

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/1033/590

Dated: 10-11-2020

SOM Lab Ref: CED/SOM/3241(Page-1/1)

Dated: 11-11-2019

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	4.059	25	25.66	491	517	181.70	267.20	370	352	544	517	50.0	200	25.0	
2	4.118	25	25.84	491	525	174.50	261.50	355	333	533	499	50.0	200	25.0	
3	4.090	25	25.76	491	521	185.20	270.20	377	356	550	519	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

Maj Farooq Ali
Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil
Dated: 10-11-2020
Test: Tension Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar

SOM Lab
Ref: 3235(Page-1/1)
Dated: 11-11-2020

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	1.492	6	0.747	0.44	0.438	14.42	19.88	72300	72630	99640	100090	1.20	8.0	15.0	
2	0.649	4	0.493	0.20	0.191	6.22	8.72	68570	71800	96110	100640	1.30	8.0	16.3	
3	0.647	4	0.492	0.20	0.190	6.29	8.69	69360	73010	95770	100810	1.20	8.0	15.0	
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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

Nafiz OZCAN

Test Performed By:

Dr. /Engr.

Nauman Khurram

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Inc. Lahore

Client Reference: MIG/2020/1237

SOM Lab

Ref:

3236(Page-1/1)

Dated: 10-11-2020

Dated:

10-11-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(BATALA 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	2.637	8	0.993	0.79	0.775	23.29	35.90	65030	66290	100230	102170	1.20	8.0	15.0	
2	2.621	8	0.990	0.79	0.770	23.24	35.55	64890	66570	99230	101810	1.30	8.0	16.3	
3	2.622	8	0.991	0.79	0.771	23.47	35.58	65510	67130	99320	101770	1.20	8.0	15.0	
4	1.521	6	0.754	0.44	0.447	14.19	20.97	71130	70010	105100	103460	1.20	8.0	15.0	
5	1.503	6	0.750	0.44	0.442	14.44	21.27	72400	72080	106640	106150	1.40	8.0	17.5	
6	1.521	6	0.754	0.44	0.447	14.29	20.87	71640	70520	104590	102950	1.00	8.0	12.5	
7	0.655	4	0.494	0.20	0.192	6.80	9.38	74980	78100	103420	107730	1.00	89.5	1.1	
8	0.653	4	0.494	0.20	0.192	6.65	8.77	73290	76350	96670	100700	1.00	89.7	1.1	
9	0.655	4	0.494	0.20	0.192	6.63	8.77	73070	76110	96670	100700	1.00	8.0	12.5	
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Witnessed By:

Zohaib Ali, Sub Engineer, NESPAK

BEND TEST:

# 8(Sr1,2&3)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eighteen Samples Received and Tested
# 6(Sr. 4 &5)	Sample bend through 180 degrees Satisfactorily without any crack	
# 6(Sr. 6)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(Sr.7&8)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4 (Sr.9)	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

Muhammad Faizan
Project Engineer, NETRACON Technologies (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: NTT-HO/FSDW-GS/033

SOM Lab

Ref: 3238(Page-1/1)

Dated: 10-11-2020

Dated: 10-11-2020

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	1.489	6	0.747	0.44	0.438	14.09	19.67	70620	70940	98610	99060	1.10	8.0	13.8	
2	1.485	6	0.745	0.44	0.436	15.11	20.39	75720	76420	102190	103130	1.10	8.0	13.8	
3	1.041	5	0.624	0.31	0.306	10.91	14.12	77600	78610	100440	101760	1.20	8.0	15.0	
4	1.050	5	0.627	0.31	0.309	11.06	14.07	78690	78940	100080	100410	1.10	8.0	13.8	
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Witnessed By: Sohaib Ali, Sub Engineer, NESPAK

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
# 6	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	
(Sr. 8)	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®

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Dy Dir MTL, Infra Development Works at Sector -Q, DHA Rahbar Ph-XI - (M/S DHA C)

SOM Lab

Client Reference: 408/241/E/Lab/1035/39

Ref: 3270(Page-1/1)

Dated: 16-11-2020

Dated: 17-11-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kamran 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	0.589	4	0.469	0.20	0.173	5.45	7.65	60140	69530	84310	97470	1.30	8.0	16.3	
2	0.605	4	0.476	0.20	0.178	5.42	7.65	59800	67200	84310	94730	1.20	8.0	15.0	
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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

Amjad Saeed
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 3994/103/AS/02/291

Dated: 05-11-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3240(Page-1/1)

Dated: 11-11-2020

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	1.733	6	0.805	0.44	0.509	19.39	23.04	97180	84010	115480	99820	1.10	8.0	13.8	
2	1.460	6	0.739	0.44	0.429	19.59	22.27	98210	100720	111640	114510	0.90	8.0	11.3	
3	0.674	4	0.502	0.20	0.198	7.00	8.41	77230	78010	92740	93680	0.90	8.0	11.3	
4	0.653	4	0.494	0.20	0.192	7.10	8.48	78350	81620	93530	97420	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
# 6	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: 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/2913

Dated: 10-11-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3242(Page-1/1)

Dated: 11-11-2020

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	1.523	6	0.755	0.44	0.448	14.60	23.24	73170	71860	116500	114420	1.00	8.0	12.5	
2	1.536	6	0.758	0.44	0.451	14.65	23.34	73430	71630	117010	114150	1.10	8.0	13.8	
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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