To,
Mr. Hamid Javid (AE B&R)
GE (Air) Rafiqui
PAF Base Rafiqui (a. Rehabilitation of Secondary School, B-1, B-3, b. Rehabilitation Class Rooms Secondary School B-5, c. Rehabilitation of Class Rooms Alongwith Lavatory Block,

Reference # CED/TFL **7351** (Dr. Rizwan Riaz) Dated: 08-08-2025
Reference of the request letter # 6000-AU/16/E-6 Dated: 04-08-2025

Tension Test Report

(Page-1/2)

Date of Test 18-08-2025
Gauge Length 2 inches
Description Girder Strip Tensile and Bend Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	Girder	9.70 x 33.20	322.04	13530	19130	412.2	582.7	0.7	35.0	-
2	Girder	9.70 x 33.50	324.95	12490	18470	377.1	557.6	0.5	25.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test										

Bend Test
Girder Strip Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
Mr. Hamid Javid (AE B&R)
GE (Air) Rafiqui
PAF Base Rafiqui (a. Rehabilitation of Secondary School, B-1, B-3, b. Rehabilitation Class Rooms Secondary School B-5, c. Rehabilitation of Class Rooms Along with Lavatory Block, Library and Computer Lab (B-7, B-8)

Reference # CED/TFL **7351** (Dr. Rizwan Riaz) Dated: 08-08-2025
Reference of the request letter # 6000-AU/16/E-6 Dated: 04-08-2025

Weight &Size Test Report (Page – 2/2)

Date of Test 18-08-2025
Description Girder Unit Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Web Thickness	Height /Depth	Web Flange	Flange Thickness
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	(mm)
1	**Girder**	**8329**	**154.3**	**53.98**	**9.8**	**302.1**	**153.4**	**13.6**
-	-	-	-	-	-		-	-
-	-	-	-	-	-		-	-
-	-	-	-	-	-		-	-
-	-	-	-	-	-		-	-
-	-	-	-	-	-		-	-
-	-	-	-	-	-		-	-
-	-	-	-	-	-		-	-
Only one sample for test								
-	-	-	-	-	-	-	-	-

Test Performed and Verified by:

To,

Mr. Mehran Ali (Resident Engineer)
AZ Engineering Associates
Improvement of Road From Hafizabad to Gujrat via Head Khanki Along Lower Chenab Canal (L.C.C. Main) Length =45.00 KMS in Districts Hafizabad & Gujranwala (Section-1 K.M. No.0.00 ton 19.97 KM

Reference # CED/TFL **7356** (Dr. Rizwan Riaz) Dated: 11-08-2025
Reference of the request letter # AZEA/RE/HFZ/722 Dated: 21-07-2025

Tension Test Report (Page-1/1)

Date of Test 18-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.360**	**3**	**0.367**	**0.110**	**0.106**	**3010**	**4380**	**60309**	**62764**	**87759**	**91331**	**1.1**	**13.8**	-
2	**0.363**	**3**	**0.368**	**0.110**	**0.107**	**3010**	**4400**	**60309**	**62243**	**88160**	**90987**	**1.2**	**15.0**	-
3	**4.343**	**10**	**1.275**	**1.270**	**1.276**	**44200**	**58400**	**76706**	**76335**	**101349**	**100858**	**1.5**	**18.8**	-
4	**4.366**	**10**	**1.278**	**1.270**	**1.283**	**45400**	**58800**	**78789**	**77999**	**102043**	**101021**	**1.4**	**17.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 4 Samples for Tensile and 2 Samples for Bend test

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory
10 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

[

To,
Mr. Muhammad Yousaf Afridi (Resident Engineer PMCSC)
Minconsult SDN BHD JV Creative Engineering Consultants
KPK Cities Improvement Project OCB-KPCIP-CW-02: Procurment of Works for Imrovement / Construction of Water Suply System: LOT-3: Imrovment of Water Supply System with Scada in Kohat

