

Mirza Muhammad Shahzad,RE

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

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/124

SOM Lab

Ref: 2931 (Page-1a/1)

Dated: 27-09-2023

Dated: 28-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.470	6	0.742	0.44	0.432	11.88	18.52	59530	60630	92840	94560	1.30	8.0	16.3	Rajpoot
2	1.479	6	0.744	0.44	0.435	11.82	18.50	59270	59950	92740	93800	1.40	8.0	17.5	Rajpoot
3	1.500	6	0.749	0.44	0.441	12.28	19.49	61570	61430	97690	97470	1.40	8.0	17.5	Alpha
4	1.486	6	0.746	0.44	0.437	12.05	19.08	60400	60810	95650	96310	1.20	8.0	15.0	Alpha
5	1.033	5	0.622	0.31	0.304	8.51	13.22	60560	61750	94060	95920	1.20	8.0	15.0	Rajpoot
6	1.034	5	0.622	0.31	0.304	8.38	13.10	59620	60790	93190	95030	1.30	8.0	16.3	Rajpoot
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Witnessed By: M.Shahzad Khan (Consultant), Atta Muhammad (Contractor)

BEND TEST:

# 6	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	
# 5	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

Mirza Muhammad Shahzad,RE

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

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/124

Dated: 27-09-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2931 (Page-1ba/1)

Dated: 28-09-2023

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	0.672	4	0.501	0.20	0.197	5.37	8.69	59240	60140	95770	97230	1.10	8.0	13.8	Rajpoot
2	0.670	4	0.501	0.20	0.197	5.40	8.69	59580	60490	95770	97230	1.00	8.0	12.5	Rajpoot
3	0.622	4	0.483	0.20	0.183	5.50	8.43	60700	66340	92960	101600	1.30	8.0	16.3	Alpha
4	0.631	4	0.485	0.20	0.185	5.52	8.63	60930	65870	95210	102930	1.10	8.0	13.8	Alpha
5	0.676	4	0.503	0.20	0.199	5.78	8.99	63740	64060	99150	99640	1.00	8.0	12.5	Zak
6	0.674	4	0.502	0.20	0.198	5.86	9.09	64640	65290	100270	101280	1.30	8.0	16.3	Zak
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Witnessed By: M.Shahzad Khan (Consultant), Atta Muhammad (Contractor)

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 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

Waqas Ali
Variant Gulberg 2, Lahore.

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

Client Reference: VA/29/106

SOM Lab

Ref: 2933 (Page-1/1)

Dated: 28-09-2023

Dated: 28-09-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.72 2	8	1.00 9	0.7 9	0.80 0	28.46	34.53	79460	78460	96390	95180	1.5 0	8. 0	18. 8	
2	2.72 3	8	1.00 9	0.7 9	0.80 0	28.24	34.35	78830	77850	95900	94710	1.2 0	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

Engr. Muhammad Ashraf Bhatti

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

CM Barqaab Consult.Services (Pvt) Ltd.(500/220/132kV Nokhar S/Station,ADB Loan No.3677-Pak)

Client Reference: 500KV/SS/N-LHR/BQB/146

SOM Lab

Ref: 2934 (Page-1a/1)

Dated: 27-09-2023

Dated: 28-09-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (FF 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	2.683	8	1.002	0.79	0.788	26.32	34.98	73480	73670	97670	97920	1.50	8.00	18.8	
2	2.678	8	1.001	0.79	0.787	25.79	34.25	72000	72280	95620	95980	1.40	8.00	17.5	
3	1.503	6	0.750	0.44	0.442	14.07	18.93	70510	70190	94880	94460	1.30	8.00	16.3	
4	1.507	6	0.751	0.44	0.443	14.65	19.90	73430	72930	99740	99060	1.30	8.00	16.3	
5	1.501	6	0.749	0.44	0.441	13.48	18.86	67550	67400	94530	94310	1.40	8.00	17.5	
6	1.506	6	0.751	0.44	0.443	13.99	18.88	70100	69630	94630	93990	1.30	8.00	16.3	
7	1.505	6	0.750	0.44	0.442	14.09	19.69	70620	70300	98720	98270	1.40	8.00	17.5	
8	1.506	6	0.751	0.44	0.443	14.34	19.83	71890	71410	99380	98710	1.50	8.00	18.8	
9	1.042	5	0.624	0.31	0.306	10.04	13.88	71440	72370	98780	100070	1.50	8.00	18.8	
10	1.044	5	0.625	0.31	0.307	10.04	13.76	71440	72130	97910	98860	1.40	8.00	17.5	

Witnessed By: Muhammad Farhan (Barqaab)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fourteen Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	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

