

M.Faraz

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Lab In Charge CMEC Haveli Bahadur Shah.(Const Of 1263MW Punjab Thermal Poer Plant,Jhang)

Client Reference: CMEC/UET/24060304

Dated: 06-06-2024

SOM Lab Ref: CED/SOM/4283(Page-1/2)

Dated: 06-06-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (Ittehad 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	5.022	28	28.55	616	640	355.20	470.70	577	555	764	736	27.5	200	13.8	H # 10
2	5.024	28	28.55	616	640	363.20	476.70	590	568	774	745	25.0	200	12.5	H # 10
3	3.911	25	25.19	491	498	305.00	367.70	621	613	749	738	32.5	200	16.3	H # 40
4	3.896	25	25.14	491	496	302.00	366.20	615	609	746	738	25.0	200	12.5	H # 40
5	2.391	20	19.69	314	305	163.70	203.00	521	538	646	667	27.5	200	13.8	H # 55
6	2.392	20	19.70	314	305	163.00	204.50	519	535	651	672	35.0	200	17.5	H # 55
7	1.543	16	15.82	201	197	111.00	139.00	552	565	691	708	30.0	200	15.0	H # 47
8	1.545	16	15.83	201	197	111.20	138.00	553	566	686	702	27.5	200	13.8	H # 47
9	0.980	12	12.61	113	125	55.50	84.00	491	445	743	673	27.5	200	13.8	H # 82
10	0.975	12	12.58	113	124	55.20	83.70	488	445	740	674	32.5	200	16.3	H # 82

Witnessed By:

Waleed (NESPAK)

BEND TEST:

28mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
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: Please always confirm the results of above report on web www.uet-civil.edu.pk

M.Faraz

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Lab In Charge CMEC Haveli Bahadur Shah.(Const Of 1263MW Punjab Thermal Poer Plant,Jhang)

Client Reference: CMEC/UET/24060301

Dated: 06-06-2024

SOM Lab Ref: CED/SOM/4283(Page-2/2)

Dated: 06-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Ittehad 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	3.848	25	24.98	491	490	240.20	330.50	489	491	673	675	37.5	200	18.8	H # 14
2	3.843	25	24.97	491	490	235.20	325.70	479	481	664	666	37.5	200	18.8	H # 14
3	2.405	20	19.75	314	306	161.00	216.00	512	526	688	706	25.0	200	12.5	H # 28
4	2.417	20	19.80	314	308	164.20	218.00	523	534	694	709	25.0	200	12.5	H # 28
5	0.952	12	12.43	113	121	60.00	78.70	531	495	696	649	27.5	200	13.8	H # 70
6	0.856	12	11.78	113	109	56.50	78.00	500	519	690	716	25.0	200	12.5	H # 70
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Witnessed By: Waleed (NESPAK)

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

Asim Sohail
AM-Purchase Gharibwal Cement Limited

Test Performed By: Dr. /Engr. Waseem Abbass

Client Reference: Nil
SOM Lab Ref: CED/SOM/4284 (Page-1/1)

Dated: 06-06-2024
Dated: 06-06-2024

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	3.877	25	25.08	491	494	234.20	239.70	477	475	488	486	40.0	200	20.0	
2	3.852	25	25.00	491	491	235.70	330.20	480	481	673	673	40.0	200	20.0	
3	1.566	16	15.94	201	199	101.50	134.50	505	509	669	675	37.5	200	18.8	
4	1.592	16	16.07	201	203	96.70	135.00	481	477	671	666	35.0	200	17.5	
5	0.890	12	12.02	113	113	63.20	86.20	559	558	762	761	30.0	200	15.0	
6	0.872	12	11.89	113	111	61.70	85.00	546	556	752	766	30.0	200	15.0	
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Witnessed By: Asim Sohail (AM-Purchase Gharibwal Cement Limited, Pace Tower, Head Office, Lahore)

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

Assistant Engineer (Civil)

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

B & W Deptt. UET.(Const Of Drilling and Installation of 2 Cusees Tube Well,Main Campus, UET Lhr)

Client Reference: B&W/AEN/3445

SOM Lab

Ref: 4281 (Page-1/1)

Dated: 27-05-2024

Dated: 06-06-2024

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	0.673	4	0.502	0.20	0.198	8.00	9.73	88240	89130	107350	108440	1.10	8.0	13.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two 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. Asad Ali Gillani

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

Client Reference: 4720/13/MA/04/19

SOM Lab

Ref: 4282 (Page-1/1)

