

Sohail Afzal

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Sr. Project Manager IZHAR GROUP OF COMPANIES, Lahore

Client Reference: ICPL/CONST-DML/21/42

Dated: 17-03-2021

SOM Lab Ref: CED/SOM/4053(Page-1/1)

Dated: 17-03-2021

Test: Tension Test

Test Specification: ASTM-A 307

Sample Type: J- Bolt

Gauge Length: 250 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	5.641	30	30.26	707	719	236.20	362.00	334	329	512	504	55.0	250	22.0	
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BEND TEST:

-- No Bend test performed

Note:-Only One Sample
Received and TestedNote: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sohail Afzal

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Sr. Project Manager IZHAR GROUP OF COMPANIES, Lahore

Client Reference: ICPL/CONST-DML/21/42

Dated: 17-03-2021

SOM Lab Ref: CED/SOM/4053(Page-2/2)

Dated: 17-03-2021

Test: Tension Test

Test Specification: ASTM-A 307

Sample Type: J- Bolt

Gauge Length: 250 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	3.595	25	24.15	491	458	198.20	302.20	404	433	616	660	50.0	250	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

-- No Bend test performed

Note:-Only One Sample
Received and TestedNote: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sana Ullah Cheema
Resident Engineer AZEngineering Associates, Gujrat Residency

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: RE AZEA/GT-92

Dated: 28-01-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4051 (Page-1/1)

Dated: 17-03-2021

ASTM-A-615

Depormed

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	1.546	6	0.760	0.44	0.454	12.84	17.20	64380	62400	86200	83540	1.40	8.0	17.5	
2	1.512	6	0.752	0.44	0.444	13.02	17.33	65250	64660	86860	86080	1.50	8.0	18.8	
3	0.677	4	0.503	0.20	0.199	5.12	7.10	56430	56720	78350	78740	1.60	8.0	20.0	
4	0.673	4	0.502	0.20	0.198	5.02	7.00	55310	55870	77230	78010	1.60	8.0	20.0	
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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

Nafiz OZCAN

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

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: MIG/2021/231

Dated: 16-03-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4052(Page-1/1)

Dated: 17-03-2021

ASTM-A-615

Deformed Bar(SJ 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	2.629	8	0.992	0.79	0.773	26.71	33.54	74560	76200	93630	95690	1.30	8.0	16.3	
2	2.636	8	0.993	0.79	0.775	27.73	34.30	77410	78910	95760	97620	1.30	8.0	16.3	
3	2.617	8	0.990	0.79	0.769	27.27	33.74	76130	78210	94200	96770	1.30	8.0	16.3	
4	1.486	6	0.746	0.44	0.437	15.87	20.44	79560	80100	102450	103150	1.10	8.0	13.8	
5	1.497	6	0.748	0.44	0.440	16.18	20.51	81090	81090	102800	102800	1.20	8.0	15.0	
6	1.770	6	0.814	0.44	0.520	15.80	20.31	79200	67020	101780	86120	1.00	8.0	12.5	
7	0.699	4	0.511	0.20	0.205	8.00	9.48	88240	86090	104540	101990	1.10	8.0	13.8	
8	0.694	4	0.510	0.20	0.204	7.75	9.19	85430	83760	101390	99410	1.20	8.0	15.0	
9	0.697	4	0.511	0.20	0.205	7.61	9.14	83970	81920	100830	98370	1.10	8.0	13.8	
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Witnessed By:

Sohaib Ali, Sub-Engineer, Nespak

BEND TEST:

# 8(Sr.1&2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eighteen 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	
# 4(Sr.7,8,9)	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 salman Liaqat
Resident Engineer, NESPAK (Pvt) Ltd., Jhall Road Flyover, Sahiwal

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 4116/03/SSL/2021/87

Dated: 16-03-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4054(Page-1/1)

Dated: 17-03-2021

ASTM-A-615

Deformed Bar (SJ 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	2.725	8	1.010	0.79	0.801	27.73	36.65	77410	76340	102310	100900	1.60	8.0	20.0	
2	1.563	6	0.764	0.44	0.459	17.64	22.02	88400	84740	110370	105800	1.00	8.0	12.5	
3	1.550	6	0.762	0.44	0.456	17.94	21.94	89930	86770	109960	106100	1.00	8.0	12.5	
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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	
# 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

Engineer In Charge
PMBMC, BHAKHER

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

Client Reference: CS/MB/2/PKPTN/NMB/CONS/NOC/03/15
 Dated: 17-03-2021
 Test: Tension Test & Bend Test
 Gauge Length: 8 inch

SOM Lab
 Ref: 4055(Page-1/1)
 Dated: 17-03-2021
 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	1.497	6	0.748	0.44	0.440	13.66	19.42	68470	68470	97340	97340	1.70	8.0	21.3	
2	0.665	4	0.498	0.20	0.195	7.62	10.72	84080	86240	118250	121290	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Li Shi
Manager, Sinohydro Corporation Limited, Pakistan

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

Client Reference: ADB-301B/2018/205

SOM Lab Ref: 4057-4058(Page-1/1)

Dated: 15-03-2021

Dated: 17-03-2021

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	3.363	9	1.122	1.00	0.988	26.71	37.67	58900	59620	83070	84080	1.90	8.0	23.8	
2	3.379	9	1.124	1.00	0.993	25.69	36.75	56660	57060	81050	81620	1.80	8.0	22.5	
3	3.369	9	1.123	1.00	0.990	27.62	38.04	60930	61540	83900	84750	1.80	8.0	22.5	
4	3.399	9	1.128	1.00	0.999	26.91	36.87	59350	59410	81320	81400	1.80	8.0	22.5	
5	1.540	6	0.759	0.44	0.453	14.12	20.29	70770	68740	101680	98760	1.20	8.0	15.0	
6	1.503	6	0.750	0.44	0.442	13.05	19.49	65400	65110	97690	97250	1.40	8.0	17.5	
7	0.670	4	0.501	0.20	0.197	5.58	7.61	61490	62430	83970	85250	1.40	8.0	17.5	
8	0.659	4	0.497	0.20	0.194	5.40	7.39	59580	61420	81500	84020	1.40	8.0	17.5	
9	0.657	4	0.496	0.20	0.193	5.78	7.70	63740	66050	84870	87950	1.30	8.0	16.3	
10	0.667	4	0.500	0.20	0.196	5.56	7.59	61270	62520	83750	85460	1.50	8.0	18.8	

Witnessed By: Amjad Tufail, S. E. NESPAK

BEND TEST:

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

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

Client Reference: IHPL/Steel/064

SOM Lab

Ref: 4059(Page-1/1)

Dated: 13-02-2021

Dated: 17-03-2021

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	2.678	8	1.001	0.79	0.787	25.08	35.27	70010	70280	98470	98840	1.40	8.0	17.5	
2	2.682	8	1.002	0.79	0.788	24.62	35.24	68730	68900	98380	98630	1.50	8.0	18.8	
3	2.697	8	1.005	0.79	0.793	24.77	35.14	69160	68890	98100	97720	1.30	8.0	16.3	
4	2.677	8	1.001	0.79	0.787	23.24	33.97	64890	65130	94820	95180	1.30	8.0	16.3	
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BEND TEST:

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

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/067

Dated: 16-02-2021

SOM Lab

Ref: 4060(Page-1/1)

Dated: 17-03-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

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	2.675	8	1.000	0.79	0.786	24.26	34.76	67730	68080	97040	97540	1.50	8.0	18.8	
2	2.688	8	1.003	0.79	0.790	24.67	34.96	68870	68870	97610	97610	1.50	8.0	18.8	
3	2.679	8	1.001	0.79	0.787	24.16	34.83	67450	67700	97240	97610	1.30	8.0	16.3	
4	2.687	8	1.003	0.79	0.790	24.77	35.24	69160	69160	98380	98380	1.40	8.0	17.5	
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BEND TEST:

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

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/063

Dated: 13-02-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4061(Page-1/1)

Dated: 17-03-2021

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	1.481	6	0.744	0.44	0.435	12.86	18.62	64480	65230	93350	94420	1.30	8.0	16.3	
2	1.470	6	0.742	0.44	0.432	13.53	19.34	67810	69060	96930	98720	1.20	8.0	15.0	
3	1.460	6	0.739	0.44	0.429	13.93	20.05	69850	71640	100500	103080	1.30	8.0	16.3	
4	1.496	6	0.748	0.44	0.440	13.15	19.06	65910	65910	95550	95550	1.40	8.0	17.5	
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BEND TEST:

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

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/066

Dated: 16-02-2021

SOM Lab

Ref: 4062(Page-1/1)

Dated: 17-03-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

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	1.508	6	0.751	0.44	0.443	13.40	19.22	67190	66740	96320	95660	1.20	8.0	15.0	
2	1.486	6	0.746	0.44	0.437	13.30	19.01	66680	67140	95290	95950	1.20	8.0	15.0	
3	1.499	6	0.749	0.44	0.441	12.76	18.76	63970	63830	94020	93800	1.40	8.0	17.5	
4	1.491	6	0.747	0.44	0.438	13.00	18.76	65150	65450	94020	94450	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/065

Dated: 16-03-2021

SOM Lab

Ref: 4063(Page-1/1)

Dated: 17-03-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

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	0.671	4	0.501	0.20	0.197	5.93	8.82	65420	66420	97230	98720	1.40	8.0	17.5	
2	0.674	4	0.502	0.20	0.198	5.93	8.84	65420	66090	97460	98440	1.40	8.0	17.5	
3	0.667	4	0.500	0.20	0.196	5.96	8.82	65760	67100	97230	99220	1.30	8.0	16.3	
4	0.670	4	0.501	0.20	0.197	6.03	8.89	66550	67560	98020	99510	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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

Test Performed by: Dr. Asad Ali Gillani

General Manager
United Wire Products Co.
G. T. Road Salamatpura Bus Stop.Lahore

Client Reference No.: Nil

Dated: 17-03-2021

SOM Lab Ref: CED/SOM/4056 (Page 1/1)

Dated: 17-03-2021

Test Type: Tensile Test

Sample Type: Wire Carbon Content (SAW-1006,1008)

Tensile Test Results

Sample No.	Sample Type	Sample Dia (mm)	Ultimate Load (kN)	Ultimate Tensile Strength (MPa)	Ultimate Tensile Stress (ksi)
1	Wire	1.2	1.0	884.95	128.35

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