

Rana Muhammad Nadeem

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Deputy Director (Maintenance) Lahore Maintenance Unit, Kasur

Client Reference: BC-PN18-05-01/DD(Maint)NHA/LHR/2020/714

Dated: 07-09-2020

SOM Lab Ref: CED/SOM/2958(Page-1/1)

Dated: 16-09-2020

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	1.667	16	16.43	201	212	96.20	134.70	478	454	670	636	32.5	200	16.3	
2	0.891	12	12.02	113	113	58.70	74.00	519	518	654	653	30.0	200	15.0	
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
12mm	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

Maj Adnan Khalid ®
Dy Dir MTL, DHA

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

Client Reference: 408/241/E/979/22

Dated: 16-09-2020

SOM Lab Ref: CED/SOM/2961(Page-1/1)

Dated: 16-09-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J - Bolt

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	3.908	25	25.18	491	498	178.00	267.20	363	358	544	537	35.0	200	17.5	
2	3.873	25	25.06	491	493	179.70	264.50	366	365	539	537	47.5	200	23.8	
3	3.877	25	25.08	491	494	179.20	268.00	365	363	546	543	40.0	200	20.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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

Rana Muhammad Nadeem

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Deputy Director (Maintenance) Lahore Maintenance Unit, Kasur

Client Reference: BC-PN18-05-01/DD(Maint)NHA/LHR/2020/714

Dated: 07-09-2020

SOM Lab Ref: CED/SOM/2958(Page-1/1)

Dated: 16-09-2020

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	1.667	16	16.43	201	212	96.20	134.70	478	454	670	636	32.5	200	16.3	
2	0.891	12	12.02	113	113	58.70	74.00	519	518	654	653	30.0	200	15.0	
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Four Samples Received and Tested</p>
12mm	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

Maj Adnan Khalid ®
Dy Dir MTL, DHA

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

Client Reference: 408/241/E/979/22

Dated: 16-09-2020

SOM Lab Ref: CED/SOM/2961(Page-1/1)

Dated: 16-09-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J - Bolt

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	3.908	25	25.18	491	498	178.00	267.20	363	358	544	537	35.0	200	17.5	
2	3.873	25	25.06	491	493	179.70	264.50	366	365	539	537	47.5	200	23.8	
3	3.877	25	25.08	491	494	179.20	268.00	365	363	546	543	40.0	200	20.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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

Abdul Qayyum Chaudhary
Resident Engineer - NESPAK Lahore Ring Road Project

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 2636/103/M&R/AQC/19-20/29

Dated: 12-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2959(Page-1/1)

Dated: 16-09-2020

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	0.660	4	0.497	0.20	0.194	5.78	7.61	63740	65710	83970	86570	1.10	8.0	13.8	
2	0.658	4	0.496	0.20	0.193	5.88	7.70	64860	67210	84870	87950	1.10	8.0	13.8	
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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

Abdul Qayyum Chaudhary
Resident Engineer - NESPAK Lahore Ring Road Project

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 2636/103/M&R/AQC/19-20/29

Dated: 12-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2959(Page-1/1)

Dated: 16-09-2020

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	0.660	4	0.497	0.20	0.194	5.78	7.61	63740	65710	83970	86570	1.10	8.0	13.8	
2	0.658	4	0.496	0.20	0.193	5.88	7.70	64860	67210	84870	87950	1.10	8.0	13.8	
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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

Irfan Shahid
Resident Engineer, Usman Industries, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 16-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2960(Page-1/1)

Dated: 16-09-2020

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	2.653	8	0.997	0.79	0.780	27.73	36.44	77410	78400	101740	103040	1.40	8.0	17.5	
2	2.683	8	1.002	0.79	0.788	26.68	33.35	74480	74670	93120	93350	1.40	8.0	17.5	
3	0.660	4	0.497	0.20	0.194	6.60	8.53	72730	74980	94090	97000	1.30	8.0	16.3	
4	0.662	4	0.498	0.20	0.195	6.65	8.66	73290	75170	95550	98000	1.10	8.0	13.8	
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BEND TEST:

# 8	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

Irfan Shahid
Resident Engineer, Usman Industries, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 16-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2960(Page-1/1)

Dated: 16-09-2020

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	2.653	8	0.997	0.79	0.780	27.73	36.44	77410	78400	101740	103040	1.40	8.0	17.5	
2	2.683	8	1.002	0.79	0.788	26.68	33.35	74480	74670	93120	93350	1.40	8.0	17.5	
3	0.660	4	0.497	0.20	0.194	6.60	8.53	72730	74980	94090	97000	1.30	8.0	16.3	
4	0.662	4	0.498	0.20	0.195	6.65	8.66	73290	75170	95550	98000	1.10	8.0	13.8	
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BEND TEST:

# 8	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

Asif Nadeem Khawar

Resident Engineer, Metroplan-Asian JV, Site Office Talagang Road Mianwali

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-460

Dated: 10-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2962(Page-1/1)

Dated: 016-09-2020

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	1.466	6	0.741	0.44	0.431	13.58	18.65	68060	69480	93510	95460	1.10	8.0	13.8	
2	1.452	6	0.737	0.44	0.427	13.78	18.91	69080	71190	94780	97670	1.40	8.0	17.5	
3	0.657	4	0.496	0.20	0.193	6.19	8.46	68230	70710	93300	96680	1.20	8.0	15.0	
4	0.667	4	0.500	0.20	0.196	6.17	8.48	68010	69400	93530	95430	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

Asif Nadeem Khawar

Resident Engineer, Metroplan-Asian JV, Site Office Talagang Road Mianwali

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Metroplan Asian JV-Nexus-MMCH-RE-460

Dated: 10-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2962(Page-1/1)

Dated: 016-09-2020

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	1.466	6	0.741	0.44	0.431	13.58	18.65	68060	69480	93510	95460	1.10	8.0	13.8	
2	1.452	6	0.737	0.44	0.427	13.78	18.91	69080	71190	94780	97670	1.40	8.0	17.5	
3	0.657	4	0.496	0.20	0.193	6.19	8.46	68230	70710	93300	96680	1.20	8.0	15.0	
4	0.667	4	0.500	0.20	0.196	6.17	8.48	68010	69400	93530	95430	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

Aaliyan Abbas
10 Tulip Overseas Park View Society, Lahore

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

Client Reference: Nil
Dated: 16-09-2020
Test: Tension Test
Gauge Length: 8 inch

SOM Lab
Ref: 2963(Page-1/1)
Dated: 16-09-2020
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	2.550	8	0.977	0.79	0.749	22.48	30.55	62750	66190	85290	89960	1.40	8.0	17.5	
2	1.466	6	0.741	0.44	0.431	17.84	20.25	89420	91280	101530	103650	1.30	8.0	16.3	
3	0.659	4	0.497	0.20	0.194	6.29	8.00	69360	71500	88240	90970	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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

Aaliyan Abbas
10 Tulip Overseas Park View Society, Lahore

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

Client Reference: Nil
Dated: 16-09-2020
Test: Tension Test
Gauge Length: 8 inch

SOM Lab
Ref: 2963(Page-1/1)
Dated: 16-09-2020
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	2.550	8	0.977	0.79	0.749	22.48	30.55	62750	66190	85290	89960	1.40	8.0	17.5	
2	1.466	6	0.741	0.44	0.431	17.84	20.25	89420	91280	101530	103650	1.30	8.0	16.3	
3	0.659	4	0.497	0.20	0.194	6.29	8.00	69360	71500	88240	90970	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	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: Dr. /Engr. S. Asad Ali Gillani

Maj Adnan Khalid ®

Dy Dir MTL.

Testing of J-Bolt, External (U/G) Elec with Street Light System Sector-P Pkg -1,

Prism -9, DHA Phase-IX - (M/S DHA Const Coy)

Client Reference: 408/241/E/979/22

Dated: 16-09-2020

SOM Lab Ref: CED/SOM/2961(Page-1/1)

Dated: 16-09-2020

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: J Bolt

Gauge Length: 200 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	Original Diameter	Tested Diameter									
	mm	mm	mm ²	kN	kN	MPa	MPa	mm	M m	%	
1	25	25.18	498	178.00	267.20	358	537	35.0	200	17.5	35.4
2	25	25.06	493	179.70	264.50	365	537	47.5	200	23.8	49.3
3	25	25.08	494	179.20	268.00	363	543	40.0	200	20.0	31.4

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: Dr. /Engr. S. Asad Ali Gillani

Maj Adnan Khalid ®

Dy Dir MTL.

Infra Dew Works Sector-Q, Phase-IX, (Prism) - (M/S DHA Const Coy)

Client Reference: 408/241/E/972-B/0020

Dated: 03-09-2020

SOM Lab Ref: CED/SOM/2913(Page-2/2)

Dated: 03-09-2020

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: Y Bolt

Gauge Length: 25 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	Original Diameter	Tested Diameter									
	mm	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	12	9.0	63.61	31.0	44.7	487.29	702.64	5.0	25	20.0	39.5
2	12	9.0	63.61	36.0	58.0	565.88	911.70	5.0	25	20.0	58.5
3	12	9.0	63.61	31.6	45.0	496.72	707.36	7.5	25	30.0	64.0

Note:-

Only Three Samples
Received and Tested

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

