Test Performed by: Dr. Irfan Ul Hassan

Engr. Zaheer Ud Din Babar,
Dy.General Manager (Works)
Habib Rafiq Engineering (Pvt.) Ltd, Lahore
(Construction of Sky Gardens Tower, Lahore.)

Client Reference No.: HRLE/SKG/2024/L-12/102-16/169 Dated: 21-10-2024
SOM Lab Ref: CED/SOM/038-059(Page-1/1) Dated: 22-10-2024
Test: Tensile Test
Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

Tension Test Results

Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Remarks
	(mm)	(mm^2)	kN	kN	(Mpa)	(Mpa)	
1	16	201	104.0	130.7	517	650	failure at threaded Portion
2	16	201	97.0	122.0	483	607	failure at threaded Portion

Witnessed by: M.Irfan QC Engr/HRL, Najam Shabbir Khan Site Engineer/101 Group
Note: Please always confirm the results on web www.uet-civil.edu.pk

Nisir Mahmood **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Sn RE ESAC DHA Multan.(Const Of Bahauddin Zakrya Gate DHA Multan)

Client Reference: RE/ESAC/BZ Gate/17 **SOM Lab Ref:** 066 (Page-1/1)

Dated: 17-10-2024 **Dated:** 22-10-2024

Test: Tension Test **Test Specification:** ASTM-F-1554

Guage Length: 200 mm **Sample Type:** J-Bolt

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	2.597	20	20.53	314	331	122.00	178.50	389	369	568	540	40.0	200	20.0	
2	2.552	20	20.34	314	325	124.50	184.00	396	384	586	567	35.0	200	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

Client Reference No.: NESPAK/PRSWSSP/TAUNSA/RE/405 **Dated:** 21-10-2024

SOM Lab Ref: CED/SOM/071 **Dated:** 23-10-2024

Test Type: Load Test of RPC Manhole Cover (HMD Water Supply Center)

Test Standard: Non-standard test was performed as per requirement of the client [Application of load at the center of the Manhole Cover through circular thick steel plate of 377mm diameter]

Test Performed by: Dr. Asad Ali Gillani

Rabab Ali

Resident Engineer

NESPAK (Pvt.) Ltd PRSWSSP,Taunsa.

(PRMSC,PRSWSSP Tehsil Taunsa) (Package-II & V)

This is with reference to your above-mentioned letter and SOM receipt No. 071 dated: 22-10-2024. The sample of RPC Manhole Cover submitted in the Laboratory has been tested and the result is provided below.

Load Test Result

Weight of Manhole Cover With Ring	Diameter of Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
49.35 Kg	640 mm	74.30 mm	14300 kg	The sample was cracked at this load

Muhammad Yaseen **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Sr Project Manager Hassan Const Company.(TCCC Manual Color Filling and Buffer Room)

Client Reference: HC-CPS-03 **SOM Lab Ref:** 058 (Page-1/1)

Dated: 22-10-2024 **Dated:** 22-10-2024

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	1.454	6	0.737	0.44	0.427	13.22	18.35	66270	68290	91970	94770	1.30	8.0	16.3	
2	1.451	6	0.736	0.44	0.426	13.30	18.55	66680	68870	92990	96050	1.30	8.0	16.3	
3	0.672	4	0.501	0.20	0.197	6.27	8.63	69130	70190	95210	96660	1.30	8.0	16.3	
4	0.662	4	0.498	0.20	0.195	6.32	8.53	69700	71480	94090	96500	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six 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 L)

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

Client Reference: 111/DD/Lab/L/1340
Dated: 21-10-2024

SOM Lab Ref: 060 (Page-1/1)
Dated: 22-10-2024

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	2.665	8	0.998	0.79	0.783	26.37	34.83	73620	74280	97240	98110	1.50	8.0	18.8	
2	2.670	8	1.000	0.79	0.785	28.49	36.46	79540	80050	101800	102440	1.50	8.0	18.8	
3	0.668	4	0.500	0.20	0.196	6.52	8.28	71940	73410	91280	93140	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	6.83	8.72	75320	76460	96110	97570	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Engr Muhammad Salman Q **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

RE ARY Laguna DHA Gujranwala.(ARY Laguna Phase-01 DHA Gujranwala)

Client Reference: ARY(Gujr)/Eng/RE/003/24 **SOM Lab Ref:** 061 (Page-1/1)

