

Noor Ur Rahman

Test Performed By: Dr. /Engr. Nauman Khurram

Resident Engineer, NESPAK - Zeeruk (JV) CPEC (Western Route), Package-II, Isakhel

Client Reference: RE/NESPAK/P-2/CPEC-WR/355

Dated: 21-04-2019

SOM Lab Ref: CED/SOM/704 (Page-1/1)

Dated: 24-04-2019

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	3.920	25	25.21	491	499	160.70	254.00	327	323	517	510	50.0	200	25.0	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Ghulam
Rasul

Test Performed By: Dr. /Engr. Nauman Khurram

Assistant Resident Engineer, Prime Engineering Consultancy, Kallurkot Bridge Project

Client Reference: PE-BA-JV/KK-DIK/2019/017

Dated: 23-04-2019

SOM Lab Ref: CED/SOM/707(Page-1/1)

Dated: 24-04-2019

Test: Tension Test & bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Nomee Steel)

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	3.829	25	24.93	491	488	264.70	321.20	539	543	654	659	27.5	200	13.8	
2	1.561	16	15.91	201	199	104.50	116.00	520	526	577	584	25.0	200	12.5	
3	0.888	12	12.00	113	113	55.70	84.20	492	493	744	745	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
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

Resident Engineer,
EA Consulting (Pvt.) Ltd. Sukkur- Multan Motorway Project Section -III,

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: CRE-EA/M.P-III/395-2019

Dated: 24-04-2019

SOM Lab Ref: CED/SOM/711 (Page-1/1)

Dated: 24-04-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: Anchor 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	3.520	24	23.88	452	448	221.50	280.20	490	495	619	626	12.5	50	25.0	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Medical Superintendent
Nishtar Hospital Multan

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 16293/NH

SOM Lab 705(Page-
Ref: 1/1)

Dated: 13-04-2019

Dated: 24-04-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Guage 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	2.554	8	0.978	0.79	0.751	28.85	35.78	80540	84720	99890	105080	1.00	8.0	12.5	
2	2.561	8	0.979	0.79	0.753	28.92	35.75	80740	84700	99800	104710	1.20	8.0	15.0	
3	1.481	6	0.744	0.44	0.435	16.13	19.13	80830	81760	95910	97010	1.20	8.0	15.0	
4	1.489	6	0.747	0.44	0.438	16.18	19.85	81090	81460	99480	99940	1.10	8.0	13.8	
5	0.593	4	0.471	0.20	0.174	5.98	7.41	65990	75850	81720	93930	1.00	8.0	12.5	
6	0.599	4	0.473	0.20	0.176	6.34	7.77	69920	79450	85660	97340	1.20	8.0	15.0	
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BEND TEST:

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

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

Major ® Pervez Akhtar
 Ess Ess Associates Engineering Consultants, Rawalpindi

Test Performed By: Dr. /Engr. Irfan ul Hassan

Client Reference: nil

SOM Lab

Ref: 706(Page-1/1)

Dated: 23-04-2019

Dated: 24-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.603	8	0.987	0.79	0.765	26.92	32.57	75160	77620	90920	93900	1.50	8.0	18.8	
2	2.564	8	0.980	0.79	0.754	23.72	31.42	66220	69390	87710	91900	1.80	8.0	22.5	
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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 Rasul

Test Performed By:

Dr. /Engr.

M Rehan Ashraf

Assistant Resident Engineer, Prime Engineering Consultancy, Kallurkot Brgde Project

Client Reference: PE-BA-JV/KK-DIK/2019/017

SOM Lab

Ref:

707 (Page-1/1)

Dated: 23-04-2019

Dated:

24-04-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length:

8 inch

Sample Type:

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	1.497	6	0.748	0.44	0.440	12.44	18.83	62340	62340	94370	94370	1.70	8.0	21.3	
2	1.561	6	0.764	0.44	0.459	13.76	21.17	68980	66130	106130	101730	1.50	8.0	18.8	
3	0.661	4	0.497	0.20	0.194	7.72	12.74	85100	87730	140510	144860	1.00	8.0	12.5	
4	0.657	4	0.496	0.20	0.193	7.95	12.44	87680	90860	137140	142110	0.90	8.0	11.3	
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BEND TEST:

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

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

Shamshad Hussain
 Manager Project, Noor Durrani & Associates, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: J/0534/016

SOM Lab Ref: 709(Page-1/2)

Dated: 22-04-2019

Dated: 24-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	0.664	4	0.498	0.20	0.195	6.63	8.10	73070	74940	89370	91660	1.20	8.0	15.0	
2	0.653	4	0.494	0.20	0.192	6.60	8.18	72730	75760	90150	93910	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

Shamshad Hussain
 Manager Project, Noor Durrani & Associates, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: J/0534/016

SOM Lab Ref: 709(Page-2/2)

Dated: 22-04-2019

Dated: 24-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	0.659	4	0.497	0.20	0.194	6.42	7.87	70820	73010	86780	89470	1.40	8.0	17.5	
2	0.646	4	0.492	0.20	0.190	6.37	7.75	70260	73960	85430	89930	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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

Nauman
Khurram

By Dir MTL, Infra Dev Works of Prism -9, Pkg-II, III & IV - (M/S NLC)

SOM Lab

Client Reference: 408/241/E/Lab/538/1097

Ref:

710(Page-1/1)

Dated: 18-04-2019

Dated:

24-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kisan 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	2.644	8	0.995	0.79	0.777	29.31	36.36	81820	83190	101510	103210	1.10	8.0	13.8	
2	2.649	8	0.995	0.79	0.778	29.48	35.85	82300	83570	100090	101630	1.00	8.0	12.5	
3	1.488	6	0.746	0.44	0.437	13.97	20.05	70000	70480	100500	101190	1.00	8.0	12.5	
4	1.489	6	0.747	0.44	0.438	14.39	20.23	72150	72480	101420	101890	1.00	8.0	12.5	
5	0.664	4	0.498	0.20	0.195	7.16	8.77	78910	80940	96670	99150	0.90	8.0	11.3	
6	0.661	4	0.497	0.20	0.194	7.54	8.94	83180	85760	98580	101630	0.90	8.0	11.3	
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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

Sub Divisional Officer
Buildings Sub Division, C. M. Sectt; Lahore

Test Performed By: Dr. /Engr. M Irfan UI Hassan

Client Reference: SDO/CMS/797

SOM Lab

Ref: 713 (Page-1/1)

Dated: 19-04-2019

Dated: 24-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	0.668	4	0.500	0.20	0.196	7.54	9.23	83180	84880	101730	103810	1.20	8.0	15.0	
2	0.665	4	0.498	0.20	0.195	6.75	9.12	74420	76320	100610	103190	1.00	8.0	12.5	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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