

Engr. Shahbaz Khan

Test Performed By:

Dr. /Engr.

M Irfan Ul Hassan

Resident Head (Civil) JHC -48 MW Jaggran -II, Hydropower Project

Client Reference: E314-L-JHC-RE-RPCC-OC-252

Dated: 02-06-2020

SOM Lab Ref: CED/SOM/2530(Page-1/1)

Dated: 04-06-2020

Test: Tension Test & Bend Test

Test Specification: ASTM -615

Sample Type: Deformed Bar (Pak Steel)

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.929	22	21.79	380	373	191.50	256.20	504	514	674	687	27.5	200	13.8	
2	2.915	22	21.75	380	371	188.20	251.20	495	507	661	677	32.5	200	16.3	
3	2.247	19	19.09	284	286	135.20	184.00	477	473	649	643	30.0	200	15.0	
4	2.264	19	19.16	284	288	134.20	183.00	473	466	645	635	27.5	200	13.8	
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BEND TEST:

22mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
19mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional Officer
Buildings Sub Division, Okara

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 759/SDO/OK

SOM Lab

Ref: 2526 (Page-1/1)

Dated: 01-06-2020

Dated: 04-06-2020

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.668	4	0.500	0.20	0.196	6.34	8.05	69920	71350	88800	90620	1.20	8.0	15.0	
2	0.668	4	0.500	0.20	0.196	6.54	8.56	72170	73640	94420	96350	1.20	8.0	15.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Umair Yousaf

Test Performed By:

Dr. /Engr.

M Irfan UI Hassan

Project Manager, MA Engg. Services, Lahore(Project: Commercial Plaza at Al Rehman Garden Lahore)

Client Reference: MA/UETL/005

SOM Lab Ref: 2527 (Page-1/1)

Dated: 04-06-2020

Dated: 04-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.523	8	0.971	0.79	0.741	20.84	31.19	58170	62020	87080	92840	1.30	8.0	16.3	
2	2.569	8	0.980	0.79	0.755	20.49	33.59	57200	59850	93770	98120	1.20	8.0	15.0	
3	1.502	6	0.749	0.44	0.441	12.84	17.60	64380	64240	88240	88040	1.10	8.0	13.8	
4	1.530	6	0.757	0.44	0.450	12.74	17.60	63870	62450	88240	86280	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

By Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: 408/241/E/Lab/903/5165

SOM Lab

Ref: 2528(Page-1/1)

Dated: 04-06-2020

Dated: 04-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (KAMRAN Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.471	6	0.742	0.44	0.432	12.95	18.55	64890	66090	92990	94720	1.40	8.0	17.5	
2	1.471	6	0.742	0.44	0.432	12.92	18.71	64740	65940	93760	95500	1.40	8.0	17.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Assistant Civil Engineer
PSIC SIE-IV Gujranwala

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: PSIC/SIE-IV-GRW/By Hand

SOM Lab Ref: 2529(Page-1/1)

Dated: 01-01-2020

Dated: 04-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.443	6	0.735	0.44	0.424	13.73	19.13	68830	71420	95910	99530	1.10	8.0	13.8	
2	1.048	5	0.626	0.31	0.308	10.47	14.95	74480	74970	106390	107080	1.20	8.0	15.0	
3	0.593	4	0.471	0.20	0.174	5.35	7.72	59020	67840	85100	97810	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 5	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Assistant Civil Engineer
PSIC SIE-IV Gujranwala

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: PSIC/SIE-IV-GRW/By Hand

SOM Lab
Ref: 2529(Page-1/1)

Dated: 01-01-2020

Dated: 04-06-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.443	6	0.735	0.44	0.424	13.73	19.13	68830	71420	95910	99530	1.10	8.0	13.8	
2	1.048	5	0.626	0.31	0.308	10.47	14.95	74480	74970	106390	107080	1.20	8.0	15.0	
3	0.593	4	0.471	0.20	0.174	5.35	7.72	59020	67840	85100	97810	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 5	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Test Performed by: Dr. Syed Asad Ali Gillani

Muhamm Umar Farooq
Civil Supervisor
Ambition Apparel 20km Ferozpur Road Lahore

Client Reference: Nil

Dated 04-06-2020

SOM Laboratory Reference: CED/SOM/2525(Page-1/1)

Dated 04-06-2020

Test: Pull out Test

Sample Type: Steel Anchors Embedded in Concrete Cylinders with grout

Pull Out Test

S. No	Steel Dia (#)	Pull Out Tensile Load (kN)	Remarks
1	3/4	28.7	Grout fails in adhesion between Concrete and Grout
2	1/2	38.7	Grout fails in adhesion between Concrete and Grout
3	3/8	38.2	Grout fails in adhesion between Concrete and Grout

Note: Please always confirm the results on web www.uet-civil.edu.pk