STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer (JCP Wahga)
NESPAK
Expansion of Joint Check Post Wahga, Lahore.

Reference # CED/TFL **5724** (Dr. Usman Akmal) Dated: 26-09-2024
Reference of the request letter # 4749/031/YK/01/62 Dated: 23-09-2024

Tension Test Report (Page -1/1)

Date of Test 08-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3	0.376	0.11	0.111	3200	4800	64200	63570	96200	95400	1.10	13.8	Aziz Steel
2	0.375	3	0.375	0.11	0.110	3100	4700	62200	61940	94200	94000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

Witness by Sohail Sulehri (LT NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

Construction Manager
Barqaab Consulting Services (Private) Limited.
Procurement of Plant, Design, Supply, Installation, Testing and Commissioning of 500/220/132kV Lahore North Substation & Extension Works at 500/220/132kV Nokhar Substation Under ADB Laon-3677-Pak Second Power Transmission Enhancement Investment Program Trench-III.

Reference # CED/TFL **5779** (Dr. Asad Ali) Dated: 04-10-2024
Reference of the request letter # 500kV/SS/N-LHR/BQB/310 Dated: 24-09-2024

Tension Test Report (Page -1/1)

Date of Test 08-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3	0.376	0.11	0.111	3360	4740	67400	66660	95000	94100	1.20	15.0	Kamran Steel
2	0.379	3	0.377	0.11	0.111	3410	4810	68400	67500	96400	95200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

Witness by Sajaad HUssain (Sub Divisional Engineer. EHVI, NTDC) & M Farhan (Sr. Engr. (Civil), Barqaab)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Director Projects
Sheikhoo Sugar Mills (Steel Division)
Sheikhoo Steel
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **5783** (Dr. Usman Akmal) Dated: 07-10-2024
Reference of the request letter # Nil Dated: 06-10-2024

Tension Test Report (Page -1/1)

Date of Test 08-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.367	3	0.371	0.11	0.108	3400	4800	68200	69510	96200	98200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK
Renovation of Gaddafi Stadium Lahore Project.

Reference # CED/TFL **5784** (Dr. Usman Akmal) Dated: 07-10-2024
Reference of the request letter # RE/4521/04/MH/22 Dated: 07-10-2024

Tension Test Report (Page -1/1)

Date of Test 08-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.370	10	9.45	0.12	0.109	3900	5000	71650	79110	91858	101500	0.70	8.8	Mughal Steel
2	0.370	10	9.45	0.12	0.109	3900	5000	71650	79130	91858	101500	0.70	8.8	
3	4.149	32	31.65	1.25	1.219	38400	53600	67725	69410	94533	96900	1.50	18.8	
4	4.185	32	31.79	1.25	1.230	38200	53800	67373	68450	94886	96400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and two samples for bend test

Bend Test

10mm Dia Bar Bend Test Through 180º is Satisfactory

32mm Dia Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Project Manager
Jilani Poly Industries (Pvt) Ltd.
Construction of Jilani Poly-2 Trap Extension Sheikhupura.

Reference # CED/TFL **5785** (Dr. Usman Akmal) Dated: 07-10-2024
Reference of the request letter # JP-2/UET/2024/S-004 Dated: 07-10-2024

Tension Test Report (Page -1/1)

Date of Test 08-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.392	3	0.383	0.11	0.115	3500	5400	70200	66990	108200	103400	1.00	12.5	SJ Steel
2	0.373	3	0.374	0.11	0.110	3400	5000	68200	68320	100200	100500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer (JCP Wahga)
NESPAK
Expansion of Joint Check Post Wahga, Lahore.

Reference # CED/TFL **5786** (Dr. Usman Akmal) Dated: 07-10-2024
Reference of the request letter # 4749/031/YK/01/75 Dated: 07-10-2024

Tension Test Report (Page -1/1)

Date of Test 08-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.375	3	0.374	0.11	0.110	3400	5000	68200	68060	100200	100100	1.50	18.8	Aziz Steel
2	0.375	3	0.375	0.11	0.110	3100	5000	62200	62020	100200	100100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

CEO
M.R. Construction Company
Civil Works, Erection, Stringing, Testing & Commissioning of 220kV Double Circuit / Single Circuit Mangla-Ghakkar-KSK T/Line for its Rerouting / Upraising Between Exiting Tower No. 70 to 71.

Reference # CED/TFL **5788** (Dr. Asad Ali) Dated: 08-10-2024
Reference of the request letter # MRCC/XEN/EHV-I/NTDC/RWP/24013-17Dated: 07-10-2024

Tension Test Report (Page -1/1)

Date of Test 08-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.382	3	0.378	0.11	0.112	4400	5120	88200	86290	102600	100400	1.00	12.5	Amreli Steel
2	0.386	3	0.380	0.11	0.113	4380	5100	87800	85150	102200	99200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

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