Reference # CED/TFL **7363** (Dr. Rizwan Riaz) Dated: 12-08-2025
Reference of the request letter # KPCIP/PMCSC/CW-02/LOT-03/915 Dated: 12-08-2025

Tension Test Report

(Page-1/2)

Date of Test 18-08-2025
Gauge Length 2 inches
Description GI Pipe Strip Tensile Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	G.I Pipe	4.50 x 24.10	108.45	4050	5270	366.3	476.7	0.7	35.0	IIL Brand
2	G.I Pipe	4.40 x 24.50	107.80	4080	5350	371.3	486.9	0.7	35.0	IIL Brand
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,
Mr. Muhammad Yousaf (Resident Engineer PMCSC-KPCIP)
Minconsult SDN BHD JV Creative Engineering Consultants
KPK Cities Improvement Project OCB-KPCIP-CW-02: Procurment of Works for Imrovement / Construction of Water Suply System: LOT-3: Imrovment of Water Supply System with Scada in Kohat

Reference # CED/TFL **7363** (Dr. Rizwan Riaz) Dated: 12-08-2025
Reference of the request letter # KPCIP/PMCSC/CW-02/LOT-03/915 Dated: 12-08-2025

Weight &Size Test Report

Date of Test 18-08-2025
Description G.I Pipe Unit Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Dia	Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	
1	**G.I Pipe**	**1548**	**126.4**	**12.25**	**114.1**	**4.5**	**-**
2	**G.I Pipe**	**1521**	**124.1**	**12.26**	**114.4**	**4.7**	**-**
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Only two samples for test							
-	-	-	-	-	-	-	-

Test Performed and Verified by:

To,

Admin Manager
Malik Nawaz Javeed
Construction of Canal Walk
(Kamran Steel)

Reference # CED/TFL **7368** (Dr. Rizwan Riaz) Dated: 13-08-2025
Reference of the request letter # Nil Dated: 12-08-2025

Tension Test Report (Page-1/1)

Date of Test 18-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.364**	**3**	**0.369**	**0.110**	**0.107**	**34.50**	**52.70**	**70480**	**72476**	**107661**	**110709**	**1.0**	**12.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Ahsan Rasheed
Syed Brother (Pvt.) Ltd.
4 Kanal Rehman Shaheed Road Gujrat

Reference # CED/TFL **7369** (Dr. Rizwan Riaz) Dated: 13-08-2025
Reference of the request letter # Nil Dated: 12-08-2025

Tension Test Report (Page-1/1)

Date of Test 18-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.368	3	0.371	0.110	0.108	27.50	40.20	56180	57224	82125	83652	1.3	16.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Assistant Project Director
PMU-SBP (Faisalabad)
Establishment of Sports Complex at Tehsil Pirmahal District Toba Tek Singh, GS#265
(Pavillion, Gymnasium, Boundary Wall)

Reference # CED/TFL **7371** (Dr. Rizwan Riaz) Dated: 13-08-2025
Reference of the request letter # APD/PMU/SBP/TEST/1111 Dated: 11-08-2025

Tension Test Report (Page-1/1)

Date of Test 18-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.386**	**3**	**0.380**	**0.110**	**0.113**	**35.70**	**52.00**	**72932**	**70745**	**106231**	**103046**	**1.1**	**13.8**	-
2	**0.381**	**3**	**0.377**	**0.110**	**0.112**	**35.50**	**52.00**	**72523**	**71350**	**106231**	**104512**	**1.2**	**15.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Engr. Ch. Liaqat Ali (Resident Engineer)
G3 Engineering Consultants (Pvt.) Ltd.
Consultancy Services for Rsident Construction Supervision for Construction of GOR, Near DHA Phase-IX, Lahore (Kamran Steel)

Reference # CED/TFL **7373-5** (Dr. Rizwan Riaz) Dated: 15-08-2025
Reference of the request letter # G3/0340/1058 Dated: 07-08-2025

Tension Test Report (Page-1/1)

