Assad Hussain Jatoi,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

NESPAK CPEC Yarik Saggu D.I.Khan.(Dualization & Impro Of Existing N50 From Yarik To Saggu Rd)

Client Reference: CPEC/YS/RE/AHJ/84 **Dated:** 31-01-2024

SOM Lab Ref: CED/SOM/3694(Page-1/3) **Dated:** 21-02-2024

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

Sample Type: Deformed Bar (FF Steel) **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	5.053	29	28.64	661	644	335.00	455.20	507	521	689	707	32.5	200	16.3	
2	5.037	29	28.58	661	642	339.20	455.20	514	529	689	710	32.5	200	16.3	
3	3.939	25	25.28	491	502	223.70	330.70	456	446	674	659	40.0	200	20.0	
4	3.950	25	25.31	491	503	225.70	331.70	460	449	676	660	32.5	200	16.3	
5	2.224	20	18.99	314	283	142.50	196.00	454	504	624	692	32.5	200	16.3	
6	2.211	20	18.94	314	282	141.00	196.00	449	501	624	696	35.0	200	17.5	
7	1.576	16	15.99	201	201	100.00	139.20	497	499	692	694	32.5	200	16.3	
8	1.563	16	15.93	201	199	96.70	137.20	481	486	682	689	37.5	200	18.8	
9	0.998	12	12.73	113	127	69.00	93.00	610	543	822	732	37.5	200	18.8	
10	1.003	12	12.76	113	128	63.00	86.00	557	494	760	674	37.5	200	18.8	

BEND TEST:

29mm	Sample bend through 180 degrees Satisfactorily without any crack
25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Fifteen Samples Received and Tested

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

Assad Hussain Jatoi,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

NESPAK CPEC Yarik Saggu D.I.Khan.(Dualization & Impro Of Existing N50 From Yarik To Saggu Rd)

Client Reference: CPEC/YS/RE/AHJ/84 **Dated:** 31-01-2024

SOM Lab Ref: CED/SOM/3694(Page-2/3) **Dated:** 21-02-2024

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

Sample Type: Deformed Bar (Mughal Steel) **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	3.937	25	25.28	491	502	235.00	337.00	479	469	687	672	37.5	200	18.8	
2	3.928	25	25.24	491	500	252.00	336.50	513	504	686	673	35.0	200	17.5	
3	2.179	20	18.80	314	278	138.00	181.00	439	498	576	653	35.0	200	17.5	
4	2.185	20	18.83	314	278	138.50	181.50	441	498	578	652	37.5	200	18.8	
5	1.550	16	15.86	201	198	102.50	131.50	510	519	654	666	35.0	200	17.5	
6	1.547	16	15.84	201	197	102.50	131.20	510	521	653	666	32.5	200	16.3	
7	1.003	12	12.76	113	128	70.00	88.50	619	548	783	693	30.0	200	15.0	
8	0.977	12	12.59	113	124	64.00	82.70	566	515	731	665	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Assad Hussain Jatoi,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

NESPAK CPEC Yarik Saggu D.I.Khan.(Dualization & Impro Of Existing N50 From Yarik To Saggu Rd)

Client Reference: CPEC/YS/RE/AHJ/84 **Dated:** 31-01-2024

SOM Lab Ref: CED/SOM/3694(Page-3/3) **Dated:** 21-02-2024

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

Sample Type: Deformed Bar (Pakl Steel) **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	3.887	25	25.11	491	495	196.70	315.50	401	398	643	638	37.5	200	18.8	
2	3.866	25	25.04	491	492	196.20	312.50	400	399	637	635	35.0	200	17.5	
3	2.228	20	19.01	314	284	148.50	192.20	473	524	612	678	35.0	200	17.5	
4	2.229	20	19.01	314	284	146.50	191.20	466	516	609	674	37.5	200	18.8	
5	1.569	16	15.95	201	200	99.50	133.00	495	498	661	666	30.0	200	15.0	
6	1.572	16	15.97	201	200	99.20	132.70	493	496	660	663	30.0	200	15.0	
7	0.997	12	12.72	113	127	65.00	84.50	575	512	747	666	30.0	200	15.0	
8	1.002	12	12.75	113	128	68.20	88.50	603	535	783	694	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

