

Muhammad Shafique

Test Performed By: Dr. /Engr. Irfan UI Hassan

Site Engr CMEC DHA Lahore.(MR138 KSK 220KV)(PLC OUTDOOR FOUNDATION)

Client Reference: Nil

Dated : 18-09-2023

SOM Lab Ref: CED/SOM/2875(Page-1/2)

Dated : 18-09-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 m

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	m	%	
1	0.889	12	12.00	113	113	54.20	75.50	479	480	668	669	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

12mm	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 Shafique
 Site Engr CMEC DHA Lahore.(MR138 KSK 220KV)(PLC OUTDOOR FOUNDATION)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: Nil

Dated : 18-09-2023

SOM Lab Ref: CED/SOM/2875(Page-2/2)

Dated : 18-09-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 m

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	m	%	
1	1.570	16	15.96	201	200	93.70	133.00	466	469	661	665	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

16mm	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

Aamir Shahzad
Alvi

Test Performed By: Dr. /Engr. Irfan UI Hassan

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/134

Dated : 18-09-2023

SOM Lab Ref: CED/SOM/2876(Page-1/1)

Dated : 18-09-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 m

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	m	%	
1	3.836	25	24.95	491	489	231.00	320.70	471	473	653	656	37.5	200	18.8	
2	3.832	25	24.93	491	488	227.00	317.70	462	465	647	651	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	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

Usman Nazir, RE

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

M/S ZEERUK-LOYA-MIHA JV.(Korang Bridge & 1.5 KM Approach Road on Islamabad Expressway)

Client Reference: ZI/RE/KB/23/223

Dated

: 01-09-2023

SOM Lab Ref: CED/SOM/2881 (Page-1/2)

Dated

: 18-09-2023

Test: Tension Test

Test Specification:

ASTM-F-1554

Sample Type:

J Bolts For Electric Pole Foundation

Gauge Length:

200 m

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	m	%	
1	4.015	25	25.51	491	511	141.00	209.20	287	276	426	410	50.0	200	25.0	
2	3.958	25	25.34	491	504	156.50	230.70	319	311	470	458	55.0	200	27.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

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

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

Usman Nazir, RE

Test Performed By: Dr. /Engr.

S Asad Ali Gillani

M/S ZEERUK-LOYA-MIHA JV.(Dev Of Islamabad Expressway From Korang To PWD Interchange)

Client Reference: ZI/RE/FWO/P-N-5/22/129A

Dated : 01-09-2023

SOM Lab Ref: CED/SOM/2881 (Page-2/2)

Dated : 18-09-2023

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J Bolt For Electric Pole Foundation

Gauge Length: 200 m

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	m	%	
1	3.88 2	25	25.1 1	491	495	138.7 0	204.50	283	281	417	414	55. 0	200	27.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

ESS-I-AAR Consultant,RE
D.G.Kan.(Estb Of Emergency Block In Teaching Hospital D.G.khan)

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

Client Reference: 2355

Dated: 31-08-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2872 (Page-1/1)

Dated: 18-09-2023

ASTM-A-615
Deformed Bar (SJ
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	2.695	8	1.004	0.799	0.792	26.20	34.12	73140	72950	95250	95010	1.80	8.00	22.5	
2	2.677	8	1.001	0.799	0.787	26.17	33.97	73050	73330	94820	95180	1.60	8.00	20.0	
3	1.504	6	0.750	0.444	0.442	14.50	19.32	72660	72330	96830	96390	1.60	8.00	20.0	
4	1.503	6	0.750	0.444	0.442	14.04	19.08	70360	70040	95650	95220	1.40	8.00	17.5	
5	0.670	4	0.501	0.207	0.197	6.70	8.51	73850	74980	93860	95290	1.30	8.00	16.3	
6	0.671	4	0.501	0.207	0.197	6.78	8.69	74750	75890	95770	97230	1.30	8.00	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Engr. Muhammad Mohsin
Site Engineer (Civil) S.Mehboob & Company.

