

Summy
Yousaf

Test Performed By:

Dr. /Engr.

Dr Rashid
Hameed

Building Standards Material Testing, Quality Control & Geotechnical Services, Lahore

Client Reference: GT/LTR/210618-060

Dated: 18-06-2021

SOM Lab Ref: CED/SOM/4502 (Page-1/1)

Dated: 18-06-2021

Test: Tension 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	0.995	13	12.72	133	127	57.20	88.50	431	451	667	697	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Umair Maqsood
Sub Divisional Officer, Building Sub Division, Assembly, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 416-

Dated: 03-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4499(Page-1/1)

Dated: 18-06-2021

ASTM-A-615

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	2.600	8	0.986	0.79	0.764	24.49	32.74	68360	70680	91410	94520	1.20	8.0	15.0	
2	2.587	8	0.984	0.79	0.760	24.01	32.36	67020	69670	90360	93920	1.40	8.0	17.5	
3	1.458	6	0.738	0.44	0.428	13.00	17.79	65150	66970	89160	91660	1.50	8.0	18.8	
4	1.468	6	0.741	0.44	0.431	14.80	19.34	74190	75740	96930	98950	1.40	8.0	17.5	
5	0.674	4	0.502	0.20	0.198	6.19	8.23	68230	68920	90720	91630	1.50	8.0	18.8	
6	0.675	4	0.502	0.20	0.198	6.17	8.33	68010	68700	91840	92770	1.30	8.0	16.3	
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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

Director Project

Innovative ® Construction Company, 533-B, Housing Society phase II, Lahore

Test Performed By:

Dr. /Engr.

m. Irfan Ul Hassan

Client Reference: ICI/ISM/GJT/01/01

Dated: 18-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4500(Page-1/1)

Dated: 18-06-2021

ASTM-A-615

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	1.051	5	0.627	0.31	0.309	9.55	13.73	67960	68180	97690	98000	1.30	8.0	16.3	
2	1.048	5	0.626	0.31	0.308	9.27	13.30	65920	66350	94640	95260	1.30	8.0	16.3	
3	0.665	4	0.498	0.20	0.195	6.44	8.48	71040	72870	93530	95920	1.20	8.0	15.0	
4	0.669	4	0.501	0.20	0.197	6.60	8.56	72730	73840	94420	95860	1.20	8.0	15.0	
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BEND TEST:

# 5	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

Khalid Mahmood

Resident Engineer, NESPAK JV Turk Pak Resident Const. Supervision for Establishment of D. G. Khan (M/s ZKB)

Test Performed By:

Dr. /Engr. Nauman Khurram

Client Reference: 4161/RE/SFMKB/DGK/346

SOM Lab Ref: 4501(Page-1/2)

Dated: 28-005-2021

Dated: 18-06-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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	2.599	8	0.986	0.79	0.764	24.72	33.03	69010	71360	92210	95340	1.30	8.0	16.3	
2	2.597	8	0.986	0.79	0.763	25.48	33.71	71150	73660	94110	97440	1.20	8.0	15.0	
3	1.452	6	0.737	0.44	0.427	12.84	18.11	64380	66340	90800	93560	1.30	8.0	16.3	
4	1.468	6	0.741	0.44	0.431	12.59	18.06	63100	64420	90540	92430	1.50	8.0	18.8	
5	0.664	4	0.498	0.20	0.195	6.83	8.87	75320	77250	97800	100300	1.30	8.0	16.3	
6	0.660	4	0.497	0.20	0.194	6.73	8.69	74190	76490	95770	98740	1.30	8.0	16.3	
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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

Khalid Mahmood

Resident Engineer, NESPAK JV Turk Pak Resident Const. Supervision for Establishment of D. G. Khan (M/s ZKB)

Test Performed By:

Dr. /Engr. Nauman Khurram

Client Reference: 4161/RE/SFMKB/DGK/368

SOM Lab Ref: 4501(Page-2/2)

Dated: 15-06-2021

Dated: 18-06-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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	2.586	8	0.984	0.79	0.760	21.92	32.42	61190	63600	90500	94070	1.40	8.0	17.5	
2	2.582	8	0.983	0.79	0.759	21.61	32.57	60330	62800	90920	94640	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Syed Mohsin Ali

Resident Engineer, QA/QC, Department, Bahria Town, (Pvt) Ltd Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: QA/QC-Steel-2356

Dated: 15-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4505(Page-1/1)

Dated: 18-06-2021

ASTM-A-615

Deformed Bar(F F
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	0.657	4	0.496	0.20	0.193	6.27	8.21	69130	71640	90490	93770	1.20	8.0	15.0	
2	0.654	4	0.494	0.20	0.192	6.24	8.26	68800	71660	91050	94850	1.10	8.0	13.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Brig Saeed Ahmed Malik SI(M). ©
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Rizwean Azam

Client Reference: 4084/BSAM/104/216

SOM Lab

Ref: 4506(Page-1/1)

Dated: 29-06-2021

Dated: 18-06-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615

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	0.594	4	0.472	0.20	0.175	6.22	7.56	68570	78370	83410	95320	1.00	8.0	12.5	
2	0.595	4	0.472	0.20	0.175	6.19	7.54	68230	77980	83180	95070	0.90	8.0	11.3	
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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

Project Director - IV
LDA, Lahore

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

Client Reference: PD-IV/LDA/14
Dated: 17-06-2021
Test: Tension Test & Bend Test
Guage Length: 8 inch

SOM Lab 4507(Page-1/1)
Ref: 1/1
Dated: 18-06-2021
ASTM-A-615
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	2.678	8	1.001	0.79	0.787	25.56	35.73	71350	71620	99750	100130	1.30	8.0	16.3	
2	2.657	8	0.997	0.79	0.781	25.66	35.90	71630	72460	100230	101380	1.40	8.0	17.5	
3	1.486	6	0.746	0.44	0.437	12.71	17.94	63720	64160	89930	90550	1.40	8.0	17.5	
4	1.486	6	0.746	0.44	0.437	12.97	18.11	65000	65440	90800	91420	1.40	8.0	17.5	
5	0.669	4	0.501	0.20	0.197	6.07	8.58	66890	67900	94650	96090	1.20	8.0	15.0	
6	0.662	4	0.498	0.20	0.195	6.00	8.58	66210	67910	94650	97080	1.30	8.0	16.3	
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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. Irfan Ali
 Manager Project, Ittefaq Construction Services, Lahore

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

Client Reference: ICS/H.O/B.T.P/50

SOM Lab

Ref: 4508(Page-1/1)

Dated: 15-06-2021

Dated: 18-06-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615

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	2.602	8	0.987	0.79	0.765	21.41	34.86	59760	61720	97330	100510	1.30	8.0	16.3	
2	2.615	8	0.989	0.79	0.768	21.41	35.02	59760	61480	97750	100550	1.40	8.0	17.5	
3	1.461	6	0.739	0.44	0.429	14.78	19.13	74090	75990	95910	98370	1.30	8.0	16.3	
4	1.457	6	0.738	0.44	0.428	15.09	19.22	75620	77740	96320	99020	1.00	8.0	12.5	
5	0.652	4	0.494	0.20	0.192	5.91	8.74	65200	67920	96340	100350	1.20	8.0	15.0	
6	0.651	4	0.493	0.20	0.191	5.93	8.62	65420	68510	95100	99580	1.00	8.0	12.5	
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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

Abid Rauf
Resident Engineer, NESPAK (Pvt) Ltd. Faisalabad

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 3872/RAP/103/AR/01/89

Dated: 01-06-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4509 (Page-2/2)

Dated: 18-06-2021

ASTM-A-615

Deformed Bar (Model 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	2.666	8	0.998	0.79	0.783	20.10	30.63	56120	56620	85520	86280	1.50	8.0	18.8	
2	2.598	8	0.986	0.79	0.763	20.03	30.65	55920	57900	85570	88600	1.40	8.0	17.5	
3	1.496	6	0.748	0.44	0.440	10.75	16.00	53910	53910	80220	80220	1.80	8.0	22.5	
4	1.503	6	0.750	0.44	0.442	10.70	16.02	53650	53410	80320	79960	1.70	8.0	21.3	
5	0.612	4	0.479	0.20	0.180	4.03	5.73	44400	49340	63180	70200	1.60	8.0	20.0	
6	0.612	4	0.479	0.20	0.180	4.05	5.81	44630	49590	64080	71190	1.60	8.0	20.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Abid Rauf
Resident Engineer, NESPAK (Pvt) Ltd. Faisalabad

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

Client Reference: 3872/RAP/103/AR/01/108

SOM Lab

Ref: 4509 (Page-1/2)

Dated: 16-06-2021

Dated: 18-06-2021

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	2.652	8	0.996	0.79	0.779	19.37	28.77	54070	54840	80310	81440	1.60	8.0	20.0	
2	2.625	8	0.991	0.79	0.771	19.42	28.80	54220	55550	80400	82380	1.90	8.0	23.8	
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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

Construction Manager
NESPAK, (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 3976/13/MHK/01/277

Dated: 18-06-2021

SOM Lab

Ref: 4510(Page-1/1)

Dated: 18-06-2021

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	1.436	6	0.733	0.44	0.422	15.85	19.49	79450	82840	97690	101860	1.10	8.0	13.8	
2	1.429	6	0.731	0.44	0.420	15.31	19.44	76750	80400	97440	102080	1.20	8.0	15.0	
3	1.453	6	0.737	0.44	0.427	16.02	19.90	80320	82770	99740	102770	1.20	8.0	15.0	
4	1.448	6	0.736	0.44	0.426	15.21	19.18	76240	78740	96160	99320	1.20	8.0	15.0	
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BEND TEST:

# 6	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	
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 6	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