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

To, M/S Pak Elektron Limited Ferozepur Road, Lahore (M/s Mid Pakistan Coil Center – IGP No. 35166)

Reference # CED/TFL **35454** (Dr. Qasim Khan) Reference of the request letter # I & QC Dated: 02-10-2020 Dated: 02-10-2020

# Tension Test Report(Page - 1/1)Date of Test05-10-2020Gauge length2 inchesDescriptionM.S. C.R Sheet Strip Tensile Test

Sr. No.	(mm)	Size of Strip	X Section Area	(kg)	(ga) (gad	Yield Stress	Ultimate Stress	Elongation (ui)	% Elongation	Remarks	
1	1.2	32.00x1.20	38.40	920	1080	235.03	275.91	0.50	25.00		
-		-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-		
	Only One Sample for Tensile Test										
Bend Test											

To,

Note:

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2. The above results pertain to sample /samples supplied to this laboratory.

3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

I/C Testing Laboratoires UET Lahore, Pakistan.



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Project Manager Liberty Builders Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL 35457 (Dr. Qasim Khan)	Dated
Reference of the request letter # ST/UET/20201005	Dated

Dated: 05-10-2020 Dated: 05-10-2020

Tension Test Rej	<b>port</b> (Page -1/1)
Date of Test	05-10-2020
Gauge length	8 inches
Description	Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	ti Diameter/ Size M			rea n <sup>2</sup> )	Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks	
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.365	3	0.369	0.11	0.107	3200	5100	64200	65830	102200	105000	1.00	12.5	-
2	0.367	3	0.370	0.11	0.108	3400	5300	68200	69540	106200	108500	1.20	15.0	Ittefaq Steel
3	0.364	3	0.369	0.11	0.107	3300	5200	66200	68020	104200	107200	1.10	13.8	=
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
							Bend T	`est						
#3	Bar Ben	d Test 7	Fhrough	n 180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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

Ref: CED/TFL/10/35459

Dated: 05-10-2020

Dated of Test: 05-10-2020

#### To Project Director DGKIC, IDAP Establishment of Sardar Fateh Muhammad Khan Buzdar Institute of Cardiology, D.G Khan Subject: - CALIBRATION OF HYDRAULIC JACKWITH PRESSURE GAUGE

(MARK: TFL/10/35459) (Page # 1/3)

Reference to your Letter No. PD(DGKIC)/IDAP/2020/100702, dated: 02/10/2020 on the subject cited above. One Hydraulic No. H.J.N XJ999150-0844471 with Pressure Gauge No. AISI 316 as received by us has been calibrated. The results are tabulated as under:

Total Range	:	Zero -	20000 (Psi)
Calibrated Range	:	Zero -	1800 (Psi)

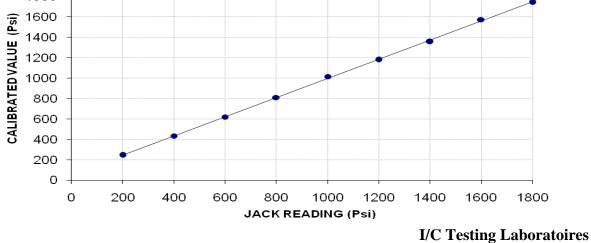
Hydraulic Jack Reading (Psi)	200	400	600	800	1000	1200	1400	1600	1800
Calibrated Load (kg)	26800	47200	67733	88533	110800	128800	147867	171733	190000
Calibrated Pressure (Psi)	245.64	432.62	620.82	811.46	1015.55	1180.53	1355.29	1574.04	1741.46

The Ram Area of Jack = 240.53 in<sup>2</sup>

1800



Calibrated Value (Psi) = (0.937 x Jack Reading (Psi)) + 60.35



UET Lahore, Pakistan.

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

Ref: CED/TFL/10/35459

Dated: 05-10-2020

Dated of Test: 05-10-2020 То

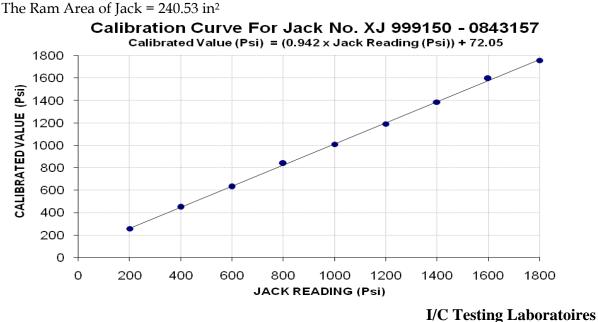
**Project Director** DGKIC, IDAP Establishment of Sardar Fateh Muhammad Khan Buzdar Institute of Cardiology, D.G Khan

# Subject: - CALIBRATION OF HYDRAULIC JACKWITH PRESSURE GAUGE (MARK: TFL/10/35459) (Page # 2/3)

Reference to your Letter No. PD(DGKIC)/IDAP/2020/100703, dated: 02/10/2020 on the subject cited above. One Hydraulic No. H.J.N XJ999150-0843157 with Pressure Gauge No. AISI 316 as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	20000 (Psi)
Calibrated Range :	Zero -	1800 (Psi)

Hydraulic Jack Reading (Psi)	200	400	600	800	1000	1200	1400	1600	1800
Calibrated Load (kg)	28200	49200	69000	91600	110200	130000	151400	174200	192000
Calibrated Pressure (Psi)	258.47	450.95	632.43	839.57	1010.05	1191.53	1387.67	1596.65	1759.79



UET Lahore, Pakistan.

Note:

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- The above results pertain to sample /samples supplied to this laboratory. 2.
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Ref: CED/TFL/10/35459

Dated: 05-10-2020

Dated of Test: 05-10-2020

# To Project Director DGKIC, IDAP Establishment of Sardar Fateh Muhammad Khan Buzdar Institute of Cardiology, D.G Khan

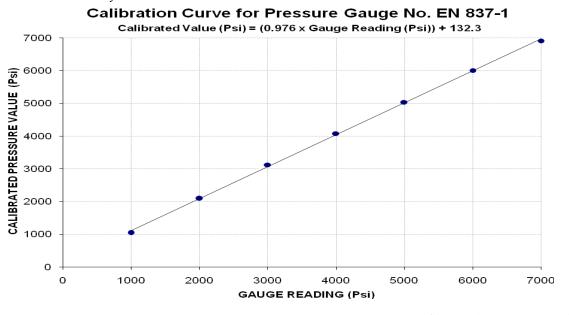
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/10/35459) (Page # 3/3)

Reference to your Letter No. PD(DGKIC)/IDAP/2020/100704, dated: 02/10/2020 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	10000 (Psi)
Calibrated Range :	Zero -	7000 (Psi)

Hydraulic Jack Reading (Psi)	1000	2000	3000	4000	5000	6000	7000
Calibrated Load (kg)	14500	29100	43400	56800	70100	83600	96200
Calibrated Pressure (Psi)	1041.58	2090.35	3117.57	4080.13	5035.52	6005.27	6910.37

The Ram Area of Jack = 198 cm<sup>2</sup>



I/C Testing Laboratoires UET Lahore, Pakistan.

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