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

Client Reference: SMC/Carrefour/LHR/DHA11/03

SOM Lab

Ref: 2874 (Page-1/1)

Dated: 18-09-2023

Dated: 18-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Kamran 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	1.48 1	6	0.74 4	0.4 4	0.43 5	14.95	20.34	74960	75820	10194 0	10311 0	1.5 0	8. 0	18. 8	
2	1.48 2	6	0.74 5	0.4 4	0.43 6	14.78	20.36	74090	74770	10204 0	10297 0	1.3 0	8. 0	16. 3	
3	1.47 3	6	0.74 3	0.4 4	0.43 3	14.48	19.85	72560	73730	99480	10109 0	1.2 0	8. 0	15. 0	
4	0.65 8	4	0.49 6	0.2 0	0.19 3	7.00	8.74	77230	80030	96340	99830	1.1 0	8. 0	13. 8	
5	0.65 4	4	0.49 4	0.2 0	0.19 2	6.95	8.69	76660	79860	95770	99760	1.2 0	8. 0	15. 0	
6	0.65 4	4	0.49 4	0.2 0	0.19 2	7.03	8.77	77560	80800	96670	10070 0	1.1 0	8. 0	13. 8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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

HSM Engineering

Test Performed By: Dr. /Engr. Irfan UI Hassan

Gujranwala.(Attock Petroleme Bulk Oil Storage Termional Machike)

Client Reference: Nil

Dated: 18-09-2023

Test: Tension Test & Bend Test

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2877 (Page-1/1)

Dated: 18-09-2023

ASTM-A-615

Deformed Bar (Al Moiz 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	1.500	6	0.749	0.44	0.441	14.17	19.29	71020	70860	96670	96450	1.50	8.00	18.8		
2	0.697	4	0.511	0.20	0.205	6.93	9.48	76440	74580	104540	101990	1.30	8.00	16.3		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	<p>Note:-</p> <p>Only Two Samples Received and Tested</p>

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

Yasir Ahmad
GM-Works FF Steel Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 2878 (Page-1/1)

Dated: 13-09-2023

Dated: 18-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615
Deformed Bar (FF
Steel)

Gauge Length: 8 h

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	1.056	5	0.628	0.31	0.310	9.65	13.58	68680	68680	96600	96600	1.50	8.0	18.8	1
2	1.051	5	0.627	0.31	0.309	9.45	13.46	67230	67450	95730	96040	1.40	8.0	17.5	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

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

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

Muhammad Irfan
ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

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

Client Reference: DOC-BMC/AJWA/110

SOM Lab

Ref: 2879 (Page-1/1)

Dated: 18-09-2023

Dated: 18-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	2.649	8	0.995	0.79	0.778	24.97	34.53	69720	70800	96390	97870	1.50	8.0	18.8	
2	2.648	8	0.995	0.79	0.778	24.46	34.02	68300	69350	94970	96430	1.50	8.0	18.8	
3	1.462	6	0.740	0.44	0.430	13.68	19.06	68570	70170	95550	97770	1.20	8.0	15.0	
4	1.495	6	0.748	0.44	0.439	15.75	20.36	78940	79120	102040	102270	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	6.54	8.63	72170	73640	95210	97150	1.20	8.0	15.0	
6	0.666	4	0.500	0.20	0.196	6.34	8.46	69920	71350	93300	95200	1.30	8.0	16.3	
7	0.668	4	0.500	0.20	0.196	6.65	8.84	73290	74790	97460	99450	1.20	8.0	15.0	
8	0.668	4	0.500	0.20	0.196	6.52	8.61	71940	73410	94990	96930	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	
# 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

Sadaqat Ahmad,RE
Nespak Lahore.(University Of Child Health Sciences Lahore)

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

Client Reference: 4598/13/SA/09/072

Dated: 16-09-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2882 (Page-1/1)

Dated: 18-09-2023

ASTM-A-615

Deformed Bar (Batala Gold 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	2.670	8	1.000	0.79	0.785	22.50	36.77	62810	63210	102650	103300	1.30	8.00	16.3	
2	2.669	8	0.999	0.79	0.784	19.90	31.96	55550	55980	89220	89900	1.30	8.00	16.3	
3	1.505	6	0.750	0.44	0.442	12.03	18.83	60290	60020	94370	93950	1.30	8.00	16.3	
4	1.502	6	0.749	0.44	0.441	12.05	18.86	60400	60260	94530	94310	1.40	8.00	17.5	
5	0.671	4	0.501	0.20	0.197	6.22	9.68	68570	69620	106790	108420	1.20	8.00	15.0	
6	0.672	4	0.501	0.20	0.197	6.19	9.68	68230	69270	106790	108420	1.20	8.00	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Mr Muhammad Afzaal (ME,NESPAK)

BEND TEST:

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

Sadaqat Ahmad,RE
Nespaq Lahore.(University Of Child Health Sciences Lahore)

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

Client Reference: 4598/13/SA/09/074

Dated: 18-09-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2883 (Page-1/1)

