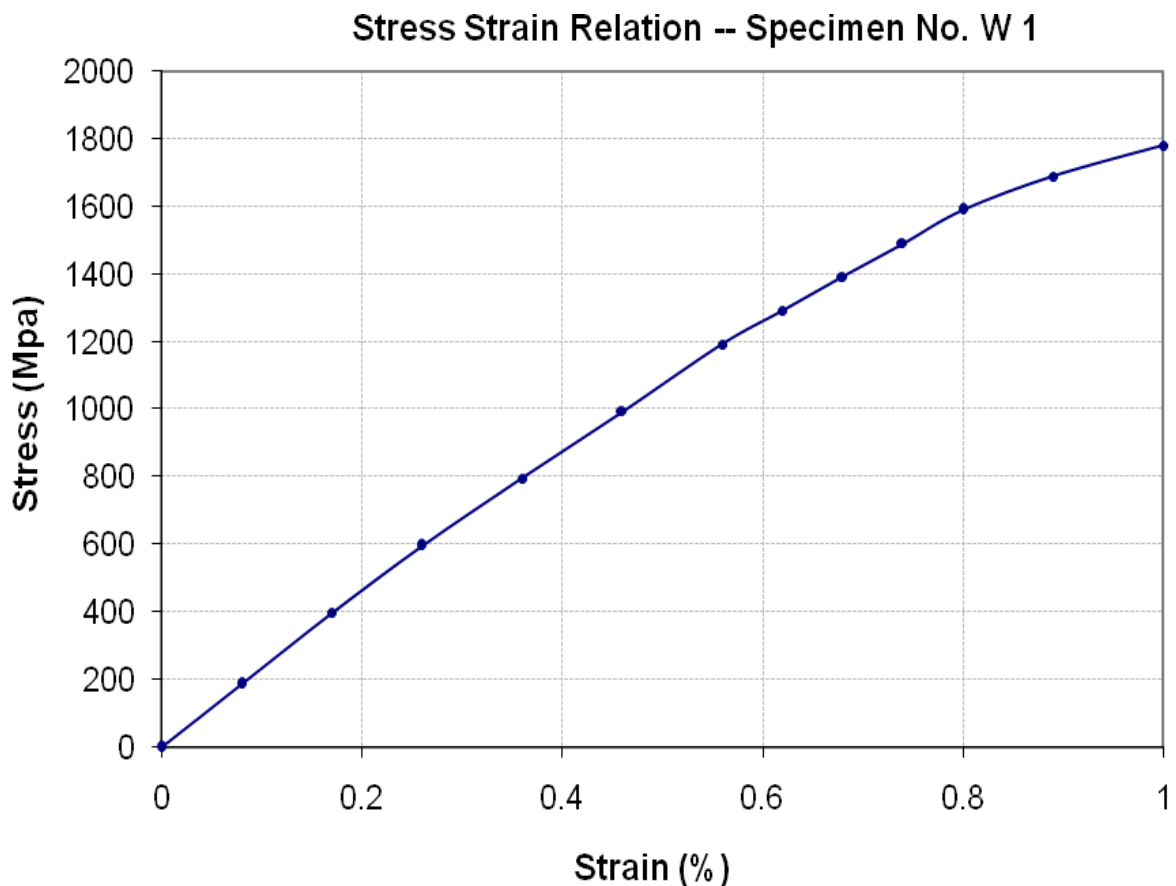
To,

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CDM Smith Peshawar
Bridge Girders of Jamrud bypass Road-Khyber Project KPK

Reference # CED/TFL **2578** (Dr. M Kashif)
Reference of the request letter # USAID/CDM/CL/69

Dated: 06-01-2023
Dated: 27-12-2022

Graph (Page – 2/4)



