Farid Masood
GM-Technical Gharibwal Cement Ltd.Lahore

Test Performed By: **Dr. /Engr.** Asad Ali Gilllani

Client Reference: GCL/Purchase/UET/TEST/004 **Dated:** 16-10-2024
SOM Lab Ref: CED/SOM/022 (Page-1/1) **Dated:** 16-10-2024
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	3.864	25	25.03	398	492	256.70	321.00	646	522	807	653	37.5	200	18.8	
2	3.843	25	24.97	398	490	255.70	321.70	643	523	809	658	37.5	200	18.8	
3	2.390	20	19.69	314	305	164.20	207.20	523	540	660	681	32.5	200	16.3	
4	2.390	20	19.69	314	305	165.70	208.50	527	545	664	685	35.0	200	17.5	
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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

Note:-

Only Six Samples Received and Tested

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

Farid Masood
GM-Technical Gharibwal Cement Ltd.Lahore

Test Performed By: **Dr. /Engr.** Asad Ali Gilllani

Client Reference: GCL/Purchase/UET/TEST/003 **Dated:** 08-10-2024
SOM Lab Ref: CED/SOM/4944 (Page-1/1) **Dated:** 08-10-2024
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	3.841	25	24.95	398	489	247.70	319.00	623	507	802	653	35.0	200	17.5	
2	3.843	25	24.97	398	490	247.20	319.00	622	505	802	652	35.0	200	17.5	
3	2.402	20	19.74	314	306	161.50	205.50	514	528	654	672	27.5	200	13.8	
4	2.408	20	19.76	314	307	160.70	204.20	512	524	650	666	30.0	200	15.0	
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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

Note:-

Only Six Samples Received and Tested

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

Mohsin Abbas **Test Performed By:** **Dr. /Engr.** Asad Ali Gilllani

QAQC Manager Zameen Development.(Const. Of Zameen Neo at Plot #13,Gulberg III Lhr)

Client Reference: ZD/QAQC/NEO-QUAD&JADE/07 **SOM Lab Ref:** 4948A (Page-1/1)

Dated: 08-10-2024 **Dated:** 08-10-2024

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	2.740	8	1.012	0.79	0.805	27.93	36.24	77980	76520	101170	99280	1.30	8.0	16.3	H # F585
2	2.661	8	0.998	0.79	0.782	25.43	34.35	71000	71730	95900	96890	1.40	8.0	17.5	H # F585
3	1.507	6	0.751	0.44	0.443	15.09	19.69	75620	75110	98720	98050	1.40	8.0	17.5	H # F596
4	1.499	6	0.749	0.44	0.441	13.88	18.55	69590	69440	92990	92780	1.50	8.0	18.8	H # F596
5	0.670	4	0.501	0.20	0.197	6.85	8.84	75540	76690	97460	98940	1.30	8.0	16.3	H # F399
6	0.664	4	0.498	0.20	0.195	6.07	7.72	66890	68600	85100	87280	1.20	8.0	15.0	H # F399
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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

Nasir Ahmed Panhwar **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

CEO M.R Construction Company.(220KV Double Circuit/Single Circuit Mangla-Ghakkar-KSK T/Line)

Client Reference: MRCC/XEN/EHV-I/NTDC/RWP/24013-17 **SOM Lab Ref:** 4945 (Page-1/1)

Dated: 07-10-2024 **Dated:** 08-10-2024

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	2.632	8	0.992	0.79	0.773	29.46	34.63	82250	84050	96670	98800	1.40	8.0	17.5	Amreli
2	2.645	8	0.995	0.79	0.777	29.61	34.78	82670	84060	97100	98720	1.30	8.0	16.3	Amreli
3	1.664	6	0.789	0.44	0.489	16.08	23.45	80580	72500	117520	105740	1.40	8.0	17.5	FF
4	1.652	6	0.786	0.44	0.485	16.00	23.29	80220	72780	116750	105920	1.20	8.0	15.0	FF
5	0.670	4	0.501	0.20	0.197	6.19	7.30	68230	69270	80490	81710	1.20	8.0	15.0	Amreli
6	0.664	4	0.498	0.20	0.195	6.22	7.34	68570	70330	80940	83010	1.20	8.0	15.0	Amreli
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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

Shafqat Rana, PM **Test Performed By:** **Dr. /Engr.** Wasim Abbas
Union Developers Lahore.(Construction of LMDCTH)

Client Reference: UA/SO/2024/001 **SOM Lab Ref:** 4946 (Page-1/1)
Dated: 08-10-2024 **Dated:** 08-10-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Afco 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	2.709	8	1.007	0.79	0.796	29.89	36.00	83440	82810	100510	99760	1.20	8.0	15.0	
2	2.645	8	0.995	0.79	0.777	29.26	37.18	81680	83040	103790	105520	1.20	8.0	15.0	
3	1.495	6	0.748	0.44	0.439	16.06	20.51	80480	80660	102800	103040	1.10	8.0	13.8	
4	1.499	6	0.749	0.44	0.441	15.41	19.72	77260	77080	98870	98650	1.10	8.0	13.8	
5	1.144	5	0.654	0.31	0.336	10.27	13.91	73030	67380	98990	91330	1.20	8.0	15.0	
6	1.151	5	0.656	0.31	0.338	10.42	14.14	74120	67980	100590	92260	1.30	8.0	16.3	
7	0.662	4	0.498	0.20	0.195	7.00	8.77	77230	79210	96670	99150	1.20	8.0	15.0	
8	0.664	4	0.498	0.20	0.195	7.10	8.82	78350	80360	97230	99730	1.00	8.0	12.5	
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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
# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	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 Azmat, RE **Test Performed By:** **Dr. /Engr.** Wasim Abbas

NESPAK-Turkpak JV Lhr.(Reconstruction of Lady Willingdon Hospital,Lahore)

Client Reference: 4729/13/MA/04/100 **SOM Lab Ref:** 4947 (Page-1/1)

Dated: 04-10-2024 **Dated:** 08-10-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AF 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	13.17	19.13	66020	66320	95910	96340	1.20	8.0	15.0	
2	1.499	6	0.749	0.44	0.441	13.00	18.78	65150	65000	94120	93900	1.30	8.0	16.3	
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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

Resident Engineer **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Al-Imam Enterprises.(Const Of Zonal Office Building of Bank Al Habib Ltd.Main Boulevard Gulberg,Lhr)

Client Reference: Alm/BAHL/0824/0810 **SOM Lab Ref:** 4948 (Page-1/1)

Dated: 08-10-2024 **Dated:** 08-10-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Ittehad 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	1.964	7	0.857	0.60	0.577	16.46	25.10	60520	62930	92250	95930	1.70	8.0	21.3	
2	1.964	7	0.857	0.60	0.577	16.36	25.13	60140	62540	92360	96050	1.70	8.0	21.3	
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BEND TEST:

# 7	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