Sub Divisional Officer
Rukanpur Canal Sub Division, Rukanpur

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

Client Reference: **218/**
Dated: **02-06-2019**

SOM Lab Ref: **1053 (Page-1/1)**
Dated: **05-07-2019**

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	0.669	4	0.501	0.20	0.197	5.96	8.61	65760	66760	94990	96430	1.00	8.0	12.5	
2	0.668	4	0.500	0.20	0.196	5.02	7.24	55310	56440	79810	81440	1.00	8.0	12.5	
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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

Archt. Kalim A. Siddiqui
Chief Executive, K S & Associates, Lahore

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

Client Reference: **KSA/MCB-MZFG/18/JU-21**
Dated: **27-06-2019**

SOM Lab Ref: **1054(Page-1/1)**
Dated: **05-07-2019**

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	2.587	8	0.984	0.79	0.760	26.83	33.15	74900	77860	92550	96200	1.50	8.0	18.8	
2	1.516	6	0.754	0.44	0.446	15.49	21.15	77670	76620	106020	104600	1.40	8.0	17.5	
3	0.593	4	0.471	0.20	0.174	6.03	7.70	66550	76490	84870	97550	1.20	8.0	15.0	
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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 Six Samples Received and Tested

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

Maj. ® Muhammad Mubashar **Test Performed By:** **Dr. /Engr. Amna Rajput**

Project Engineer, Deevar Developer Pvt Ltd. Lahore

Client Reference: ZD/ZO/L/005 **SOM Lab Ref: 1055(Page-1/1)**

Dated: 04-07-2019 **Dated: 05-07-2019**

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	1.494	6	0.748	0.44	0.439	13.12	19.67	65760	65910	98610	98840	1.40	8.0	17.5	
2	1.499	6	0.749	0.44	0.441	13.07	19.69	65510	65360	98720	98490	1.30	8.0	16.3	
3	0.673	4	0.502	0.20	0.198	4.96	7.34	54750	55300	80940	81750	1.60	8.0	20.0	
4	0.656	4	0.496	0.20	0.193	5.32	7.61	58680	60810	83970	87020	1.40	8.0	17.5	
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BEND TEST:

# 6	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

Resident Engineer
NESPAK (Pvt) Ltd. Lahore

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

Client Reference: **4024/NESPAK/TEST/03**
Dated: **03-07-2019**

SOM Lab
Ref: **1056(Page-1/1)**
Dated: **05-07-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**
Gauge Length: **8 inch** **Sample Type:** **Deformed Bar(Saeed Kasur 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	0.661	4	0.497	0.20	0.194	6.12	9.55	67450	69530	105330	108590	1.10	8.0	13.8	
2	0.645	4	0.492	0.20	0.190	6.01	9.48	66320	69810	104540	110040	1.00	8.0	12.5	
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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

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

Chief Resident Engineer, Package -I, NESPAK, (Pvt) Ltd. Lahore

Client Reference: **4042/13/FAM/Steel-039** **SOM Lab Ref:** **1057(Page-1/1)**

Dated: **04-07-2019** **Dated:** **05-07-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Amreli 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	1.507	6	0.751	0.44	0.443	16.97	21.71	85070	84500	108830	108100	1.10	8.0	13.8	
2	1.512	6	0.752	0.44	0.444	16.62	21.43	83290	82540	107400	106430	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