

Project Engineer
N A Associates, Lahore Client: Pepsico International)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil
SOM Lab Ref: CED/SOM/1963(Page-1/1)

Dated: 27-12-2019

Dated: 27-12-2019

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	4.004	25	25.48	491	510	315.20	397.70	642	619	810	780	32.5	200	16.3	
2	2.173	20	18.78	314	277	156.20	213.00	497	565	678	770	30.0	200	15.0	
3	0.998	12	12.72	113	127	69.00	89.20	610	543	789	702	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
20mm	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

Sub Divisional Officer
Buildings Sub Division, Okara

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 535/SDO/OK
Dated: 26-12-2019
Test: Tension Test
Gauge Length: 8 inch

SOM Lab
Ref: 1969 (Page-1/1)
Dated: 27-12-2019
ASTM-A-615
Deformed Bar

Test Specification:
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	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.505	4	0.434	0.20	0.148	5.25	7.97	57890	78230	87910	118790	0.80	8.0	10.0	
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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

Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Waqas Anwar
Resident Engineer –I,
NESPAK (Pvt) Ltd. Lahore

Client Reference No.: 3772/AMP/103/MWA/04/55

Dated: 12-12-2019

SOM Lab Ref: CED/SOM/1964 (Page-1/1)

Dated: 27-12-2019

Test Type: Tensile Test & Slippage Test

Sample Type: J-Bolt

Tensile Test Results

Sample No.	Sample Type	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation (%)
1	J- Bolt (25.0 mm)	196.7	299.2	400.71	609.53	25.0

Slippage Test Results

Sample No.	Sample Type	Diameter of Bolt (mm)	Maximum Load Applied (kN)	Remarks
1	J – Bolt	25	247.72	Sample Breaks at this Load

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

Witness By: Javaid Masood, Mechanical Engg. NESPAK Lahore