

Shamshad Hussain  
Bukhari, PM

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

GMHP Consultants.(Design, Procurement & Const.Of 84MW Gorkin-Matiltan HydroPower Project)

Client Reference: 7208-11/PM(30)GMHPP/2023

Dated : 08-08-2023

SOM Lab Ref: CED/SOM/2865(Page-1/2)

Dated : 14-09-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Pak Steel)

Gauge Length: 200 m

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	2.324	20	19.41	314	296	112.20	166.00	357	380	528	561	37.5	200	18.8	
2	2.320	20	19.40	314	296	112.70	167.50	359	382	533	567	42.5	200	21.3	
3	1.514	16	15.67	201	193	98.20	124.70	488	510	620	647	37.5	200	18.8	
4	1.563	16	15.92	201	199	98.00	137.00	487	493	681	689	32.5	200	16.3	
5	1.621	16	16.21	201	206	89.70	134.20	446	435	667	650	42.5	200	21.3	
6	1.569	16	15.95	201	200	98.00	135.50	487	491	674	678	32.5	200	16.3	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Nine Samples Received and Tested</b>
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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](http://www.uet-civil.edu.pk)

Shamshad Hussain  
Bukhari, PM

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

GMHP Consultants.(Design, Procurement & Const.Of 84MW Gorkin-Matiltan HydroPower Project)

Client Reference: 7179-82/PM(30)GMHPP/2023

Dated : 01-08-2023

SOM Lab Ref: CED/SOM/2865(Page-2/2)

Dated : 14-09-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Pak Steel)

Gauge Length: 200 m

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	4.060	25	25.66	491	517	176.00	271.00	359	341	552	525	37.5	200	18.8	
2	4.035	25	25.58	491	514	174.20	267.70	355	339	545	521	42.5	200	21.3	
3	2.184	20	18.82	314	278	126.70	170.70	403	456	543	614	37.5	200	18.8	
4	2.193	20	18.86	314	279	129.00	171.20	411	462	545	613	37.5	200	18.8	
5	1.520	16	15.70	201	194	94.50	122.00	470	489	607	631	35.0	200	17.5	
6	1.513	16	15.67	201	193	95.00	122.70	472	493	610	637	37.5	200	18.8	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Nine Samples Received and Tested</b>
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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](http://www.uet-civil.edu.pk)

Aamir Shahzad Alvi  
 PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

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

Client Reference: QC/HQ/CIVIL/133

Dated : 14-09-2023

SOM Lab Ref: CED/SOM/2868(Page-1/1)

Dated : 14-09-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 m

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.877	12	11.94	113	112	52.70	76.20	466	471	674	681	35.0	200	17.5	
2	0.870	12	11.88	113	111	52.50	76.50	464	474	676	690	32.5	200	16.3	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Three Samples Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Ali Raza (Site Engineer)  
Expo Gold Lahore.

Test Performed By: Dr. /Engr. Rizwan Azam

Client Reference: Nil

SOM Lab

Ref: 2859 (Page-1/1)

Dated: 13-09-2023

Dated: 14-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.490	6	0.747	0.44	0.438	10.69	19.40	53600	53850	97230	97680	0.90	8.0	11.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Two Samples Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Syed Mohsin Ali RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

QA/QC Deptt. Bahria Town Lhr. (O.H.W.T at Bolock D-1 Bahria Orchard)

Client Reference: QA/QC/Steel-3329

SOM Lab

Ref: 2860 (Page-1/1)

Dated: 13-09-2023

Dated: 14-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.443	6	0.735	0.44	0.424	14.73	19.13	73830	76620	95910	99530	1.10	8.0	13.8	
2	1.468	6	0.741	0.44	0.431	15.24	19.85	76390	77980	99480	101560	1.30	8.0	16.3	
3	1.034	5	0.622	0.31	0.304	9.14	12.46	65050	66340	88620	90370	1.30	8.0	16.3	
4	1.110	5	0.644	0.31	0.326	9.79	13.53	69620	66210	96240	91510	1.50	8.0	18.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Six Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Muhammad Irfan  
ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

