

Noor Ur Rahman

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

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

Client Reference: RE/NESPAK/P-2C/CPEC-WR/470

SOM Lab

Ref: 2178(Page-1/1)

Dated: 01-02-2020

Dated: 06-02-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (MOEEZ 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	3.310	9	1.113	1.00	0.973	31.60	40.88	69700	71630	90150	92650	1.50	8.0	18.8	
2	3.291	9	1.110	1.00	0.967	33.03	42.30	72840	75330	93300	96480	1.40	8.0	17.5	
3	2.688	8	1.003	0.79	0.790	22.94	31.40	64030	64030	87650	87650	1.60	8.0	20.0	
4	2.617	8	0.990	0.79	0.769	28.13	36.70	78550	80690	102450	105250	1.40	8.0	17.5	
5	1.060	5	0.630	0.31	0.312	10.09	13.66	71800	71340	97180	96560	1.50	8.0	18.8	
6	1.076	5	0.634	0.31	0.316	10.19	13.76	72520	71150	97910	96050	1.70	8.0	21.3	
7	0.666	4	0.500	0.20	0.196	5.81	8.66	64080	65380	95550	97500	1.40	8.0	17.5	
8	0.660	4	0.497	0.20	0.194	5.81	8.72	64080	66060	96110	99080	1.30	8.0	16.3	
9	0.658	4	0.496	0.20	0.193	5.81	8.66	64080	66400	95550	99010	1.30	8.0	16.3	
10	0.672	4	0.501	0.20	0.197	6.49	9.07	71610	72700	100050	101570	1.30	8.0	16.3	

BEND TEST:

# 9	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
# 8	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	
# 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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20200206-A

SOM Lab Ref: 2179(Page-1/1)

Dated: 06-02-2020

Dated: 06-02-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium -G-60)

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	2.509	8	0.969	0.79	0.737	24.16	34.40	67450	72300	96050	102950	1.00	8.0	12.5	
2	2.526	8	0.972	0.79	0.742	23.85	34.48	66590	70900	96250	102470	1.20	8.0	15.0	
3	2.532	8	0.973	0.79	0.744	23.80	34.58	66450	70560	96530	102500	1.40	8.0	17.5	
4	1.512	6	0.752	0.44	0.444	14.55	20.54	72910	72260	102960	102030	1.20	8.0	15.0	
5	1.507	6	0.751	0.44	0.443	14.22	20.13	71280	70800	100910	100230	1.30	8.0	16.3	
6	1.506	6	0.751	0.44	0.443	13.76	19.75	68980	68510	98970	98300	1.10	8.0	13.8	
7	0.675	4	0.502	0.20	0.198	8.21	10.14	90490	91400	111850	112980	1.00	8.0	12.5	
8	0.672	4	0.501	0.20	0.197	8.02	10.09	88470	89810	111290	112980	1.20	8.0	15.0	
9	0.657	4	0.496	0.20	0.193	6.37	8.99	70260	72810	99150	102740	1.10	8.0	13.8	
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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	
# 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

Basharat Munir

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

Project Manager, Dupak Properties (Pvt) Ltd. Defence View Apartments at Shanghaj Road Lahore

Client Reference: Dupak/DVA/040

SOM Lab

Ref: 2180(Page-1/1)

Dated: 06-02-2020

Dated: 06-02-2020

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	2.652	8	0.996	0.79	0.779	24.74	36.29	69070	70040	101310	102740	1.40	8.0	17.5	
2	2.634	8	0.993	0.79	0.774	23.98	37.23	66940	68320	103930	106080	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Muhammad Asfaq Ch & Sons (Pvt)
Ltd
Engineers & Contractor, Lahore

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

Client Reference: Nil

SOM Lab

Ref: 2184 (Page-1/1)

Dated: 06-02-2020

Dated: 06-02-2020

Test: Tension Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	1.477	6	0.743	0.44	0.434	13.78	21.68	69080	70040	108680	110180	1.50	8.0	18.8	
2	1.474	6	0.743	0.44	0.433	13.53	21.53	67810	68900	107910	109660	1.50	8.0	18.8	
3	0.664	4	0.498	0.20	0.195	7.51	11.01	82850	84970	121400	124510	1.00	8.0	12.5	
4	0.665	4	0.498	0.20	0.195	7.54	11.01	83180	85320	121400	124510	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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