

Altaf Hussain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

M. E. A.S. Enterprises, Consultant: AA Associates(Project: Style Textile Managa)

Client Reference: USD/ASE/16

Dated: 22-12-2020

SOM Lab Ref: CED/SOM/3484(Page-1/1)

Dated: 22-12-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed (AFCO 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	3.878	25	25.08	491	494	241.70	337.70	492	490	688	684	35.0	200	17.5	
2	3.807	25	24.85	491	485	285.00	352.00	581	588	717	726	37.5	200	18.8	
3	2.528	20	20.25	314	322	164.20	217.00	523	510	691	674	32.5	200	16.3	
4	2.544	20	20.31	314	324	172.30	238.50	548	532	759	736	32.5	200	16.3	
5	1.568	16	15.95	201	200	77.50	113.50	385	388	565	569	42.5	200	21.3	
6	1.562	16	15.92	201	199	78.20	114.00	389	394	567	573	45.0	200	22.5	
7	0.989	12	12.66	113	126	67.20	86.70	594	534	767	689	30.0	200	15.0	
8	0.967	12	12.52	113	123	66.70	86.20	590	542	762	701	25.0	200	12.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

Major Muhammad Aslam, Retd.

Test Performed By:

Dr. /Engr.

Nauman Khurram

Resident Engineer, Penta Square Project, Al-Imam Enterprises (Pvt) Ltd Lahore

Client Reference: Al-Imam/746/PS-1/DHA/LHE/1193

Dated: 11-12-2020

SOM Lab Ref: CED/SOM/3491(Page-1/1)

Dated: 22-12-2020

Test: Tension and Bend Test

Test Specification:

ASTM-F-1554

Sample Type: J-Bolt

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	4.068	25	25.68	491	518	158.70	230.70	323	307	470	446	55.0	200	27.5	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

PAK Construction System

Test Performed By:

Dr. /Engr.

S. Asas Ali
Gillani

Flat # 21, 2nd Floor, Sharaf Mension, Chowk Ganga Ram Hospital, Lahore

Client Reference: Nil

SOM Lab

Ref:

3482(Page-1/)

Dated: 21-12-2020

Dated:

22-12-2020

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	1.640	6	0.783	0.44	0.482	17.66	21.41	88500	80790	107300	97950	1.30	8.0	16.3	
2	0.590	4	0.469	0.20	0.173	7.10	8.33	78350	90580	91840	106170	1.10	8.0	13.8	
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BEND TEST:

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

Engr M. Naveed Sadiq
Resident Engineer, Orbit Housing, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 22-12-2020

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 3483(Page-1/1)

Dated: 22-12-2020

ASTM-A-615

Deformed

Bar

Gauge Length: 8 inch

Sample Type:

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	1.486	6	0.746	0.44	0.437	14.32	20.92	71790	72280	104850	105570	1.10	8.0	13.8	
2	1.474	6	0.743	0.44	0.433	13.71	20.03	68730	69840	100400	102030	1.10	8.0	13.8	
3	0.656	4	0.496	0.20	0.193	6.65	9.19	73290	75950	101390	105070	1.00	8.0	12.5	
4	0.663	4	0.498	0.20	0.195	6.24	8.77	68800	70560	96670	99150	0.90	8.0	11.3	
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BEND TEST:

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

Muhammad Rabi Yousaf
Chughtai
Lt Commander PN, GE (Navy) Lahore

Test Performed By: Dr. /Engr. S. Asad Ali Gilanni

Client Reference: 6021/154/23/E-6

SOM Lab 3485(Page-1/1)
Ref:

Dated: 07-12-2020

Dated: 22-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	1.488	6	0.746	0.44	0.437	16.64	21.51	83390	83960	107810	108550	1.00	8.0	12.5	
2	1.483	6	0.745	0.44	0.436	16.16	21.41	80990	81730	107300	108280	1.10	8.0	13.8	
3	1.109	5	0.644	0.31	0.326	8.97	13.91	63820	60690	98990	94140	1.50	8.0	18.8	
4	0.871	5	0.571	0.31	0.256	8.61	13.91	61280	74210	98990	119870	1.60	8.0	20.0	
5	0.675	4	0.502	0.20	0.198	7.46	9.58	82290	83120	105670	106730	1.30	8.0	16.3	
6	0.676	4	0.503	0.20	0.199	7.41	9.60	81720	82130	105890	106420	1.40	8.0	17.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine 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

Khalil Ur Rehman
Chirf Executive, Paidar Builders (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asas Ali
Gillani

Client Reference: PBL/UET/2020-387

Dated: 21-12-2020

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3486(Page-1/)

Dated: 22-12-2020

ASTM-A-615

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	2.618	8	0.990	0.79	0.769	25.35	33.94	70780	72710	94770	97350	1.60	8.0	20.0	
2	1.563	6	0.764	0.44	0.459	15.52	22.60	77820	74600	113280	108590	0.80	8.0	10.0	
3	0.674	4	0.502	0.20	0.198	5.98	8.58	65990	66650	94650	95610	1.40	8.0	17.5	
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BEND TEST:

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

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

Muhammad Aman Ullah

Resident Engineer, NESPAK(Pvt) Ltd. Project: Dev. in LDA City, Package -I,4 & 6, Jinnah Sector Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Client Reference: 4047/13/MA/09/17

SOM Lab Ref: 3487(Page-1/1)

Dated: 21-12-2020

Dated: 22-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Mughal Steel)

Gauge Length: 8 inch

Sample Type:

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	2.627	8	0.991	0.79	0.772	29.97	36.51	83670	85620	101940	104310	1.30	8.0	16.3	
2	2.626	8	0.991	0.79	0.772	29.43	35.90	82160	84080	100230	102570	1.30	8.0	16.3	
3	0.699	4	0.511	0.20	0.205	8.02	9.79	88470	86310	107910	105280	1.10	8.0	13.8	
4	0.689	4	0.507	0.20	0.202	7.77	9.57	85660	84810	105550	104510	1.10	8.0	13.8	
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BEND TEST:

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

Muhammad Asif Bajwa
Resident Engineer, PU Lahore Progressive Consultants (Pvt) Ltd.)

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: PCL-562/LHR/IEEE/PU/130

Dated: 12-12-2020

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref:

3490(Page-1/1)

Dated:

22-12-2020

ASTM-A-615

Deformed

Bar

Gauge Length: 8 inch

Sample Type:

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	2.559	8	0.979	0.79	0.752	29.97	37.51	83670	87900	104730	110020	1.00	8.0	12.5	
2	1.465	6	0.741	0.44	0.431	11.82	19.08	59270	60510	95650	97650	1.40	8.0	17.5	
3	0.719	4	0.518	0.20	0.211	7.56	9.33	83410	79060	102860	97490	0.90	8.0	11.3	
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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	
# 5	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

Abrar Hussain
G. M - Engineering, Mughals Pakistan (Ovt) Ltd.

Test Performed By: Dr. /Engr.

S. Asad Ali Gillani

Client Reference: 786/MPL-0072/221203/2020

SOM Lab

Ref: 3492(Page-1/1)

Dated: 22-12-2020

Dated: 22-12-2020

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	2.623	8	0.991	0.79	0.771	23.04	37.58	64320	65900	104930	107510	1.20	8.0	15.0	
2	2.643	8	0.995	0.79	0.777	22.91	36.80	63950	65020	102730	104450	1.30	8.0	16.3	
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BEND TEST:

# 8	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		

Test Performed by: Dr.S. Asad ali Gillani

Khamees Ali Mangnejo,

Chief Resident Engineer,

Mangi Dam Project,

ACE – CAMEOS – KASIB JOINT VENTURE

Project: Construction of Mangi Dam and Water Conveyance System (PKG-I)

Client Reference No.: CRE/MDP/Tech-4765-69

Dated: 15-12-2020

SOM Lab Ref: CED/SOM/3496(Page 1/1)

Dated: 22-12-2020

Test Type: Hardness Test

Sample Type: Steel Plate & Rock Bolt

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Plate	HR – 67.66 – B

2	Rock Bolt”	HR – 90.00 – B
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Note: Please always confirm the results on web www.uet-civil.edu.pk