Test Performed by: Dr. Asad Ali Gillani

Resident Engineer
Sajjad Anwar Shah
CEC JV AA Associates
(Const of Bridge on River Indus Near KotKay Kandar Distt Torghar)

Client Reference No.: AA Associates-jv-CEC Torgahr/IRB/24/00020 Dated: 04-06-2024
SOM Lab Ref: CED/SOM/4259(Page-1/1) Dated:04-06-2024
Test: Tensile Test
Sample Type: MS Deformed Steel bar with Coupler

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	25	490.63	232.5	312.7	474	637	Steel bar breaks at this load
2	25	490.63	234.5	314.5	478	641	Steel bar breaks at this load
3	25	490.63	234.0	324.0	477	660	Steel bar breaks at this load

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

Test Performed by: S. Asad Ali Gillani

Engr. Hafiz Muneeb Iqbal
Officer in-Charge (Maint.) Works
PASSCO Lahore.
(Supply & Installation of 183 KW On-Grid Solar System For PASSCO Head-Office,Lahore)

Client Reference No.: PASSCO/Works/2024/720 Dated: 30-05-2024

SOM Lab Ref: CED/SOM/4269 (Page 1/1) Dated:04-06-2024

Test Type: Tensile Test

Sample Type: GI Structure (Chanel) **Gauge Length:** 2 inches

Tensile 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	GI Structure (Chanel)	29.9 x 2.5	74.75	21.70	26.70	290.30	357.19	0.70	35.00

Client Reference: TCC/UET/401 **Dated:** 18-05-2024

SOM Lab Ref: CED/SOM/4267(Page-1/1) **Dated:** 04-06-2024

Test: Tension Test & 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	3.873	25	25.05	491	493	251.70	344.70	513	511	702	700	30.0	200	15.0	
2	3.920	25	25.21	491	499	267.00	352.70	544	535	719	707	32.5	200	16.3	
3	2.440	20	19.90	314	311	166.00	220.00	528	534	700	708	30.0	200	15.0	
4	2.438	20	19.88	314	311	163.00	218.00	519	525	694	703	30.0	200	15.0	
5	1.539	16	15.80	201	196	102.50	134.20	510	523	667	685	32.5	200	16.3	
6	1.537	16	15.79	201	196	101.20	133.70	503	517	665	683	32.5	200	16.3	
7	0.990	12	12.67	113	126	72.20	83.50	638	573	738	663	30.0	200	15.0	
8	0.955	12	12.45	113	122	64.20	77.50	568	528	685	637	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
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:-

Only Twelve Samples Received and Tested

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

Waqas Ahmed Ghumman,PM **Test Performed By:** **Dr. /Engr.** Wasim Abbas

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

Client Reference: QC/HQ/CIVIL/213 **Dated:** 04-06-2024

SOM Lab Ref: CED/SOM/4266 (Page-1/1) **Dated:** 04-06-2024

Test: Tension Test & 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	3.926	25	25.23	452	500	257.20	352.20	569	515	779	705	30.0	200	15.0	
2	3.879	25	25.08	452	494	248.20	330.20	549	503	730	669	32.5	200	16.3	
3	2.444	20	19.91	314	311	157.50	204.70	501	506	652	658	30.0	200	15.0	
4	2.567	20	20.41	314	327	170.20	220.20	542	521	701	674	27.5	200	13.8	
5	1.602	16	16.12	201	204	105.20	140.70	523	516	700	690	35.0	200	17.5	
6	1.541	16	15.81	201	196	99.70	131.50	496	508	654	670	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	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

Innovative ® **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Construction Company Lahore.(Project: Pepsi Co Phool Nagar)

Client Reference: ICC/PCPN 01 **SOM Lab Ref:** 4260(Page-1/1)

