

Test Performed by: Dr.Asad Ali Gillani

Ahmet KoC

RE Diamer Basha Consultants Group (DBCG)

Diamer Basha Dam Project) (Contract MW-1: DAM Part (Civil Works) and Tangir Hydropower Works)

Client Reference No.: DBCG/Lab/PFJV/2024/037

Dated: 11-09-2024 SOM

Lab Ref: CED/SOM/4792(Page 1/1)

Dated: 13-09-2024

Test Type: Hardness Test & Tensile Test

Sample Type: Anchorage Block & Wedges (Strong-force)

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 50.0 kgf Scale: A)

Hardness Test Results

Sr #	Sample Type	Sample No.	Hardness Avg
1	Wedge	PTW-S1-2024-04	HR –81.83 – A
2	Wedge	PTW-S1-2024-04	HR –82.0 – A
3	Anchor Block	PTAB-S1-2024-04	HR –52.16 – A

Sample Type: Bearing Plate (PTBP-S1-2024-04)

Specification: ASTM-A36

Gauge Length: 2 inches

Tensile Test Results

Sr. No.	Size of strip (mm)	X Section Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	35.0 x 22.50	787.50	348.00	444.20	441.90	564.06	0.80	40.00
2	38.0 x 22.50	855.00	368.00	476.70	430.41	557.54	0.90	45.00

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

Test Performed by: S. Asad Ali Gillani

Salman Akhtar Khan
Assistant Resident Engineer
NESPAK Lahore.

(Pakistan Kidney Liver Institute And Research Center Pkg C-I,Phase-I, Lahore)

Client Reference No.: 3836/AA/10/C-1-MEP-HVAC-MTR-86

Dated: 11-09-2024

SOM Lab Ref: CED/SOM/4803 (Page 1/2)

Dated: 13-09-2024

Test Type: Tensile Test

Specification: ASTM A 106

Sample Type: MS Seamless Pipe (Dia 2-1/2")

Gauge Length: 2 inches

Tensile & Bend Test Results

Sr. No	Sample Type	Size of strip (mm)	X Section Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	MS Seamless Pipe	25.0 x 5.3	132.50	37.5	61.2	283.01	461.88	0.40	20.00

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

Test Performed by: S. Asad Ali Gillani

Salman Akhtar Khan
Assistant Resident Engineer
NESPAK Lahore.

(Pakistan Kidney Liver Institute And Research Center Pkg C-I,Phase-I, Lahore)

Client Reference No.: 3836/AA/10/C-1-MEP-HVAC-MTR-86

Dated: 11-09-2024

SOM Lab Ref: CED/SOM/4803 (Page 2/2)

Dated: 13-09-2024

Test Type: Dimension Test/Schedule Test

Dimension Test Results

Sr. No.	Sample Type	Weight (g)	Length (Cm)	External Dia (mm)	Internal Dia (mm)	Weight per Unit Area (Kg/m)	Wall Thickness (mm)
1	MS Seamless Pipe (Dia 2-1/2")	2237	27.1	73.1	62.5	8.25	5.30

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

M. Yasir Kiani, RE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

JCP Wahga NESPAK. (Expansion Of Joint Check Post Wahga, Lahore)

Client Reference: 4749/031/YK/01/58

SOM Lab

Ref: 4793 (Page-1/1)

Dated: 09-09-2024

Dated: 13-09-2024

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	2.597	8	0.986	0.79	0.763	22.48	35.98	62750	64970	100460	104010	1.50	8.0	18.8	Aziz
2	2.703	8	1.005	0.79	0.794	23.96	37.97	66880	66540	106010	105470	1.40	8.0	17.5	Aziz
3	2.707	8	1.007	0.79	0.796	23.92	37.72	66790	66290	105300	104500	1.40	8.0	17.5	Aziz
4	1.459	6	0.739	0.44	0.429	13.91	19.67	69750	71540	98610	101140	1.50	8.0	18.8	Markhor
5	1.497	6	0.748	0.44	0.440	13.56	18.67	67960	67960	93610	93610	1.40	8.0	17.5	Markhor
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Witnessed By: Sohail Sulehri (NESPAK)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Seven Samples Received and Tested</p>
# 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

M. Yasir Kiani, RE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

JCP Wahga NESPAK. (Expension Of Joint Check Post Wahga, Lahore)

Client Reference: 4749/031/YK/01/54

SOM Lab

Ref: 4794 (Page-1/1)

Dated: 12-09-2024

Dated: 13-09-2024

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Markhor 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	1.470	6	0.742	0.44	0.432	16.13	19.72	80830	82330	98870	100700	1.10	8.0	13.8	
2	1.458	6	0.738	0.44	0.428	14.39	18.30	72150	74170	91720	94290	1.20	8.0	15.0	
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Witnessed By: Sohail Sulehri (NESPAK)

