

Intiaz Ahmad

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager, A.S. Enterprises, Engineers & Contractors, (Project: Style Textile Mill)

Client Reference: USD/ASE/10

Dated: 02-07-2019

SOM Lab Ref: CED/SOM/1038(Page-1/1)

Dated: 02-07-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	3.857	25	25.00	491	491	253.50	325.50	516	517	663	663	40.0	200	20.0	
2	3.822	25	24.90	491	487	259.00	320.20	528	533	652	658	37.5	200	18.8	
3	2.448	20	19.92	314	312	181.20	224.20	577	582	714	720	30.0	200	15.0	
4	2.445	20	19.91	314	311	163.50	210.20	520	526	669	675	32.5	200	16.3	
5	1.542	16	15.82	201	196	94.50	147.00	470	481	731	749	30.0	200	15.0	
6	1.550	16	15.86	201	198	94.20	147.70	469	477	735	748	35.0	200	17.5	
7	0.882	12	11.96	113	112	48.00	72.50	424	428	641	646	35.0	200	17.5	
8	0.898	12	12.07	113	114	50.50	75.20	447	442	665	658	35.0	200	17.5	
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BEND TEST:

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

Maj Adnan Khalid
®

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

By Dir MTL, Development Of Graveyard Sector - V, DHA Ph-VIII (M/s Arfco)

Client Reference: 408/241/E/623/576

Dated: 27-06-2019

SOM Lab Ref: CED/SOM/1047 (Page-1/1)

Dated: 02-07-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J - Bolt

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	4.046	25	25.61	491	515	176.00	277.20	359	342	565	539	52.5	200	26.3	
2	4.032	25	25.57	491	514	183.70	276.20	374	358	563	538	47.5	200	23.8	
3	3.970	25	25.38	491	506	175.20	270.70	357	347	551	536	45.0	200	22.5	
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BEND TEST:

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

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

Sub Divisional Officer
Building Sub Division No, 2, Gujrat

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 3777/ G

SOM Lab

Ref: 1035 (Page-1/1)

Dated: 27-06-2019

Dated: 02-07-2019

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	1.502	6	0.749	0.44	0.441	15.16	20.59	75980	75810	103210	102980	1.00	8.0	12.5	
2	0.633	4	0.487	0.20	0.186	5.66	7.41	62390	67090	81720	87870	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Ch Abdul Ghafoor

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Resident Engineer, PEPAC, W. W. C. Adjacent to Sundar Industrial Estate, Kasur (Package-R)

Client Reference: RE/PEPAC/WWC/87-00

SOM Lab

Ref: 1039(Page-1/1)

Dated: 01-07-2019

Dated: 02-07-2019

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	1.443	6	0.735	0.44	0.424	17.74	20.36	88910	92260	102040	105890	0.90	8.0	11.3	
2	1.433	6	0.732	0.44	0.421	16.21	19.47	81240	84910	97590	102000	1.10	8.0	13.8	
3	0.664	4	0.498	0.20	0.195	5.91	8.99	65200	66870	99150	101690	1.10	8.0	13.8	
4	0.673	4	0.502	0.20	0.198	6.01	9.28	66320	66990	102290	103330	1.20	8.0	15.0	
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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

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

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

Client Reference: 4042/13/FAM/Steel-022

SOM Lab
 Ref: 1040(Page-1/1)

Dated: 01-07-2019

Dated: 02-07-2019

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	0.672	4	0.501	0.20	0.197	6.14	9.38	67670	68700	103420	104990	1.00	8.0	12.5	
2	0.669	4	0.501	0.20	0.197	6.14	9.14	67670	68700	100830	102370	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
 Chief Resident Engineer, Package -I, NESPAK, (Pvt) Ltd. Lahore

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

Client Reference: 4042/13/FAM/Steel-028

SOM Lab
 Ref: 1045(Page-1/1)

Dated: 02-07-2019

Dated: 02-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Citty 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	0.656	4	0.496	0.20	0.193	5.88	9.23	64860	67210	101730	105420	1.30	8.0	16.3	
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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

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

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

Client Reference: 4042/13/FAM/Steel-032

SOM Lab
 Ref: 1046(Page-1/1)