Dated: 04-06-2024 **Dated:** 04-06-2024

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	1.504	6	0.750	0.44	0.442	15.87	20.80	79560	79200	104230	103760	1.10	8.0	13.8	
2	0.665	4	0.498	0.20	0.195	6.85	8.53	75540	77480	94090	96500	1.00	8.0	12.5	
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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 Four Samples Received and Tested

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

Innovative ® **Test Performed By:** **Dr. /Engr.** Nauman Khurram
Construction Company Lahore.(Project: Allied Bank Sargodha)

Client Reference: ICL/ABL SGA **SOM Lab Ref:** 4261(Page-1/1)
Dated: 04-06-2024 **Dated:** 04-06-2024
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	2.655	8	0.997	0.79	0.780	25.81	35.34	72060	72980	98660	99930	1.50	8.0	18.8	
2	0.661	4	0.497	0.20	0.194	6.34	8.69	69920	72080	95770	98740	1.20	8.0	15.0	
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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 Four Samples Received and Tested

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

Farrukh Nadeem, PM **Test Performed By:** **Dr. /Engr.** Wasim Abbas

Innovative ® Construction Company Lahore.(Project: Shoring Works at Kingdom area,RUDA Lahore)

Client Reference: ICL/KA/PW/0324/01 **SOM Lab Ref:** 4262(Page-1/1)

Dated: 04-06-2024 **Dated:** 04-06-2024

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	2.686	8	1.002	0.79	0.789	26.32	35.63	73480	73570	99460	99590	1.30	8.0	16.3	
2	2.626	8	0.991	0.79	0.772	25.54	35.07	71290	72950	97900	100180	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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Wasim Abbas

BSD No.15,Lhr.(Const Of B/wall Around The Land Transferred For Residences of High Court Officers)

SOM Lab

Client Reference: 724 **Ref:** 4263 (Page-1/1)

Dated: 29-05-2024 **Dated:** 04-06-2024

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	0.676	4	0.503	0.20	0.199	6.57	8.77	72510	72870	96670	97160	1.20	8.0	15.0	
2	0.665	4	0.498	0.20	0.195	7.05	9.12	77790	79780	100610	103190	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

Mirza Muhammad Shahzad,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Nespak Lahore.(Const Of Flyover at Shahdra Morr & Const of Bridge Over River Ravi,Lahore)

SOM Lab
Client Reference: 4537/03/MSA/09/229 **Ref:** 4264 (Page-1/1)
Dated: 20-05-2024 **Dated:** 04-06-2024

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	2.703	8	1.005	0.79	0.794	23.41	38.09	65370	65040	106350	105810	1.40	8.0	17.5	H # 74
2	2.683	8	1.002	0.79	0.788	23.31	38.12	65090	65250	106430	106700	1.30	8.0	16.3	H # 124
3	1.478	6	0.743	0.44	0.434	12.28	19.52	61570	62420	97850	99200	1.30	8.0	16.3	H # 71
4	1.474	6	0.743	0.44	0.433	12.35	19.59	61930	62930	98210	99790	1.20	8.0	15.0	H # 574
5	0.655	4	0.494	0.20	0.192	5.44	8.18	60030	62530	90150	93910	1.10	8.0	13.8	H # 595
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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
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Ten Samples Received and Tested

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

Project Manager
Sunshine Medical Tower Shahdra.

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

Client Reference: Nil
Dated: 04-06-2024

SOM Lab Ref: 4265 (Page-1/1)
Dated: 04-06-2024

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	2.649	8	0.995	0.79	0.778	24.94	34.22	69640	70710	95530	97010	1.40	8.0	17.5	
2	2.659	8	0.997	0.79	0.781	24.99	34.20	69780	70590	95480	96580	1.40	8.0	17.5	
3	1.519	6	0.754	0.44	0.446	14.14	18.65	70870	69920	93510	92250	1.50	8.0	18.8	
4	1.525	6	0.755	0.44	0.448	14.19	18.73	71130	69860	93860	92190	1.60	8.0	20.0	
5	0.672	4	0.501	0.20	0.197	6.34	8.61	69920	70990	94990	96430	1.10	8.0	13.8	
6	0.683	4	0.506	0.20	0.201	6.42	8.61	70820	70470	94990	94510	1.10	8.0	13.8	
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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

