Maj Adnan Khalid ®

Test Performed By: **Dr. /Engr.** M Irfan Ul Hassan

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/1022/498 **Dated:** 28-10-2020

SOM Lab Ref: CED/SOM/3209 (Page-1/1) **Dated:** 03-11-2019

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	4.116	25	25.83	491	524	178.00	261.50	363	340	533	500	55.0	200	27.5	
2	4.091	25	25.76	491	521	204.00	305.20	416	392	622	586	47.5	200	23.8	
3	4.013	25	25.51	491	511	205.00	300.70	418	401	613	589	47.5	200	23.8	
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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

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

House No. 101/Ravi Block Green Forts II, Near EME, Lahore

Client Reference: Nil **SOM Lab Ref:** 3203(Page-1/1)

Dated: 03-11-2020 **Dated:** 03-11-2020

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	7.77	9.19	85660	86090	101390	101900	1.00	8.0	12.5	
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Witnessed By: Sohaib Ali, NESPAK

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. Bilal Yaqoob Virk. **Test Performed By:** **Dr. /Engr.** s. Asad Ali Gillani

Asstt: Executive Engineer-II, CCD. PAK PWD, Gujranwala

Client Reference: AEE-II/CCD/GA/Work/NHMP/P-I/LAB/01 **SOM Lab Ref:** 3204(Page-1/1)

Dated: 29-10-2020 **Dated:** 03-11-2020

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	1.420	6	0.729	0.44	0.417	14.90	20.34	74700	78820	101940	107560	1.00	8.0	12.5	
2	1.494	6	0.748	0.44	0.439	16.13	20.66	80830	81020	103570	103810	1.10	8.0	13.8	
3	1.013	5	0.616	0.31	0.298	9.09	12.35	64690	67300	87900	91440	1.40	8.0	17.5	
4	1.020	5	0.618	0.31	0.300	9.45	12.95	67230	69470	92100	95170	1.20	8.0	15.0	
5	0.666	4	0.500	0.20	0.196	6.37	8.51	70260	71690	93860	95780	1.30	8.0	16.3	
6	0.660	4	0.497	0.20	0.194	6.27	8.41	69130	71270	92740	95610	1.00	8.0	12.5	
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BEND TEST:

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

Gul Waqas Shahid
Unirazz Services, Lahore

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

Client Reference: USPL/PMALL/2892-93
Dated: 02-11-2020

SOM Lab Ref: 3205(Page-1/1)
Dated: 03-11-2020

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	2.554	8	0.978	0.79	0.751	24.03	32.62	67080	70560	91070	95800	1.50	8.0	18.8	
2	2.539	8	0.975	0.79	0.746	24.43	32.69	68220	72240	91270	96650	1.40	8.0	17.5	
3	1.549	6	0.761	0.44	0.455	11.74	16.92	58860	56920	84820	82020	1.40	8.0	17.5	
4	1.550	6	0.762	0.44	0.456	11.69	16.87	58610	56550	84560	81600	1.00	8.0	12.5	
5	0.689	4	0.507	0.20	0.202	6.22	8.15	68570	67890	89930	89040	1.50	8.0	18.8	
6	0.690	4	0.508	0.20	0.203	6.17	8.28	68010	67000	91280	89930	1.30	8.0	16.3	
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Witnessed By: Sohaib Ali, NESPAK

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

Muhammad Affan
Project Manager, ICON Residendia, Lahore

Test Performed By: **Dr. /Engr.** S. Asas Ali Gillani

Client Reference: IV-13
Dated: 02-11-2020

SOM Lab Ref: 3207 (Page-1/1)
Dated: 03-11-2020

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	2.626	8	0.991	0.79	0.772	25.18	35.88	70290	71930	100170	102510	1.00	8.0	12.5	
2	2.606	8	0.988	0.79	0.766	24.67	34.22	68870	71030	95530	98530	1.50	8.0	18.8	
3	1.473	6	0.743	0.44	0.433	13.88	19.16	69590	70720	96060	97610	1.40	8.0	17.5	
4	1.471	6	0.742	0.44	0.432	13.40	18.67	67190	68440	93610	95340	1.50	8.0	18.8	
5	0.659	4	0.497	0.20	0.194	5.96	8.41	65760	67800	92740	95610	1.50	8.0	18.8	
6	0.653	4	0.494	0.20	0.192	5.98	8.38	65990	68740	92400	96250	1.30	8.0	16.3	
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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

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

Punjab Employees Social Security Institution (Head Office) 3/A, Gulberg-V, Lahore

Client Reference: SS. DC/777 **SOM Lab Ref:** 3211(Page-1/1)

Dated: 03-11-2020 **Dated:** 03-11-2020

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	0.681	4	0.505	0.20	0.200	7.19	8.84	79250	79250	97460	97460	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

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

Project Engineer, NETRACON Technologies (Pvt) Ltd. Lahore

Client Reference: NTT-HO/FSDW-GS/031 **SOM Lab Ref:** 3212(Page-1/1)

Dated: 03-11-2020 **Dated:** 03-11-2020

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	0.641	4	0.489	0.20	0.188	6.47	8.46	71380	75940	93300	99260	1.30	8.0	16.3	
2	0.652	4	0.494	0.20	0.192	6.29	8.36	69360	72250	92180	96020	1.50	8.0	18.8	
3	0.648	4	0.492	0.20	0.190	6.68	8.63	73630	77500	95210	100220	1.40	8.0	17.5	
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Witnessed By: Sohaib Ali, NESPAK

BEND TEST:

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