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

Construction Manager, Mughals Pakistan (Ovt) Ltd.

Client Reference: **786/MPL-0064/080101/2021** **Dated:** **0801-2021**

SOM Lab Ref: **CED/SOM/3626 (Page-1/1)** **Dated:** **12-01-2021**

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

Sample Type: **Deformed Bar** **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	1.608	16	16.16	201	205	106.70	143.00	531	521	711	698	27.5	200	13.8	
2	1.601	16	16.12	201	204	107.20	142.20	533	526	707	698	30.0	200	15.0	
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BEND TEST:

216mm	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

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

Manager Civil Works, Nishat Mill Ltd, Lahore

Client Reference: NA/GU/ST/002 **Dated:** 07-01-2021

SOM Lab Ref: CED/SOM/3627(Page-1/1) **Dated:** 12-01-2021

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

Sample Type: Deformed Bar(AFCO 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	3.765	25	24.72	491	480	288.70	398.00	588	602	811	830	30.0	200	15.0	
2	3.759	25	24.69	491	479	289.00	390.00	589	604	795	815	30.0	200	15.0	
3	2.404	20	19.75	314	306	158.20	218.50	504	517	696	714	27.5	200	13.8	
4	2.457	20	19.96	314	313	152.70	210.70	486	488	671	674	30.0	200	15.0	
5	1.595	16	16.08	201	203	113.00	140.70	562	557	700	693	27.5	200	13.8	
6	1.565	16	15.93	201	199	116.00	142.00	577	582	706	713	27.5	200	13.8	
7	0.990	12	12.67	113	126	70.20	95.20	621	557	842	755	27.5	200	13.8	
8	1.000	12	12.74	113	127	67.20	92.70	594	528	820	728	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

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

Project Engineer, NETRACON Technologies (Pvt) Ltd. Lahore

Client Reference: **NTT-HO/FSDW-GS/039** **SOM Lab Ref:** **3628(Page-1/1)**

Dated: **11-01-2021** **Dated:** **12-01-2021**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Kamran & Fazal 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	2.676	8	1.000	0.79	0.786	29.17	37.89	81450	81860	105780	106320	1.60	8.0	20.0	Fazal
2	2.660	8	0.998	0.79	0.782	29.00	38.07	80960	81790	106290	107380	1.60	8.0	20.0	Fazal
3	1.528	6	0.756	0.44	0.449	18.50	22.58	92740	90880	113180	110910	1.30	8.0	16.3	Fazal
4	0.659	4	0.497	0.20	0.194	7.24	9.68	79810	82280	106790	110090	1.20	8.0	15.0	Kamran
5	0.660	4	0.497	0.20	0.194	6.93	9.38	76440	78800	103420	106620	1.50	8.0	18.8	Kamran
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Witnessed By: **Sohaib Ali, Sub Engineer, NESPAK**

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 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
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Ten Samples Received and Tested

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

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

Const. of MRR Site No XII & No 4092 SQN (Chunian at PAF Base, Lahore

Client Reference: **nil** **SOM Lab Ref:** **3629(Page-1/1)**

Dated: **12-01-2021** **Dated:** **12-01-2021**

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	2.552	8	0.977	0.79	0.750	17.94	27.75	50090	52760	77460	81600	1.60	8.0	20.0	
2	1.469	6	0.742	0.44	0.432	11.48	16.48	57540	58600	82620	84150	1.60	8.0	20.0	
3	1.079	5	0.635	0.31	0.317	11.64	14.32	82820	80990	101890	99640	1.40	8.0	17.5	
4	0.635	4	0.488	0.20	0.187	4.79	6.90	52840	56510	76100	81390	1.20	8.0	15.0	
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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

Mohsin Farooq Khokhar **Test Performed By:** **Dr. /Engr.** **S, Asad Ali Gillani**

APE (Civ), DHA, Main Office Complex, A Block Commercial Area Ph-VI, Lahore

Client Reference: **520/UET-Lab Test. Hashmi/Maint** **SOM Lab Ref:** **3630(Page-1/1)**

Dated: **11-01-2021** **Dated:** **12-01-2021**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Ittefaq 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	29.77	37.79	83100	83310	105490	105760	1.30	8.0	16.3	
2	2.597	8	0.986	0.79	0.763	26.12	36.00	72910	75490	100510	104070	1.40	8.0	17.5	
3	1.508	6	0.751	0.44	0.443	15.39	19.27	77160	76630	96570	95920	1.10	8.0	13.8	
4	1.522	6	0.754	0.44	0.447	14.48	20.08	72560	71420	100660	99080	1.10	8.0	13.8	
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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

Note:-

Only Six Samples Received and Tested

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

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

Resident Engineer, NESPAK, (Pvt) Ltd. (Const: of DHA Office Complex, DHA Bahawalpur)

Client Reference: **4401/NY/05/38** **SOM Lab Ref:** **3631(Page-1/1)**

Dated: **07-01-2021** **Dated:** **12-01-2021**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615 Deformed Bar(SGI Steel**

Gauge Length: **8 inch** **Sample Type:**

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	2.656	8	0.997	0.79	0.781	23.85	37.38	66590	67360	104360	105560	1.20	8.0	15.0	
2	2.574	8	0.981	0.79	0.756	22.53	36.62	62890	65720	102220	106820	1.30	8.0	16.3	
3	1.532	6	0.757	0.44	0.450	13.00	19.93	65150	63700	99890	97670	1.50	8.0	18.8	
4	1.490	6	0.747	0.44	0.438	12.66	19.80	63460	63750	99230	99680	1.30	8.0	16.3	
5	0.639	4	0.489	0.20	0.188	5.73	8.72	63180	67210	96110	102250	1.10	8.0	13.8	
6	0.641	4	0.489	0.20	0.188	5.56	8.58	61270	65180	94650	100690	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 Nine Samples Received and Tested

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

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

Resident Engineer, NESPAK, (Pvt) Ltd. (Const: of DHA Office Complex, DHA Bahawalpur)

Client Reference: **4401/NY/05/35** **SOM Lab Ref:** **3632(Page-1/1)**

Dated: **07-12-2021** **Dated:** **12-01-2021**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615 Deformed Bar(Kamran Steel)**

Gauge Length: **8 inch** **Sample Type:**

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	2.657	8	0.997	0.79	0.781	25.79	34.88	72000	72830	97380	98510	1.20	8.0	15.0	
2	2.659	8	0.997	0.79	0.781	27.01	35.85	75420	76280	100090	101240	1.20	8.0	15.0	
3	1.502	6	0.749	0.44	0.441	13.66	20.18	68470	68310	101170	100940	1.60	8.0	20.0	
4	1.506	6	0.751	0.44	0.443	13.71	20.36	68730	68260	102040	101350	1.40	8.0	17.5	
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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

Note:-

Only Six Samples Received and Tested

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

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

Resident Engineer, NESPAK, (Pvt) Ltd. Lahore

Client Reference: **4047/13/OH/04-KRC/126** **SOM Lab Ref:** **3633(Page-1/1)**

Dated: **01-01-2021** **Dated:** **12-01-2020**

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	0.670	4	0.501	0.20	0.197	7.08	9.76	78130	79320	107580	109210	1.40	8.0	17.5	
2	0.669	4	0.501	0.20	0.197	7.16	9.76	78910	80110	107580	109210	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