Dated: 21-10-2024 **Dated:** 22-10-2024

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	1.474	6	0.743	0.44	0.433	14.70	18.88	73680	74870	94630	96160	1.30	8.0	16.3	
2	1.480	6	0.744	0.44	0.435	15.57	19.44	78020	78920	97440	98560	1.40	8.0	17.5	
3	0.668	4	0.500	0.20	0.196	6.75	8.74	74420	75940	96340	98300	1.40	8.0	17.5	
4	0.668	4	0.500	0.20	0.196	6.24	8.69	68800	70200	95770	97730	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: Nil
Dated: 22-10-2024

SOM Lab Ref: 062 (Page-1/7)
Dated: 22-10-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime 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	2.528	8	0.973	0.79	0.743	23.47	34.58	65510	69660	96530	102640	0.90	8.0	11.3	H # 1
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: Nil
Dated: 22-10-2024

SOM Lab Ref: 062 (Page-2/7)
Dated: 22-10-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime 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	2.722	8	1.009	0.79	0.800	23.01	35.44	64230	63430	98950	97710	0.90	8.0	11.3	H # 2
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: Nil
Dated: 22-10-2024

SOM Lab Ref: 062 (Page-3/7)
Dated: 22-10-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime 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	2.650	8	0.996	0.79	0.779	22.45	36.16	62670	63550	100940	102370	0.90	8.0	11.3	H # 3
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: Nil
Dated: 22-10-2024

SOM Lab Ref: 062 (Page-4/7)
Dated: 22-10-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime 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	0.976	5	0.604	0.31	0.287	8.31	13.07	59110	63840	92970	100420	1.00	8.0	12.5	
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: Nil
Dated: 22-10-2024

SOM Lab Ref: 062 (Page-5/7)
Dated: 22-10-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime 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	0.673	4	0.502	0.20	0.198	5.63	8.51	62050	62680	93860	94810	1.10	8.0	13.8	H # 1
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: Nil
Dated: 22-10-2024

SOM Lab Ref: 062 (Page-6/7)
Dated: 22-10-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime 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	0.667	4	0.500	0.20	0.196	5.96	8.87	65760	67100	97800	99790	1.20	8.0	15.0	H # 2
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: Nil
Dated: 22-10-2024

SOM Lab Ref: 062 (Page-7/7)
Dated: 22-10-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime 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	0.671	4	0.501	0.20	0.197	6.01	8.84	66320	67330	97460	98940	1.10	8.0	13.8	H # 3
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Engr. Naveed Sadiq **Test Performed By:** **Dr. /Engr.** Wasim Abbas

RE Orbit Developers.Lahore.(The Springs Atrium,Gulberg Lahore)

Client Reference: Nil **SOM Lab Ref:** 063 (Page-1/1)

Dated: 22-10-2024 **Dated:** 22-10-2024

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	2.650	8	0.996	0.79	0.779	23.72	36.06	66220	67160	100660	102080	1.30	8.0	16.3	
2	2.630	8	0.992	0.79	0.773	24.08	36.09	67220	68700	100740	102960	1.40	8.0	17.5	
3	1.463	6	0.740	0.44	0.430	13.07	19.22	65510	67030	96320	98550	1.20	8.0	15.0	
4	1.460	6	0.739	0.44	0.429	13.20	19.32	66170	67870	96830	99310	1.30	8.0	16.3	
5	0.662	4	0.498	0.20	0.195	6.22	8.82	68570	70330	97230	99730	1.10	8.0	13.8	
6	0.668	4	0.500	0.20	0.196	6.93	9.65	76440	78000	106450	108620	1.20	8.0	15.0	
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BEND TEST:

# 8	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

Note:-

Only Nine Samples Received and Tested

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

Abdul Baseet **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

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

Client Reference: DOC-BMC/AJWA/147 **SOM Lab Ref:** 064 (Page-1/1)

Dated: 21-10-2024 **Dated:** 22-10-2024

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	2.647	8	0.995	0.79	0.778	27.22	36.49	75980	77160	101880	103450	1.50	8.0	18.8	
2	2.650	8	0.996	0.79	0.779	28.75	37.61	80250	81390	105010	106490	1.40	8.0	17.5	
3	0.671	4	0.501	0.20	0.197	6.19	8.35	68230	69270	92060	93470	1.30	8.0	16.3	
4	0.667	4	0.500	0.20	0.196	6.27	8.43	69130	70540	92960	94860	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Punjab Aab-e-Pak Authority **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