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

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

SOM Lab

Client Reference: Nil **Ref:** 4268 (Page-1/1)

Dated: 04-06-2024 **Dated:** 04-06-2024

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	2.618	8	0.990	0.79	0.769	25.89	36.60	72290	74260	102170	104950	1.10	8.0	13.8	
2	2.599	8	0.986	0.79	0.764	36.29	36.56	101310	104760	102080	105550	1.30	8.0	16.3	
3	1.479	6	0.744	0.44	0.435	14.37	20.15	72050	72870	101020	102180	1.10	8.0	13.8	
4	1.481	6	0.744	0.44	0.435	14.12	20.05	70770	71580	100500	101660	0.90	8.0	11.3	
5	0.651	4	0.493	0.20	0.191	7.03	9.09	77560	81220	100270	104990	0.90	8.0	11.3	
6	0.655	4	0.494	0.20	0.192	7.02	9.17	77450	80680	101170	105380	0.80	8.0	10.0	
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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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Wasim Abbas
BSD Nankana Sahib.(Const Of PHP Post at Chak No.5 Distt Nankana Sahib)

SOM Lab

Client Reference: 1304A/SDO/BSD/NNS **Ref:** 4270(Page-1/1)
Dated: 23-11-2024 **Dated:** 04-06-2024

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	1.495	6	0.748	0.44	0.439	12.69	19.11	63620	63760	95800	96020	1.20	8.0	15.0	
2	1.497	6	0.748	0.44	0.440	12.66	19.27	63460	63460	96570	96570	1.30	8.0	16.3	
3	0.680	4	0.505	0.20	0.200	5.58	8.28	61490	61490	91280	91280	1.60	8.0	20.0	
4	0.676	4	0.503	0.20	0.199	5.58	8.23	61490	61800	90720	91170	1.50	8.0	18.8	
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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

M. Imran Saeed, PM
GCC,Lahore. (Gulberg City Center,Gulberg II 5K, Lahore)

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

Client Reference: Nil
Dated: 04-06-2024

SOM Lab Ref: 4274 (Page-1/1)
Dated: 04-06-2024

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	0.654	4	0.494	0.20	0.192	6.34	7.72	69920	72830	85100	88640	1.10	8.0	13.8	
2	0.663	4	0.498	0.20	0.195	6.49	7.95	71610	73440	87680	89930	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

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

Asst. Manager (Civil Inspections) F&M (UCHS Hospital, Lahore

SOM Lab

Client Reference: Nil **Ref:** 4272 (Page-1/1)

Dated: 04-06-2024 **Dated:** 04-06-2024

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	2.694	8	1.004	0.79	0.792	22.80	37.10	63660	63500	103590	103330	1.20	8.0	15.0	BC 3
2	2.723	8	1.009	0.79	0.800	22.77	36.97	63580	62780	103220	101930	1.10	8.0	13.8	B/3
3	1.478	6	0.743	0.44	0.434	12.44	19.49	62340	63200	97690	99050	1.20	8.0	15.0	B /4
4	1.487	6	0.746	0.44	0.437	12.44	19.54	62340	62770	97950	98620	1.20	8.0	15.0	D/4
5	0.651	4	0.493	0.20	0.191	6.24	10.21	68800	72040	112630	117940	1.00	8.0	12.5	C-C1/2A-3
6	0.661	4	0.497	0.20	0.194	6.34	10.24	69920	72080	112970	116470	1.00	8.0	12.5	A-1-B-2A-3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Umar Khayaz (Asst. Engineer - IDAP)

BEND TEST:

--	No Bend test performed

Note:-

Only Six Samples Received and Tested

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