Engr. Muhammad Ashraf Bhatti

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

CM Barqaab Consult.Services (Pvt) Ltd.(500/220/132kV Nokhar S/Station,ADB Loan No.3677-Pak)

Client Reference: 500KV/SS/N-LHR/BQB/146

SOM Lab

Ref: 2934 (Page-1b/1)

Dated: 27-09-2023

Dated: 28-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (FF 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	1.040	5	0.624	0.31	0.306	10.09	13.51	71800	72740	96090	97350	1.30	8.0	16.3	
2	1.048	5	0.626	0.31	0.308	10.01	13.51	71220	71680	96090	96720	1.20	8.0	15.0	
3	0.673	4	0.502	0.20	0.198	6.52	8.53	71940	72670	94090	95040	1.10	8.0	13.8	
4	0.673	4	0.502	0.20	0.198	6.49	8.51	71610	72330	93860	94810	1.20	8.0	15.0	
5	0.671	4	0.501	0.20	0.197	6.39	8.43	70480	71560	92960	94380	1.20	8.0	15.0	
6	0.671	4	0.501	0.20	0.197	6.49	8.56	71610	72700	94420	95860	1.00	8.0	12.5	
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Witnessed By: Muhammad Farhan (Barqaab)

BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 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

Syed Mohsin Ali RE

QA/QC Deptt. Bahria Town Lhr. (Over Head Water Tank at Sector H Bahria Town Multan Road Lahore)

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

Client Reference: QA/QC/Steel-3357

Dated: 28-09-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2935 (Page-1/1)

Dated: 28-09-2023

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	1.466	6	0.741	0.44	0.431	12.18	19.88	61060	62340	99640	101720	1.30	8.0	16.3	
2	1.460	6	0.739	0.44	0.429	12.28	20.05	61570	63150	100500	103080	1.40	8.0	17.5	
3	0.638	4	0.488	0.20	0.187	5.93	9.12	65420	69970	100610	107600	1.00	8.0	12.5	
4	0.638	4	0.488	0.20	0.187	5.93	9.12	65420	69970	100610	107600	1.10	8.0	13.8	
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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

Engr. Muhammad Ashraf Bhatti

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

CM Barqaab Consult.Services (Pvt) Ltd.(500/220/132kV Nokhar S/Station,ADB Loan No.3677-Pak)

Client Reference: 500KV/SS/N-LHR/BQB/147

SOM Lab

Ref: 2936-38 (Page-1/1)

Dated: 27-09-2023

Dated: 28-09-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

Deformed Bar (FF

Gauge Length: 8 h

Sample Type:

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	1.489	6	0.747	0.44	0.438	14.37	19.69	72050	72380	98720	99170	1.10	8.0	13.8	
2	1.499	6	0.749	0.44	0.441	14.53	19.93	72810	72650	99890	99670	1.40	8.0	17.5	
3	0.689	4	0.507	0.20	0.202	7.19	9.25	79250	78470	101960	100950	1.10	8.0	13.8	
4	0.699	4	0.511	0.20	0.205	7.29	9.48	80370	78410	104540	101990	1.20	8.0	15.0	
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Witnessed By: M. Farhan (Barqaab), Mohsin Bhatti (NTDC)

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
# 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

Engr. Zain-UI-Abidin Khan

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

RE PEPAC Ltd.(Estb Of Welfare Complex, Adjacent To Sundar Industrial Estate Distt Kasur Pkg-S)

SOM Lab

Client Reference: RE/PEPAC/Sunder/S-07

Ref: 2937 (Page-1/1)

Dated: 07-09-2023

Dated: 28-09-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615
Deformed

Gauge Length: 8 h

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	2.655	8	0.997	0.79	0.780	25.43	34.76	71000	71920	97040	98290	1.20	8.0	15.0	
2	2.692	8	1.004	0.79	0.791	25.59	34.83	71430	71340	97240	97120	1.30	8.0	16.3	
3	1.500	6	0.749	0.44	0.441	13.78	19.18	69080	68930	96160	95940	1.40	8.0	17.5	
4	1.500	6	0.749	0.44	0.441	13.71	19.06	68730	68570	95550	95330	1.30	8.0	16.3	
5	1.033	5	0.622	0.31	0.304	9.53	13.35	67810	69150	95000	96880	1.30	8.0	16.3	
6	1.022	5	0.618	0.31	0.300	9.48	13.37	67450	69700	95150	98320	1.40	8.0	17.5	
7	0.670	4	0.501	0.20	0.197	6.65	8.97	73290	74410	98920	100430	1.30	8.0	16.3	
8	0.670	4	0.501	0.20	0.197	6.57	8.89	72510	73610	98020	99510	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 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: Please always confirm the results of above report on web www.uet-civil.edu.pk