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

RE NESPAK.(Dualization Of Rpad From Salam To Sardha Via Bhalwal Ajnala Road Distt Sargodha)

Client Reference: 4376/SMH/24/6011 **SOM Lab Ref:** 3686 (Page-1/1)

Dated: 12-02-2024 **Dated:** 21-02-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Kamran 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	2.592	8	0.985	0.79	0.762	23.90	34.73	66740	69190	96960	100520	1.60	8.0	20.0	
2	2.609	8	0.988	0.79	0.767	24.49	35.24	68360	70410	98380	101330	1.40	8.0	17.5	
3	1.466	6	0.741	0.44	0.431	13.02	19.16	65250	66610	96060	98070	1.40	8.0	17.5	
4	1.465	6	0.741	0.44	0.431	12.74	18.96	63870	65200	95040	97020	1.50	8.0	18.8	
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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

Note:-

Only Six Samples Received and Tested

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

Engineer Muhammad Irshad
Dy Dir Dev. DHA Gujranwala.(Family Park)(Villas Space)

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

Client Reference: 111/3/AD/Dev/ESAC-05/25
Dated: 20-02-2024

SOM Lab
Ref: 3687 (Page-1/2)
Dated: 21-02-2024

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	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.670	4	0.501	0.20	0.197	5.93	8.89	65420	66420	98020	99510	1.20	8.0	15.0	
2	0.671	4	0.501	0.20	0.197	5.83	8.46	64300	65280	93300	94720	1.20	8.0	15.0	
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BEND TEST:

# 4	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

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

Dy Dir Dev. DHA Gujranwala.(Family Park)(Villas Space,Sports Arena,Family Point Sec Comm)

SOM Lab

Client Reference: 111/3/DD/Dev/ESAC-05/24 **Ref:** 3687 (Page-2/2)

Dated: 20-02-2024 **Dated:** 21-02-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Kamran 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	1.471	6	0.742	0.44	0.432	13.00	18.73	65150	66350	93860	95600	1.60	8.0	20.0	
2	1.498	6	0.748	0.44	0.440	14.48	20.41	72560	72560	102290	102290	1.20	8.0	15.0	
3	0.645	4	0.492	0.20	0.190	6.52	8.63	71940	75730	95210	100220	1.00	8.0	12.5	
4	0.661	4	0.497	0.20	0.194	6.75	8.89	74420	76720	98020	101050	1.10	8.0	13.8	
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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 Six Samples Received and Tested

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

Punjab Small Industries Corporation

Test Performed By: **Dr. /Engr.** Nauman Khurram

Director (W&D) Lahore.(Estb of Handi Craft Development Centre Kamalia)

Client Reference: PSIC/W&D/471

Dated: 26-01-2024

SOM Lab Ref: 3688 (Page-1/1)

Dated: 21-02-2024

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	1.471	6	0.742	0.44	0.432	14.53	18.62	72810	74160	93350	95080	1.20	8.0	15.0	
2	1.464	6	0.740	0.44	0.430	14.48	18.55	72560	74240	92990	95160	1.30	8.0	16.3	
3	0.660	4	0.497	0.20	0.194	6.42	8.36	70820	73010	92180	95030	1.40	8.0	17.5	
4	0.657	4	0.496	0.20	0.193	6.37	8.26	70260	72810	91050	94350	1.30	8.0	16.3	
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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 Six Samples Received and Tested

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

Building Research Station **Test Performed By:** **Dr. /Engr.** Irfan Ul Hassan

Junior Research Officer-I C&W Deptt, Govt Of Punjab,Lhr.(Five Star Steel Industry Ltd Sheikhupura)

SOM Lab

Client Reference: 154-R/546 **Ref:** 3689 (Page-1/1)

Dated: 20-02-2024 **Dated:** 21-02-2024

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	2.631	8	0.992	0.79	0.773	22.94	36.21	64030	65440	101080	103310	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Muhammad Shabbir Sandhu,ME **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

