

To,

STRUCTURAL ENGINEERING DIVISION

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

Project Manager Imperium Developers Construction of Sixty6 at Gulberg-III, Lahore

Reference # CED/TFL <u>4288 (Dr. Asad Ali)</u> Reference of the request letter # IMP/66/04/108 Dated: 04-12-2023 Dated: 02-12-2023

Tension Test Report (Page -1/1)

Date of Test Gauge length Description 05-12-2023 8 inches

Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	longation	emarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.377	3	0.376	0.11	0.111	3540	5250	71000	70430	105200	104500	1.10	13.8	
2	0.369	3	0.372	0.11	0.108	3470	5170	69600	70540	103600	105100	1.10	13.8	
-	-	-	-	I	-	-	-	-	-	-	-	-	-	
-	-	-	-	I	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		r	N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1		
	Bend Test													
#3	#3 Bar Bend Test Through 180° is Satisfactory													

Witness by M Husnain Imran (Site Engr. Imperium Developers)

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

M/S Pakistan Wire Industries (Pvt) Limited Karachi (Peoples Steel Mills Ltd.)

Reference # CED/TFL <u>4293 (Dr. M Rizwan Riaz)</u> Reference of the request letter # WRD/010/LAB021 Dated: 04-12-2023 Dated: 04-12-2023

Tension Test Report (Page – 1/1)

Date of Test Description

05-12-2023 Steel Wire Rope (IWRC Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	ırks / Coil No.
	(mm)	(kg/m)	(kg)	Rema
1	12	0.59	6320	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
		Only one sample for Test		

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires UET Lahore, Pakistan.

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Ref: CED/TFL/11/4297, 4299

Dated: 04-12-2023

Dated: 05-12-2023

То

Resident Engineer Diamer Basha Consultants Group (DBCG) NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv Diamer Basha Dam Project.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4297) (Page -1/4)

Reference to your Letter No. DBCG/Lab/PF JV/2023/061, dated: 02/12/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2112, Gauge No. 1587) as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	60 (MPa)
Calibrated Range :	Zero -	50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (kg)	19400	38600	57800	77600	96600	115600	134400	154000	173000	192800
Calibrated Pressure (Mpa)	5	10	15	20	25	30	35	40	45	50



I/C Testing Laboratoires UET Lahore, Pakistan.

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Ref: CED/TFL/11/4297, 4299

Dated: 04-12-2023

Dated: 05-12-2023

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Resident Engineer Diamer Basha Consultants Group (DBCG) NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv Diamer Basha Dam Project.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4297) (Page -2/4)

Reference to your Letter No. DBCG/Lab/PF JV/2023/061, dated: 02/12/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2112, Gauge No. 1577) as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	60 (MPa)
Calibrated Range :	Zero -	50 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (kg)	19200	38600	57400	76600	96200	115200	134000	153400	172400	192400
Calibrated Pressure (Mpa)	5	10	15	20	25	30	35	40	45	50

The Ram Area of Jack = 377 cm^2



UET Lahore, Pakistan.

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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4297) (Page -3/4)

Reference to your Letter No. DBCG/Lab/PF JV/2023/061, dated: 02/12/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2199, Gauge No. 1577) as received by us has been calibrated. The results are tabulated as under:

Total Range	:	Zero -	60 (MPa)
Calibrated Range	:	Zero -	45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	2550	5200	7750	10350	13000	15600	18200	20850	23450
Calibrated Pressure (Mpa)	5	10	15	20	25	30	35	40	45

The Ram Area of Jack = 51.05 cm^2



I/C Testing Laboratoires UET Lahore, Pakistan.

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Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/4297) (Page -4/4)

Reference to your Letter No. DBCG/Lab/PF JV/2023/061, dated: 02/12/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2199, Gauge No. 1587) as received by us has been calibrated. The results are tabulated as under:

Total Range	:	Zero -	60 (MPa)
Calibrated Range	:	Zero -	45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	2600	5200	7800	10500	13100	15750	18300	20950	23600
Calibrated Pressure (Mpa)	5	10	15	20	25	30	35	40	45

The Ram Area of Jack = 51.05 cm^2



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,

M/S Vision Engineering (Pvt) Ltd Lahore

Reference # CED/TFL <u>4302 (Dr. M Rizwan Riaz)</u> Reference of the request letter # VECO/2023/0523/ Dated: 05-12-2023 Dated: 05-12-2023

Tension Test Report(Page - 1/2)Date of Test05-12-2023Gauge length640 mmDescriptionSteel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	d Yield strength clause (6.3) Breaking strength clause (6.2)		Elongation	rks / Coil No.		
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	%	Rema
1	9.53 (3/8")	430.0	444.0	9700	95.16	10500	103.01	>3.50	02
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
			0	only one samp	les for Test				

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Reference # CED/TFL <u>4302 (Dr. M Rizwan Riaz)</u> Reference of the request letter # VECO/2023/0523/ Dated: 05-12-2023 Dated: 05-12-2023

Tension Test Report(Page -2/2)Date of Test05-12-2023Gauge length640 mmDescriptionSteel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Nominal Measured Weight weight		trength e (6.3)	Brea strength (6.	king 1 clause 2)	Elongation	ırks / Coil No.				
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	%	Rema				
1	9.53 (3/8")	430.0	448	10000	98.10	10600	103.99	>3.50	03				
-	-	-	-	-	-	-	-	-					
-	-	-	-	-	-	-	-	-					
-	-	-	-	-	-	-	-	-					
-	-	-	-	-	-	-	-	-					
-	-	-	-	-	-	-	-	-					
	Only one samples for Test												

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

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