Date of Test 18-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.404**	**3**	**0.389**	**0.110**	**0.119**	**37.70**	**51.00**	**77017**	**71336**	**104188**	**96503**	**1.1**	**13.8**	-
2	**0.407**	**3**	**0.390**	**0.110**	**0.12**	**38.20**	**51.70**	**78039**	**71787**	**105618**	**97157**	**1.1**	**13.8**	-
3	**0.404**	**3**	**0.389**	**0.110**	**0.119**	**36.2**	**50**	**73953**	**68498**	**102145**	**94611**	**1.2**	**15.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 3 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Riaz Sons & Company
Construction of Bridge and Drain at TNB
(Kamran Steel)

Reference # CED/TFL **7374** (Dr. Rizwan Riaz) Dated: 15-08-2025
Reference of the request letter # NLC Thokar Dated: 15-08-2025

Tension Test Report (Page-1/1)

Date of Test 18-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.380**	**3**	**0.377**	**0.110**	**0.112**	**3520**	**4660**	**70528**	**69413**	**93369**	**91893**	**1.1**	**13.8**	-
2	**0.391**	**3**	**0.383**	**0.110**	**0.115**	**5250**	**6370**	**105191**	**100661**	**127632**	**122135**	**0.7**	**8.8**	-
3	**4.309**	**10**	**1.270**	**1.270**	**1.266**	**34800**	**50400**	**60393**	**60571**	**87466**	**87724**	**1.5**	**18.8**	-
4	**4.203**	**10**	**1.254**	**1.270**	**1.235**	**33200**	**50000**	**57616**	**59241**	**86772**	**89219**	**1.7**	**21.3**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 4 Samples for Tensile and 2 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory
10 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

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

Reference # CED/TFL **7376** (Dr. Rizwan Riaz) Dated: 15-08-2025
Reference of the request letter # Nil Dated: 12-08-2025

Tension Test Report (Page-1/1)

Date of Test 18-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (mm)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.409**	**10**	**0.391**	**0.120**	**0.12**	**41.50**	**54.00**	**77715**	**77683**	**101124**	**101081**	**0.9**	**11.3**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test														

Bend Test
10mm Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

District Engineer Chitral,
PATRIP Project SRSP, Chitral
Construction of Patai and Ursoon Bridges in UC Ashrait Citral (PAK-SRSP-CHI-019)

Reference # CED/TFL **7379** (Dr. Rizwan Riaz) Dated: 18-08-2025
Reference of the request letter # Nil Dated: 15-08-2025

Tension Test Report (Page – 1/1)

Date of Test 18-08-2025
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight			Breaking Load	Remarks / Coil No.
	(mm)	Weight (g)	Length (cm)	(kg/m)	(kg)	
1	**32 (6x36)**	**4315**	**99.5**	**4.34**	**61800**	**-**
2	**32 (6x36)**	**4455**	**102.2**	**4.36**	**60800**	**-**
3	**32 (6x36)**	**4325**	**99.4**	**4.35**	**54400**	**-**
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only three samples for test						
-	-	-			-	-

Test Performed and Verified by:

To,

Syed Bilal Ghazi (Chief Material Specialist)
Nespak (Pvt.) Ltd.
Consultancy Services for Construction of Rathoa-Haryam Bridge, MirpurAJK
Witness by: Syed Bilal Ghazi (Chief Material Specialist, NEspak)

Reference # CED/TFL **7380** (Dr. Rizwan Riaz) Dated: 18-08-2025
Reference of the request letter # 3366/03/CRM/01/181 Dated: 17-08-2025

Tension Test Report (Page -1/2)

Date of Test 18-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	**15.24 (0.6")**	**1102.0**	**1112.0**	**24500**	**240.35**	**27200**	**266.83**	**204**	**>3.50**	**-**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only one sample for test										