Dated: 05-06-2024

Dated: 06-06-2024

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	2.652	8	0.996	0.79	0.779	22.63	35.90	63180	64070	100230	101650	1.30	8.0	16.3	
2	2.649	8	0.995	0.79	0.778	21.58	35.17	60250	61180	98180	99700	1.40	8.0	17.5	
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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

Mazar Ahmed Saeed, RE

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

MMP Pkg-I (PCP) Daska.(Const Of Storm Water Drainage System in Daska City)

Client Reference: DSK/CON/1094/SW/175/2024

SOM Lab

Ref: 4285(Page-1/1)

Dated: 03-06-2024

Dated: 06-06-2024

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	2.648	8	0.995	0.79	0.778	25.48	35.52	71150	72240	99180	100710	1.50	8.0	18.8	
2	2.652	8	0.996	0.79	0.779	25.15	35.19	70210	71200	98240	99630	1.60	8.0	20.0	
3	0.654	4	0.494	0.20	0.192	5.88	8.15	64860	67560	89930	93680	1.30	8.0	16.3	
4	0.661	4	0.497	0.20	0.194	6.01	8.33	66320	68370	91840	94680	1.20	8.0	15.0	
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BEND TEST:

# 8	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

Ali Raza
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 4286 (Page-1/1)

Dated: 06-06-2024

Dated: 06-06-2024

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	1.480	6	0.744	0.44	0.435	13.58	19.47	68060	68840	97590	98710	1.30	8.0	16.3	
2	1.501	6	0.749	0.44	0.441	16.51	21.20	82780	82590	106280	106040	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

Engr. Tanveer Afzal

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

GM Blue Bricks. (Grand Masjid at Blue Town Sapphire Housing Scheme Lahore)

Client Reference: BTS/Lab/001114

SOM Lab

Ref: 4287 (Page-1/1)

Dated: 06-06-2024

Dated: 06-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Aziz 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	2.622	8	0.991	0.79	0.771	22.94	37.33	64030	65610	104210	106780	1.30	8.0	16.3	
2	1.483	6	0.745	0.44	0.436	13.25	21.51	66430	67040	107810	108800	1.20	8.0	15.0	
3	1.047	5	0.626	0.31	0.308	8.99	13.02	63970	64380	92610	93210	1.00	8.0	12.5	
4	0.649	4	0.493	0.20	0.191	5.96	9.38	65760	68860	103420	108290	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight 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

Manohar Lal,RE

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

Nespak Hafizabad.(Dual of Rd From Gujranwala to M-2 Interchange at Kot Sarwar Via Hafizabad)

Client Reference: SA-466F/103/GH/ML/Lab/97

SOM Lab

Ref: 4288 (Page-1/1)

Dated: 23-05-2024

Dated: 06-06-2024

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	1.506	6	0.751	0.44	0.443	13.20	19.67	66170	65720	98610	97950	1.50	8.0	18.8	
2	1.499	6	0.749	0.44	0.441	13.12	19.78	65760	65610	99130	98900	1.40	8.0	17.5	
3	0.667	4	0.500	0.20	0.196	7.75	9.89	85430	87180	109040	111260	0.90	8.0	11.3	
4	0.668	4	0.500	0.20	0.196	7.65	9.73	84310	86030	107350	109540	0.80	8.0	10.0	
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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

Muhammad Shabbir
Sandhu,ME

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

NESPAK,EPCM Consult Swl.(Trunk Main Sewer Effluent P/Station & A/Works, Lot-03, Lot-02)

Client Reference: 3976/11/MIA/SWL/Lot-02&03/01/1409

SOM Lab

Ref: 4289 (Page-1/1)

Dated: 06-06-2024

Dated: 06-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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	1.520	6	0.754	0.44	0.447	15.29	20.31	76640	75440	101780	100190	1.10	8.0	13.8	
2	1.447	6	0.736	0.44	0.425	14.60	19.62	73170	75750	98360	101830	1.10	8.0	13.8	
3	1.036	5	0.622	0.31	0.304	10.09	13.78	71800	73220	98050	99990	1.40	8.0	17.5	
4	1.066	5	0.631	0.31	0.313	11.64	15.80	82820	82030	112410	111330	1.30	8.0	16.3	
5	0.674	4	0.502	0.20	0.198	6.37	8.84	70260	70970	97460	98440	1.10	8.0	13.8	
6	0.674	4	0.502	0.20	0.198	6.37	8.58	70260	70970	94650	95610	1.20	8.0	15.0	
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BEND TEST:

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

