Calibration

Name of the Equipment Make	Features
Multi Product Calibrator	
Multi Product Calibrator Fluke 5520 with 8.5 Digit Multi Meter Fluke	DC Voltage: Range 0 to ±1020V; Accuracy: ±12 ppm of setting DC Current: Range 0 to ±20.5 A; Accuracy: ±100 ppm of setting Resistance: Range 0 to 1100MΩ Accuracy: ±28 ppm of setting DC Power Range: 10.9 mW to 20.5 kW Accuracy ±0.023% of setting AC Voltage: Range 1mv to 1020V; Accuracy: ±120 ppm of setting (10 Hz to 500 kHz, Sine) DC Current, Range 29mA to 20.5 A; Accuracy:
Multi Product Calibrator Fluke 5500	±0.06% of setting (10 Hz to 30 kHz, Sine) Capacitance Range 0.19 nF to 110 mF Accuracy: ±0.25% of setting Frequency Range: 0.01 Hz to 2.0 MHz Accuracy ±25 ppm of setting AC Power Range: 10.9 mW to 20.5 kW45-65 Hz, PF=1 Accuracy ±0.08% of setting Thermocouple Source and Measure Range -250°C to +2316°C (11 types) Accuracy ± 0.14°C of setting RTD Source Range: -200°C to +630°C (8 types) Accuracy ±0.03°C of setting
7.5/6.5 Digital Multi Meter Keithley Hewlett Packard	Multi range, Accuracy: 0.001 fs To calibrate AC/DC Voltage, AC/DC Current, Resistance, Capacitance
Standard Resistors	
Decade Resistance Standard , Vaiseshika Guildline. Canada	Range 0.1 Ohm to 1000 M Ohm

Programmable DC voltage / Current Source	
YOKOGAWA Class 0.2 Portable Test Meter CALSTAT-400 HEG	Voltage Range 0-30mV Accuracy 0.018%, Current Range 0-100mA Accuracy 0.02%
Programmable AC Source	

Chroma



Kocos



To generate simulated AC Power to test the 3 phase loads(3kVA each phase and also single phase load upto 9kVA

- AC+DC output mode for voltage DC offset simulation
- Programmable output impedance for IEC 61000-3-3
- IEC 61000-4-11, IEC 61000-4-14, IEC 61000-4-28 voltage dips and frequency variation simulation
- Harmonics, interharmonics waveform synthesizer for IEC 61000-4-13 testing
- Power line disturbance simulation capability
- Programmable voltage and current limit settings
- Comprehensive measurement capability, including current harmonics
- High output current crest factor, ideal for inrush current testing
- Turn on, turn off phase angle control
- TTL signal which indicates output transient
- Optional analog programmable interface
- 3 units combined to 3-phase power output (Model 61501~61505)
- Easy use graphic user interface: softpanel (Option)
- Softpanel for IEC regulation test

Capable of delivering power output up to 9KVA by implementing Master-slave parallel operation

Mechanical

The center has the following equipment to calibrate the parameters such as pressure, length, linear dimensions, height, thickness, mass, force, speed, etc.,

Name of the Equipment	Make	Features &Application
Electronic Balances	Sartorius	Range: 200g, Accuracy: 0.01mg
		> To calibrate weights
	Shimadzu	Range: 1.2kg, Accuracy: 0.01g
	27.21.	> To calibrate weights
	ORION	Range: 6 Kg, Accuracy: 1gm
	4.700	> To calibrate weights
	ATCO	Range: 60Kg, Accuracy: 1gm
C.C. Laboratory Waights	Maigh India	> To calibrate weights
S.S. Laboratory Weights	Weigh India	Range: 1mg-200g, Accuracy: E2 ClassTo calibrate Balances
Digital Vernier Calipers	Mitutoyo,	Range: 0-300mm, Accuracy: 0.01mm
		For Linear Measurements
		Range:0-450mm, Accuracy: 0.01mm
		For Linear Measurements
Digimatic Micrometer	Mitutoyo,	Range: 0-25mm, Accuracy: 0.001mm
		For Linear Measurements
Dial Thickness gauge	BAKER	Range: 0-10mm, Accuracy: 0.001mm
01: 0	N 4' '	For Linear Measurements
Slip Gauges	Micronix	> Range: 0.5-100mm, Accuracy: 0.1µ
Calinar Chaalaa	Minnersity	For Linear Measurements
Caliper Checker	Micronix	 Range: 0-670mm, Accuracy: 5µ m For Linear Measurements
		For Linear Measurements
Combination Length bar	P.V.E.,	> Range: 1800mm, Accuracy: 0.005mm
set	,	➤ For Linear Measurements
Dead weight Tester	DH-	> Range: 0-1200kg/cm ²
	BUDENBERG,	> Accuracy: 0.025%FSD
	·	To calibrate precision pressure gauges, digital
		pressure indicators
Portable Documenting	Druck 610	Range: 0-700bar,
Pressure Calibrator		Accuracy: 0.025% of FS
		Appl:To calibrate pressure gauges, digital
		pressure indicators
Digital Pressure Indicator	Druck 601	Range: 0-20 bar, Accuracy: ±0.05% of FS
		Appl: To calibrate pressure gauges, digital pressure
		indicators
Stroboscope	Monarch /NOV	Range:14000fpm
Strobe DB p	Strobe DB plus	Accuracy:±0.5 fpm
		To calibrate Speed generating Equipments
Digital Hand-held	Line-Seike	Range:19,999 rpm,
Tachometer		Accuracy:1 rpm
		To calibrate Speed generating Equipments

Combinational length bar test



Electronic weighing Balance



DPI 610 pressure calibrator



Budenberg Dead weight tester



Slip Gauge



Pressure calibrator



TEMPERATURE & ANALYTICAL

The center has the following equipment to calibrate the parameters such as temperature sensor, transmitters, humidity, spectro photometers etc.

Name of the Equipment	Make	Features &Application
Temperature Calibrators To calibrate sensors, Instruments, Sources, Field Calibrators	Documenting process calibrator Fluke 701	Range: Multi range, Accuracy: 0.05% of reading +0.005%fs
	Dry Block Calibrator ISOTECH, PEGASUS 1200	Range: Ambient to 1200°C, Accuracy: 0.001°C
	S type TC ISOTECH 1600NCJ	Range:0 to 1760°C, Accuracy: 0.20%
	Dry Block Calibrator DRUCK, DBC 650	Range: 50 to 650°C, Accuracy: 0.5°C
	Liquid Calibration bath with thermo regulator Techne, TU 20D	Range: -30 °C to Ambient Accuracy: set point accuracy ±1°C
Holmium Oxide wavelength standard	NIST, USA, SRM/2034	Range: 290 - 740nm, Accuracy: Standard reference material To calibrate spectrophotometers
STD Buffer PH Solution	MERCK	Range: PH4.01, PH7.00, PH9.00, Accuracy: Standard reference material To calibrate pH meters
Conductivity STD Solutions	MERCK	Range: 1.41mS/cm³, 111mS/cm³,12.8mS/cm³ Accuracy: Standard reference material To calibrate Conductivity meters

Temperature bath



Precision thermometer