Dated: 02-07-2019

Dated: 02-07-2019

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	0.665	4	0.498	0.20	0.195	5.15	7.10	56770	58220	78350	80360	1.60	8.0	20.0	
2	0.663	4	0.498	0.20	0.195	5.07	7.08	55870	57300	78130	80130	1.70	8.0	21.3	
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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

Test Performed By: Dr. S. Asad Ali Gillani

Hamid Ali
Resident Engineer,
NESPAK (Pvt) Ltd
M. Garh ~ D. G. Khan

Client Reference: 3949/HA/01/279

Dated: 25-06-2019

SOM Laboratory Reference: CED/SOM/1036(Page-1/1)

Dated: 02-07-2019

Test: Compressive Strength Tests

Sample Type: Cat Eyes

Test Specification: ASTM-D4280

Test Results

Sr. No.	Sample Type	Top Dimensions (mm)	Bottom Dimensions (mm)	Thickness (mm)	Inclination (Degree)	Compressive Load (Kg)
1	Cat Eyes Plastic Type (3-M)	74.5 x 45.0	101.5 x 88.5	15.5	31.82°	14679
1	Cat Eyes Plastic Type (3-M)	74.5 x 45.0	101.5 x 88.5	15.5	31.82°	14067
1	Cat Eyes Plastic Type (3-M)	74.5 x 45.0	101.5 x 88.5	15.5	31.82°	14363

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

Test Performed by: .S. Asad Ali Gellani

Nasir Ahmed Chishty
Chief Resident Engineer
Osmani & Co. (Pvt) Ltd
Swat Motorway Project,

Client Reference No.: 293/CRE/QATSMP/2019

Dated: 16-05-2019

SOM Lab Ref: CED/SOM/1042 (Page 1/1)

Dated: 02-07-2019

Test Type: Tensile Test

Sample Type: Nut Bolt (9-mm Diameter)

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	Remarks
1	Nut Bolt	9.0	19.0	299	Thread Failure

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

Test Performed By:Dr. .Dr. S. Asad Ali Gillani

Maj Adnan Khalid (R)

Dy Dir MTL,

Development of Graveyard, Sector-V,

DHA Ph -VIII - (M/S Arfco)

Client Reference: 408/241/E/623/576

Dated: 27-06-2019

Test: Tension Test

Guage Length: 200 mm

SOM Lab Ref: 1047 (Page-1/1)

Dated: 02-07-20197

Test Specification: ASTM-F-1554

Sample Type: J – Bolt (L-Type (25mm))

S.No.	Weight	Dia.		Area		Yield	Ultimate	Yield Stress		Ultimate. Stress		Elongation	Gauge Length	%age Elongation	Reduction of Area(%)
		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	4.046	25	25.61	491	515	176.00	277.20	359	342	565	539	52.5	200	26.3	50.6
2	4.032	25	25.57	491	514	183.70	276.20	374	358	563	538	47.5	200	23.8	47.7
3	3.970	25	25.38	491	506	175.20	270.70	357	347	551	536	45.0	200	22.5	52.5
Note:-											<p>Only Two Samples Received and Tested</p>				
<p>Note: Please always confirm the results of above report on web www.uet-civil.edu.pk</p>															

Test Performed By: Dr. S. Asad Ali Gillani

Maj Adnan Khalid (R)

Dy Dir MTL,

Development of Graveyard, Sector-V,

DHA Ph -VIII - (M/S Arfco)

Client Reference: 408/241/E/623/576

SOM Lab Ref: 1047 (Page-1/1)

Dated: 27-06-2019

Dated: 02-07-20197

Test: Tension Test

Test Specification: ASTM-F-1554

Guage Length: 200 mm

Sample Type: J – Bolt (L-Type (25mm))

S.No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ultimate. Stress	Elon gation	Gau ge	%ag e	ction of Area (%)
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	4.046	25	25.61	491	515	176.00	277.20	359	342	565	539	52.5	200	26.3	50.6
2	4.032	25	25.57	491	514	183.70	276.20	374	358	563	538	47.5	200	23.8	47.7
3	3.970	25	25.38	491	506	175.20	270.70	357	347	551	536	45.0	200	22.5	52.5
												<p>Note:-</p> <p>Only Two Samples</p> <p>Received and Tested</p>			
<p>Note: Please always confirm the results of above report on web www.uet-civil.edu.pk</p>															