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

Client Reference: MS/MKT/Lett/UET/001

SOM Lab

Ref: 4795 (Page-1/1)

Dated: 13-09-2024

Dated: 13-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal 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	2.625	8	0.991	0.79	0.771	25.28	33.79	70580	72320	94340	96660	1.20	8.0	15.0	
2	2.627	8	0.991	0.79	0.772	25.48	33.71	71150	72810	94110	96310	1.30	8.0	16.3	
3	1.478	6	0.743	0.44	0.434	14.02	19.08	70260	71230	95650	96970	1.30	8.0	16.3	
4	1.477	6	0.743	0.44	0.434	13.88	18.93	69590	70560	94880	96200	1.40	8.0	17.5	
5	1.040	5	0.624	0.31	0.306	10.55	13.76	75060	76040	97910	99190	1.50	8.0	18.8	
6	1.045	5	0.625	0.31	0.307	10.55	13.78	75060	75800	98050	99010	1.30	8.0	16.3	
7	0.663	4	0.498	0.20	0.195	6.49	8.79	71610	73440	96900	99380	1.20	8.0	15.0	
8	0.657	4	0.496	0.20	0.193	6.42	8.63	70820	73390	95210	98660	1.10	8.0	13.8	
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BEND TEST:

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

Sher Afgan, XEN

Test Performed By:

Dr. /Engr. Asad Ali Gillani

GE(Army)-I Gwa.(Const of 1 x JCO Club for 97 Sig Bn at Gwa Cantt)

Client Reference: 6180-2802/22/E-6

SOM Lab

Ref: 4796 (Page-1/3)

Dated: 12-09-2024

Dated: 13-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Naveena 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	1.498	6	0.748	0.44	0.440	15.62	19.22	78280	78280	96320	96320	1.20	8.0	15.0	
2	1.066	5	0.631	0.31	0.313	10.81	13.43	76880	76140	95510	94600	1.30	8.0	16.3	
3	0.668	4	0.500	0.20	0.196	6.47	8.19	71380	72840	90270	92110	1.00	8.0	12.5	
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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

Sher Afgan, XEN

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

GE(Army)-I Gwa.(Const of 2 x MT Shed For 91 Sig Bn and 97 Sig Bn at Gwa Cantt)

Client Reference: 6180-2806/17/E-6

SOM Lab

Ref: 4796 (Page-2/3)

Dated: 12-09-2024

Dated: 13-09-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Naveena 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	1.068	5	0.632	0.31	0.314	10.67	13.30	75930	74970	94640	93440	1.30	8.0	16.3	
2	0.668	4	0.500	0.20	0.196	6.44	8.18	71040	72490	90150	91990	1.00	8.0	12.5	
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BEND TEST:

# 5	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

Sher Afgan, XEN

Test Performed By:

Dr. /Engr. Asad Ali Gillani

GE(Army)-I Gwa.(Const of 1 x 192 Men SM Bk, 91 Sig Bn at Gwa Cantt)

Client Reference: 6180-2803/17/E-6

SOM Lab

Ref: 4796 (Page-3/3)

Dated: 27-08-2024

Dated: 13-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz 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	2.620	8	0.990	0.79	0.770	22.63	37.10	63180	64820	103590	106280	1.30	8.0	16.3	
2	1.458	6	0.738	0.44	0.428	12.28	19.67	61570	63300	98610	101380	1.40	8.0	17.5	
3	1.037	5	0.623	0.31	0.305	9.40	14.50	66870	67960	103130	104820	1.20	8.0	15.0	
4	0.674	4	0.502	0.20	0.198	5.66	8.20	62390	63020	90380	91290	1.10	8.0	13.8	
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BEND TEST:

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

Sub Divisional officer,

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

HSD Burewala.(Const Of Pile Foundation Bridge Over Pakpattan Canal Distt Vehari)

Client Reference: 529/SDB

SOM Lab

Ref:

4797 (Page-1/1)

Dated: 03-09-2024

Dated:

13-09-2024

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	2.595	8	0.986	0.79	0.763	24.87	35.90	69440	71900	100230	103780	1.20	8.0	15.0	
2	2.592	8	0.985	0.79	0.762	23.87	35.55	66650	69100	99230	102880	1.30	8.0	16.3	
3	1.496	6	0.748	0.44	0.440	13.22	19.52	66270	66270	97850	97850	1.20	8.0	15.0	
4	1.496	6	0.748	0.44	0.440	13.43	19.83	67290	67290	99380	99380	1.20	8.0	15.0	
5	0.666	4	0.500	0.20	0.196	6.24	7.54	68800	70200	83180	84880	1.00	8.0	12.5	
6	0.668	4	0.500	0.20	0.196	6.42	7.72	70820	72270	85100	86830	1.10	8.0	13.8	
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BEND TEST:

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

M. Imran Saeed, PM
GCC,Lahore. (Gulberg City Center,Gulberg II, Lahore)

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

Client Reference: Nil

SOM Lab

Ref: 4798(Page-1/1)

Dated: 12-09-2024

Dated: 13-09-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	2.397	8	0.947	0.79	0.704	25.69	32.18	71720	80480	89840	100820	1.30	8.0	16.3	
2	0.669	4	0.501	0.20	0.197	6.70	8.66	73850	74980	95550	97000	1.20	8.0	15.0	
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BEND TEST:

# 8	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

Client Reference: Nil
Dated: 11-09-2024

SOM Lab
Ref: 4799 (Page-1/1)
Dated: 13-09-2024

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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	2.636	8	0.993	0.79	0.775	24.67	33.33	68870	70200	93060	94860	1.20	8.0	15.0	
2	2.643	8	0.995	0.79	0.777	24.64	33.49	68790	69940	93490	95050	1.40	8.0	17.5	
3	1.472	6	0.743	0.44	0.433	13.91	18.27	69750	70870	91560	93040	1.20	8.0	15.0	
4	1.480	6	0.744	0.44	0.435	14.04	18.47	70360	71170	92590	93650	1.10	8.0	13.8	
5	0.673	4	0.502	0.20	0.198	6.39	8.61	70480	71190	94990	95950	1.10	8.0	13.8	
6	0.670	4	0.501	0.20	0.197	6.37	8.63	70260	71330	95210	96660	1.20	8.0	15.0	
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BEND TEST:

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

Awais Nazir,XEN

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

GE(Army)-II LRC.(Const Of 1 x MIC Igloo at 3 LOMAD regt Lhr)

Client Reference: 6003/173/E6

SOM Lab

Ref:

4800 (Page-1/1)

Dated: 02-07-2024

Dated:

13-09-2024

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	2.604	8	0.987	0.79	0.765	24.82	32.42	69300	71560	90500	93460	1.50	8.0	18.8	
2	1.438	6	0.734	0.44	0.423	14.53	18.37	72810	75740	92070	95770	1.40	8.0	17.5	
3	1.046	5	0.625	0.31	0.307	10.55	13.68	75060	75800	97330	98280	1.40	8.0	17.5	
4	0.666	4	0.500	0.20	0.196	6.93	8.66	76440	78000	95550	97500	1.10	8.0	13.8	
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BEND TEST:

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

Engineer Muhammad Irfan
Dy Dir Infra. DHA Gujranwala.(Sector D)

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

Client Reference: 111/DD/Lab/Sec-D/139

SOM Lab

Ref: 4801 (Page-1/2)

Dated: 30-08-2024

Dated: 13-09-2024

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	2.729	8	1.011	0.79	0.802	29.61	36.36	82670	81440	101510	99990	1.50	8.0	18.8	
2	2.641	8	0.994	0.79	0.776	25.18	34.83	70290	71560	97240	99000	1.40	8.0	17.5	
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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

Engineer Muhammad Irfan
Dy Dir Infra. DHA Gujranwala.(Sector D)

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

Client Reference: 111/DD/Lab/D/160

SOM Lab

Ref: 4801 (Page-2/2)

Dated: 12-09-2024

Dated: 13-09-2024

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	0.654	4	0.494	0.20	0.192	6.12	8.41	67450	70260	92740	96600	1.00	8.0	12.5	
2	0.668	4	0.500	0.20	0.196	6.73	9.12	74190	75710	100610	102660	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Capt ® Ali Abbas Hashmi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM 7 Canal Developers.(7 Canal Residential Apartments Buildings)

Client Reference: Nil

SOM Lab

Ref:

4802 (Page-1/1)

Dated: 12-09-2024

Dated:

13-09-2024

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	2.651	8	0.996	0.79	0.779	29.61	36.49	82670	83840	101880	103320	1.50	8.0	18.8	
2	2.637	8	0.993	0.79	0.775	29.15	36.34	81390	82970	101450	103420	1.50	8.0	18.8	
3	1.490	6	0.747	0.44	0.438	15.34	19.18	76900	77250	96160	96600	1.30	8.0	16.3	
4	1.501	6	0.749	0.44	0.441	15.77	19.75	79050	78870	98970	98750	1.20	8.0	15.0	
5	1.091	5	0.639	0.31	0.321	10.67	13.17	75930	73330	93700	90490	1.50	8.0	18.8	
6	1.089	5	0.638	0.31	0.320	10.72	13.17	76300	73910	93700	90770	1.30	8.0	16.3	
7	0.670	4	0.501	0.20	0.197	5.58	7.21	61490	62430	79470	80690	1.30	8.0	16.3	
8	0.671	4	0.501	0.20	0.197	5.73	7.41	63180	64140	81720	82970	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