Dated: 18-09-2023

ASTM-A-615

Deformed Bar (Roshan Premier 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	10.81	16.38	54160	54410	82110	82490	1.10	8.0	13.8	
2	1.493	6	0.748	0.44	0.439	9.86	14.88	49410	49520	74600	74770	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Witnessed By: Mr Muhammad Afzaal (NESPAK)

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

Hasnain Sheikh

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

ES Consultant (Pvt) Ltd.(Const/Renovation Of Toilet Facilities in 3 Location in Distt DG Khan)

Client Reference: RE/TOL/PTEGP/ESC 04

SOM Lab

Ref: 2884 (Page-1/1)

Dated: 18-09-2023

Dated: 18-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.496	6	0.748	0.44	0.440	14.32	19.16	71790	71790	96060	96060	1.60	8.0	20.0	
2	1.490	6	0.747	0.44	0.438	14.22	19.22	71280	71610	96320	96750	1.50	8.0	18.8	
3	0.662	4	0.498	0.20	0.195	6.60	8.66	72730	74600	95550	98000	1.10	8.0	13.8	
4	0.669	4	0.501	0.20	0.197	6.60	8.69	72730	73840	95770	97230	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Hasnain Sheikh

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

ES Consultant (Pvt) Ltd.(Const Of Toilet Block at Lal Suhanra National Park Bahawalpur)

Client Reference: RE/TOL/PTEGP/ESC01

SOM Lab

Ref: 2885 (Page-1/1)

Dated: 22-08-2023

Dated: 18-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	0.672	4	0.501	0.20	0.197	6.49	9.02	71610	72700	99480	101000	1.30	8.0	16.3	
2	0.668	4	0.500	0.20	0.196	6.47	9.07	71380	72840	100050	102090	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

SOM Lab

Ref: 2886 (Page-1a/1)

Dated: 14-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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	1.490	6	0.747	0.44	0.438	14.29	19.39	71640	71960	97180	97630	1.40	8.0	17.5	371-S
2	1.487	6	0.746	0.44	0.437	14.24	19.27	71380	71870	96570	97230	1.50	8.0	18.8	372-S
3	1.494	6	0.748	0.44	0.439	14.19	19.34	71130	71290	96930	97150	1.40	8.0	17.5	373-S
4	1.490	6	0.747	0.44	0.438	14.14	19.75	70870	71190	98970	99420	1.50	8.0	18.8	374-S
5	1.485	6	0.745	0.44	0.436	14.44	19.59	72400	73070	98210	99110	1.50	8.0	18.8	375-S
6	1.487	6	0.746	0.44	0.437	13.56	19.27	67960	68430	96570	97230	1.50	8.0	18.8	376-S
7	1.492	6	0.747	0.44	0.438	13.58	18.91	68060	68370	94780	95220	1.50	8.0	18.8	377-S
8	1.495	6	0.748	0.44	0.439	12.97	18.76	65000	65140	94020	94230	1.40	8.0	17.5	378-S
9	1.489	6	0.747	0.44	0.438	14.14	18.86	70870	71190	94530	94960	1.30	8.0	16.3	379-S
10	1.498	6	0.748	0.44	0.440	14.06	18.83	70460	70460	94370	94370	5.00	8.0	62.5	380-S

BEND TEST:

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

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div), Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil

SOM Lab

Ref: 2886 (Page-1b/1)

Dated: 14-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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	1.494	6	0.748	0.44	0.439	13.68	19.29	68570	68730	96670	96890	1.40	8.0	17.5	381-S
2	1.494	6	0.748	0.44	0.439	13.46	19.24	67450	67600	96420	96640	1.50	8.0	18.8	382-S
3	1.478	6	0.743	0.44	0.434	13.73	19.24	68830	69780	96420	97750	1.50	8.0	18.8	383-S
4	1.499	6	0.749	0.44	0.441	12.95	18.62	64890	64750	93350	93140	1.60	8.0	20.0	384-S
5	1.497	6	0.748	0.44	0.440	14.53	19.39	72810	72810	97180	97180	1.40	8.0	17.5	385-S
6	1.462	6	0.740	0.44	0.430	14.09	19.29	70620	72260	96670	98920	1.30	8.0	16.3	386-S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

SOM Lab

Ref: 2887 (Page-1a/1)

