

Bai Jinliang

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Dy Manager Powerchina SEPCO1(220KV Mirpur Khas Substion & Extension at Hala Rd Substation)

1551 (Page-

1/1)

Client Reference: ADB-200/2018/342

SOM Lab Ref:

Dated: 09-01-2023

Dated:

09-01-2023

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

MS Def 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.462	20	20.00	314	314	140.20	199.50	446	447	635	636	32.5	200	16.3	
2	2.491	20	20.10	314	317	160.20	211.50	510	505	674	667	40.0	200	20.0	
3	2.443	20	19.91	314	311	155.00	202.00	494	498	643	649	35.0	200	17.5	
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Witnessed By: Abrar Ahmed J.E (NESPAK) ,M.Waheed Sheikh Power China(SEPCO)

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	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

BSD No.19 Lhr.(Up-Gradation and Improvement Of Open Air Theatre Bagh-E-Jinnah,Lahore)

Client Reference: 1384

SOM Lab

Ref: 1548(Page-1/1)

Dated: 05-01-2022

Dated: 09-01-2023

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	2.664	8	0.998	0.79	0.783	22.80	38.99	63660	64230	108850	109830	1.00	8.0	12.5	
2	2.645	8	0.995	0.79	0.777	22.80	38.94	63660	64730	108710	110530	1.20	8.0	15.0	
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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

Ghulam Abbas Bassi
23-H Overseas A Bahria Town Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1549 (Page-1/1)

Dated: 09-01-2023

Dated: 09-01-2023

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	1.470	6	0.742	0.44	0.432	16.28	20.15	81600	83110	101020	102890	1.20	8.0	15.0	
2	1.467	6	0.741	0.44	0.431	16.36	20.31	82010	83720	101780	103910	1.30	8.0	16.3	
3	0.672	4	0.501	0.20	0.197	7.19	8.46	79250	80460	93300	94720	1.10	8.0	13.8	
4	0.673	4	0.502	0.20	0.198	7.05	8.82	77790	78570	97230	98220	1.20	8.0	15.0	
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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

M. Tariq Shahzad
 Exec Dir Projects, The Lake City Developers (Pvt) Ltd Lahore.

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

Client Reference: LCRG/Test/012

SOM Lab

Ref: 1550 (Page-1/3)

Dated: 09-01-2023

Dated: 09-01-2023

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	0.671	4	0.501	0.20	0.197	6.01	8.41	66320	67330	92740	94150	1.20	8.0	15.0	
2	0.671	4	0.501	0.20	0.197	6.14	8.41	67670	68700	92740	94150	1.30	8.0	16.3	
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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

M. Tariq Shahzad
 Exec Dir Projects, The Lake City Developers (Pvt) Ltd Lahore.

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

Client Reference: LCRG/Test/013
Dated: 09-01-2023
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 1550 (Page-2/3)
Dated: 09-01-2023
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	1.523	6	0.755	0.44	0.448	13.30	19.08	66680	65490	95650	93940	1.60	8.0	20.0	
2	1.536	6	0.758	0.44	0.451	13.66	19.27	68470	66800	96570	94220	1.50	8.0	18.8	
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BEND TEST:

# 6	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

M. Tariq Shahzad
 Exec Dir Projects, The Lake City Developers (Pvt) Ltd Lahore.

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

Client Reference: LCRG/Test/014
Dated: 09-01-2023
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 1550 (Page-3/3)
Dated: 09-01-2023
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	2.691	8	1.004	0.79	0.791	24.28	34.88	67790	67700	97380	97260	1.60	8.0	20.0	
2	2.696	8	1.004	0.79	0.792	24.94	35.14	69640	69460	98100	97850	1.20	8.0	15.0	
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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

Engr. Major Zia-UI-Islam ®

Test Performed By:

Dr. /Engr. Irfan UI Hussan

PD GCC,Overseas Const.Co, Lahore.(Project Gulberg City Cerntrre, Lahore)

Client Reference: OCC/Steel/28

SOM Lab

Ref: 1552 (Page-1/1)

Dated: 09-01-2023

Dated: 06-01-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

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	1.473	6	0.743	0.44	0.433	14.17	1.89	71020	72170	9460	9610	1.40	8.0	17.5	
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BEND TEST:

# 6	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

Muhammad Asif

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/104

SOM Lab

Ref:

1553 (Page-1/2)

Dated: 09-01-2023

Dated:

09-01-2023

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	1.482	6	0.745	0.44	0.436	13.93	19.42	69850	70490	97340	98230	1.20	8.0	15.0	
2	1.480	6	0.744	0.44	0.435	13.76	19.22	68980	69770	96320	97420	1.20	8.0	15.0	
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Witnessed By: M. Husnain Imran ,Site Engineer (Imperium Developers)

BEND TEST:

# 6	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

Muhammad Asif

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/104

SOM Lab

Ref:

1553 (Page-2/2)

Dated: 09-01-2023

Dated:

09-01-2023

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	2.679	8	1.001	0.79	0.787	25.34	39.45	70750	71020	110130	110550	1.20	8.0	15.0	
2	2.668	8	0.999	0.79	0.784	25.28	37.51	70580	71120	104730	105530	1.20	8.0	15.0	
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Witnessed By: M. Husnain Imran ,Site Engineer (Imperium Developers)

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

Test Performed by: .S. Asad Ali Gillani

Engr. Nadeem Mehmood
Civil & Urban Engineers
Lahore

Client Reference No.: Nil

Dated: 05-01-2023

SOM Lab Ref: CED/SOM/1545 (Page 1/1)

Dated: 06-01-2023

Test Type: Tension Test

Sample Type: Aluminum-Zinc Alloy Coated Sheet (t 0.5mm) Specification: ASTM-A 792

Tension Test Results

Sample No.	Sample Size	Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Strength (MPa)	Ultimate Strength (MPa)	Elongation (%)
1	14x0.5	7.00	2.82	2.95	402.86	421.43	15.00
2	14x0.5	7.00	2.65	2.81	378.57	401.43	15.00
3	13x0.5	6.50	2.15	2.3	330.77	353.85	10.00
4	14x0.5	7.00	2.55	2.65	364.29	378.57	12.50
5	14x0.5	7.00	2.97	3.17	424.29	452.86	15.00

Witness by Arif Shahzad (Asst. Office Manager Civil & Urban Engrs) and M Tahir Ismail (G.M Banu Mukhtar Steel Pvt Ltd.)

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