AM P&MC Rwp Div North Zone.(Installation Of Water Filtration Plant at Village Dhoong Distt Rwp)

Client Reference: PAPA/DM (P&MC)/RWP/10-04/06-10 **SOM Lab Ref:** 065 (Page-1/1)

Dated: 04-10-2024 **Dated:** 22-10-2024

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	0.666	4	0.500	0.20	0.196	6.98	8.43	77000	78570	92960	94860	1.20	8.0	15.0	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Shamshad Hussain Bukhari,PM **Test Performed By:** **Dr. /Engr.** Nauman Khurram
GMHP Consultants.(Design, Procurement & Const.Of 84MW Gorkin-Matiltan HydroPower Project)

Client Reference: 8292-94/PM/30/GMHPP/2024 **SOM Lab Ref:** 068 (Page-1/2)
Dated: 12-10-2024 **Dated:** 22-10-2024

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	2.617	8	0.990	0.79	0.769	24.41	32.87	68160	70020	91780	94280	1.50	8.0	18.8	Hunza
2	2.630	8	0.992	0.79	0.773	24.33	32.77	67930	69430	91490	93510	1.60	8.0	20.0	Hunza
3	2.557	8	0.978	0.79	0.751	18.81	30.84	52510	55230	86090	90560	1.40	8.0	17.5	Isb
4	2.566	8	0.980	0.79	0.754	19.01	30.94	53080	55610	86370	90500	1.40	8.0	17.5	Isb
5	1.437	6	0.733	0.44	0.422	10.91	17.50	54670	57010	87730	91470	1.40	8.0	17.5	Isb
6	1.449	6	0.736	0.44	0.426	11.01	17.71	55190	57000	88750	91670	1.60	8.0	20.0	Isb
7	1.646	6	0.785	0.44	0.484	16.26	21.61	81500	74090	108320	98480	1.40	8.0	17.5	Hunza
8	1.664	6	0.789	0.44	0.489	16.23	21.63	81340	73190	108420	97560	1.50	8.0	18.8	Hunza
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Shamshad Hussain Bukhari,PM **Test Performed By:** **Dr. /Engr.** Nauman Khurram
GMHP Consultants.(Design, Procurement & Const.Of 84MW Gorkin-Matiltan HydroPower Project)

Client Reference: 8292-94/PM/30/GMHPP/2024 **SOM Lab Ref:** 068 (Page-2/2)
Dated: 12-10-2024 **Dated:** 22-10-2024

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	1.074	5	0.634	0.31	0.316	9.96	12.74	70860	69510	90650	88930	1.50	8.0	18.8	Hunza
2	1.079	5	0.635	0.31	0.317	9.99	12.76	71070	69500	90800	88790	1.60	8.0	20.0	Hunza
3	0.667	4	0.500	0.20	0.196	6.54	8.61	72170	73640	94990	96930	1.30	8.0	16.3	Hunza
4	0.668	4	0.500	0.20	0.196	6.32	8.41	69700	71120	92740	94630	1.40	8.0	17.5	Hunza
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Engineer **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Capital Ata Tower Lahore.(Project: Capital Ata Tower,Plot No.1 Ferozepur Rd Ichra,Lahore)

Client Reference: Nil **SOM Lab Ref:** 069 (Page-1/1)

Dated: 22-10-2024 **Dated:** 22-10-2024

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	0.664	4	0.498	0.20	0.195	7.54	9.19	83180	85320	101390	103990	1.10	8.0	13.8	
2	0.666	4	0.500	0.20	0.196	7.51	9.07	82850	84540	100050	102090	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

Baber Baig, RE **Test Performed By:** **Dr. /Engr.** Nauman Khurram

QA/QC Deptt.Bahria Town Lhr.(Boundary Wall Block M Bahria Orchard Lahore)

Client Reference: QA/QC/Steel-3832 **SOM Lab Ref:** 070 (Page-1/1)

Dated: 18-10-2024 **Dated:** 22-10-2024

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	1.507	6	0.751	0.44	0.443	14.70	19.85	73680	73180	99480	98810	1.50	8.0	18.8	
2	1.490	6	0.747	0.44	0.438	14.63	19.80	73320	73660	99230	99680	1.50	8.0	18.8	
3	0.670	4	0.501	0.20	0.197	6.47	8.48	71380	72470	93530	94950	1.20	8.0	15.0	
4	0.670	4	0.501	0.20	0.197	6.34	8.28	69920	70990	91280	92670	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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