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

Client Reference: DOC-BMC/AJWA/106

SOM Lab

Ref: 2861 (Page-1/1)

Dated: 14-09-2023

Dated: 14-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.615	8	0.989	0.79	0.768	24.94	35.14	69640	71630	98100	100910	1.40	8.0	17.5	
2	2.633	8	0.993	0.79	0.774	23.01	32.72	64230	65560	91350	93240	1.30	8.0	16.3	
3	1.469	6	0.742	0.44	0.432	13.73	18.14	68830	70100	90950	92630	1.40	8.0	17.5	
4	1.487	6	0.746	0.44	0.437	14.29	18.73	71640	72130	93860	94510	1.50	8.0	18.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Asif Hayyat Bhatti

SR.Engr (Civil) Sui Northern Gas Pipelines Ltd.(Office Building at Central Base Store W/Shop Manga)

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

Client Reference: CC/PROJ/MANGA

Dated: 12-09-2023

Test: Tension Test & Bend Test  
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2862 (Page-1/1)

Dated: 14-09-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.497	6	0.748	0.44	0.440	14.75	19.64	73940	73940	98460	98460	1.30	8.00	16.3	
2	1.519	6	0.754	0.44	0.446	14.98	19.98	75110	74100	100150	98800	1.30	8.00	16.3	
3	0.653	4	0.494	0.20	0.192	5.96	8.02	65760	68500	88470	92150	1.10	8.00	13.8	
4	0.665	4	0.498	0.20	0.195	6.27	8.04	69130	70910	88690	90970	1.20	8.00	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Four Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Project Manager  
Alkhidmat Foundation Pakistan Lahore.

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

Client Reference: AKFP-D-2087

SOM Lab

Ref: 2864 (Page-1/1)

Dated: 04-09-2023

Dated: 14-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.47 2	6	0.74 3	0.4 4	0.43 3	15.11	19.69	75720	76950	98720	10031 0	1.2 0	8. 0	15. 0	
2	0.65 7	4	0.49 6	0.2 0	0.19 3	7.61	9.28	83970	87020	10229 0	10600 0	1.4 0	8. 0	17. 5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-  Only Two Samples Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)



Tahir Mehmood, Chief Engr

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

Zaitoon, New Lahore City. (Const Of O.H.T(Zaitoon City) By Arif Zaman Const Company Lhr)

Client Reference: NLC/CE/0156

SOM Lab

Ref: 2866 (Page-1/1)

Dated: 29-08-2023

Dated: 14-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (FF  
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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.764	8	1.017	0.79	0.812	25.86	36.70	72200	70240	102450	99670	1.50	8.0	18.8	
2	2.754	8	1.015	0.79	0.809	25.86	36.67	72200	70500	102360	99960	1.50	8.0	18.8	
3	0.670	4	0.501	0.20	0.197	6.52	8.66	71940	73040	95550	97000	1.10	8.0	13.8	
4	0.671	4	0.501	0.20	0.197	6.44	8.56	71040	72130	94420	95860	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Six Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Muhammad Yousaf

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

Quantity Surveyor Professional Const.Services Lahore.(Allied Bank DR Center Faisalabad)

Client Reference: PCS/23/Eng/152

SOM Lab

Ref: 2867 (Page-1/1)

Dated: 14-09-2023

Dated: 14-09-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.584	8	0.983	0.79	0.759	27.85	34.32	77750	80920	95820	99730	1.40	8.0	17.5	
2	2.584	8	0.983	0.79	0.759	27.68	34.30	77270	80420	95760	99670	1.30	8.0	16.3	
3	1.514	6	0.753	0.44	0.445	15.62	19.13	78280	77400	95910	94830	1.30	8.0	16.3	
4	1.501	6	0.749	0.44	0.441	15.70	19.24	78690	78510	96420	96200	1.20	8.0	15.0	
5	1.075	5	0.634	0.31	0.316	10.52	13.48	74840	73420	95880	94050	1.20	8.0	15.0	
6	1.072	5	0.633	0.31	0.315	10.45	13.56	74340	73160	96460	94920	1.10	8.0	13.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:- Only Six Samples Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)