Muhammad Hassan Khan **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

RE NESPAK. (Const Of Underpass At Ghulab Devi Hospital And Additional Lanes On Lahore Bridge)

Client Reference: 3772/103/GD/RE/05/243 **SOM Lab Ref:** 270 (Page-1/1)

Dated: 07-04-2022 **Dated:** 28-04-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Batala Premium)

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	2.748	8	1.014	0.79	0.808	25.99	36.82	72570	70950	102790	100500	1.30	8.0	16.3	
2	2.717	8	1.008	0.79	0.798	24.77	35.93	69160	68460	100320	99310	1.20	8.0	15.0	
3	1.498	6	0.748	0.44	0.440	13.99	18.91	70100	70100	94780	94780	1.30	8.0	16.3	
4	1.502	6	0.749	0.44	0.441	14.19	19.80	71130	70970	99230	99000	1.40	8.0	17.5	
5	0.648	4	0.492	0.20	0.190	6.78	8.23	74750	78690	90720	95490	1.20	8.0	15.0	
6	0.637	4	0.488	0.20	0.187	6.01	7.75	66320	70930	85430	91370	1.10	8.0	13.8	
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BEND TEST:

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

Note:-

Only Nine Samples Received and Tested

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

Shifa Developments Services. **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Senior Project Manager, Shifa National Hospital, Lahore Skp Road,Faisalabad)

Client Reference: SNHF/SDS/ST/02 **SOM Lab Ref:** 271 (Page-1/1)
Dated: 28-04-2022 **Dated:** 28-04-2022

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	2.641	8	0.994	0.79	0.776	23.92	33.13	66790	68000	92490	94160	1.30	8.0	16.3	Kamran
2	2.626	8	0.991	0.79	0.772	23.96	33.35	66880	68440	93120	95290	1.20	8.0	15.0	Kamran
3	2.683	8	1.002	0.79	0.788	22.63	36.14	63180	63340	100880	101140	1.20	8.0	15.0	SGI
4	2.688	8	1.003	0.79	0.790	22.80	36.41	63660	63660	101650	101650	1.30	8.0	16.3	SGI
5	1.503	6	0.750	0.44	0.442	13.07	18.34	65510	65210	91920	91510	1.20	8.0	15.0	Kamran
6	1.492	6	0.747	0.44	0.438	12.97	18.20	65000	65290	91210	91620	1.40	8.0	17.5	Kamran
7	1.437	6	0.733	0.44	0.422	12.33	20.08	61830	64460	100660	104950	1.40	8.0	17.5	SGI
8	1.430	6	0.731	0.44	0.420	12.44	20.34	62340	65310	101940	106790	1.30	8.0	16.3	SGI
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BEND TEST:

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

Only Twelve Samples Received and Tested

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

Sub Divisional officer,
BSD Fort Abbas.(Const. Of Police Station Fort Abbas ADP No 6006/2021-22)

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

Client Reference: 54
Dated: 01-04-2022

SOM Lab Ref: 272 (Page-1/1)
Dated: 28-04-2022

Test: Tension Test & Bend 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	1.688	6	0.795	0.44	0.496	19.59	22.78	98210	87120	114200	101310	1.10	8.0	13.8	
2	0.660	4	0.497	0.20	0.194	5.98	8.23	65990	68030	90720	93520	1.40	8.0	17.5	
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BEND TEST:

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

Note:-

Only Four Samples Received and Tested

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

Sub Divisional officer,
BSD Bahawalnagar.(Const. Of Circuit House At Distt Bahawalnager)

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

Client Reference: 496/BWN
Dated: 24-03-2022

SOM Lab Ref: 273 (Page-1/1)
Dated: 28-04-2022

Test: Tension Test & Bend 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	2.650	8	0.996	0.79	0.779	27.68	34.17	77270	78360	95390	96740	1.20	8.0	15.0	
2	1.690	6	0.795	0.44	0.497	19.18	22.68	96160	85130	113690	100650	1.20	8.0	15.0	
3	0.673	4	0.502	0.20	0.198	5.88	8.28	64860	65520	91280	92200	1.40	8.0	17.5	
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BEND TEST:

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

Note:-

Only Six 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

Muhammad Afzal
RE Kachhi Canal Remaining Works Consultants.KC-6B
(Construction Of Main Canal And Distribution System From RD 1193+000 to 1252+000)

Reference No.: KCB/RE-6B(2R)/35 Dated: 07-04-2022
SOM Lab Ref: CED/SOM/153 (Page-1/1) Dated: 13-04-2022

Test: Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

Sample Type: Elastomeric Bearing Pad (Rainbow)

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	**Sample Size (mm)**	**Ultimate Load (kN)**	**Tensile Strength (Mpa)**	**Tensile Strength (kg/cm^2)**	**Elongation at Break**(%)
1	6.7 x 2.2	0.25	16.96	172.94	500.0
2	6.7 x 2.1	0.26	18.47	188.33	520.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	**Sample Size (mm)**	**Ultimate Load (kN)**	**Tear Strength (N/mm)**
1	17.0 x 2.2	0.135	61.36
2	16.0 x 2.2	0.180	81.81

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	**Thickness of Sample (mm)**	**Final Thickness (mm)**	**Compression set (%)**
1	2.2	2.15	2.32

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	**Sample Type**	**Hardness (Shore A)**
1	Elastomeric Bearing Pad	61.66

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

Kamran Tahir Sandhu

ME DHA Multan.(Const.Of Cosmos,Frozen Music,Islamic Arch And Islamic Moon Monuments)

Client Reference: 701/92/P&D/DHA **Dated:** 28-04-2022

SOM Lab Ref: CED/SOM/274(Page-1/1) **Dated:** 28-04-2022

Test: Tension Test **Test Specification:** ASTM-F -1554

Sample Type: Anchor- Bolt (J-Shaped) **Gauge Length:** 200 mm

S.No.	Diameter	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	mm	mm^2	kN	kN	MPa	MPa	mm	mm	%	
1	20	314	239.20	241.70	761	769	25.0	200	12.5	39.88
2	20	314	237.20	241.50	755	769	17.5	200	8.8	36.74

Note:-

Only Two Samples Received and Tested

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