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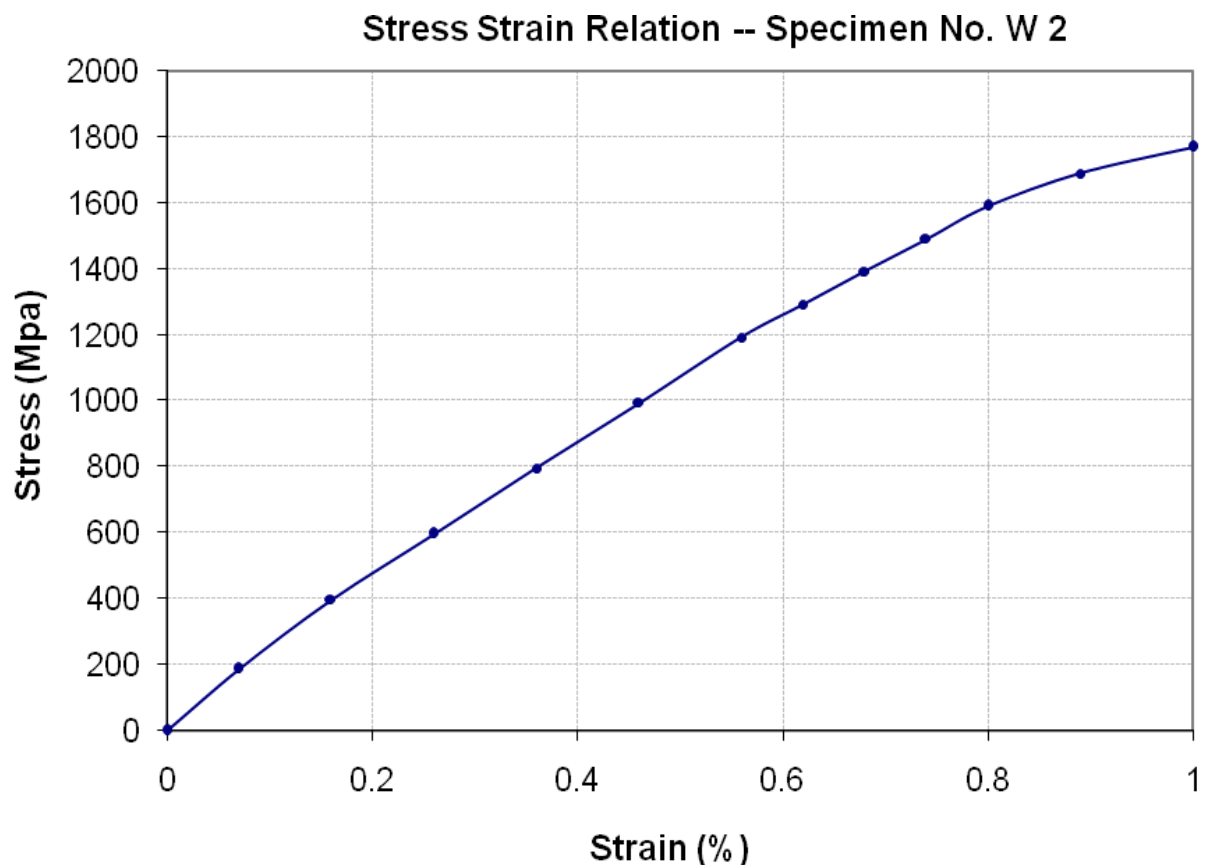
To,

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CDM Smith Peshawar
Bridge Girders of Jamrud bypass Road-Khyber Project KPK

Reference # CED/TFL **2578** (Dr. M Kashif)
Reference of the request letter # USAID/CDM/CL/69

Dated: 06-01-2023
Dated: 27-12-2022

Graph (Page – 3/4)



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UET Lahore, Pakistan.

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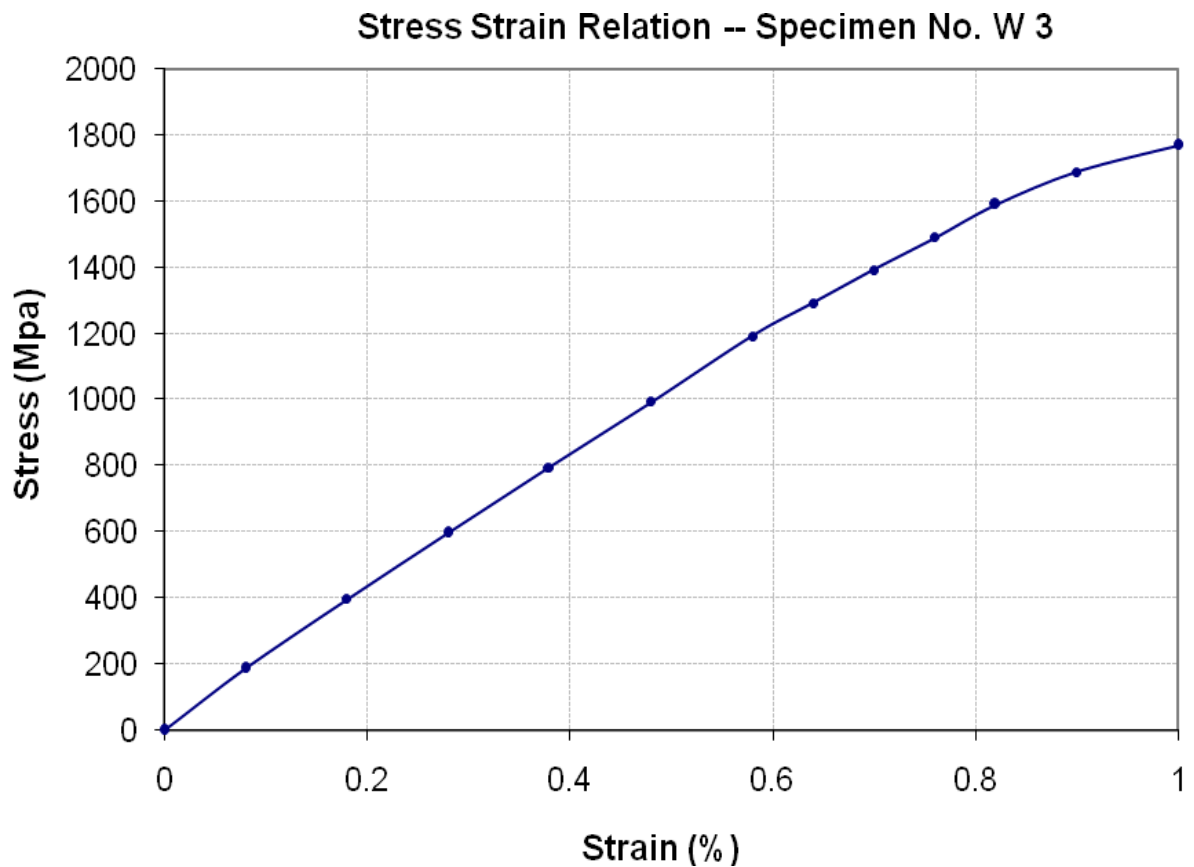
To,

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CDM Smith Peshawar
Bridge Girders of Jamrud bypass Road-Khyber Project KPK

Reference # CED/TFL **2578** (Dr. M Kashif)
Reference of the request letter # USAID/CDM/CL/69

Dated: 06-01-2023
Dated: 27-12-2022

Graph (Page – 4/4)



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,

Asst Dir Infra
Defence Housing Authority
Gujranwala
(Executive Block)

Reference # CED/TFL **2590** (Dr. Usman Akmal)
Reference of the request letter # 11/15/AD/RS/Exec B/74

Dated: 10-01-2023
Dated: 06-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
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	0.388	3	0.381	0.11	0.114	3400	5300	68200	65770	106200	102600	1.30	16.3	SJ Steel
2	0.371	3	0.373	0.11	0.109	3000	4900	60200	60560	98200	99000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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
Building Sub Division No-I
Gujrat
(Establishment of 100 Bedded Hospital in Lakhawal Tehsil & District Gujrat)

Reference # CED/TFL **2592** (Dr. Usman Akmal)
Reference of the request letter # 2256/GI

Dated: 10-01-2023
Dated: 03-12-2022

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
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	Grade
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.387	3/8	0.381	0.11	0.114	3300	5000	66200	63950	100200	96900	1.30	16.3	40
2	0.393	3/8	0.384	0.11	0.116	3300	5100	66200	62890	102200	97200	1.40	17.5	
3	0.389	3/8	0.382	0.11	0.114	3800	5100	76200	73240	102200	98300	1.60	20.0	60
4	0.388	3/8	0.381	0.11	0.114	3900	5100	78200	75460	102200	98700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
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
NESPAK
Construction of Fatima Jinnah Institute of Dental Sciences, Lahore

Reference # CED/TFL **2595** (Dr. Usman Akmal)
Reference of the request letter # 3016/13/MS/04/16

Dated: 10-01-2023
Dated: 02-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
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	Grade
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3	0.375	0.11	0.111	3300	4700	66200	65710	94200	93600	1.50	18.8	Kamran Steel
2	0.379	3	0.377	0.11	0.111	3500	5000	70200	69190	100200	98900	1.30	16.3	
3	4.317	10	1.271	1.27	1.269	46600	66600	80900	80950	115600	115700	1.10	13.8	
4	4.313	10	1.271	1.27	1.268	38200	56000	66300	66410	97200	97400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 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
 NESPAK

Dualization of Road from Slam to Sargodha via Bhalwal Ajnala Road Length 47.00 km
 in District Sargodha.

