



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. 12
 Lahore
 (Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore)

Reference # CED/TFL **34929** (Dr. Qasim Khan)
 Reference of the request letter # 274/SDO12th

Dated: 29-05-2020
 Dated: 19-05-2020

Tension Test Report (Page -1/1)

Date of Test 01-06-2020
 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	0.370	3/8	0.372	0.11	0.109	3300	5000	66200	66950	100200	101500	1.40	17.5	Kamran Steel
2	0.380	3/8	0.377	0.11	0.112	3300	4900	66200	65180	98200	96800	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.

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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To,
 Project Director
 DESCON
 Mohamand Dam Hydropower Project
 (Moaz)

Reference # CED/TFL **34914** (Dr. Asif Hameed)
 Reference of the request letter # MDHP-DEL/LABT-0022

Dated: 19-05-2020
 Dated: 18-05-2020

Tension Test Report (Page -1/3)

Date of Test 01-06-2020
 Gauge length 8 inches
 Description Steel Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	12	40.40x11.90	480.76	-----	48600	-----	991.69	0.70	8.75	
2	12	41.40x11.95	494.73	-----	50200	-----	995.42	0.50	6.25	
3	12	41.00x12.40	508.40	17000	23200	328.03	447.66	1.60	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Project Director
 DESCON
 Mohamand Dam Hydropower Project
 (Moaz)

Reference # CED/TFL **34914** (Dr. Qasim Khan)
 Reference of the request letter # MDHP-DEL/LABT-0022

Dated: 19-05-2020
 Dated: 18-05-2020

Tension Test Report (Page -2/3)

Date of Test 01-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar (Rock Bolt) Tensile 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	4.127	32	31.57	1.25	1.213	50200	60800	88537	91210	107232	110500	0.90	11.3	Fazal Steel
2	4.130	32	31.58	1.25	1.214	44600	51200	78660	80970	90300	93000	0.40	5.0	
3	4.136	32	31.60	1.25	1.216	51000	61200	89948	92460	107937	111000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

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To,
 Project Director
 DESCON
 Mohamand Dam Hydropower Project
 (Pan Islamic)

Reference # CED/TFL **34914** (Dr. Qasim Khan)
 Reference of the request letter # MDHP-DEL/LABT-0022

Dated: 19-05-2020
 Dated: 18-05-2020

Tension Test Report (Page -3/3)

Date of Test 01-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar (Rock Bolt) Tensile 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	4.144	32	31.63	1.25	1.218	48200	53800	85009	87220	94886	97400	0.40	5.0	Fazal Steel
2	4.173	32	31.74	1.25	1.227	49400	54200	87126	88760	95591	97400	0.40	5.0	
3	4.128	32	31.57	1.25	1.213	51400	61600	90653	93370	108643	111900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

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To,
 Sub Divisional Officer
 Buildings Sub Division
 Jaranwala
 (Construction of 02 Nos Additional Class Room alongwith VERandah in Govt. Primary School
 Chak No. 281//GB – Tehsil Jaranwala District Faisalabad)
 Reference # CED/TFL **34925** (Dr. Qasim Khan) Dated: 29-05-2020
 Reference of the request letter # 2864/J Dated: 11-05-2020

Tension Test Report (Page -1/1)

Date of Test 01-06-2020
 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	0.380	3/8	0.377	0.11	0.112	3700	4800	74200	72920	96200	94600	0.90	11.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Manager Construction Projects
 Aliied Bank
 Construction of ABL Building, 3-Babar Block, New Garden Town, Lahore

Reference # CED/TFL **34927** (Dr. Qasim Khan) Dated: 29-05-2020
 Reference of the request letter # HOL/ENGG.C.P./SM/2020/15 Dated: 29-05-2020

Tension Test Report (Page -1/1)

Date of Test 01-06-2020
 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	0.402	3	0.388	0.11	0.118	4200	5000	84200	78370	100200	93300	1.00	12.5	
2	0.415	3	0.394	0.11	0.122	4500	5800	90200	81300	116300	104800	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														

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