

Bai Jinliang

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Dy Manager Powerchina SEPCO1(220KV Mirpur Khas Substion & Extension at Hala Rd Substation)

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Client Reference: ADB-200/2018/361

SOM Lab Ref:

Dated: 20-02-2023

Dated:

21-02-2023

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

MS 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.490	20	20.09	314	317	163.50	222.20	521	516	708	701	35.0	200	17.5	
2	2.495	20	20.12	314	318	160.50	218.70	511	505	696	689	37.5	200	18.8	
3	2.444	20	19.91	314	311	156.50	210.50	498	503	670	677	32.5	200	16.3	
4	2.482	20	20.06	314	316	163.20	213.00	520	517	678	674	32.5	200	16.3	
5	2.458	20	19.97	314	313	159.50	212.70	508	510	677	680	37.5	200	18.8	
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Witnessed By: H.Musheer Khan J.Geo (NESPAK) ,M.Waheed Sheikh Power China(SEPCO 1)

BEND TEST:

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

Aamir Shahzad Alvi
 PM High-Q Lahore.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

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

Client Reference: QC/HQ/CIVIL/70

Dated: 20-02-2023

SOM Lab Ref: CED/SOM/1791(Page-1/1)

Dated: 21-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S 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	2.427	20	19.84	314	309	151.20	221.70	481	490	706	718	35.0	200	17.5	
2	2.451	20	19.94	314	312	162.50	221.50	517	521	705	710	32.5	200	16.3	
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BEND TEST:

20mm	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

Muhammad Ahsan Ali,RE

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

Nespak Lahore.(Updradation/Rehb Of Infrastructure In Industrial Zone Ph-01,Part-A)

Client Reference: SA468/13/MAA/09/09

SOM Lab

Ref: 1790 (Page-1/1)

Dated: 20-02-2023

Dated: 21-02-2023

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	1.478	6	0.743	0.44	0.434	15.44	19.95	77410	78480	99990	101380	1.00	8.0	12.5	Mughal
2	1.477	6	0.743	0.44	0.434	15.60	20.10	78180	79260	100760	102150	1.10	8.0	13.8	Mughal
3	0.668	4	0.500	0.20	0.196	7.19	8.72	79250	80870	96110	98070	1.10	8.0	13.8	Mughal
4	0.670	4	0.501	0.20	0.197	7.44	8.94	82060	83310	98580	100080	1.10	8.0	13.8	Mughal
5	0.674	4	0.502	0.20	0.198	5.91	9.28	65200	65860	102290	103330	1.10	8.0	13.8	ZAK
6	0.670	4	0.501	0.20	0.197	6.22	9.58	68570	69620	105670	107270	1.20	8.0	15.0	ZAK
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 4	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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Sector C)

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

Client Reference: 111/15/AD/RS/Pkg-2A/1068

SOM Lab

Ref: 1793 (Page-1/1)

Dated: 16-02-2023

Dated: 21-02-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Nomee 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	1.514	6	0.753	0.44	0.445	16.64	20.92	83390	82450	104850	103670	1.00	8.0	12.5	
2	1.491	6	0.747	0.44	0.438	17.43	21.66	87370	87770	108580	109070	1.10	8.0	13.8	
3	0.602	4	0.475	0.20	0.177	5.68	8.10	62610	70750	89370	100980	1.40	8.0	17.5	
4	0.646	4	0.492	0.20	0.190	6.12	8.58	67450	71000	94650	99630	1.20	8.0	15.0	
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Witnessed By: Hafiz Danish Waqas LT,DHAG

BEND TEST:

# 6	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