Note:
1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

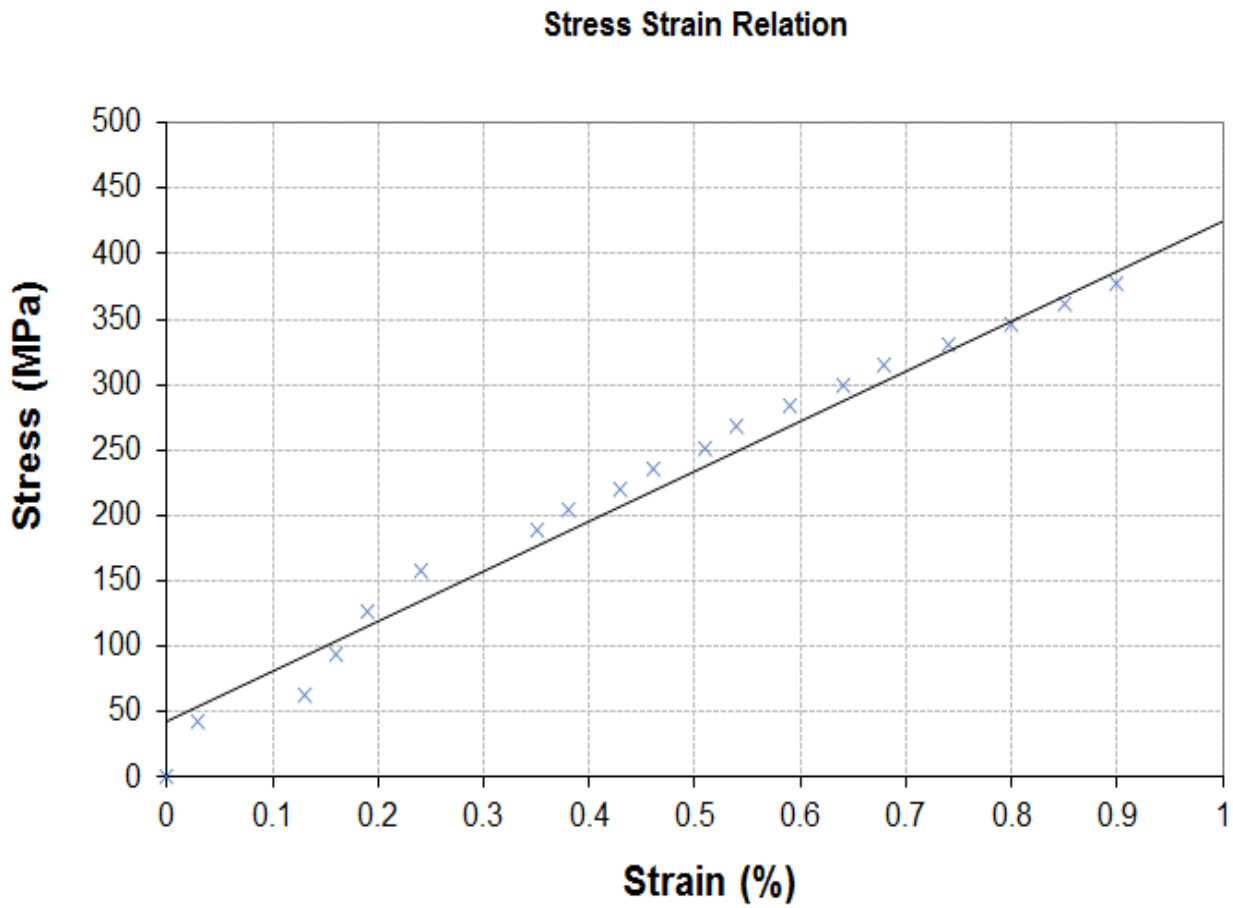
Test Performed and Verified by:

To,

Syed Bilal Ghazi (Chief Material Specialist)
Nespak (Pvt.) Ltd.
Consultancy Services for Construction of Rathoa-Haryam Bridge, MirpurAJK

Reference # CED/TFL **7380** (Dr. Rizwan Riaz) Dated: 18-08-2025
Reference of the request letter # 3366/03/CRM/01/181 Dated: 17-08-2025

Graph (Page – 2/2)



Test Performed and Verified by: