

Project Manager
Baran Dam Consultants, Bannu

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

Client Reference: BDC/265/2020
SOM Lab Ref: CED/SOM/2252(Page-1/1)
Test: Tension & Bend Test
Sample Type: Deformed Bar(Moiz Steel)

Dated: 17-02-2020
Dated: 18-02-2020
Test Specification: ASTM-A 615
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	3.874	25	25.08	491	494	238.50	337.20	486	483	687	683	37.5	200	18.8	
2	3.880	25	25.09	491	494	241.00	336.50	491	488	686	681	32.5	200	16.3	
3	2.457	20	19.96	314	313	145.70	214.20	464	466	682	685	37.5	200	18.8	
4	2.481	20	20.06	314	316	146.70	215.20	467	465	685	681	30.0	200	15.0	
5	1.620	16	16.21	201	206	100.70	138.20	501	488	687	670	32.5	200	16.3	
6	1.555	16	15.88	201	198	94.00	132.20	468	475	658	668	30.0	200	15.0	
7	1.010	13	12.80	133	129	67.00	88.70	505	521	668	690	35.0	200	17.5	
8	1.012	13	12.81	133	129	58.50	84.70	441	454	638	658	30.0	200	15.0	
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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	
13mm	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

Syed Samiuddin Ahmed

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Senior Resident Engineer, ProMag (Pvt) Ltd Site Office - DHA, Mattital Road, Multan

Client Reference: Villas/Mosque/411

Dated: 16-01-2020

SOM Lab Ref: CED/SOM/2259(Page-1/1)

Dated: 18-02-2020

Test: Tension & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	3.888	25	25.11	491	495	252.50	338.20	514	511	689	684	32.5	200	16.3	
2	3.892	25	25.12	491	496	252.00	336.20	513	509	685	679	30.0	200	15.0	
3	2.164	20	18.74	314	276	143.20	195.70	456	520	623	710	32.5	200	16.3	
4	2.175	20	18.78	314	277	143.00	196.00	455	517	624	708	30.0	200	15.0	
5	1.543	16	15.82	201	197	101.50	129.20	505	517	643	658	30.0	200	15.0	
6	1.491	16	15.55	201	190	98.20	129.00	488	517	642	680	35.0	200	17.5	
7	0.891	12	12.02	113	114	59.20	77.70	523	522	687	685	32.5	200	16.3	
8	0.890	12	12.02	113	113	58.50	77.70	517	516	687	686	30.0	200	15.0	
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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

Ajaz Ahmad Gondal

Test Performed By:

Dr. /Engr.

S. asad Ali Gillani

Acting Chief Resident Engineer, Trimu Panjnad Barrages Consultants(TPB Consultants)

Client Reference: TPBC/CRE/2187

SOM Lab Ref: 2253(Page-1/1)

Dated: 18-02-2020

Dated: 18-02-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Fazal Steel Islamabad)

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	0.647	4	0.492	0.20	0.190	5.78	9.19	63740	67090	101390	106730	1.00	8.0	12.5	
2	0.662	4	0.498	0.20	0.195	5.58	8.77	61490	63070	96670	99150	1.20	8.0	15.0	
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BEND TEST:

# 4	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

Nafiz OZCAN

Contractor's Representative, SA - RA Energy, Construction Trade and Industry co. Inc.

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: MIG/2020/192

Dated: 17-02-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2255(Page-2/2)

Dated: 18-02-2020

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	2.011	7	0.867	0.60	0.591	16.16	24.59	59390	60300	90380	91750	1.40	8.0	17.5	
2	2.014	7	0.868	0.60	0.592	16.28	24.62	59840	60650	90490	91710	1.50	8.0	18.8	
3	0.657	4	0.496	0.20	0.193	4.86	6.85	53620	55570	75540	78280	1.60	8.0	20.0	
4	0.658	4	0.496	0.20	0.193	4.94	6.85	54520	56500	75540	78280	1.60	8.0	20.0	
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Witnessed By: Fahad Zafar, Senior Engineer, NESPAK

BEND TEST:

# 7(Sr.1-2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
# 4(Sr.3-4)	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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Dy Dir MTL, Infra Dev Works IVY Green, Sector-Z, DHA Ph-VIII - (M/S MCC Ruba)

Client Reference: 408/241/E/Lab/847/2309

SOM Lab

Ref: 2256(Page-1/1)

Dated: 18-02-2020

Dated: 18-02-2020

Test: Tension Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (City 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	1.494	6	0.748	0.44	0.439	13.58	19.34	68060	68220	96930	97150	1.50	8.0	18.8	
2	1.484	6	0.745	0.44	0.436	13.58	19.24	68060	68690	96420	97300	1.40	8.0	17.5	
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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

Nafiz OZCAN

Test Performed By: Dr. /Engr. M Irfan Ur Hassan

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Co. Inc.

Client Reference: MIG/2020/189

SOM Lab Ref: 2260(Page-2/2)

Dated: 17-02-2020

Dated: 18-02-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (City 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	2.638	8	0.993	0.79	0.775	24.36	37.31	68020	69330	104160	106170	1.20	8.0	15.0	
2	2.635	8	0.993	0.79	0.774	24.82	37.69	69300	70730	105210	107380	1.20	8.0	15.0	
3	2.631	8	0.992	0.79	0.773	23.85	36.95	66590	68060	103160	105430	1.30	8.0	16.3	
4	1.491	6	0.747	0.44	0.438	13.99	20.71	70100	70420	103830	104300	1.30	8.0	16.3	
5	1.486	6	0.746	0.44	0.437	13.71	20.15	68730	69200	101020	101710	1.20	8.0	15.0	
6	1.483	6	0.745	0.44	0.436	13.91	20.59	69750	70390	103210	104160	1.20	8.0	15.0	
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Witnessed By: Talha Qamar, Jr. Engineer, NESPAK

BEND TEST:

# 8(Sr.1-2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 8(Sr.3)	Sample bend through 180 degrees Satisfactorily without any crack	
# 6(Sr.4-5)	Sample bend through 180 degrees Satisfactorily without any crack	
# 6(Sr. 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

Nafiz OZCAN

Test Performed By: Dr. /Engr. M Irfan Ur Hassan

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Co. Inc.

Client Reference: MIG/2020/189

Dated: 17-02-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 2260(Page-1/2)

Dated: 18-02-2020

Test Specification: ASTM-A-615

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	2.084	7	0.883	0.60	0.612	14.75	21.38	54220	53160	78580	77040	2.10	8.0	26.3	
2	2.103	7	0.887	0.60	0.618	15.04	21.56	55270	53660	79250	76940	2.00	8.0	25.0	
3	2.037	7	0.873	0.60	0.599	15.34	22.55	56390	56490	82880	83020	1.70	8.0	21.3	
4	0.651	4	0.493	0.20	0.191	4.76	6.93	52500	54970	76440	80040	1.70	8.0	21.3	
5	0.658	4	0.496	0.20	0.193	4.91	7.03	54180	56150	77560	80380	1.60	8.0	20.0	
6	0.655	4	0.494	0.20	0.192	4.84	6.95	53400	55620	76660	79860	1.70	8.0	21.3	
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Witnessed By: Talha Qamar, Jr. Engineer, NESPAK

BEND TEST:

# 7(Sr.1-2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 7(Sr.3)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(Sr.4-5)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(Sr. 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