NESPAK ,EPCM Consult Swl.(PICIIP)(Trunk Main Sewer Conduit Effluent P/Station & A/Works,Lot-03)

Client Reference: 3976/11/MS/SWL/Lot-03/01/851 **SOM Lab Ref:** 3690 (Page-1/2)

Dated: 19-02-2024 **Dated:** 21-02-2024

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	1.042	5	0.624	0.31	0.306	10.65	13.83	75790	76780	98410	99700	1.20	8.0	15.0	
2	1.045	5	0.625	0.31	0.307	10.35	13.48	73610	74330	95880	96810	1.20	8.0	15.0	
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BEND TEST:

# 5	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 Shabbir Sandhu,ME **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

NESPAK ,EPCM Consult Swl.(PICIIP)(Trunk Main Sewer Lines and Allied Works,Lot-02)

Client Reference: 3976/11/MS/SWL/Lot-02/01/852 **SOM Lab Ref:** 3690 (Page-2/2)

Dated: 19-02-2024 **Dated:** 21-02-2024

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	0.666	4	0.500	0.20	0.196	6.60	8.92	72730	74210	98360	100370	1.30	8.0	16.3	
2	0.668	4	0.500	0.20	0.196	6.52	8.82	71940	73410	97230	99220	1.20	8.0	15.0	
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BEND TEST:

# 4	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

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

Resident Engineer.(Const Of Student Hostels/Villas ITU Mian Campus at Barki Road Lahore)

Client Reference: ITU/OEW/24/077 **SOM Lab Ref:** 3691 (Page-1/1)

Dated: 16-02-2024 **Dated:** 21-02-2024

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	1.460	6	0.739	0.44	0.429	13.40	18.01	67190	68910	90290	92600	1.40	8.0	17.5	
2	1.459	6	0.739	0.44	0.429	13.17	18.03	66020	67710	90390	92710	1.20	8.0	15.0	
3	0.669	4	0.501	0.20	0.197	5.93	8.18	65420	66420	90150	91530	1.10	8.0	13.8	
4	0.671	4	0.501	0.20	0.197	6.34	8.58	69920	70990	94650	96090	1.00	8.0	12.5	
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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 Six Samples Received and Tested

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

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

Resident Engineer.(Const Of Student Hostels/Villas ITU Mian Campus at Barki Road Lahore)

SOM Lab

Client Reference: ITU/OEW/24/077-11 **Ref:** 3692 (Page-1/1)

Dated: 16-02-2024 **Dated:** 21-02-2024

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	1.485	6	0.745	0.44	0.436	12.33	19.72	61830	62390	98870	99780	1.30	8.0	16.3	
2	1.487	6	0.746	0.44	0.437	12.54	20.05	62850	63280	100500	101190	1.10	8.0	13.8	
3	0.650	4	0.493	0.20	0.191	5.61	8.51	61830	64740	93860	98290	1.10	8.0	13.8	
4	0.656	4	0.496	0.20	0.193	5.63	8.56	62050	64300	94420	97850	1.20	8.0	15.0	
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BEND TEST:

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Note:-

Only Six Samples Received and Tested

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

Resident Engineer.(Const Of Student Hostels/Villas ITU Mian Campus at Barki Road Lahore)

Client Reference: ITU/OEW/24/077-1 **SOM Lab Ref:** 3693 (Page-1/1)

Dated: 16-02-2024 **Dated:** 21-02-2024

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	1.495	6	0.748	0.44	0.439	13.43	21.17	67290	67450	106130	106370	1.20	8.0	15.0	
2	1.497	6	0.748	0.44	0.440	13.37	21.12	67040	67040	105870	105870	1.30	8.0	16.3	
3	0.658	4	0.496	0.20	0.193	5.88	8.77	64860	67210	96670	100180	1.40	8.0	17.5	
4	0.661	4	0.497	0.20	0.194	5.83	8.77	64300	66290	96670	99660	1.20	8.0	15.0	
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