Dated: 17-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Sheikhoo 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	1.479	6	0.744	0.44	0.435	14.24	19.16	71380	72200	96060	97160	1.50	8.0	18.8	387-S
2	1.483	6	0.745	0.44	0.436	14.09	19.27	70620	71260	96570	97460	1.50	8.0	18.8	388-S
3	1.459	6	0.739	0.44	0.429	14.07	19.06	70510	72320	95550	98000	1.60	8.0	20.0	389-S
4	1.481	6	0.744	0.44	0.435	13.99	19.06	70100	70910	95550	96650	1.50	8.0	18.8	390-S
5	1.475	6	0.743	0.44	0.433	14.14	19.16	70870	72020	96060	97610	1.50	8.0	18.8	391-S
6	1.486	6	0.746	0.44	0.437	14.29	19.24	71640	72130	96420	97080	1.50	8.0	18.8	392-S
7	1.486	6	0.746	0.44	0.437	13.78	19.24	69080	69560	96420	97080	1.60	8.0	20.0	393-S
8	1.475	6	0.743	0.44	0.433	14.27	19.24	71540	72690	96420	97980	1.40	8.0	17.5	394-S
9	1.475	6	0.743	0.44	0.433	13.78	19.29	69080	70200	96670	98240	1.40	8.0	17.5	395-S
10	1.489	6	0.747	0.44	0.438	15.41	19.64	77260	77610	98460	98910	1.50	8.0	18.8	396-S

BEND TEST:

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

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

SOM Lab

Ref: 2887 (Page-1b/1)

Dated: 17-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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	1.492	6	0.747	0.448	0.438	14.32	19.16	71790	72120	96060	96500	1.40	8.0	17.5	397-S
2	1.483	6	0.745	0.444	0.436	14.70	19.57	73680	74360	98100	99000	1.40	8.0	17.5	398-S
3	1.476	6	0.743	0.444	0.434	13.97	19.08	70000	70970	95650	96970	1.50	8.0	18.8	399-S
4	1.476	6	0.743	0.444	0.434	14.04	19.13	70360	71330	95910	97230	1.40	8.0	17.5	400-S
5	1.480	6	0.744	0.444	0.435	15.16	19.13	75980	76850	95910	97010	1.30	8.0	16.3	401-S
6	1.473	6	0.743	0.444	0.433	14.75	18.81	73940	75130	94270	95800	1.40	8.0	17.5	402-S
7	1.478	6	0.743	0.444	0.434	14.42	19.22	72300	73300	96320	97650	1.50	8.0	18.8	403-S
8	1.486	6	0.746	0.444	0.437	14.02	19.11	70260	70740	95800	96460	1.30	8.0	16.3	404-S
9	1.489	6	0.747	0.444	0.438	14.55	19.44	72910	73250	97440	97880	1.20	8.0	15.0	405-S
10	1.470	6	0.742	0.444	0.432	14.75	19.37	73940	75310	97080	98880	1.50	8.0	18.8	406-S

BEND TEST:

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

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

SOM Lab

Ref: 2887 (Page-1c/1)

Dated: 17-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Sheikhoo 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	1.485	6	0.745	0.44	0.436	14.14	19.44	70870	71520	97440	98330	1.40	8.0	17.5	407-S
2	1.488	6	0.746	0.44	0.437	14.14	19.42	70870	71360	97340	98010	1.50	8.0	18.8	408-S
3	1.485	6	0.745	0.44	0.436	14.42	19.57	72300	72960	98100	99000	1.40	8.0	17.5	409-S
4	1.479	6	0.744	0.44	0.435	14.12	19.57	70770	71580	98100	99230	1.40	8.0	17.5	410-S
5	1.488	6	0.746	0.44	0.437	14.22	19.11	71280	71770	95800	96460	1.60	8.0	20.0	411-S
6	1.491	6	0.747	0.44	0.438	14.55	19.27	72910	73250	96570	97010	1.50	8.0	18.8	412-S
7	1.489	6	0.747	0.44	0.438	14.42	19.29	72300	72630	96670	97110	1.40	8.0	17.5	413-S
8	1.482	6	0.745	0.44	0.436	14.55	19.90	72910	73580	99740	100650	1.60	8.0	20.0	414-S
9	1.481	6	0.744	0.44	0.435	14.09	19.90	70620	71430	99740	100880	1.70	8.0	21.3	415-S
10	1.483	6	0.745	0.44	0.436	14.09	19.90	70620	71260	99740	100650	1.30	8.0	16.3	416-S

BEND TEST:

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

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

SOM Lab

Ref: 2887 (Page-1d/1)

Dated: 17-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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	1.483	6	0.745	0.44	0.436	13.68	19.01	68570	69200	95290	96170	1.30	8.0	16.3	417-S
2	1.491	6	0.747	0.44	0.438	13.86	19.03	69490	69810	95400	95830	1.30	8.0	16.3	418-S
3	1.491	6	0.747	0.44	0.438	13.97	18.86	70000	70320	94530	94960	1.60	8.0	20.0	419-S
4	1.489	6	0.747	0.44	0.438	14.02	19.16	70260	70580	96060	96500	1.70	8.0	21.3	420-S
5	1.481	6	0.744	0.44	0.435	14.32	19.16	71790	72620	96060	97160	1.50	8.0	18.8	421-S
6	1.486	6	0.746	0.44	0.437	14.04	19.06	70360	70840	95550	96200	1.60	8.0	20.0	422-S
7	1.482	6	0.745	0.44	0.436	14.27	19.18	71540	72190	96160	97040	1.60	8.0	20.0	423-S
8	1.487	6	0.746	0.44	0.437	14.42	19.18	72300	72800	96160	96820	1.70	8.0	21.3	424-S
9	1.483	6	0.745	0.44	0.436	13.99	19.01	70100	70750	95290	96170	1.80	8.0	22.5	425-S
10	1.500	6	0.749	0.44	0.441	14.19	19.16	71130	70970	96060	95840	1.50	8.0	18.8	426-S

BEND TEST:

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

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

SOM Lab

Client Reference: Nil

Ref: 2887 (Page-1e/1)

Dated: 17-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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	1.490	6	0.747	0.44	0.438	14.17	19.18	71020	71350	96160	96600	1.30	8.0	16.3	427-S
2	1.498	6	0.748	0.44	0.440	14.27	19.27	71540	71540	96570	96570	1.30	8.0	16.3	428-S
3	1.499	6	0.749	0.44	0.441	14.09	19.27	70620	70460	96570	96350	1.40	8.0	17.5	429-S
4	1.490	6	0.747	0.44	0.438	14.14	19.24	70870	71190	96420	96860	1.50	8.0	18.8	430-S
5	1.489	6	0.747	0.44	0.438	14.14	19.34	70870	71190	96930	97370	1.20	8.0	15.0	431-S
6	1.485	6	0.745	0.44	0.436	14.32	19.36	71790	72450	97030	97920	1.10	8.0	13.8	432-S
7	1.490	6	0.747	0.44	0.438	14.42	19.34	72300	72630	96930	97370	1.40	8.0	17.5	433-S
8	1.479	6	0.744	0.44	0.435	14.78	19.08	74090	74940	95650	96750	1.60	8.0	20.0	434-S
9	1.485	6	0.745	0.44	0.436	14.17	18.93	71020	71680	94880	95760	1.50	8.0	18.8	435-S
10	1.488	6	0.746	0.44	0.437	14.44	19.18	72400	72900	96160	96820	1.60	8.0	20.0	436-S

BEND TEST:

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

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

SOM Lab

Ref: 2887 (Page-1f/1)

Dated: 17-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Sheikhoo 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	1.482	6	0.745	0.44	0.436	13.99	19.22	70100	70750	96320	97200	1.50	8.0	18.8	437-S
2	1.482	6	0.745	0.44	0.436	13.68	19.06	68570	69200	95550	96430	1.50	8.0	18.8	438-S
3	1.481	6	0.744	0.44	0.435	13.91	19.27	69750	70550	96570	97680	1.60	8.0	20.0	439-S
4	1.477	6	0.743	0.44	0.434	14.09	19.44	70620	71590	97440	98790	1.60	8.0	20.0	440-S
5	1.483	6	0.745	0.44	0.436	14.04	19.37	70360	71010	97080	97970	1.70	8.0	21.3	441-S
6	1.482	6	0.745	0.44	0.436	13.91	19.29	69750	70390	96670	97560	1.70	8.0	21.3	442-S
7	1.478	6	0.743	0.44	0.434	13.91	19.24	69750	70710	96420	97750	1.60	8.0	20.0	443-S
8	1.506	6	0.751	0.44	0.443	14.75	19.11	73940	73440	95800	95160	1.60	8.0	20.0	444-S
9	1.490	6	0.747	0.44	0.438	14.65	19.01	73430	73760	95290	95730	1.50	8.0	18.8	445-S
10	1.480	6	0.744	0.44	0.435	14.55	18.96	72910	73750	95040	96130	1.70	8.0	21.3	446-S

BEND TEST:

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

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

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

SOM Lab

Ref: 2887 (Page-1g/1)

Dated: 17-09-2023

Dated: 18-09-2023

Test: Tension Test Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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	1.48 2	6	0.74 5	0.4 4	0.43 6	13.99	19.22	70100	70750	96320	97200	1.5 0	8. 0	18. 8	447-S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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