

Test Performed by: .S. Asad Ali Gillani

PAVRON
Resident Engineer
MKTG Bajaur.

(Improvement/Up Gradation of Road Mohmand Ghat-Khar-Timergara (Bajaur)-TorGhundai-Timaergara Including Existing/New By-Passes)

Client Reference No.: RE/TDP/2024/993

Dated: 27-04-2024

SOM Lab Ref: CED/SOM/4047 (Page 1/1)

Dated: 02-05-2024

Test Type: Hardness Test

Sample Type: Wedges & Wedges Block

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: C)

Hardness Test Results

Sr #	Sample Type	Hardness Avg
1	Wedges Block	HR – 55.6 – C
2	Wedges	HR – 60.0 – C
3	Wedges	HR – 59.5 – C
4	Wedges	HR – 58.83 – C
5	Wedges	HR – 61.0 – C
6	Wedges	HR – 60.33 – C

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

Engr.Ejaz Ali Bukhari,RE

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

ACC Site Office KPDI.(Const Of Kot Pindi Das Interchange On Lahore-Islamabad Motorway)

Client Reference: KPD/QAI/RE/23/107

Dated: 02-05-2024

SOM Lab Ref: CED/SOM/4046(Page-1/1)

Dated: 02-05-2024

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	2.521	20	20.22	314	321	140.70	225.00	448	439	716	701	37.5	200	18.8	
2	2.484	20	20.07	314	316	137.20	221.50	437	434	705	701	32.5	200	16.3	
3	1.589	16	16.05	201	202	92.50	146.70	460	458	730	725	32.5	200	16.3	
4	1.587	16	16.04	201	202	93.70	148.00	466	464	736	733	35.0	200	17.5	
5	0.917	12	12.19	113	117	49.20	75.00	435	422	663	643	32.5	200	16.3	
6	0.912	12	12.16	113	116	49.50	75.20	438	427	665	648	30.0	200	15.0	
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BEND TEST:

20mm	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

M/S Ahmed Square
 Plot No. 27-31, Pine Avenu Road, Lahore

Test Performed By: Dr. /Engr. Nauman Khaurram

Client Reference: Nil
 Dated: 02-05-2024

SOM Lab
 Ref: 4043 (Page-1/1)
 Dated: 02-05-2024

Test: Tension Test Test
 Gauge Length: 8 inch

Test Specification: 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	2.595	8	0.986	0.79	0.763	25.99	32.95	72570	75140	91980	95230	1.20	8.0	15.0	FF
2	2.671	8	1.000	0.79	0.785	22.32	35.24	62330	62720	98380	99010	1.40	8.0	17.5	Aziz
3	1.490	6	0.747	0.44	0.438	12.76	20.20	63970	64270	101270	101730	1.40	8.0	17.5	Aziz
4	1.498	6	0.748	0.44	0.440	13.53	18.78	67810	67810	94120	94120	1.30	8.0	16.3	FF
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BEND TEST:

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

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

Engr. Naveed Sadiq
 RE Orbit Developers.Lahore.(The Springs Atrium,Gulberg Lahore)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 4044 (Page-1/1)

Dated: 02-05-2024

Dated: 02-05-2024

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	1.459	6	0.739	0.44	0.429	13.58	19.78	68060	69810	99130	101670	1.30	8.0	16.3	
2	1.478	6	0.743	0.44	0.434	13.30	19.54	66680	67600	97950	99300	1.10	8.0	13.8	
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Witnessed By: Muzzamil Hussain, Engr Mohsin Ali

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

Allied Bank

Test Performed By:

Dr. /Engr.

Nauman Khurram

Unit Head PMO ABL-UML-P#199-200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Client Reference: ABL-UML-QAQC;79

SOM Lab

Ref:

4045 (Page-1/1)

Dated: 02-05-2024

Dated:

02-05-2024

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	2.627	8	0.991	0.79	0.772	26.63	35.85	74330	76070	100090	102420	1.20	8.0	15.0	
2	2.605	8	0.988	0.79	0.766	24.99	34.22	69780	71970	95530	98530	1.40	8.0	17.5	
3	1.497	6	0.748	0.44	0.440	15.11	19.54	75720	75720	97950	97950	1.20	8.0	15.0	
4	1.512	6	0.752	0.44	0.444	15.24	19.69	76390	75700	98720	97830	1.10	8.0	13.8	
5	1.046	5	0.625	0.31	0.307	10.88	14.32	77380	78140	101890	102890	1.30	8.0	16.3	
6	1.035	5	0.622	0.31	0.304	10.72	14.19	76300	77800	100950	102940	1.40	8.0	17.5	
7	0.668	4	0.500	0.20	0.196	6.75	8.89	74420	75940	98020	100020	1.10	8.0	13.8	
8	0.672	4	0.501	0.20	0.197	6.85	8.97	75540	76690	98920	100430	1.10	8.0	13.8	
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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	
# 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

IBNA AL AZIZ

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

New Garden Town Lahore.(Project Sapphire Residence 84-Arif Jan Road Cantt Laore)

Client Reference: IAA-131254

SOM Lab

Ref:

4048 (Page-1/1)

Dated: 02-05-2024

Dated:

02-05-2024

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	2.644	8	0.995	0.79	0.777	24.06	35.88	67160	68290	100170	101850	1.40	8.0	17.5	
2	1.494	6	0.748	0.44	0.439	14.58	19.93	73070	73230	99890	100120	1.30	8.0	16.3	
3	1.044	5	0.625	0.31	0.307	10.37	14.98	73760	74480	106610	107650	1.20	8.0	15.0	
4	0.664	4	0.498	0.20	0.195	7.46	9.84	82290	84390	108480	111260	1.00	8.0	12.5	
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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

Faisal Ali, PI

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

Ittefaq Construction Associates.(Const Of New Office Building at EGA-2 Gajumatta,Rohi Nala,Lhr)

Client Reference: Nil

SOM Lab

Ref: 4049 (Page-1/1)

Dated: 02-05-2024

Dated: 02-05-2024

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	2.627	8	0.991	0.79	0.772	24.13	34.81	67360	68930	97190	99450	1.40	8.0	17.5	
2	0.660	4	0.497	0.20	0.194	6.44	8.63	71040	73240	95210	98160	1.00	8.0	12.5	
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BEND TEST:

# 8	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

Procurement Manager
S.K FARMHOUSE Near Jhumra Flyover Faisalabad.

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

Client Reference: /001

SOM Lab

Ref: 4050 (Page-1/1)

Dated: 30-04-2024

Dated: 02-05-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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	2.637	8	0.993	0.79	0.775	26.73	34.81	74620	76060	97190	99070	1.40	8.0	17.5	
2	1.487	6	0.746	0.44	0.437	13.63	19.18	68320	68790	96160	96820	1.50	8.0	18.8	
3	0.659	4	0.497	0.20	0.194	6.49	8.46	71610	73820	93300	96190	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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 Tariq Assai
 GM Jafris and Steel (pvt) Ltd.(Const Of Al-Munawar Residential)

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

Client Reference: Js80/515

SOM Lab

Ref: 4051(Page-1/1)

Dated: 02-05-2024

Dated: 02-05-2024

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	1.456	6	0.738	0.44	0.428	13.25	18.42	66430	68290	92330	94920	1.50	8.0	18.8	
2	1.468	6	0.741	0.44	0.431	13.22	18.42	66270	67660	92330	94260	1.50	8.0	18.8	
3	1.483	6	0.745	0.44	0.436	15.67	19.95	78530	79260	99990	100910	1.50	8.0	18.8	
4	1.482	6	0.745	0.44	0.436	15.70	20.10	78690	79410	100760	101680	1.40	8.0	17.5	
5	1.038	5	0.623	0.31	0.305	9.48	13.63	67450	68550	96960	98550	1.50	8.0	18.8	
6	1.037	5	0.623	0.31	0.305	9.58	13.78	68170	69290	98050	99660	1.40	8.0	17.5	
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BEND TEST:

# 6	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	
# 5	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