

Maj Adnan Khalid ®

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Dy Dir MTL, Const of (U/G) External Elect Works Alongwith Street Light System Pak-E-3, (M/s DHA FWO)

Client Reference: 408/241/E/1038/656

Dated: 20-11-2020

SOM Lab Ref: CED/SOM/3299 (Page-1/1)

Dated: 20-11-2020

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	3.934	25	25.26	491	501	159.50	239.50	325	319	488	479	52.5	200	26.3	
2	4.008	25	25.50	491	511	161.20	241.50	328	316	492	474	62.5	200	31.3	
3	4.041	25	25.60	491	515	159.20	242.00	324	310	493	471	60.0	200	30.0	
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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

Muhammad Zubair Yousaf
 Manager Monitoring & Coordination, Shajar Road Ltd.

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

Client Reference: MMC/SHJR/SGRP/13

Dated: 18-11-2020

SOM Lab Ref: CED/SOM/3301(Page-1/1)

Dated: 20-11-2020

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	1.571	16	15.96	201	200	118.20	146.50	588	591	729	733	30.0	200	15.0	
2	1.560	16	15.91	201	199	117.20	147.50	583	590	734	743	27.5	200	13.8	
3	0.972	12	12.56	113	124	61.00	80.70	539	493	714	652	27.5	200	13.8	
4	0.974	12	12.57	113	124	64.70	83.00	572	522	734	669	27.5	200	13.8	
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Anis Ahmed
Sr. Resident Engineer, Mansoor Mazhar & Associates, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: MMA/PVV/WT/06

Dated: 18-11-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3297(Page-1/1)

Dated: 20-11-2020

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	2.581	8	0.982	0.79	0.758	25.05	33.81	69920	72880	94400	98380	1.40	8.0	17.5	
2	2.569	8	0.980	0.79	0.755	24.97	33.64	69720	72960	93910	98270	1.30	8.0	16.3	
3	1.503	6	0.750	0.44	0.442	14.90	20.82	74700	74360	104340	103860	1.00	8.0	12.5	
4	1.478	6	0.743	0.44	0.434	14.39	20.29	72150	73150	101680	103090	1.10	8.0	13.8	
5	0.653	4	0.494	0.20	0.192	6.34	8.38	69920	72830	92400	96250	1.20	8.0	15.0	
6	0.673	4	0.502	0.20	0.198	6.52	8.66	71940	72670	95550	96510	1.00	8.0	12.5	
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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

Sajid Khawaja
Resident Engineer, EA Consulting (Pvt) Ltd.

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

Client Reference: EA/FGEHA/LHE/037

Dated: 20-11-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3298(Page-1/1)

Dated: 20-11-2020

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	1.388	6	0.721	0.44	0.408	11.81	18.11	59220	63870	90800	97920	1.40	8.0	17.5	
2	1.430	6	0.731	0.44	0.420	11.88	18.32	59530	62360	91820	96190	1.40	8.0	17.5	
3	1.429	6	0.731	0.44	0.420	11.85	18.32	59380	62200	91820	96190	1.50	8.0	18.8	
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BEND TEST:

# 6	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

Muhammad Aman Ullah

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

Resident Engineer, NESPAK(Pvt) Ltd. Project: Dev. in LDA City, Package -I,4 & 6, Jinnah Sector Lahore

Client Reference: 4047/13/MA/09/13

SOM Lab Ref: 3302(Page-1/1)

Dated: 17-11-2020

Dated: 20-11-2020

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	2.648	8	0.995	0.79	0.778	29.02	36.19	81020	82270	101030	102580	1.30	8.0	16.3	
2	2.636	8	0.993	0.79	0.775	26.78	34.78	74760	76210	97100	98980	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