Reference # CED/TFL **2596** (Dr. Usman Akmal)

Dated: 10-01-2023

Reference of the request letter # 4376/SMH/23/3038

Dated: 02-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023

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	3800	4800	76200	75500	96200	95400	1.00	12.5	Mughal Steel
2	3.798	3	1.192	0.11	1.116	3800	4800	76200	7510	96200	9500	1.30	16.3	
3	4.240	10	1.260	1.27	1.246	48600	61400	84400	85940	106600	108600	1.50	18.8	
4	4.268	10	1.264	1.27	1.255	51000	61600	88600	89600	107000	108300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 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
 Pillar & Sons
 Rumanza Golf & Country Club. DHA, Maultan

Reference # CED/TFL **2597** (Dr. Usman Akmal)
 Reference of the request letter # P&S/OTH/GEN/ 0094

Dated: 11-01-2023
 Dated: 04-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
 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	0.372	3	0.373	0.11	0.109	4200	5400	84200	84580	108200	108800	1.10	13.8	SJ Steel
2	0.363	3	0.369	0.11	0.107	4300	5500	86200	88840	110200	113700	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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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
 Aitchison College, Lahore
 Construction of Senior Staff Residence.

Reference # CED/TFL **2598** (Dr. Usman Akmal)
 Reference of the request letter # P-0070

Dated: 11-01-2023
 Dated: 11-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
 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	0.371	3/8	0.373	0.11	0.109	3500	4900	70200	70700	98200	99000	1.20	15.0	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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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,

Project Manager
 Icon Valley
 Phase II, Lahore
 Commercial Building (A & F + E & C)

Reference # CED/TFL **2601** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 11-01-2023
 Dated: 05-12-2022

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
 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	0.378	3	0.376	0.11	0.111	3200	5000	64200	63400	100200	99100	1.20	15.0	
2	0.376	3	0.375	0.11	0.111	3200	4900	64200	63740	98200	97600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Manager
 Izhar Construction (Pvt) Ltd
 OMBRe' Holdings Pvt Ltd Raiwind, Lahore

Reference # CED/TFL **2602** (Dr. Usman Akmal)
 Reference of the request letter # OMBRe'/Sheikhoo/Steel/013

Dated: 11-01-2023
 Dated: 11-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
 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	0.411	10	9.96	0.12	0.121	3800	5500	69812	69330	101044	100400	1.40	17.5	Sheikhoo Steel
2	0.413	10	9.98	0.12	0.121	3800	5500	69812	69070	101044	100000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Project Manager
 Izhar Construction (Pvt) Ltd
 OMBRe' Holdings Pvt Ltd Raiwind, Lahore

Reference # CED/TFL **2603** (Dr. Usman Akmal)
 Reference of the request letter # OMBRe'/Ittefaq/Steel/013

Dated: 11-01-2023
 Dated: 11-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
 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	0.398	10	9.81	0.12	0.117	3700	5700	67975	69630	104719	107300	1.40	17.5	Ittefaq Steel
2	0.404	10	9.88	0.12	0.119	3800	5700	69812	70510	104719	105800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm 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,

Sub Divisional Officer
 Buildings Sub Division No. 6
 Lahore
 (Construction of New Office Block of Commissioner Office Lahore)

Reference # CED/TFL **2604** (Dr. Usman Akmal)
 Reference of the request letter # 217/Sd-6

Dated: 11-01-2023
 Dated: 03-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
 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	0.366	3/8	0.370	0.11	0.107	3600	4900	72200	73860	98200	100600	1.20	15.0	
2	0.375	3/8	0.375	0.11	0.110	3600	5000	72200	72010	100200	100100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

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- 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,

M/S Dost Builders
Muzaffargarh
(Sun Rays Textile Mills Muzaffar Garh)

Reference # CED/TFL **2605** (Dr. M Kashif)
Reference of the request letter # T-01-57AIL-S

Dated: 12-01-2023
Dated: 12-01-2023

Tension Test Report (Page -1/1)

Date of Test 12-01-2023
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	0.411	10	9.97	0.12	0.121	4510	5500	82856	82220	101044	100300	1.30	16.3	Naveena Steel	
2	0.413	10	9.98	0.12	0.121	4590	5570	84326	83360	102330	101200	1.10	13.8		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only two samples for tensile and one sample 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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples