

Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Khalid Zaman,
Resident Engineer (ECSP)
Engineering Consultancy Services Punjab (Pvt) Ltd. Lahore
(Model Cattle Market Shahpur Kanjra, Lahore)(P-2)

Client Reference No.: ECSP/MCML/68

Dated: 18-02-2025

SOM Lab Ref: CED/SOM/876 (Page-1/2)

Dated: 04-03-2025

Test Type: Shear Test

Sample Type: Steel Plates

Shear Test Results

Sample No.	Steel plate Thickness	Sample Size	Area	Load (Ton)	Shear Stress (MPa)
1	25mm	7.2 x 7.5	54.0	1.395	253.42
2	20mm	6.6 x 6.9	45.54	1.582	340.78
3	12mm	7.3 x 7.2	52.56	1.675	312.62
4	8mm	6.8 x 6.6	44.88	1.252	273.66
5	6mm	7.0 x 6.0	42.0	1.351	315.55

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

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Client Reference No.: ECSP/MCML/68

Dated: 18-02-2025

SOM Lab Ref: CED/SOM/876 (Page-2/2)

Dated: 04-03-2025

Test Type: Shear Test

Sample Type: Steel Plates

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Thickness	Hardness avg
1	25mm	HR – 82.66-B
2	20mm	HR – 82.33- B
3	12mm	HR – 92.66-B
4	8mm	HR – 86.50-B
5	6mm	HR – 86.33-B

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

QAQC Manager Zameen Development.(Const. Of JADE Project by Zameen Development,Lahore)

Dr. /Engr. Asad Ali Gillani

SOM Lab

Ref: 877 (Page-1/1)

04-03-2025

Test Specification:

Def. Bar

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	in²	in²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.479	6	0.744	0.44	0.435	14.29	18.20	71640	72460	91210	92250	1.30	8.0	16.3	H #SJ-14
2	1.487	6	0.746	0.44	0.437	13.99	17.99	70100	70590	90180	90800	1.20	8.0	15.0	H #SJ-14
3	1.478	6	0.743	0.44	0.434	13.86	18.01	69490	70450	90290	91530	1.20	8.0	15.0	H #SJ-15
4	1.489	6	0.747	0.44	0.438	14.22	18.20	71280	71610	91210	91620	1.30	8.0	16.3	H #SJ-15
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BEND TEST:

# 6	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	

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

RE Nespak MCL Nishtar Zone,Lhr.(Rehb/Imp Of Streets,Sewerage/Drainage UC-195,196)

Nauman Khurram

SOM Lab

Ref: 878 (Page-1/1)

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar

<u>BEND TEST:</u>			
# 4	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			

# 4	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

Muhammad Saleem,ME

Test Performed By: Dr. /Engr. Nauman Khurram

NESPAK ADP WASA, Lahore.(Rainwater Management-Drainage Arrangement For Sore Point Lhr)

Client Reference: NESPAK/WASA/ADP/UGWT/IT/ME/001

Dated: 01-03-2025

SOM Lab

Ref: 879 (Page-1/1)

Dated: 04-03-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Markhor 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	in²	in²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.632	8	0.992	0.79	0.773	24.46	34.17	68300	69800	95390	97490	1.50	8.0	18.8	
2	2.628	8	0.991	0.79	0.772	24.69	34.27	68930	70530	95680	97910	1.50	8.0	18.8	
3	1.502	6	0.749	0.44	0.441	15.24	19.93	76390	76220	99890	99670	1.30	8.0	16.3	
4	1.538	6	0.759	0.44	0.452	15.92	20.41	79810	77690	102290	99580	1.30	8.0	16.3	
5	0.655	4	0.494	0.20	0.192	6.47	8.43	71380	74360	92960	96840	1.00	8.0	12.5	
6	0.664	4	0.498	0.20	0.195	6.68	8.82	73630	75520	97230	99730	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

PMCS Consultants.(R/Lake Filtration Plant To Water Works at Sufaid Tanki and Augmentation of W/Supply)

PMCS Consultants.(R/Lake Filtration Plant To Water Works at Sufaid Tanki and Augmentation of W/Supply)

SOM Lab
Ref: 880 (Page-1b/1)

Dated: 04-03-2025

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Faizan Steel)

<u>BEND TEST:</u>		
# 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		

Note:-

Only Nine Samples
Received and Tested

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

PMCS Consultants.(R/Lake Filtration Plant To Water Works at Sufaid Tanki and Augmentation of W/Supply)

SOM Lab

Ref: 880 (Page-1a/1)

Dated: 04-03-2025

Test Specification:	ASTM-A-615
Sample Type:	Deformed Bar (Pak Steel)

Sample Type:

<u>BEND TEST:</u>			
# 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		

# 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