

COMPANY PROFILE



AUTOCAL SOLUTIONS PVT. LTD.

Bringing Sharpness To The Quality Of Life Science







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Why AUTOCAL?



In a word... VALUE and the value comes from... People... AUTOCAL people.

Who are we?

Choosing a calibration company is a very important factor in maintaining QA requirements. Good calibrated equipment saves money and establishes the success of your company. So why don't you rely on the company that provides the best calibration service? AUTOCAL is the most advanced calibration laboratory for all types of measurement devices in India. For nearly fifteen years in the market, AUTOCAL has been committed in providing honesty, dependability & excellence to our Customers.

We believe in technological improvement and quality to drive our businesses to the next level. Our company not just raises the standard but soars beyond them with trained personnel, creating continual development to strive an excellent, professional and motivational environment. Also our laboratories are equipped with the most advanced instruments creating a customized based company to fill its needs.

Our mission is to provide our customers test & calibrations of the highest quality, with competitive pricing and on time delivery the first time and every time. We want to be an integrated solution where you will feel that we are another department in you company.

We keep ourselves ahead of the competition with our facilities and services. We have been accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL) which is an autonomous body under the Department of Science and Technology which in turn has a Mutual recognition Agreement (MRA) with APLAC (Asia Pacific Laboratory Accreditation Council) and ILAC (International Laboratory Accreditation Council), is once again, a way to assure our customers with highest possible level of accuracy and precision in this calibration and certification of their instruments.

Our reminders system will let you know by phone and email when the calibration testing and certification renewal of your instruments are due. We offer pick-up and delivery services for your convenience. You can trust our calibration to fully trained professionals with expertise, talent, and resources letting your company focus on your core competency.

We can help you with your Calibration, Validation (Process, HVAC, PLC), Testing (Compressed Air, steam quality, Water, Microbiological, Food) and training in our field of operations & other quality assurance needs. Since our inception in 2002, we have provided critical calibration, validation and advisory services to more than 4000 customers from the Pharmaceuticals, Biomedical, Food, Chemical & Drug, Engineering, automotive industry, airlines and many more.



Legal Status

Name of the company : AUTOCAL SOLUTIONS PVT.LTD.

Legal Status : Private Limited Company registered under the

Company act. 1956

Chairman : Vinit A. Shirsat

Managing Director : Prashanth Kamath (Mob. No.09321250600)

Registered & Head Office : Unit No.4, 5, 10 & 11, Ruby Industrial Estate PCS

(Correspondence Office) Ltd. Navghar, Vasai Road (East), District-Palghar,

Pin-401210, Maharashtra, India

Phone : 91 0250 2392288-89, 2393247, 2393502-03

Website : www.autocal.net

E-mail : sales@autocal.net

Bankers : ICICI BANK LTD., Vimal Shopping Centre, Main

Road, Vasai(West), Dist. Thane -401202

A/c. No.: 002251000002

RTGS/ NEFT No.:ICIC0000022

CIN No. : U72200MH2008PTC178116

Pan No. : AAGCA9480P

TAN No. : MUMA32604F

Professional tax No. : 27270678266P

IEC (Import Export Code) No. : 0308011619 dated 21/05/2008.

Shop & Establishment No. : 1710200310921608 & 1710200310921890

ESIC No. : RM2914 wef 04/03/2004 (35000029630000607)

Provident fund No. : KD/MAL/0094005

GST No : 27AAGCA9480P1ZV



WE ARE MEMBERS OF FOLLOWING.....



Membership No.AOIL/M/180



Membership No.AUT-M-12-2013-1189



Membership No.1/043866



Membership No. 337/K/A



Membership ID. 1024803



Membership No.LM-0012



Membership No.AM1004



Membership No.CORP/CM/5332/2017-18



Membership No.LM955



Membership No. 67-565-2119



Membership No. AS-11829

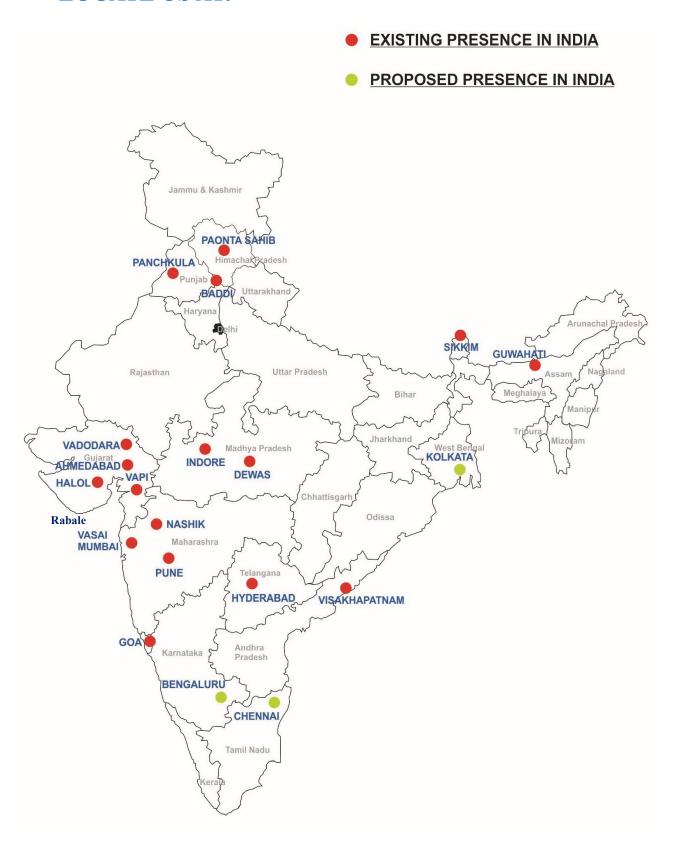




Location	Address	Email Id
Vasai	Unit No. 4,5,10 & 11, Ruby Industrial Estate,	sales@autocal.net
(Head &	Navghar, Vasai Road (East), Palghar- 401210,	
Admin Office.)	Maharashtra	
Goa	Unit no 1,Reema House,Ground Floor,Near	goa@autocal.net, goal@autocal.net
	Bharat Steel, Verna Industrial Estate,	
	Verna-403722, Goa	
Goa	Shed No - 11, Behind IDC office, Kundaim	samservices@autocal.net
	Industrial Estate, Kundaim- 403115, Goa	
Indore	Plot No.2 & M1, Phase-II, Apperal Park,	indore@autocal.net
	SEZ, Pithampur-12, Madhya Pradesh	
Baddi	Cabin No 32, SCO 45, Second floor, Canam	baddi@autocal.net
	Plaza, Sector-11, Panchkula-134112,	
	Harayana	
Vadodara	109/110, 1st Floor, Siddhi Vinayak	vadodara@autocal.net
	Complex,Opp. Vadodara Railway Station,	
	Vadodara (W),Gujarat- 390005	
Nashik	06, Gurusampada Society, Vanvihar Colony,	adminnsk@autocal.net
	Behind Bhonsala School, Nashik - 422005	
Sikkim	Near Govt Hospital, Opposite Green Hills	sikkim@autocal.net
	Hotel, Rangpo, East Sikkim- 737132	
Dewas	House No. 417, Ganganagar, Dewas, M.P.	mahendra.sonekar@sunpharma.com
	455001	
Hyderabad		sales@autocal.net
Vapi		sales@autocal.net
Guwahati	Post Office Mirza, Village- Kochpara,	plcval1@autocal.net
	Landmark Behind Shahid Bedi Park, Opp.	
	Social Welfair office, Dist Kamrup(Rural),	
	Police Station-Palashbari, Pincode-781125	
Vizag	D.No.31-28-17, Ground Floor,	
	Rani Niwas, Kurmannapalem,	vizag@autocal.net
	Visakhapatnam-530046	
Paonta Sahib	House No. 1351, Ward No. 11, Ekta Colony,	pradeepv@autocal.net
	Paonta Sahib, HP	
Halol	39, Sharda Nagar Society, Near Garba	halol@autocal.net
	Ground, Halol Distt. Panchmahal - 389350	
Ahmedabad		sales@autocal.net
Rabale	Plot No. PAP-R-149 & 150, Rabale MIDC,	rashmig@autocal.net
	(Behind Hotel Sai Prasad) Pipeline Road,	
	TTC Industrial Area, Navi Mumbai – 400701	



LOCATE US AT:





TRACEBILITY TO INTERNATIONAL STANDARDS



Primary Lab (Autocal Vasai Electro Technical Lab)

Level I Vasai (Thermal, Pressure, Mechanical Lab)

Level II Nashik (Electro Technical , Thermal, Mechanical Lab)

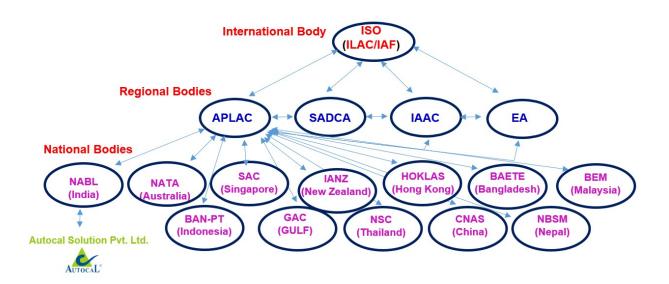
Working Standards

Nashik, Pune, Vasai, Goa, Indore, Dewas, Vizag, Halol, Hyderabad, Vapi, Vadodara, Sikkim, Baddi, Guwahati, Paonta Sahib

UUC/ DUC



WHO GOVERNS US



TITLE	WEBSITE
SI (International System of Units)	
NMI (National Metrology Institutes)	www.nmi.nl
NPL India (National Physical Laboratory)	www.nplindia.org
UUC (Unit Under Calibration)	
DUC (Device under calibration)	



CALIBRATION

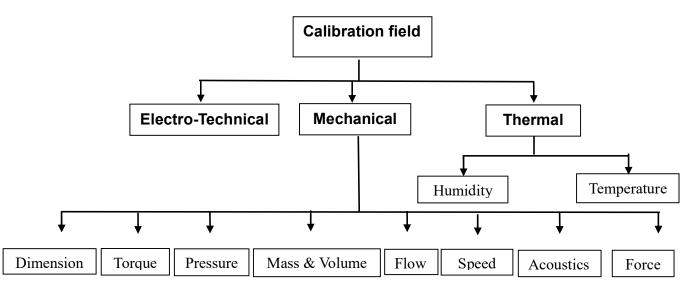
Calibration is the process for determination of correct value of each scale reading of measuring instruments by measurement or comparison with standard instruments. Consistency in the product you manufacture is imperative. From this aspect probably your product's government approval, its quality, acceptance and growth in the market are dependent.

Accuracy is the key to maintaining consistency. There are plenty of other elements involved in the production of your company's products; accuracy in the measurement of its ingredients should not be an extra concern. Nevertheless, it is a very well known fact that the lack of calibration and alignment of equipment causes plenty of drawbacks. We like to make sure that you never have to suffer such types of drawbacks.

Our calibration services involve:

- Identification of Calibration requirements by system and equipment (critical and non-critical)
- Identification of plant wide calibration requirements.
- Criteria for a calibration program and traceability to the National/International standard
- Generation and implementation of a plant-wide calibration program
- Certification of the plant-wide calibration program

AUTOCAL prides itself in its ability to perform quality work within budgetary and time constraints. We are the experts and have the references and success stories of our clients to attest to our abilities. With over five years of experience in the Calibration and Validation industry, AUTOCAL now can also provide your organization with personnel who have "been there & done that" experience in all phases of Calibration Database Implementation and Validation.





CALIBRATION RANGES

Liquid Flow calibration

Range: upto 500 m³/hr



Volume calibration

Range: 1 µl to 20 ltr



Mass calibration Range: 1 mg to 1000 kg



Humidity calibration Range: 10%RH to 95%RH



Acoustic

Range: 74dB, 84dB,94dB & 104dB, 114dB @1KHZ



Dimension calibration Range: 0.1 µm to 1500 mm



Pressure calibration

Range: -1bar to 2000 bar



Temperature calibration

Range: -196°C (at fixed temp.), -95°C to 1200°C



Gas Flow calibration Range: 0.5 SLPM to 4000 SLPM



Speed calibration Range: 5RPM to 99999RPM



Torque calibration Range: 1 N-m to 1000 N-m



Electro-Technical Range: DC Voltage, DC Current, AC Voltage, AC Current, DC Resistance, AC Resistance, Capacitance, Inductance, Frequency, DC Power, AC Power, Power Factor, Active Energy, Transformer Turns Ratio, etc.





























SCOPE OF CALIBRATION (NASHIK LABORATORY)
NABL Accredited Laboratory As per ISO/ IEC: 17025: 2005
Electro-Technical:

Electro-Technical:	D	CP 4 M
Parameter/Test	Range	Calibration Measurement
SOUDCE, ALL CL O CL		Capability (±)
SOURCE: At Lab & Site		
DC Voltage	1 11 100011	0.020/ 0.012.0/
DC Current	1 mV-1000V	0.92% - 0.012 %
Resistance	$10 \mu A - 1000 A$	0.32% - 0.35 %
	$10 \Omega - 400 M\Omega$	0.15% - 0.90%
Descrete Resistance Box		
Descrete High Resistance Box	$1 \Omega - 1000 M\Omega$	0.58% - 1.20%
	1 GΩ - 400GΩ	5.80%
AC Voltage		
	10mV - 1000V @50Hz -1kHz	1.16% - 0.07 %
	10mV - 100V @1kHz - 20kHz	2.84% - 0.11 %
	10mV - 100V @ 20kHz - 50kHz	5.65% - 0.21 %
AC Current		
	100μA - 20A @50Hz -1kHz	0.56% - 0.30 %
	1mA - 20A @ 1kHz -10kHz	0.86% - 0.71 %
	20A - 900 A @ 50Hz	0.85% - 0.65 %
Frequency	20A - 900 A (a) 30HZ	0.03/0-0.03/0
rrequency	1011- 1001-11-	0.060/ 0.0060/
G '4	10Hz - 100kHz	0.06% - 0.006%
Capacitance	100111 1 011	0.0070/ 0.00020/
	100kHz - 1 GHz	0.007% - 0.0003%
	600μF - 1mF @ 1kHz	1.07% - 1.55%
	1μF - 600μF @ 1kHz	0.36%
	100pF - 1μF@ 1kHz	0.36% - 0.59 %
Inductance		
	0.1mH - 5H @1kHz	1.20%
	RTD: - 200°C - 850°C	0.20 °C - 0.40 °C
Simulation method for calibration	T/c: - 200°C - 1370°C	0.70 °C
of Indicator /Recorder/Controller		
of fildicator / Recorder/Controller		
	5mV -100V DC	1.16% - 0.30%
	5mV -100V AC	0.36%
Oscilloscope	0.1µsec - 2 sec	0.07 % - 0.06%
	50kHz - 250MHz band width	3.50%
Measure (At Lab):		
DC Voltage	0.1mV - 1000V	0.68 % - 0.0014%
DC High Voltage	1kV - 15 kV	2.90 %
DC Current	0.01mA - 20A	0.007% - 0.35%
	0.01IIIA - 20A	0.007/0-0.55/0
Resistance	10m0 100	0.95.0/ 0.660/
	$10\text{m}\Omega$ - $1\text{G}\Omega$	0.85 % - 0.66%
AC Voltage	1V 700V @50H- 11-H-	1 100/ 0.050/
	1mV - 700V @50Hz -1kHz	1.10% - 0.05%
	1mV - 500V @1kHz- 20kHz	0.44% - 0.075%
	1mV - 100V @20kHz- 50kHz	0.70% - 0.045%
	700V -1000V @50Hz - 1kHz	0.82%



Parameter/Test	Range	Calibration Measurement Capability (±)
AC High Voltage	1kV - 10kV @50Hz	6.00% - 4.90%
AC Current	0.01mA - 1A@50Hz -100Hz 0.1mA - 1mA@ 100Hz - 1kHz 1mA - 1A@ 100Hz - 5kHz 1A - 20A@ 50Hz - 5kHz	0.53% - 0.16% 0.13% - 0.065% 0.065% - 0.20% 0.36%
Frequency	10hz - 1Ghz	0.010% - 0.006%
Time	6 sec - 24Hrs	0.65s - 6.00s
Capacitance	100pF - 600μF @1kHz	0.90% - 0.65%
Inductance	100μH - 5H@1kHz	2.50% - 1.20 %
Power Factor	UPF - 0.2PF @ 50Hz	0.01 PF
AC Active Power 1Phase UPF - 0.2 PF @50Hz	110V-230V 1A - 10A 24W - 2.30kW	0.60% - 3.60 %
Measure (At Lab): AC Active Energy 1& 3 Phase UPF @ 50Hz	240V/1A 240V/ 5A	0.70% 0.70%
CT Ratio error Phase Error	5A- 3200A/ 1A- 5A 2000A- 6000A/ 1A-5A	RE: 0.060% PE 1.70 min RE: 0.130%
CT Burden 50 Hz Temp .Indicator	(1A/ 5A) 1VA - 50VA	PE: 5.10min 1.80%
/Recorder/Controller	RTD: - 200°C - 850°C T/c: - 250°C - 1700°C	0.065°C - 0.024 ° C 0.25°C - 0.55 °C
Measure (At site) DC Voltage	1mV - 1000V	0.45% - 0.007%
DC Current	1mA - 20A 20A- 200A	0.30% - 0.35% 1.20%
Resistance	1Ω - 100ΜΩ	0.50% - 1.00%
AC Voltage	1mV - 700V@ 50Hz -1kHz 700V - 1000V @ 50Hz -1kHz	4.75% - 0.15% 0.82%
AC High Voltage	1kV - 10kV @ 50Hz 10kV - 75kV @ 50Hz	6.00 % - 4.90% 3.00%
AC Current	100mA - 20A2 50Hz - 1kHz	1.00% - 0.40 %
AC High Current	20A - 6000A@ 550Hz	0.90%



Parameter/Test	Range	Calibration Measurement Capability (±)
Measure (At Site): CT		
Ratio error	5A- 3200A/ 1A- 5A	RE: 0.060%
Phase Error		PE 1.70 min
	2000A- 6000A/ 1A-5A	RE: 0.130%
CT Burden	(1 A / 5 A)	PE: 5.10min
Ci Burden	(1A/5A) 1VA - 15VA	1.80%
	IVA-13VA	1.0070
PT Burden	(63.5 / 110V)	
	2.5VA - 150VA	1.30%
	DTD 2000G 0500G	0.06500 0.024.00
	RTD: - 200°C - 850°C T/c: - 250°C - 1700°C	0.065°C - 0.024 °C 0.25°C - 0.55 °C
Temp .Indicator /Recorder/Controller	176 230 C - 1700 C	0.23 C - 0.33 C
/Recorder/Controller	10Hz - 1GHz	0.015% - 0.01%
Frequency	6 Sec - 24Hrs	0.65 s - 6 s
Time	100pF - 600μF @1kHz	1.00% - 0.756 %
Time	100pr - 000μr @1κHz	1.00% - 0.730 %
Capacitance	100μH - 5H@1kHz	2.50% 1.50 %
Inductance	1kV - 15kV	2.90%
DC History		
DC High Voltage		

Mechanical:

Mechanical:		
Parameter/Test	Range	Calibration Measurement Capability (±)
Caliper - LC 10µm Vernier/Dial Digital	Up to 600mm	14.33μm
Depth caliper- LC 10µm Vernier/Dial Digital	Up to 300mm	9.00μm
Height gauge - LC 10µm Vernier/Dial/ Digital	Up to 600mm	14.41µm
External Micrometer LC :10µm	Up to 500mm	9.62 μm
Dial gauge plunger LC:1µm	Up to 25 mm	2.15 μm
Dial gauge Lever LC: 1µm	0 to 0.80 mm	2.10 μm
Bore Gauge with Dial (Transmission Accuracy) LC:1µm	Up to 2mm	2.30 μm



Parameter/Test	Range	Calibration Measurement Capability (±)
External Micrometer		(±)
LC :10µm	Up to 500mm	9.62 μm
Dial gauge plunger LC :1µm Dial gauge Lever	Up to 25 mm	2.15 μm
LC: 1µm	0 to 0.80 mm	2.10 μm
Bore Gauge with Dial (Transmission Accuracy) LC:1µm	Up to 2mm	2.30 μm
Dial Thickness gauge LC: 1 μm		
LC: 10 μm	Up to 1mm	1.02 μm
Δο. Το μπ	Up to 10mm	7.03 μm
Bevel protractor		7.05 µm
LC: 5min	0-30-45-60-90°	2.95' of Arc
		2.55 617110
Feeler gauge		
1	Up to 1 mm	3.39 µm
Depth Micrometer	- F	0.00
LC : 10μm	Up to 300mm	8.10 μm
	- F	0.00 p
RPM (Non Contact)		
,	60 - 60,000 RPM	1.93 RPM - 41.55 RPM
Sound Level Meter	,	
	94 & 114 dBA	2.36 dB
Mechanical -Pressure (At		
lab & site)		
Pneumatic Pressure		
(Dial & Digital Pressure	0 to 35 bar	0.08 bar
Indicators)		
<i>'</i>		
Hydraulic Pressure		
(Dial & Digital Pressure	0 to 600 bar	0.08 bar
Indicators)		

Thermal

<u>i nermai</u>		
Parameter/Test	Range	Calibration Measurement Capability
		<u>(±)</u>
(At lab only) Glass Dial & Digital Thermometers	40°C to 200 °C	1.0 °C
Thermal (At lab & Site) RTD & TC Sensors with & without Indicators	-80 °C to 0 °C 0 °C to 140 °C 140 °C to 400 °C	0.30 °C 0.40 °C 0.50 °C
TC Sensors with & without Indicators	400 °C to 1000 °C 1000°C to 1200 °C	1.80 °C 2.60 °C



SCOPE OF CALIBRATION (VASAI LABORATORY)
NABL accredited Calibration Laboratory as per ISO/IEC: 17025: 2005
ELECTRO – TECHNICAL:

Parameter / Test	Range	Calibration Measurement Capability (±)
SOURCE *DC VOLTAGE	0.1 mV to 1000V	0.47% to 0.0009%
*AC VOLTAGE (10Hz to 100 kHz)	1 mV to 1000V	0.49% to 0.009%
*DC CURRENT	1 nA to 1000 A	1.39% to 0.32%
*AC CURRENT(10 Hz to 10 kHz)	10 μA to 6000 A	0.21% to 0.9%
*RESISTANCE	1 mΩ to to 1 TΩ	0.005% to 5.8%
*FREQUENCY	10 Hz to 500 MHz	0.0004% to 0.012%
*TIME PERIOD	0.1 s to 2 ns	0.0004% to 0.012%
*CAPACITANCE (1 KHz)	1 nF to 1 mF	0.13 % to 0.67%
*INDUCTANCE (1 KHz)	100 μFto 10 H	2.31% to 0.93%
*TEMPERATURE SIMULATION		
(Indicator/ Recorder/ Controller)		
THERMOCOUPLE	(-) 200 °C to 1370 °C	0.035 0C to 0.030 0C
K Type	(-) 200 °C to 1200 °C	0.026 0C to 0.020 0C
J Type	(-) 200 °C to 1300 °C	0.050 0C to 0.027 0C
N Type	(-) 250 °C to 1000 °C	0.033 0C to 0.017 0C
y E Type	(-) 250 °C to 400 °C	0.08 0C to 0.013 0C
T Type	(-) 50 °C to 1768 °C	0.13 0C to 0.06 0C
R Type	(-) 50 °C to 1768 °C	0.12 0C to 0.06 0C
S Type	600 °C to 1800 °C	0.08 0C to 0.05 0C
B Type	(-) 200 °C to 800 °C	0.01 0C to 0.04 0C
RTD (PT-100)		
*AC POWER (1Phase)	1.2 W to 4.8kW	0.2 1% to 1.2 %
@ UPF (50HZ) to @ 0.2 PF		
	0.2 PF to UPF	0.002 PF
*POWER FACTOR (50 Hz)		
*OSCILLOSCOPE	10 mV to 130V	0.55 % to 0.07 %
DC Amplitude (1 MΩ Output)	$10 \text{ mV}_{p-p} \text{ to } 130 \text{V}_{p-p}$	0.58 % to 0.14 %
AC Amplitude (1 MΩ Output @ 1kHz)	2 ns to 5 s	0.03 % to 0.6 %
Time Base	50 kHz to 600 MHz	2.3 % to 7 %
Bandwidth		
	0.8 to 2000	0.06 %
*TRANSFORMER TURNS RATIO		
METER		
MEASURE	10μV to 1000V	0.7% to 0.0002%
*DC VOLTAGE	1 kV to 100 kV	5.09% to 3.67 %
*AC Voltage	1 mV	0.48% to 0.26%
10 Hz to 10 kHz	2 mV to 1000 V	0.039% to 0.0061%
10 Hz to 1 kHz	2 mV to 1000 V	0.072% to 0.0029%
1k Hz to 100 kHz	20 V to 60 V	0.0025% to 0.0027%
1 kHz to 300 kHz	2 mV to 20 V	0.072% to 0.0043%
100 kHz to 1 MHz	1 kV to 100 kV	7.21 % to 3.64 %
50 Hz	10μV to 100 A	



	10 μA to 100A	0.002 % to 0.09%
*DC CURRENT	10 10 10 10 10 11	0.002 /0 00 0.05/0
*AC CURRENT	10 μA to 20 A	0.3% to 0.015%
10 Hz to 10 kHz	10 A to 100 A	0.1% to 0.18%
50 Hz	107110 10071	0.170 to 0.1070
30 112	1 mΩ to 100 MΩ	0.4% to 0.026%
*DC RESISTANCE	$100 \text{ M}\Omega$ to $1 \text{ T}\Omega$	0.026 % to 0.5 %
De RESISTANCE	0.1Ω to $10 M\Omega$	0.4% to 0.14%
*AC RESISTANCE (1 kHz)	10Hz to 2 GHz	0.00011 %
*FREQUENCY/ PERIOD	10 pF to 1 mF	0.1% to 0.25%
*CAPACITANCE (1 kHz)	100 μH to 10 H	0.08 % to 0.027%
*INDUCTANCE (1 kHz)	100 μ11 το 10 11	0.00 /0 to 0.02 / /0
*DC POWER	100 mW to 20 kW	0.47 % to 0.26 %
1 V to 20 A	100 III W 10 20 KW	0.47 70 to 0.20 70
*AC POWER (1Phase)	100 mW to 14 kW	0.46 % to 0.2 %
@ UPF (50 Hz)	80 mW to 11.2 kW	0.56% to 1.6%
@ 0.8 PF (50 Hz)	50 mW to 7 kW	0.56% to 1.6%
@ 0.5 PF (50 Hz)	20 mW to 2.8 kW	0.56 % to 1.6 %
@ 0.2 PF (50 Hz)	20 11111 10 2.0 1111	0.50 / 0 00 1.0 / 0
(30112)	UPF to 0.1 PF	0.0015 PF
*POWER FACTOR/ PHASE ANGLE	0 to 180 °	0.026 °
TO WERTHOTOR TIMBETH VOLE	0 10 100	0.020
*ACTIVE ENERGY 3PH-4 WIRE	240V/5 mA to 100 A	0.23%
@ 50 HZ UPF	210 775 111110 10011	0.23 / 0
(30 HZ 311	6s to 24 Hrs	0.15 s to 4.0 s
*TIME	05 to 2 1 1115	0.13 5 to 1.0 5
*TEMPERATURE SIMULATION		
(Process Calibrator)	(-) 200 °C to 1370 °C	0.010 °C to 0.02 °C
K Type	(-) 200 °C to 1200 °C	0.01 °C to 0.013 °C
J Type	(-) 200 °C to 1300 °C	0.013 °C to 0.020 °C
N Type	(-) 250 °C to 1000 °C	0.013 °C to 0.010° C
E Type	(-) 250 °C to 400 °C	0.015 °C to 0.020 °C
T Type	(-) 50 °C to 1768 °C	0.02 °C to 0.06 ° C
R Type	(-) 50 °C to 1768 °C	0.02 °C to 0.06 ° C
S Type	600 °C to 1800 °C	0.02 °C to 0.06 ° C
B Type	(-) 200 °C to 800 °C	0.005 °C to 0.018 °C
RTD (PT-100)		
	5 A to 3200 A/5 A	0.013 %
Current Transformer Ratio Error/Phase	2000 A to 6000 A/ 5 A	0.084 %
Error		
	6.6 - 11 - 22 - 33	0.10 %
Potential Trasformer Ratio Error/ Phase	kV/110 V	
Error		
	1.25 VA to 30 VA	1.75 %
CT Burdens		
	2.5 VA to 50 VA	2.0 %
PT Burdens		
	1	



MECHANICAL - Mass, Volume, Dimension, Pressure, Speed, Sound & Torque

MECHANICAL – Mass, Volume, D		
Parameter / Test	Range	Calibration Measurement Capability (±)
I. MASS		(-)
1. *Weight	1 mg	0.010 mg
(Convential Mass)	2 mg	0.010 mg
(Convential Mass)	5 mg	0.010 mg
		_
	10mg	0.012 mg
	20 mg	0.012 mg
	50 mg	0.012 mg
	100 mg	0.014 mg
	200 mg	0.014 mg
	500 mg	0.014 mg
	1 g	0.020 mg
	2 g	0.020 mg
	5 g	0.020 mg
	10 g	0.034 mg
	20 g	0.034 mg
	50 g	0.034 mg
	100 g	0.094 mg
	200 g	0.10 mg
Weight	500 g	0.02 g
(Convential Mass)	1 kg	0.03 g
	2 kg	0.03 g
	5 kg	0.03 g
	10 kg	0.08 g
	20 kg	0.18 g
*Weighing Machine		
D=0.001 mg	0 to 20 g	0.10 mg
D=0.01 mg	0 to 200 g	0.03 mg
D=0.1 mg	0 to 200 g	0.12 mg
D=1 mg	0 to 2 kg	5 mg
D=10 mg	0 to 10 g	60 mg
D=100 mg	0 to 10 g	150 mg
D=1 g	0 to 10 g	1.5 g
D=1 g	0 to 150 g	2 g
D=10 g	0 to 150 g	15 g
D=50 g	0 to 400 g	78 g
D=100 g	0 to 400 g	108 g
100 g	0 to 100 g	100 5
II. VOLUME		
1.Micopipette		
	10µl	0.09 µl
	20μl	0.09 µl
	50µl	0.09 µl
	100µl	0.10 µl
	200µl	0.10 μl
	500µl	0.82 µl
	1000μl	1.0 µl
	2000µl	2.0 µl
	5000µl	5.0 µl



2 Dinatto /Durattos	1 ml	0.004 ml
2.Pipette /Burettes ^s	1 ml	0.004 ml
	5 ml	0.007 ml
	10 ml	0.008 ml
	20 ml	0.008 ml
	50 ml	0.009 ml
	100 ml	0.010 ml
3. Measuring Cylinder/	5 ml	0.007 ml
Volumetric Flask/	10 ml	0.008 ml
Graduated Jar/ Can ^s	20 ml	0.008 ml
	50 ml	0.009 ml
	100 ml	0.010 ml
	200 ml	0.070 ml
	500 ml	0.08 ml
	1000 ml	0.09 ml
	2000 ml	0.10 ml
W. Du Charles		
III. DIMENSION		
1.Caliper	Up to 600 mm	13 μm
(Vernier/ Dial/ Digital)	Up to 1000 mm	21 μm
L.C.:0.01 mm		
L.C.:0.02 mm		
2.Depth Caliper	Up to 300 mm	9 μm
(Vernier/Dial/Digital)		·
L.C.:0.01 mm		
3.Height Gauge	Up to 300 mm	15 μm
(Vernier/ Dial/ Digital)	1	
L.C.:0.01 mm	Up to 100 mm	3 μm
4.External Micrometer	Up to 300 mm	8 μm
(Stick Type) Head	Cp to 300 mm	ο μπ
L.C.:0.001 mm		
L.C.:0.01 mm	12 4 25	
5.Internal Micrometer	12 mm to 25 mm	6 μm
(Stick Type) Head	12 mm to 300 mm	8 μm
L.C.:0.01		
Extension		
6.Depth Micrometer ^s	Upton 100 mm	2 μm
(Travers)	100 mm to 300 mm	6 μm
L.C.:0.01		
Extension	25 mm to 125 mm	1.6 μm
	>150 mm to 275 mm	3.3 μm
7.Setting Rod/ Extension Rod ^s		
	0 to 50 mm	1.1 μm
8.Dial Gauge		,
(Plunger Type)		
L.C.:0.001 mm	0 to 1 mm	1 μm
	0 to 2 mm	2.4 µm
9.Dial Gauge	0 10 2 111111	~ piii
(Lever Type)		
L.C.:0.001 mm	0 to 50 mm	1.2 um
	0 10 30 11111	1.2 μm
10.Bore Gauge ^s		
(Transmission Movement Only)		
11.Dial Thickness Gauge	0 . 100	
L.C.:0.001 mm	0 to 100 mm	8 μm
	1	



	T	T
12 Dial Caliner	3 mm to 100 mm	8 um
12.Dial Caliper (External Measurement)	0.5 mm to 100 mm	8 μm 3 μm
L.C.:0.01 mm		
13.Dial Caliper	0.5 mm to 5 mm Upton 1000 mm	4 μm 290 μm
	-	
(Internal Measurement)	Upton 50000 mm	580√L μm
L.C.:0.01 mm	0.1	Where L is in meters
14. Feeler Gauge	0.1 mm to 20 mm	1 μm
15.Standard Foils	3 mm to 100 mm	1.6 μm
16.Mesuring Scale	3 mm to 50 mm	1.2 μm
17.Mesuring Tape	50 mm to 160 mm	2.5 μm
	3 mm to 100 mm	1.0 μm
18.Cylindrical Measuring Pins	100 mm to 300 mm	4.9 μm
19.Cylindrical Setting Master	3 mm to 100 mm	1.7 μm
20.Snap Gauge/	100 mm to 300 mm	4.4 μm
Gap Gauge	3 mm to 100 mm	1.3 µm
21.Plain Plug Gauge/	100 mm to 300 mm	5.0 μm
OD Gauge		
22.Plain Ring Gauge/	3 mm to 100 mm	1.7 μm
OD Gauge		
23.Thread Plug Gauge/	100 mm to 300 mm	3.0 µm
(Effective Diameter)	100 mm to 300 mm	3.0 μm
(Metric Thread Only)		
24. Thread Plug Gauge/		
(Effective Diameter)		
(Metric Thread Only)	74 dB to 114 dB	0.7 dB
IV. ACOUSTICS	10 Nm to 100 Nm	1.9%
1. Sound Level Meter (1 kHz)	100 Nm to 300 Nm	1.7%
	300 Nm to 1000 Nm	5%
V. TORQUE		
1. Torque Wrench		
	0 to 35 Bar	0.011 % rdg
	35 Bar to 1200 Bar	0.013 % rdg
V. PRESSURE - HYDRAULIC	1200 Bar to 2000 Bar	0.09 %
Digital/Analogue pressure		
Gauges/Indicators, Pressure		
Transmitters, Pressure Switch, Pressure	0 to 35 Bar	0.017 %
Recorders	0 to 33 Bai	0.017 70
100014015	6 kPa to 60 kPa	8.4 Pa
PRESSURE –	60 to 600 mbar	0.084 mbar
PNEUMATIC/VACUUM	0 to 200 mmWC	0.14 mmWC
1. Digital/Analogue pressure	200 mmWC to 2000	1.33 mmWC
Gauges/Indicators, Pressure	mmWC	0.84 mmWC
Transmitters, Pressure Switch	600 to 6000 mmWC	0.08 % rdg
2Digital/Analogue pressure	0 to -0.93 bar	
Gauges/Indicators, Manometers,		
Magnetic Gauges, Pressure		
Transmitters, Pressure Switch		
Digital/ Analogue Vacuum		
Gauge/Indicator, Vacuum Transmitter	0.06 bar(Abs) to 35 bar	0.17 % to 0.057 %
	(Abs)	
PRESSURE – ABSOLUTE		
<u> </u>	I	I



Digital/Analogue Pressure Gauge/Indicator, Pressure Transmitter, Pressure Switch		
VI. SPEED (RPM)	5 rpm to 99999 rpm 100 rpm to 10000 rpm 5 rpm to 10000 rpm	0.53 rpm to 21.1 rpm 0.23 rpm to 2.4 rpm 0.6 rpm to 2.4 rpm
1.Tachometer – Non – Contact Type 2.Tachometer – Contact Type 3.RPM measurement (Centrifuge M/C)	0.2 N to 500 kN	0.47%

THERMAL

Parameter / Test	Range	Calibration Measurement Capability (±)
I. TEMPERATURE		Topics of ()
1.RTD/PRT/ Thermocouple Sensor With or without Indicator, Glass / Digital Thermometer, Dial Thermometer, Temperature Transmitter With Sensor 2.RTD/PRT/ Thermocouple Sensor With or without Indicator,	-196°C -95°C to -38°C -38°C to 250°C	0.05°C 0.07°C 0.035°C
Temperature Transmitter With Sensor	250°C to 600°C	1.5°C
3.RTD/PRT/ Thermocouple Sensor With or without Indicator, Temperature Transmitter With Sensor	600 °C to 1200 °C	2.3°C
Non-Contact Type Infrared Thermometers, Pyrometers,	-15°C to 100°C 100°C to 500°C	0.33°C
Thermal Imager 2. Freezers, Oven,		1.1°C
Environmental Chamber, Incubator, BOD	95°C to 0°C	0.067°C
Incubator, Liquid Bath, Dry Block	0°C to 600°C	1.5°C
Furnace,(Using Single Point Calibration)	600 °C to 1100 °C	2.3°C
 Muffle Furnace, Dry Block Calibrator(Using Single Point Calibration) Environmental Chamber, 	-95°C to 300°C	1.43°C
Temperature Furnaces, (Using 9-Point Sensor)		



II. SPECIFIC HEAT & HUMIDITY	10% RH to 95% RH@ 25°C	0.51 % RH
HOMBIT I	10 °C to 50 °C@ 50 % RH	0.36 °C
5. Relative Humidity Sensor with Indicator, Relative Humidity Transmitter With sensor, Hygrometers	10 % RH to 95 % RH	0.51 % RH
6. Humidity Calibrator /Generator / Chamber		



List of Reference Standards-Calibration ELECTRO -TECHNICAL

Make / Model		Parameter/ Range/	/ featu	res/ Best	Accurac	cy
Multifunction		DC Voltage : 0 to ±				
Calibrator		ppm			,	
Make : Fluke	Control United	AC Voltage: 1 mV	to 102	0V 10 Hz	to 500 kF	17
Model: 5520A	Topic as and	Sine Accuracy: ±1			10 300 KI	12,
Model . 3320A					. 100	
		DC Current : 0 to ±				pm
		AC Current : 29 mA			Hz to 30	
		kHz, Sine, Accuracy				
		Resistance :0 to 110	$0 \text{ M}\Omega$, Accurac	$y:\pm 28$	
		ppm				
		Capacitance: 19 nF	to 110	mF. Accu	ıracv:	
		±0.25 %		,	,	
		Thermocouple Sour	ce and	measure	· - 250°C	to
		+2316°C Accuracy:			. 230 C	10
		RTD Source : -200°	C 10 +	800°C, A	ccuracy:	±
		0.03C				
		DC Power: 10.9 mV	V to 20	$0.5 \mathrm{kW}$, A	ccuracy:	±
		0.023 %				
		AC Power: 10.9 m	W to 2	0.5 kW, 4	5-65 Hz,	
		PF=1				
		Accuracy: ±0.08%	of sett	ing		
		Scope Function: 600				
8.5 Digit Reference Multimeter		DC Voltage: 0 to ±1			v: ±3nnm	
Make : Fluke		AC Voltage: 2 mV				(H ₂
Model: 8508A	*10 000 071 6u	Accuracy: ±65 ppn		30 v, 1 1	12 10 1 11	1112
Nicuel : 6500/1		DC Current : 0 to ± 2		A course	7 ±12 nnm	
	DESCRIPTION BUSINESSEE	AC Current : 2 µA				
				A, 1 112	. 10 100 K	XIIZ
		Accuracy: ±250 pp		o .	. 0	
		Resistance : $1 \text{m}\Omega$ to	20 G	Ω, Accura	$cy: \pm 8 pp$	pm
AC Measurement Standard	- 55/92:- 120	ACV Measurement			000V, 10	Hz
Make : Fluke		to 1 MHz, Accuracy	y:± 24	ppm		
Model : 5790A						
Precision AC Current Shunt	-	Absolute accuracy	DC	1 kHz	100	
(1mA)/ (10mA)/ (500mA)/		Shunt nominal	1	1 KIIZ	kHz	
(1A)/ (10A)/ (20A)/		Current: in ± ppm			KIIZ	
Make: Fluke			20	55	150	-
		1 mA		26	26	+
		10 m 4	20		∠0	1
Model :A40B	6	10 mA	20		20	
	*	500 mA	21	27	28	-
		500 mA 1 A	21 21	27 27	31	
	\$	500 mA 1 A 10 A	21 21 26	27 27 37	31 92	
	5	500 mA 1 A	21 21	27 27	31	
	5	500 mA 1 A 10 A	21 21 26	27 27 37	31 92	
		500 mA 1 A 10 A	21 21 26	27 27 37	31 92	
	•	500 mA 1 A 10 A	21 21 26	27 27 37	31 92	
	•	500 mA 1 A 10 A	21 21 26	27 27 37	31 92	
	•	500 mA 1 A 10 A	21 21 26	27 27 37	31 92	



Make / Model		Parameter/ Range/ features/ specification
Phase Meter Make : Clarke-Hess Model :6000A	263.025	Phase Ranges: 0° to 360° or ±180° user selectable Amplitude Range: 10mV to 630 Vrms Accuracy: 0.02°
Universal Power Analyzer Make : Voltech Model : PM6000	111 111 111 111 111 111 111 111	DC Voltage Range: 1 to 1000 V DC Current Range: 100 mA to 30 A AC Voltage Range: 1 to 700 V AC Current Range: 100 mA to 30 A Power Measurement Range: 100 mW to 30kW Accuracy: ±0.02 % rdg
Timer/ Counter/ Analyzer Make: Pendulum Model: CNT 90 bridge	OT-918 Trade (Control of the Control	Range: 0.002Hz to 3GHz stability: 0.01ppm Resolution: 12digits
Standard Resistor, Make: Fluke Model:742A-1/742A-10/ 742A-100/742A-1k/ 742A-100k/742A-1M	DAZA-TOA NO STACK CONTACTO CLIMITENT SCHOOL CL	Stability: ± 8 ppm Accuracy: < 2.5 ppm
Precise Air Bath Make: Sakav	PRECISE AIR BATH	



Make / Model Parameter/ Range/ features/ specification			fication		
Multifunction		DC Voltage:			
Calibrator	Control of the Party of the Par	AC Voltage:	$0.22 \mu V$	& 1100V A	Accuracy ±
Make : Fluke	250	45.0 ppm			
Model : 5720A		DC Current :			35 ppm
		AC Current:			
		10 Hz to 10 k			
		Resistance :0	to 100 MΩ	2, 18 values	in x1 and x
		1.9			
		With best Acc	curacy ± 10	ppm	
High Accuracy all-Purpose		Inductance	Accurac	Test	Test
Decade Inductor	(IFT)	per step	y	frequency	voltage
Make: IET	A see some some one some	100 μΗ	±2%	1000 Hz	10 mV
Model : 1491G		1 mH	±2%	1000 Hz	10 mV
		10 mH	±1.6%	500 Hz	20 mV
	000	100 mH	±0.8%	200 Hz	20 mV
		1 H	$\pm 0.8\%$	100 Hz	40 mV
High Stability Decade Megohm	- Nationalities	Range: 0.1 Mg	20hm to 10	ΤΩ	
Box	- Application of Columbia Statistical Williams (Columbia)	Accuracy: +/- 2			
Make : Vaiseshika		,			a Ohm to 10
Model: 8400 HV		$T\Omega$, Stability :	0.5%		
	Service Committee				
77				D 13.6	2000
Electrometer Make: Keithley	+1.0023e+15 Ω-cm	Resistance Me		Range: IMS	2 to 2001Ω ,
Model: 6517B	RH: 55 % External Teap:123.19C source country	Best accuracy:	0.13 70		
Woder : 0317B					
	(and some) (cont some) (cont some)				
1 DC C + C		D 1 4 4	100 4		
AC and DC Current Source Make KEITHLEY	OGOOOD SWA CONTRACTOR	Range: 1 nA to Best Accuracy:			
Model:6221	PIRE AMMONSTRATES OF CHANGE OF CHANG	Best Accuracy:	0.03 %		
1410de1 .0221	TOTAL				
	CONT DOOR OF THE THE PARTY OF T				
Ultra-Precise "Air" Resistance		Resistance Ran	ge 1mΩ to 1	GΩ	
Standards	9334A-0.001	Accuracy: < 2	_		
Make: Guildline instruments	GUILDANE RESISTANCE STANDARD	, ,			
limited	NOMINAL RESISTANCE :0.001 () MAXIMUM VOLTAGE :0.01 V MAXIMUM CURRENT : 10 A				
Model: 9334A-0.001 Ω / 0.01 Ω /	MAXIMUM CURRENT: 10 A				
0.1 Ω/ 1G Ω					
Precision LCR Meter		Range: C: 1pF			
Make: IET Labs	100 to Capacy*		0 μH to 10 I		
Model: GenRad 1693	93767 - 2966 with	R: 0.	1 Ω to 10 M	Ω	
	Top ()				
	0 0 0 0	Accuracy: ± 0.0	02 %		
		110001009. = 0.0	·= /·		



Make / Model		Parameter/ Range/ features/ specification
AC/DC Transfer Standard Make: Fluke Model:792A		Range: 2 mV to 1000V, 10 Hz to 1 MHz Accuracy: : ± 10ppm
Direct Voltage Standard Make: Fluke Model:732B	DESCRIPTION THE REPORT OF THE PROPERTY OF THE	Output: 10V : ± 0.3 ppm, 1.018V: ± 0.8 ppm
High Accuracy Decade Capacitance Substituter Make: IET Model: Hacs-A-Z-A-10E-1pF	* 5 · 666	Range: 1 pF to 11,111 µF Accuracy: ± 0.05% + 0.5 pF Excellent Stability 100 ppm per year
3 Phase Portable Reference standard Make : Zera Model : MT320		Voltage measurement: 100 mV 300 V Current measurement: 1 mA12 A [5mA120 A] Accuracy: ± 0.05 %
Trans conductance Amplifier Make : Fluke Mode: 52120A		Output ranges: 2 A, 20 A, 120 A (100 A dc) Input current range: 200 mA, 200 mA, 120 mA (100 mA dc) Input voltage range: 2 V, 2 V, 1.2 V (1.0 V dc) AC accuracy ± 140 ppm DC accuracy ± 160 ppm
Reference Divider Make: Fluke Model: 752A	III AT THE PARTY OF THE PARTY O	Division Ratio 10:1 ±0.2 ppm: Input: 0 V to 100V Division Ratio 100:1 ±0.5 ppm: Input: 0 V to 1000V Range 10: 0 Input Voltage: 0 to 100 V Output Uncertainty: 0.2 ppm Range 100: 1 Input Voltage: 0 to 1000V Output Uncertainty: 0.5 ppm



Make / Model		Parameter/ Range/ features/ specification	
Automatic Instrument Transformer Test Set		Measuring Ranges:	
Model: AITTS – 98		: Ratio Error : 0 to ±20% Phase Error - 0 to ±0.2 radians (20 cr	d)
Make: ELTEL	100	O to ± 680 minutes	ad)
		Accuracy CT	
		Ratio Error : 0.6 of rdg \pm 10 ppm Phase Error : 0.6 of rdg \pm 10 μ rad	
		Accuracy VT	
		Ratio Error : $0.6 \% \text{ rdg} \pm 10 \text{ ppm}$ Phase Error : $0.6 \% \text{ rdg} \pm 10 \text{ µrad}$	
Standard Current Transformer Make: ELTEL Model: 2509	A STATE OF THE PARTY OF THE PAR	Range: 5 A to 6300 A/ 5 A Class: 0.005	
6.5 Digit Precision Multimeter	PALACE PRESIDENT MEDICAL PROPERTY OF THE PROPE	V DC Range: 100 mV to 1000 V Accuracy: 0.0024 + 0.0005	
Make: Fluke Model: 8846 A		V AC Range: 100 mV to 1000 V Accuracy:0.06 + 0.03	
Multifunction Electrical Tester Calibrator		Low Resistance	
Make: Fluke Model: 5320A	Superior Surgery Control Contr	Ranges: $100 \text{ m}\Omega$ to $10 \text{ k}\Omega$ Specification: $\pm 0.2 \%$ of setting	
1410de1. 332071		High Resistance Ranges: 10 kΩ to 100 GΩ	
		Specification: ± 0.2 % of setting	
Turns Ratio Standard Make: Quadeant	S. S.	Ratio Range: 0.8 to 2000 Test voltage: 110V Max	
Model: QTRS-1	9 American	Resolution: 0.01 at factor 1	
		Accuracy: 0.5%	



List of Reference Standards-Calibration THERMAL

Make / Model		Parameter/ Range/ features/ specification
Deep Well Compact Baths Make : Fluke Model : 7381/6331		Range (6331) 35 °C to 300 °C Stability (6331) ±0.007 °C at 100 °C (oil 5012) ±0.015 °C at 300 °C (oil 5017) Uniformity(6331) ±0.007 °C at 100 °C (oil 5017) Uniformity(6331) ±0.017 °C at 200 °C (oil 5012) ±0.017 °C at 200 °C (oil 5017) Range (7381) -80 °C to 110 °C Stability Stability (7381) ±0.006 °C at -80 °C (ethanol) ±0.005 °C at 100 °C (oil 5012 Uniformity (7381) ±0.007 °C at -80 °C (ethanol) ±0.007 °C at -80 °C (ethanol) ±0.007 °C at -80 °C (ethanol) ±0.007 °C at 0 °C (ethanol)
Ultra-Cool Field Metrology Well Make: Fluke Model: 9190A	P-UKE	Temperature Range: -95 °C to 140 °C Stability: ± 0.015 °C full range Axial uniformity at 40 mm: ± 0.05 °C full range Radial uniformity: ± 0.01 °C full range
Thermocouple Furnace Make: Fluke Model: 9150	1842 E	Temperature Range: 150 °C to 1200 °C Stability: ±0.5 °C Well-to-Well Uniformity: ±2.5 °C (Insert "C" at 1200 °C)



Make / Model		Parameter/ Range/ features/ specification
Humidity Calibrator Make: Michell Model: S904		Humidity Generation Range: 10 - 95% RH Humidity Stability: ± 0.2% RH Temperature Generation Range: +10 to +50°C Temperature Stability: ±0.1°C
Secondary Reference PRT Make: Fluke Model: 5616		Temperature range: -200 °C to 420 °C Excellent stability: ± 10 mK Accuracy: 0.011 °C
Handheld Thermometer Readout Make: Fluke Model: 1524	18.549°C 27.93°C	PRT'S Range: - 200 °C to + 420 °C Accuracy: ± 0.011 °C Thermocouple range: - 200 °C to 2300°C Accuracy: ± 0.22 °C
High-Temperature Metal-Sheath SPRT Make: Fluke Model: 5699		Temperature Range: -200 °C to 670 °C Drift rate: < 0.008 °C/year
Type R and Type S Thermocouple Standards Make: Fluke Model: 5650		Range: 0 °C to 1450 °C Long-Term Stability: ± 0.5 °C to 1100 °C ± 2.0 °C to 1450 °C



Make / Model		Parameter/ Range/ features/ specification
Super-DAQ Precision Temperature Scanner Make: Fluke Model: 1586A		PRT/RTD Temperature Range: -200 °C to 1200 °C (depending on the sensor) Resistance Range: 0Ω to $4 \text{ k}\Omega$ PRT/RTD Resistance Accuracy: 0.002 % PRT/RTD Temperature Accuracy: 0.002 °C to 0.2 °C in the range: -200 °C to 600 °C . Thermocouple Range: -270 °C to 2315 °C (depending on the sensor) Accuracy: $\pm 0.20 \text{ °C}$
Precision Infrared Calibrators Make: Fluke Model: 4180/ 4181		Temperature Range (@ 23 °C ambient, 0.95 emissivity): -15 °C to 120 °C (4180) 35 °C to 500 °C (4181) Stability: 4180 ± 0.10 °C at -15 °C ± 0.05 °C at 0 °C ± 0.10 °C at 120 °C 4181 ± 0.05 °C at 35 °C ± 0.20 °C at 200 °C ± 0.40 °C at 500 °C Uniformity (2.0 in dia of center of target)2 4180 ± 0.10 °C at -15 °C ± 0.10 °C at 0 °C ± 0.20 °C at 200 °C 4181 ± 0.10 °C at 35 °C ± 0.20 °C at 120 °C 4181 ± 0.10 °C at 35 °C ± 0.25 °C at 250 °C ± 0.50 °C at 500 °C
Series Graphic Recorder Make: Chino	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	PRT/RTD Range: - 200 °C to 600 °C Thermocouple Range: -270 °C to 2315 °C PRT/RTD input Accuracy: ± 0.3 °C Thermocouple input Accuracy: ± 0.5 °C
Versatile handheld indicator Make:Rotronic Model:HYGROPALM:HP22 -A with HC2-S Probe	INEE CON	Operating Range: -10 °C to 60 °C / 0 – 100 % RH Accuracy: 0.1 °C/ 0.8 % RH



Make / Model		Parameter/ Range/ features/ specification
Portable Calibration Bath Make: Fluke Model: 7109A	FLIKE DE LA CONTROLLA DE LA CO	Range: -25 °C to 140 °C , Stability: 0.01 °C , Uniformity: 0.02 °C
Ex "Stik" Thermometer Readout Make: Fluke Model: 1551A	20847	Range: -50 °C to 160 °C , Resolution: 0.001 °C Accuracy: ± 0.05 °C
Thermocouple Calibration Furnance Make: Fluke Model: 9118A		Range: 300 °C to 1200 °C , Stability: \pm 0.1 °C , Uniformity: \pm 0.1 °C to \pm 0.25 °C
Thermocouple Calibration Furnance Make: Fluke Model: 9142A		Range: -25 °C to 150 °C, Stability: ± 0.01 °C, Uniformity: ± 0.05 °C



List of Reference Standards-Calibration DIMENSION

Make / Model		Parameter/ Range/ features/ specification
Universal Length Measuring Machines Make: Octagon Model: LMM 300 T	Octagon Lorenty	Range: upto 300 mm Accuracy: ±0.7 μm
Measuring Scale & Tape Calibration Systems Make: Octagon Model: MSTC 1000	Tons.	Measuring Range - Absolute: 1000 mm Accuracy: \pm (10 \pm L/100) μ m
Slip Gauge Set Make: Mikronix Model: M121/1, M88/1, M10, M8		Range: 0.5 mm to 500 mm Accuracy: As per ISO/FDIS 3650 : 1998 (E)
Caliper Checker Make: Aditya Model: CC3-1000		Range: 0 to 1000 mm Accuracy: 0.010 mm
Profile Projector Make: Mitutoyo Model: PJ-A3000	Mitchyo Mitchyo	Range: 200 x 100 mm XY Stage, Magnification: 10 X , 20 X & 50 X , Magnification Accuracy: ± 0.1 %



List of Reference Standards-Calibration TORQUE

Make / Model	Parameter/ Range/ features/ specification
Electronic Torque Wrench Tester Calibrator Make: Kudale	Measuring Range : 0-100 N-m, 0-300 N-m & 0 – 1000 N-m Accuracy: ± 1 %

List of Reference Standards-Calibration SPEED

Make / Model		Parameter/ Range/ features/ Specification
Pocket Laser Tech Make: Monarch Model: PLT 200		Range(s): Optical: 5 to 200,000 RPM Accuracy::Optical:±0.01% of reading Contact:±0.05% of reading (rpm
Tachometer Calibrator Make: Zeal Model:ZSDTC	CZEAL DIGITAL TACHOMETER CALIBRATOR OPPORA, COUNTY OFFICA, C	Range:1 rpm to 1 Lac rpm Accuracy: 0.01%

List of Reference Standards-Calibration VOLUME

Make / Model	Parameter/ Range/ features/ Specification
Digital Weighing Balance Make: Shimadzu Model: AUW 220D, Model: UX 6200H Model: BX 22KH	Capacity: 0 to 220g (Model: AUW 220D) 0 to 6200g(Model: UX 6200H) 0 to 22 kg (Model: BX 22KH) Accuracy: Class I



List of Reference Standards-Calibration ACOUSTIC

Make / Model	Parameter/ Range/ features/ Specification
Sound Level Calibrator Make: Gen Rad Model:1986	Range: 74 dB, 84 dB, 94 dB, 104 db & 114 dB @ 1 KHz Accuracy: ± 0.5 dB

List of Reference Standards-Calibration PRESSURE

Make / Model		Parameter/ Range/ features/ Specification
Pressure Controller/Calibrator Make: Fluke Model: PPC4	100.000 Vs - 5.600 vs	Range: -1 bar to 0 barG, 0 to 16. barG, 0.06 bar 1.6 bar Abs. Accuracy: ± 0.008 % rdg or ±0.0024 %FS (whichever is greater)
Hydraulic Deadweight Testers Make: Fluke Model: P312 XT-BAR		Range: 1 bar to 35 bar Accuracy: ± (0.008 % Rdg or 0.0008% FS) Range: 20 bar to 1200 bar Accuracy: ± (0.008 % Rdg or 0.0004 % FS)
Reference Pressure Monitor Make: Fluke Model: RPM4 A200Ms-L	14.0280 PSi a ZHi R 0.0002/S	Range: 0 to 2000 bar Accuracy: ±(0.005 % rdg or 0.0015 % FS, whichever is greater)

List of Reference Standards-Calibration FORCE

Make / Model	Parameter/ Range/ features/ Specification
Uni-axial Testing Machine Make: FIE Model: UTN60	Accuracy: ± 1 % Capacity: up to 600kn



List of Reference Standards-Calibration FLOW

Make / Model		Parameter/ Range/ features/ Specification
Gas Flow Standard meters & Controllers Make: Alicat Scientific Model: M series	+8.88 % AMERICAT	Range: 0 to 5 SCCM 0 to 50 SCCM 0 to 500 SCCM 0 to 1 SLM 0 to 50 SLM 0 to 500 SLM 0 to 4000 SLM Accuracy: ± 0.4 % + 0.2 % FS Suitable for 27 no's Gases Standard media used for calibration N2 or Air
Portable Ultrasonic Flow Meter, Make: GE Model: Trans Port PT878		Range: 0 to 500 m3/hr Accuracy: ± 0.5 % Rdg Clamp-on Pipe Transducer suitable for 1/2"to 24"pipe portable liquid flowmeter is a complete portable ultrasonic flow metering system for measurement of: Potable water, Wastewater, Cooling and heating water, Ultrapure water and liquids, Water/glycol solutions, Crude oil, Refined hydrocarbons, Diesel and fuel oils, Lubricating oils, Chemicals, Beverages, Other liquids

List of Reference Standards-Calibration MASS

MASS		
Make / Model		Parameter/ Range/ features/ Specification
Austenitic S. S. Laboratory Weights Make: Weigh India		Range: 1 mg to 200 g Accuracy: Class E1 Range: 500 g to 20 kg Accuracy: Class F1



MAJOR PRODUCTS CALIBRATED/ CALIBRATION DONE

ELECTRO - TECHNICAL

Multifunction Calibrators , DC Voltage Reference Standards, 6 ½, 71/2, 8½ Digit Digital Multimeters, HV Testers/ Probes/ Meters, Power/Energy Calibrators, Power Analyzers, Power Quality meters, Watt hour meters, Signal Generators, Frequency Standards, Frequency Counters, Resistance Standards/ Decade, Capacitance/ Inductance Standards, LCR Meters & Bridges, Insulation testers, High Mega ohm meters, AC/DC shunts, Rogoswi coils/ Current transducers, Ammeter, Voltmeter, Temperature Indicator/Controller (By Electrical Simulation), Process Calibrators, Hipot Testers, Battery Testers, Clamp on meters, Medical safety Testers, High Voltage Breakdown testers, HV Probes, Impendence Resistance Testers, Oscilloscopes, Memory Recorders, ECG Simulators, Tachometers, Timer, Stop watch, Time totalizers, Scope Calibrators, V, I & R Calibrator, Loop Calibrator, Earth testers, RCD Testers, Leakage Current testers, Current Transformers, Voltage Transformers, CT Burdens, PT Burdens, 1 ph/3 ph Energy meters.

THERMAL

Temp. Sensors (RTDS/TC/Thermistors), Temperature transmitters, Temperature Recorders, Indicators, Baths, furnaces, Environmental chambers, ovens, deep freezers, incubators, controllers, gauges, walk-in chambers, refrigerators, glass Thermometers data loggers, data acquisition systems, scanners etc., Humidity sensors with or without indicators, Humidity Generator/ Chamber/Calibrators, Temperature Transmeters, humidity Transmeters

PRESSURE

Pressure Dial/Digital gauges & Calibrators, Manometers, Magnelic Gauges, Low pressure calibrators, Transmitters, pressure switches, Pressure recorders etc.(Hydraulic & Pneumatic)

SPEED

Tachometers (Contact Type/Non-Contact type), Stroboscope, Centrifuge machine

ACOUSTICS

Sound level meters, Microphones

TORQUE

Torque wrenches, Torque Screw Drivers

MASS

Weighing Scale, Weighing Balance, Spring Balance, Fractional weights, Weights

VOLUME

Micro-pipettes, Pipettes, Burette, Glassware's, Beakers, Cylinders, Jars etc

FLOW

Liquid Flow meters, Gas flow meters

DIMENSION

Caliper (Vernier/ Dial/ Digital), Depth Caliper (Vernier/ Dial/ Digital), Height Gauge (Vernier/ Dial/ Digital), External Micrometer (Stick Type) Micrometer Head, Internal Micrometer (Stick Type) Head, Depth Micrometer, Setting Rod/ Extension Rod, Dial Gauge (Plunger Type), Dial Gauge (Lever Type), Bore Gauge (Transmission Movement Only), Dial Thickness Gauge, Dial Caliper (External Measurement), Dial Caliper (Internal Measurement), Feelar Gauge, Standard Foils, Measuring Scale, Measuring Tape, Cylindrical Measuring Pins, Cylindrical Setting Master, Snap Gauge/ Gap Gauge, Plain Plug Gauge/ OD Gauge, Plain Ring Gauge/ OD Gauge, Thread Plug Gauge/ (Effective Diameter) (Metric Thread Only), Thread Plug Gauge/ (Effective Diameter) (Metric Thread Only), Push – Pull Gauge, 3-point micrometers, Slip gauge sets etc

FORCE

Force Measuring Instruments, Force Transducers, Proving rings, Load Cells, Push-Pull Meters, Force Gayes



ABOUT VALIDATION

About Validation

Through its Equipment & Process Validation Group, AUTOCAL executes and manages projects ranging from validation of stand-alone automated equipment and systems to start-up, commissioning and validation of new facilities.

The Challenge

Changing regulatory expectations coupled with new technologies, new equipment, and new products all lead to short-term workloads that can easily exceed your current resources. Comprehensive regulatory knowledge, in-depth understanding of process & equipment are vital for development of practical and cost-effective validation strategy. A business partner with this level of expertise, as well as the ability to employ proven, systematic approaches is critical for ensuring the success of the business initiatives you undertake.

The Solution

Whether your business is biotechnology, pharmaceuticals, aseptic manufacturing or solid dosage forms, AUTOCAL has the expertise & resources to help you define and achieve sustainable results. Our teams have extensive experience with utilities (BMS, HVAC systems), sterile manufacturing processes and change control. Our equipment validation experience includes packaging equipment such as blister formers, tablet fillers & labelers, manufacturing equipment such as granulators, film coaters and autoclaves, and biotechnology equipment such as bioreactors and lyophilizes.

Implementing Sound Strategies

AUTOCAL believes that a successful facility startup requires significant input from client-engineering, process, manufacturing and validation personnel. Our teams are accustomed to asking the right questions up front knowing that it is much more efficient to create and approve specifications without making changes during construction that will increase costs, introduce time delays and cause revision or repetition of validation activities. AUTOCAL develops and implements sound validation strategies and rationale prior to the start of formal validation activities, providing the highest level of assurance that systems and equipment meet required specifications. This approach is one way AUTOCAL helps reduce overall project costs.

AUTOCAL provides contract services, as do other firms, to the industry. We differentiate ourselves in several ways from our competition. We provide a team of professionals who have worked in the industry and all have hands-on experience with validation activity. We build partnerships and prioritize teamwork too efficiently and cost effectively provide benefit to your company. We want a win-win result in every business relationship. We are a dedicated validation group offering greater experience than is available from our competitors and offer superior service. Our strengths have been our relationships with customers, the dedication of our employees and our expertise in the field of validation technology. We believe that the combination of our resources and expertise with your internal capabilities is the most effective approach to economical solutions.



Welcome to the Validation Services at AUTOCAL. We specialize in providing our customers in the Pharmaceutical, Biotechnology, and Medical Devices industries with cGMP validation services. We provide validation services for Equipment's, Computer, Facility, HVAC and more. We are aligned with our customer's compliance and validation needs.

Our primary area of service is fulfilling validation, regulatory and compliance services from stand-alone automated equipment to start-up, commissioning & validation of new facilities, AUTOCAL achieves results through a comprehensive portfolio of services:

- •Calibration: auditing established programs for compliance and development of new Programs;
- •Development and execution of master plans;
- •Development of guidelines and standard operating procedures;
- •Development of User Requirements, Functional Requirements and design specifications;
- •Factory and site acceptance testing and vendor audits;
- •Installation, operational and performance qualification protocol development and execution;
- •Cleaning validation: bulk actives, pharmaceuticals and biological;
- •Change control design, implementation and administration;
- •Preparation of regulatory submissions technical summaries and documents;
- •Revalidation and process improvement activities;
- •Audits of internal/external cGMP compliance;
- •Compliance gap assessments

Our department offers a full range of Validation Services such as:

- Equipment Validation
- •Steam Quality Test
- •PLC Validation
- •HVAC Validation
- •Compressed Air Line Validation



EQUIPMENT VALIDATION

Equipment Validation ensures that an instrument is appropriate for its intended use. Typical validation phases are:

- Design Qualification (DQ) for setting up the functional and performance specification
- Installation qualification (IQ) for performing and documenting the installation in the selected user environments.
- Operational qualification (OQ) for testing the equipment in the selected user environment to ensure that it meets the previously defined functional and performance specifications.
- Performance qualifications (PQ) for testing that the system consistently performs as intended for the selected application.
- Revalidation & Temperature Mapping
- Temperature Distribution Study.

AUTOCAL is well equipped with More Than 3000 Wireless data Logger for area Mapping, 24 wired loggers and more than five hundred sensors to provide temperature mapping services for the following:

Sterilizers:

Autoclaves, Dry Heat Sterilizers, EO Sterilizers Tunnel.

Stability Study:

Humidity chambers, Walk In chambers, Ware House and rooms.

Equipment's:

Incubators, BOD Incubators, Refrigerators, Freezers, Lyophilizes, Ovens and Muffle Furnace Fermenters.





The data logged from the mapping of the above equipment is further processed to give analysis reports like F₀ values, lethal rate, standard deviation, lag time in case of autoclaves and Mean Kinetic temperature value, Hot spot and cold spot identification in case of other equipment's and rooms. This process can be certified by CFR21 Part of 11 Compliance software.

Autocal also provides qualification services for all other manufacturing / utility and packing equipment's.



FACILITY QUALIFICATION AND VALIDATION

Pharmaceutical facilities are required to comply with the FDA's current Good Manufacturing Practices (cGMPs) and other regulatory bodies. The validation effort documents that a facility's design meets the intent of the cGMP's.

Our key competencies lie in state-of-the-art laboratories, cGMP areas, pilot plants, facility automation and advanced process controls and specialized utility systems e.g. for sterile manufacturing.

AUTOCAL Validation team are experts at new facilities, performing HVAC, Validation, and validating other systems as part of a facility Qualification/validation utilities/ facility systems:

Water system

- USP purified
- Water for injection
- Reverse Osmosis
- Deionization
- Ozonation
- Clean Steam
- Clean in place/ Steam in place

Cold Chain Mapping

Cold chains are universally uses in the food, pharmaceutical and some chemical shipments. The **cold chain** is a logistical system which manages temperature, often between 2° to 8° Celsius. It is a series of distribution activities which continuously maintain this temperature in order to protect the temperature-sensitive cargo from manufacture to the point of consumption. Unique to fresh produce cargoes, the cold chain requires to additionally maintain product specific environment parameters-which include air quality levels (carbon dioxide, oxygen, humidity and others) which makes this the most complicated cold chain to operate.

It is important for every cold storage to have a refrigerant, a valve, a vapour barrier and insulation during the cargo shipping, leakages may occur from the containers and when this happens, the temperature may increase which can lead to spoilage as well. In order to avoid such kind of problems, the containers have to be filled with insulators.

The primary segments of an integrated cold chain, which include;

- 1) Packing and cooling fresh food products,
- 2) Food processing (i.e. freezing of certain processed foods,
- 3) Cold storage (short or long term warehousing of chilled or frozen foods),
- 4) Distribution (cold transport and temporary warehousing under temperature controlled conditions),
- 5) Marketing (refrigerated or freezer storage and displays at wholesale markets, retail markets and foodservice operations) can be simple or complex, low tech or high tech.

Cold chain logistics is the planning and management of the interactions and transitions between these five segments, in order to keep product at their optimum temperature for maintenance of quality, food safety and prevention of waste and economic losses. Speed is often the key to success when handling and marketing perishable product.

A cold chain is a temperature-controlled supply chain. An unbroken cold chain is an uninterrupted series of storage and distribution activities which maintain a given temperature range.



STEAM QUALITY TEST

The Steam Quality Testing service was created for manufacturers and processors of sterile products and medical devices that are required to meet international standards for steam sterilization. We have equipped ourselves with latest equipment's for steam quality test, for testing quality of pure steam PSG at user point like Autoclave, Sterilizers, Manufacturing tanks, SIP, Liophalizer, etc. It is Regulatory requirement to test the quality of steam periodically.

The testing involved in Facility Utility pure steam validation requires a continuous supply of saturated steam; preferably sourced from the actual line that supplies your sterilization systems. Too high a level of non-condensible gases will prevent the attainment of sterilization; too little moisture carried in suspension may allow the steam to become super-heated during expansion into the chamber, while excess moisture may cause damp loads. Where steam systems are either routinely or irregularly shut down, large quantities of air will be present in the distribution system on restarting.

Why Steam Quality Test is require?

- To Detect Non-condensable Gas, Dryness, Superheat
- To qualify plant/utility/clean/pure steam generators, steam distribution systems and steam supplies to autoclaves in accordance with cGMP (Orange Guide), HTM 01, HTM 2010: 1994, HTM 2031: 1997, EN 285: 2006, AAMI ST79, ISO 14937:2000, ISPE Baseline Guide for Steam and Water and PDA Technical Reports No. 1 & 48.
- To test your physical steam quality with assured and repeatable results in no time at all.
- To satisfy your Regulator/QA immediately.

The steam supply required for moist heat sterilization needs to be within the specifications set out in EN285:2006. This is:

Non-Condensable Gases: Required Result = 3.5%

Air and other gases such as Carbon Dioxide, which do not condense under the conditions of steam sterilization.

Superheat: Required Result = 25°C

Superheat steam is a steam at a temperature which is greater than its boiling point for its pressure. It will not condense until its temperature drops to its boiling point and until this occurs the moisture required for sterilization cannot be produced.

Dryness Value: Required Result = 0.90 for Non Metal / 0.95 for Metal Loads

Wet steam can cause wet loads which in turn can be considered un-sterile. In today's world, confidence of sterility is paramount. Modern packaging prevents re-infection when dry but bacterial retentive properties will be dramatically affected by the presence of moisture. A value of 1 represents steam that is completely dry and free of moisture. Steam Quality Testing Kit



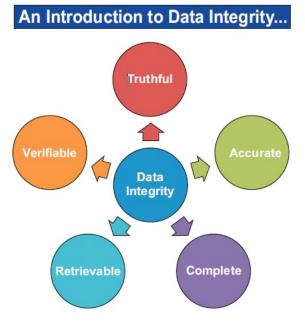


PLC SERVICE

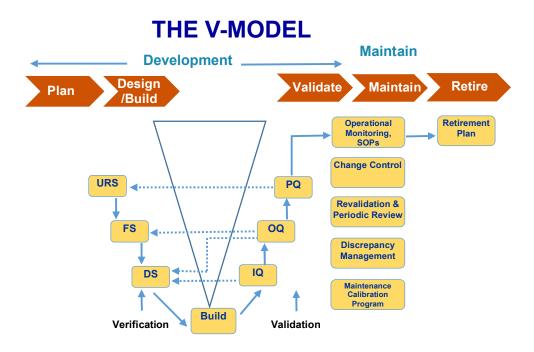
Autocal Solution Pvt. Ltd. offers Turnkey Validation services compliant to 21CFR part 11/Annex 11 regulations in pharmaceutical industry. We undertake complete turnkey Validation from basic to detail on PLC and computerised systems based on GAMP guidelines.

Services Offered:

- ▲ Programmable Logic Control (PLC)
- ▲ Supervisory Control & Data Acquisition (SCADA/DAS) Systems
- ▲ Computer System/PLC Validation
- Validate Building Management (BMS)
 & Environment Control Systems
- ▲ Human Machine Interface (HMI/MMI) System
- ▲ Distributed Control Systems (DCS)
- ▲ Computer Based Systems in Laboratory
- Data Acquisition Software for different Process / Equipment's.



Good CSV can help you Reduce CAPA, Change Control, Batch Recall and give all people on earth a good Peace of mind including your shareholders. Data Integrity, Security, Patient safety and Product Quality is a key thing.





OUR SUPPORTS/ HIGHLIGHTS

- ➤ Most appropriate & latest GAMP, PIC/S, 21 CFR Part 11, EU Annex 11 guideline based Compliance services for your new / legacy systems.
- Comprehensive GAP & RISK Analysis.
- Organising and Executing Activities at client's plants.
- Preparation of Protocols & Validation related Documentation as per Regulatory & Clients requirements.
- ➤ Accountable for completing activities as per Schedule, Proper Coordination with Client.
- ➤ Understanding Clients requirement. Preparation for Vendor Audits requires a thorough knowledge/ understanding of validation principles and quality philosophies.
- ➤ Coordination of QA and QC programs and functions.
- ➤ Implementation of company's first self-directed work teams resulting in a flat organization.
- Planning, development, and direction of Quality programs.

Computerized Systems that perform regulated functions must be qualified or validated. Computerized Systems may include networks (wired and wireless), workstations, operating system software, application software, equipment software, and interfaces with other computerized systems.

AUTOCAL offers a complete range of services for your computer validation needs and Complete Quality Assurance services for software implementation & validation projects.

- Preparation of Software Validation Document
- User requirement specification
- Execution of Validation Protocols and resolution of deviation
- 21 CFR Part 11 Gap Analysis remediation, and validation





HVAC Validation

Provides Clean Room / Area Validation services with complete set of latest Equipment's by experienced Engineers with sound knowledge. Our primary area of quality service is fulfilling validation, regulatory and compliance services from stand-alone automated equipment to start-up, commissioning and validation of new facilities.

HVAC (Heating, Ventilation & Air Conditioning) validation continues to be a source of anxiety for many manufacturers of pharmaceutical and biological products. HVAC validation is likely to be successful when good strategy and planning are involved in the process. AUTOCAL helps direct you in the right direction. There are many factors to consider in HVAC validation and it is best to take on a realistic approach based on good science, business and compliance sense. We are familiar with HVAC validation requirements and industry standard validation practices for your product forms, what documented evidence is needed for your HVAC Systems (e.g. drawings, specifications, balancing reports), and we know if your control systems are strong enough to be validated.

We then develop a general strategy consisting of the following factors:

- Classification of HVAC systems as GMP or non GMP systems.
- Determination of what documentation you have and what documentation you Need to create before validation begins.
- Development of targets for differential pressure, room air changes, temperature And humidity.
- Concentration of validation efforts on the areas where there is a direct on product impact.
- Validation of Building monitoring system that are connected to HVAC systems.

Complying with Standards:

- ★ ISO-14644-1,2,3
- ★ EU-GMP/ EC GMP
- **★** WHO-TRS-937
- **★** WHO-TRS-961
- ★ Schedule M













Compressed Air Line Validation

Clean Dry Air is essential for many different types of applications. Air compressors draw in large volumes of air from the surrounding atmosphere containing contaminants, the air compressor itself can also add contaminants. Process air contamination found in automotive spray paint air lines, powder coating air lines, pharmaceutical processing air lines, food processing air lines, instrument air lines and in nuclear facilities can affect product quality. A major problem in

compressed air systems is the presence of water, oil and solid contaminants which can affect air quality and lead to rust, scaling, instruments clogging, valves sticking and process contamination. Compressed Air is supplied for manufacturing process as well as for the operation of pneumatic controls for machine, instrument, spray system and other multiple uses.

The following parameters of compressed air system should be checked during the performance qualification.

AIR QUALITY IS IMPORTANT,

So have your compressed air tested periodically to assure:-

- 1. Protection of equipment and processes.
- 2. Safety for your employees
- 3. Energy efficiency of compressor
- 4. Lower operating and maintenance costs
- 5. Assure product quality
- 6. Meet standards/regulations

Services Offered for Compressed Air:

- Water Vapour (Moisture Content)
- Dew point Temperature
- Total Viable Count
- Oil Mist
- Non Viable Particle Count
- Hydrocarbon
- Various gases (CO₂,CO, NOX, HC, SO₂,O₂,H_{2S},)





List of Standard Instruments Validation HVAC & Compressed Air Validation

Make / Model		Parameter/ Range/ features/ specification
Particle Counter Make: PMS Inc Model: 310A,310C, 350L, 5100	Company of the compan	Range: 0.3 - 25.0 µm (6 channels) Accuracy: ± 5 % Test Parameter-Partial count test recovery test
Particle Counter Make: TSI-PC Model: 9500-01/9350-03		Range: 0.3 - 25.0 μm (6 channels) Accuracy: ± 5 % Test Parameter-Partial count test recovery test
Capture Hood Make: TSI Model: 8375 & 8380	ACCUBALANCE IS.	For 8375 Range: 25 to 2500 ft3/min,25 to 8,000 ft/min,±150 in H20,0 to 95 % RH,0 to 170 0 C For 8380 Range: 25 to 2500 ft3/min,25 to 8,000 ft/min,±150 in H20,0 to 95 % RH,0 to 170 0 C Test Parameter-Air Velocity Test
Photometer Make: TEC Model: PH-4		Range: 100% Test Parameter-Installed Filter System leakage Test
Aerosol Generator Make: TEC Model: AG -A1		Range: 540 - 5400 CFM Test Parameter-Installed Filter System leakage Test



		Bringing Sharpness To The Quality Of Life Science
Make / Model		Parameter/ Range/ features/ specification
Lux Meter Make: LUTRON Model: 101 A	As C LIGHT METER	Range: 0-1999,2000-19,990 20,000-50,000 Test Parameter-Light Intensity test
Digital Handy Cam Make: Panasonic Model:VDR-D50		Test Parameter-Air Flow Pattern test
Sound Level Meter Make:LUTRON Model: SL4010	SOUND LEVEL METER CE CE CITCUITOR SL-4010	Range: 35-80 dB,50-100dB,80-130dB Test Parameter-Sound Level Measurement
Fog Generator Make: Concept smoke system Model:Mini Colt 4	Colors of the state of the stat	Test Parameter-Air Flow Pattern Test



T		Bringing Sharpness To The Quality Of Life Science
Make / Model		Parameter/ Range/ features/ specification
Vane Type Anemometer Make: Testo Model: 417		Range: 0 to +50 °C +0.3 to +20 m/s Accuracy: ±1 digit ±0.5 °C ±(0.1 m/s +1.5% of m.v.) Resolution: 0.1 °C 0.01 m/s Volume flow: 0 to +99999 m³/h 0.1 m³/h (0 to +99.9 m³/h) 1 m³/h (+100 to +99999 m³/h) Test Parameter-Air Velocity Test
Vane Type Anemometer Make: Mextech Model: AM-4208		Range: 80 -8860, 0.4 m/s - 45.0 m/s Accuracy: ± (2 %) + 0.1 m/s, ± 2 % + 1 ft/m Test Parameter-Air Velocity Test
Anemometer Make: Testo Model: Testo-425	19- 813 I:	Accuracy: 0 - 20 m/s Test Parameter-Air Velocity Test
Water Fogger Make: main land mart USA Model:MHB12		Test Parameter-Air Flow Pattern Test
S S Kit		Test Parameter- Various type of Gases and Oil content



		Bringing Sharpness To The Quality Of Life Science
Make / Model		Parameter/ Range/ features/ specification
Hot Wire Anemometer Make: HTC Instruments Model: AVM-08	316 251	Range: 0 to 6000 ft/min, -17.8 to 93.3, 0 C 0 to 95 % RH Accuracy: ±3% of Rdg, ± 0.3 0 C, ±3 % RH Test Parameter-Air Velocity Test
Van type Anemometer MAke:TSI Model: 5725		Range: 0.4 to 25.0 m/s & 0 to 50 0C Accuracy: ± (2 % + 0.2 m/s), 0.8 oC Test Parameter-Air Velocity Test
Photometer Make: TEC Services Model: PH-5	PROCEEDINGS OF THE PROCESS OF THE PR	Range: 100% Accuracy:± 0.5 % Rdg Test Parameter-Installed Filter System Leakage Test
Micromanomater (SAM) Make: TSI Model: 8710		Range: 25 to 2500 ft3/min,25 to 8,000 ft/min,±150 in H20,0 to 95 % RH,0 to 170 0 C Accuracy: ±3% of Rdg,±2% of Rdg, ± 0.3 0 C, ±3 % RH Test Parameter-Air Velocity Test
Anemometer Make: TSI Model: 9515		Range: 0 -20 m/s Accuracy: ±5% of Rdg or ± 0.025 m/s Test Parameter-Air Velocity Test



	Parameter/ Range/ features/ specification
	Range: 0 to 6000 ft/min, -17.8 to 93.3, 0 C 0 to 95 % RH Accuracy: ±3% of Rdg, ± 0.3 0 C, ±3 % RH Test Parameter-Installed Filter System leakage Test
	Test Parameter-Air Flow Pattern Test
DAAS COM.	Range: 840 – 8500 Test Parameter-Installed Filter System leakage Test
2i annua rannana	Range: 0 to 6000 ft/min, -17.8 to 93.3, 0 C 0 to 95 % RH Accuracy: ±3% of Rdg, ± 0.3 0 C, ±3 % RH Test Parameter-Installed Filter System leakage Test
	Measurement of Dew point temperature for compressed air points
	Detection of various Gases and oil content



		Bringing Sharpness To The Quality Of Life Science
Make / Model		Parameter/ Range/ features/ specification
Clean Viewer Fogger Make:Airtech ACV-500	CLEAN VIEWER ACV-500	Test Parameter -Air Flow Visualization Test
Particle Counter Make: Lighthouse, USA Model: ApexZ3, Z50	ApexZ3 The state of the stat	Test Parameter-Partial count test recovery test
Gas Detector Tubes Uniphos		Detection of various Gases and oil content



List of Standard Instruments Validation Process

Make / Model		Parameter/ Range/ features/ specification
Mini temperature and humidity data logger Make: Testo Model: 174 H	testo 174H Rec %rH fatto Go	Temperature Range: -4° to 158 °F / -20 to +70 °C Accuracy: ±0.9 °F (-4° to 158 °F) / ±0.5 °C (-20 to +70 °C)
Kaye RF ValProbe Wireless Data Logger System Make: Model:		Internal RH Sensor: Range 0-100%RH, Accuracy 2%RH
Button Operated Make: Yokogawa Model No. DX2000	YOKOGAWA A TOP TO THE TO THE TOP	Display Real time Measured data with input Signal a DC Voltage, Thermocouple resistance or contact signal
Paperless Recorder Make: Yokogawa Model No. GP10	YOROGAMA Manual mean mean mean mean mean mean mean mean	Display Real time Measured data with input Signal a DC Voltage, Thermocouple resistance or contact signal DC Voltage, Thermocouple, RTD, DI
Paperless Data Recorder Make:Eurotherm Model: 6100A		Display Real time Measured data with input Signal a DC Voltage, Thermocouple resistance or contact signal
Chino Corporation Make: Model:KR31A	Annual State Annu	Universal DC voltage: ±13.8mV, ±27.6mV, ±69.0mV, ±200mV, ±500mV, ±2V,±5V*, ±10V*, ±20V*, ±50V* (*with built-in voltage divider) DC current: With external shunt resistor



ENVIRONMENTAL, SAFETY, HEALTH & SUSTAINABILITY

We are an Environmental, Safety, Health & Sustainability (ESH&S) consulting company engaged in providing the following services:

Safety Transformation: We have extensive and hands on experience in implementing Behavior Based Safety (BBS) and other interactions (including Major Hazards Observations) programs to drive cultural change across organization to improve safety ownership by workforce. Safety Leadership, Supervisor safety training/coaching and improving employees and contractors participation in safety.



Improvement in Safety, Health & Environmental performance: We can conduct Safety culture surveys,

reviews to identify gaps, setting up vision, strategy, organization and KPIs to drive improvements and making safety a common value across the organization.

Vehicle Safety Programs: We has extensive experience in devising and setting up a Vehicle Safety strategy, policy and programs both for four and two wheelers driven by employees as well as contractual employees. We have the experience of managing over 500 four wheelers drivers and 1500 two wheeler riders. We not only engage the top management of the client but also involve employee's families in the vehicle safety initiatives. We have devised extensive driver safety awareness programs and backed up the same with monitoring the drivers on their compliance to vehicle safety programs and practices.



Office Safety Programs: This includes forming Office Safety Committees, developing policies and procedures, emergency

plan and risk assessment procedures, inspection programs, safety audits for office, etc. Obtaining and maintaining an OHSAS 18001 & ISO 14001 certifications, etc. We can also device Ergonomics Programs, which involves development of policies & procedures, training, assessment of workstations and recommendations on improvements.



Risk Management Services: This involves Hazard identification, Risk assessment and

quantification, Risk mitigation & review. Risk analysis including scenario planning, Development of risk register, change management, Job Safety Analysis and Human error identification.



Hazard Risk Awareness and Safety Training: We are experienced in developing and presenting training courses covering a full range of safety topics. In these training processes the Client's staff is mentored to ensure the relevant risk management knowledge is transferred in an integrated manner to enable risk management practices to be incorporated into the relevant operational process work flow. All programs are facilitated using a mixture of presentations, class discussion, practical exercises and case studies.

Auditing: We are also experienced in a range of plant and systems related audits. The types of audits conducted cover Regulatory Compliance Audits, Safety Management Systems Audits, Plant and Systems Audit and Safety and Operating Plans Audits and Social Responsibility and include OHSAS 18001, ISO 14001, Dakota audits, Responsible Care Audits, IS 14489, etc. Besides, we also conduct audits of prospective and existing warehouses, toll units, to assess their compliance to legal and company standards.



ESH Due Diligence and ESH on-boarding of new companies: We are experienced at Due Diligence and Mergers and Acquisitions and working with Joint Ventures to meet local and corporate standards. We have led due diligence and ESH/CSR on boarding for a wide range of industries with a focus on strategic change, corporate governance, leadership and culture change and safety management systems.

Construction Safety Services: This involves Hazard Studies, HAZOP review of design, Construction Site Safety and Environmental Management Plan, contractor safety management process, audits, training. Construction safety, completing engineering design reviews and HAZOP studies both for batch and continuous processes and equipment.





Emergency Response Plans and Procedures: We are experienced at facilitating the preparation of well-structured and well integrated emergency and disaster recovery plans and procedures. The scenarios cover chemical emergency, site emergency, pandemic and natural regional disasters and include desk top exercises and site drills and providing guidance on improvements.

Off – the – Job Safety Programs (OTJ): We specialize in making Safety a 24/7 process by also devising and conducting OTJ programs with special relevance to Home Safety viz. LPG/Piped gas safety at Home, Electrical Safety at Home, overall housekeeping and importance on safety aspects at home, and also a special emphasis on vehicle safety for families. The importance to discuss safety with children so that they can inculcate the habit of thinking about Safety in their daily routines.



Environmental Services: Our Core proficiencies in Environmental services include the following:

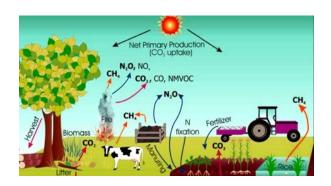
Water Pollution Abatement:

- Wastewater analysis to determine various pollution parameters.
- > Feasibility studies of treatment system.
- Consultancy on treatment systems for wastewater.
- Detailing and designing of treatment systems.
- > Basic Engineering of treatment systems.
- > Detailed engineering of treatment system.
- Supply, Erection and Commissioning of treatment units.
- ➤ De-bottlenecking and revamping of existing effluent treatment plant.
- > Operation and maintenance of existing effluent treatment plants.



Air Pollution Abatement:

- Analysis of pollution parameters of Ambient Air,
- ➤ Workplace, and Process & Utility stacks.
- Efficiency improvement of pollution control equipment.



Noise Pollution Abatement:

Noise Pollution Audits.



Others:

- Environmental Impact Assessment (EIA) Studies.
- > Setting up of analytical labs.



AUTOCAL FAMILY...



AUTOCAL acknowledges the fact that apart from its world-class infrastructure and state of the-art technology, the most valuable resource is its human asset. It is the dedication and collaboration of its people that has helped AUTOCAL transform its dreams and ambitions into realities and achievements.

The AUTOCAL family comprises of professionals handpicked from different faculties handling an array of diverse operations. Similarly, experienced professionals steer crucial operational domains like marketing, accounts & finance and human resources together with engineering and other operational areas.

The core management team responsible for formulating the company's growth strategies comprises of innovative, entrepreneurial, and collaborative senior management members led by the Founder and Managing Director and are responsible for building AUTOCAL from a blue print project to its current global leadership position.

Collectively AUTOCAL team has built the company into a highly respectable and admired Calibration and Validation Company in the Indian Pharmaceutical industry.

Apart from the above there are 200 ITI/Diploma trained technicians and other office backup staff.

We are proud to say that we are the only calibration company in India having a strength of more than 250 people and fourteen branches.



WE ARE PROUD TO BE ASSOCIATED WITH.....

3 D Systems, A Star Coating, A.B & Sons, A.S. Engineering Works, A.S.Controls Pvt Ltd, A.S.Moloobhoy Pvt , Ltd, A.T.E.Envirotech Pvt Ltd, A.V.M. Laboratories, A.W.Faber Castell India Pvt Ltd, AAD Corporation Ltd, Aaditya Finechem (P) Ltd, Aakar Engineering Services, Aakash Manufacturing Company Pvt Ltd, Aalap Enterprises, Aanjaneya Biotech Private Limited, Aaradhana Plastics Pvt Ltd, Aarav Fragrances & Flavours Pvt Ltd, Aart Infosoft Pvt Ltd, Aarti Drugs Ltd., Boisar, Aarti Industries Ltd (Bharuch), Aarti Industries Ltd (Boisar, Aarti Industries Ltd. Dombivali, Aarya Tek Technologies, Aayurmed Biotech Pvt. Ltd, ABB Limited, ABB LTD (NASHIK), Abbott Healthcare Pvt. Ltd., Abbott Healthcare Pvt. Ltd., Abbott Healthcare Pvt. Ltd., Abbott India Limited, Abhinandan Rasayan Pvt Ltd. (NASHIK), Abbott Healthcare Pvt Ltd (Goregaon), Abbott Healthcare Pvt. Ltd., Abbott Healthcare Pvt. Ltd. - Baddi, Abbott India Limited, Abhinandan Rasayan Pvt Ltd, Abigail Enterprises, Absolute Solutions, Academy of Welding & Consultancy Services, Accu Techs, Accupack Engineering Pvt Ltd, Accurate Engineering Co Pvt Ltd (S), Accurate Labs, Accurates Biologics Pvt. Ltd, Accurate Engineering Co Pvt Ltd (S), Accurate Labs, Accurate Badding & Consultancy Services, Acce Enterprises, AcG Associated Capsules Pvt. Ltd, ACG Inspection Systems Pvt Ltd, ACG Pam Pharma Technologies Pvt. Ltd, Acme Formulation Pvt. Ltd., ACME Generics LLP, Acme Lifescience, ACRV Aircon Projects, ACS Engineering Pvt Ltd, Action Engineers, Acumen Calibrations, Acumen Tech Sol Pvt Ltd, Adain Wilmar Ltd, Adarsh Industries, Adept Engineers, Aditi Associate/DP Interprises, Adity a Birla Retail Limited, Aditya Birla Science & Technology Co Ltd., Aditya Enterprises, Aditya Plastic, Aditya Systems, Aditya Vidyut Appliances Ltd., Advanced Pharmaceuticals Pvt. Ltd., Adtech Inventions Pvt Ltd, Advance Composite Pvt Ltd, Advance Marks & Labels Pvt. Ltd., Advance Power Display Systems Ltd, Advanced Bolting Solutions Pvt. Ltd, Advanced Fluro Tubes, Advanced Medtech Solutions Pvt Ltd, Advanced Power Sources Ltd, Advanced Systems Lab, Advent Engineers, Advy Chemical, Aero Interiors Pvt Ltd., Aero Pharma (Silvassa), Aero Pharma Pvt. Ltd., (Mulund), Aero Pharma Pvt. Ltd., Aeromec Marketing Co. Pvt. Ltd., Aerospace Technical Services, Aesseal Coldweld Pvt. Ltd., Afriso India Pvt Ltd., Aggarwal Engineering Works, Agniraksha, Agog Pharma Ltd., Agrosurg Irradiators (I) Pvt. Ltd., AGV Systems Pvt Ltd., AlC Lab Equipments Pvt Ltd. (S), Air India, Air In Works, Agintassia, Agog i maina Etd., Agossag infadanos (I) P.V. Etd., AVO Systems P.V. Etd., Attech Systems (India) P.V. Etd., Charles, An India Elmited, A Pvt Ltd, Alchymars R.M. SM Pvt. Ltd., Alcon Electronics Pvt Ltd, Alcon Industries, Alembic Ltd (Vadodara), Alembic Ltd. – Baddi, Alembic Prarmaceuticals Ltd, Alembic Prarmaceuticals Ltd, Alembic Prarmaceuticals Ltd., Alembic Prarmaceuticals Ltd., Allama Cold Storage Ltd., Allama Investments & Trading Co. Ltd., Allamasons Ltd., Allegro Pharmachem Equipments, Allergan Healthcare Ind Pvt Ltd, Alliance Formulations, Alliance InC, Alliance Packaging, Allianz Transformers Pvt Ltd, Allied, Alloy Polymers India Pvt Ltd, Ally Pharma Options Pvt. Ltd., Almighty Auto Ancillary Pvt Ltd, Alok Industries Limited, Alot Hitek Pvt. Ltd., Alpana Enterprises, Alstom Hydro R&D India Ltd, Alumayer India Pvt. Ltd, Amar Jyot Chemicals Ancillary Pvt Ltd, Alok Industries Limited, Alot Hitck Pvt. Ltd., Alpana Enterprises, Alstom Hydro R&D India Ltd, Alumayer India Pvt. Ltd, Amar Jyot Chemicals Corporation, Ambuja Cements Ltd, Ameeja Enterprises, American Sensor Technologies Inc, Ametek Instruments India Pvt. Ltd, Ametek Instruments India Pvt. Ltd. (Delhi), Amey Industries, Amii Engineering, Amitronics Pvt Ltd, Amity Components, Amity Power Products Pvt Ltd, Ammunition Factory, Amod Engineering Works, Amogh Precision Tools, Amon Engineers Pvt Ltd, AMV Powder Coating and Phospetting, Analytical Testing Services, Anand Control, Anandiala & Ganesh Podar Society, Anatek Services Pvt. Ltd, Anohor Electricals Pvt Ltd, Anchor Mark Pvt. Ltd., ANG Lifesciences (I) Private Limited, Anicare Pharmaceuticals Pvt Ltd, Anika Electrotech, Anil Kumar Sunil Kumar & Company, Anisha Engineering, Anita Enterprises, Ankur Drugs And Pharma Ltd, Ankur Drugs Ltd. (H.P.), ANTS Ceramics Pvt Ltd, Anu Enterprises, Anuh Pharma Ltd., Apar Industries Ltd, Apex Engineering Services, Apex Packing Products Pvt Ltd, APJ Laboratories Ltd., Aplab Limited, Aplalo Limited, Aplacia Pvt. Ltd, Aplacia Destruction Pvt. Ltd, Aplacia Destruction Pvt. Ltd, Appl. Engineering Pvt. Ltd, Appl. Destruction Pvt. Ltd, Appl. Destruction Pvt. Ltd, Appl. Destruction Pvt. Ltd. (Bulley). PVL Ltd, APJ Laboratories Ltd., Aplab Limited, Apollo Soyuz Electrical PVL Ltd, Apothecon Pharmaceuticals PVL Ltd, APJ Controls, Aqua Lab, Aqua Vitoe Laboratories, Aquarius Shipyard PVt Ltd, Aquasmith Water Solution PVt Ltd, AR Engineering, ARC Chemicals PVt. Ltd., Arch Pharmalabs Ltd.(Bosiar), Arch Pharmalabs Ltd.(Bodiapur), Arch Pharmalabs Ltd.(Dombivali), Archroma India PVt Ltd, Arctic Solutions, Aries Components Manufacturing Company, Arihant Gold Plast PVt Ltd(Gujrat), Arihant Industries (S), Arihant Sales Agency, Aristo Laboratories PVt Ltd (Baddi), Aristo Pharmaceuticals PVt Ltd (Madhyapradesh), Aristo Pharmaceuticals PVt Ltd, Art Rubber Ind Ltd, Artech Instruments & Controls PVt Ltd, Arun Banualikar, Arun & Co., Aruna Engineering Works, Aryameya Enterprises, Asahi India Glass Ltd, ASB International Pvt. Ltd., Ascent Techno Solutions Private Ltd, Asha Electronics Pvt. Limited, Asha Electronics Pvt. Ltd, Asha Industries, Ashapura Roadlines, Ashco Niulab Industries Ltd., Ashida Electronics Pvt Ltd, Ashirwad Hospital & Research Centre, ASHRAE Clean Room Presentations (P) Ltd, Ashtavinayak Auto, Asian Heart Institute & Research Centre Pvt. Ltd., Asian Paints Ltd, Asian PPG Limited, Associated Cables Pvt. Ltd., Associated Capsules Pvt. Ltd., Astec Valves & Fitting Pvt. Ltd, Astra Microwave Products Ltd, AstraZeneca Pharma India Ltd, Astron Research Ltd., Atco Controls (India) Pvt Ltd, Ateindia Envirotech Pvt Ltd, Athena Drug Delivery Solutions Pvt. Ltd, Athene Laboratories, Atit Engineering Company, Atlas Copco India Pvt Ltd, Atlas Mtt India Pvt. Ltd, Atlast Fisheries Pvt Ltd, Atra Pharmaceuticals, Atra Pharmaceuticals Pvt. Ltd. Unit I, Atra Pharmaceuticals Pvt. Ltd. Unit II, Attunded Polymer Group, Auro Laboratories Ltd., Auro Works, Aurochem Laboratories (I) Pvt. Ltd, Aurochem Pharmaceuticals (I Ltd., Auto Instrument Calibration Lab (S), Autobahn Enterprises Pvt Ltd, Autocop India Pvt Ltd, Autodata, Automatic Tiles & Marbles Indas Pvt. Ltd, Automotive Test Systems, Autopro, Avant Garde Cleanroom & Engg Solutions Pvt Ltd, Avantor Performance Materials (RFCL Ltd), Avantor Performance Materials India Ltd, Avcon Controls Pvt. Ltd, Avi Scientific Calibration and Services, Aviza Technologies, AVL India Pvt Ltd, Avon Organics Ltd, AXA Parenterals Ltd, Axis Electrical Components(I) Pvt Ltd, Ayurchem Products, Ayushakti Ayurved Pvt. Ltd., A-Z Instrument Services, Aztek Pvt. Ltd, B.D.Bansal Steel Industries, B.G.Enterprise, B.J.Patel Surgicals, Bagai Enterprises, Bajaj Auto Ltd, Bajaj Electricals, Bajaj Health Care Pvt. Ltd., Bajaj Health Care Pvt. Ltd., Baldota Control and Equipments Pvt Ltd, Balkrishna Enterprises, BARC, Baroda Heart Institute Clinical Laboratory, Barton Firtop Engineering (I) Pvt Ltd, BASF Construction Chemicals (India) Pvt. Ltd, BASF India Limited, Baumer Technologies India Pvt Ltd (S), Bavaria Motors Pvt Ltd, Becton Dickinson India Pvt. Ltd., Bee Pharmo Labs Pvt Ltd, Behr-Hella Thermocontrol India Pvt Ltd, Beico Industries Pvt Ltd, BEL Optronic Devices Ltd, Belcon Engineers Pvt Ltd, Belimo Actuators India Pvt. Ltd., Belladona Plasters Ltd, Bellota Agrisolutions and Tools Pvt Ltd. Bengal Calibration Laboratory, Bennett and Bernard Custom Homes, Benzochem Lifesciences Pvt. Ltd., Berger Becker Coatings Pvt Ltd, Betts India Private Ltd, BGP Healthcare Pvt. Ltd, Bharsali Precision Components, Bhansali Techno Components, Bharat Bijlee Ltd, Bharat Biotech International Limited, Bharat Biotech International Ltd., Bharat Chemicals, Bharat Petroleum Corporation Ltd, Bharat Serum & Vaccines Ltd, Bharat Serums & Vaccines Ltd, Thane, Bharat Serums & Vaccines Ltd. (Ambarnath), Bharat Tech, Bharti Shipyard Ltd, Bhavana Chemical Industries, Bhilai Calibration Laboratory, Bhoomi Appliances Pvt Ltd, Bhoruka Logistics Pvt Ltd, Bill Industries, BIMM Technologies Centre, Bio Scientific Research Laboratories (I) Pvt. Ltd, Biocon Ltd., Biogenics (India) Limited, Biopharmax India Pvt.Ltd, Bioshields – Goa, Biosystem Company, Bipin Pharma Steel, Birla Precision Technologies Ltd, Bisleri International Pvt. Ltd, Bittu Pharmaceuticals, Biztech Services, Bliss GVS Pharma Ltd(Andheri), Bliss GVS Pharma Ltd., Bloom Energy (India) Pvt Ltd, Blow Tech Engineers Pvt Ltd, Blue Circle Organics Pvt. Ltd, Blue Cross Laboratories Ltd., Blue Star Limited, Blue Star Limited (Chandigarh), Blue Star Limited (Daman), Boehringer Ingelheim India Pvt Ltd, Bombay Bioresearch Centre, Bombay Chemical Equipments, Bombay Chemicals Pvt Ltd, Bombay Hospital Trust, Bombay Hospital Trust – Mumbai, Bombay Metal & Steel Traders, Bombay Metel & Steel Traders, Boost Electronics, Borkar Color Packs Private Ltd, Boregaard South Asia Pvt Ltd, Brassica Pharma & Cheminals, Brassica Pharmaceutical & Chemicals, Breach Candy Hospital Trust, Brooks Laboratories Ltd, Brooks Laboratories Ltd, Brooks Laboratories Ltd, Baddi, BSR Technologies Pvt Ltd, Building Energy Performance Laboratory, Bumper India Pvt Ltd, Bureau of Indian Standards, C.P. Engineering Works, C.P. Tech Engineering Pvt Ltd, Cachet Pharmaceuticals Pvt. Ltd., Caculo Earthmovers Pvt Ltd, Cadila Healthcare Limited (Vadodara), Cadila Healthcare Ltd. Changodhar, Cali Instrument & Gauge Calibration Laboratory(S), Cali Labs Private Limited, CALTECH Pvt. Ltd, Calyx Chemicals & Pharmaceuticals Ltd, Calyx Chemicals & Pharmaceuticals Ltd (Dombivali), Camlin Limited, Caprihans India Ltd, Captech Engineers, Carewell International, Carotino (India) Pvt. Ltd, Carrier Race Technologies Pvt Ltd, Castor Engineering Pvt Ltd, CCIC India Pvt Ltd, CCRT Laboratories, CEAT Limited, CEAT Limited (Gujarat), Celrich Products Pvt Ltd, Centaur Pharmaceuticals Ltd (Goa), Centaur Pharmaceuticals Pvt Ltd(Pune), Centaur Pharmaceuticals Pvt. Ltd, Central Drugs Testing Laboratory Mumbai, Central Proof Establishment, Central Railway, CG Lucy Switchgear Ltd, Chandok Automotive Manufacturers Ltd, Charak Pharma Pvt. Ltd (Mumbai), Charak Pharma Pvt. Ltd(Baddi), Charak Pharma Pvt. Ltd., Chemicoat, Chemiline Inermids(India) Pvt. Ltd., Cheminnova Pharmaceuticals, Chemito Technologies Pvt Ltd, Chemline Inermids (India) Pvt Ltd, Chemtreat India Ltd, Chemtrols Industries Ltd, Cheryl Laboratories Pvt.Ltd., Chipita India Pvt Ltd, Choksi Laboratories Ltd(S), Chowgule & Company Pvt Ltd, Christ Nishotech Water Systems Pvt Ltd, CHT (India) Pvt. Ltd. (Raigad), Churi Industries, Cinpharm, Cipla Limited – Bhivandi, Cipla Limited (Goa), Cipla Limited (Patalganga), Cipla Ltd (Indore), Cipla Ltd (Mumbai), Cipla Ltd (Pune), Cipla Ltd (Sikkim), Cipla Ltd(Vikhroli), Cipla Ltd., Cipla Quality Chemical Industries Ltd, Ciron Drugs & Pharmaceuticals, Ciron Drugs & (Mumbai), Cipla Ltd (Pune), Cipla Ltd (Sikkim), Cipla Ltd(Vikhroli), Cipla Ltd., Cipla Quality Chemical Industries Ltd, Ciron Drugs & Pharmaceuticals, Ciron Drugs & Pharmaceuticals Pvt Ltd. (Citizen Scale (I) Pvt Ltd (S), Classic Retail Imaging Solution Pvt Ltd, Classic Scripes Stripes Ltd. Unit I, Classic Stripes Ltd. Unit I, Classic Stripes Pvt Ltd, Cassic Stripes Ltd. Unit II, Classic Stripes Pvt Ltd, Cassic Stripes Ltd. Unit II, Classic Stripes Pvt Ltd, Classic Stripes Ltd. Unit II, Classic Stripes Pvt Ltd, Cassic Stripes Ltd. Unit II, Classic Stripes Pvt Ltd, Colsic Marine Construction & Engineering Ltd, Cockerill Exports Pvt Ltd, Colse Day Global Ltd, Cold Stat Ldg. Colsets Pvt Ltd, Cold Weld Engineering Pvt Ltd, Colsetal Marine Construction & Engineering Ltd, Cockerill Exports Pvt Ltd, Coloreon Asia Pvt Ltd, Coloreon Asia Pvt Ltd, Commanding Officer Ins Trupti, Con Tech CCRC Pvt Ltd, Connectwell Industries Pvt Ltd, CONTEC AIRFLOW ENGG, PvT. LTD, Continental Engineering, Convergence Centre, Conwood Pre Fab Ltd, Cool Tech Enterprises (S), Copmed Pharmaceuticals Pvt Ltd, Coral Clinical Systems, Coral Clinical Systems, Condition, Coral Ldb. Cosme Pharmaceuticals End., Coviden Engineering Services Pvt Ltd, Cosme Remedies Ltd., Coviden Engineering Services Pvt Ltd, CoSme Remedies Ltd., Coviden Engineering Services Pvt Ltd, CoRain Pvt Ltd, CTR Manufacturing Industries Ltd. Creative Dates Pvt Ltd., Cerative Power, Crest Healthcare, Cromuton Greaves Limited, Crovatel Coral Pvt Ltd. CRin Manufacturing Industries Ltd. CTR Statements Ltd. CTR Ldd. CTR Manufacturing Industries Ltd. CTR Statements Ltd. CTR Ldd. CTR Manufacturing Industries Ltd. CTR Statements Ltd. CTR Ldd. CTR Manufacturing Industries Ltd. CTR Ldd. CTR Manufacturing Industries Ltd. CTR Ldd. CTR. Manufacturing Industries Ltd. CTR Ldd. C Covidien Engineering Services Pvt Ltd, CPS Oil & Gas Equipments Pvt Ltd, Creative Engg & Metal Works, Creative Labels Pvt Ltd, Creative Power, Crest Healthcare, Crompton Greaves Limited, Crystal Logistic Cool Chain Pvt Ltd, CTR Manufacturing Industries Ltd, CtrlS Datacenters Ltd, CTX Life Sciences Pvt Ltd, CU Inspections & Certifications India Pvt Ltd, Curie Manavata Cancer Centre, Custom Capsules Pvt. Ltd., D - Link (India) Ltd., D - Link (India) Pvt. Ltd.- Goa, D&H Secheron Industries Private Ltd, D. P. Enterprises, D.B. Solutions, D.C.Engineers Pvt Ltd, D.G.Q.A., D.J.Electro Controls, D.K. Pharma Chem Pvt. Ltd., D.K. Pharma Chem Pvt. Ltd., D.M. Pharma (Solan), Dabur India Ltd, Dabur Pharma Ltd., Daksha Engineering Company, Dana India Technical Centre Pvt. Ltd., Datar Nouveau Energietechnik Ltd, Datar Genetics Ltd, Datar Power Management Pvt Ltd, Datawyler Pharma Packaging India Pvt Ltd, Daya Lubricants Pvt. Ltd., DBM Geotechnics & Constructions Pvt. Ltd, Dtaramaceuticals P. Ltd., De Nora India Ltd, DEE KAY Scientific, Deejay Capacitors Pvt Ltd, Deep Instruments, Deepak Nitrite Limited, Deepali United Mfg Pvt Ltd, Delta Engineering, Delta Instruments Company, Delta Lab, Devki Devi Foundation, Dewa Electro Systems, Dhanashree Engineers, Dhanashree Polymers Pvt. Ltd, DIH Holding India Pvt. Ltd, Diamond Pipe Supports Pvt Ltd, Dishman Pharmaceuticals & Chemicals Ltd, Doctor's Analytical Laboratories Pvt Ltd, ODL Electric Company Pvt Ltd, DOL Motors Pvt Ltd, Doors & Doors Systems (India) Pvt. Ltd, Dortmund Laboratories Pvt. Ltd., Dow Engifab LLP, Dr Reddy's Laboratories Ltd (Unit IV), Dr. Balabhai Nanavati Hospital, Dr. Fixit Institute of Structural Protection &



Dr. L.H. Hiranandani Hospitals, Dr. Lal's Path Lab Pvt. Ltd, Dr. Reddy's Laboratories Ltd (Unit VI)CTO, Dr. Reddy's Laboratories Ltd (Baddi), DR. Reddy's Laboratories Ltd(Bachupally), Dr. Reddy's Laboratories Ltd., Dr. Reddy's La Pvt Ltd, D-Tech Industries, Dupen Laboratories Pvt Ltd, Duralabel Graphics Pvt Ltd, Durga Udyog, Dynamic Gauge Pvt Ltd. (Vasai), Dynamic Pumps & Projects (I) Pvt. Ltd., Dynomerk Controls, E.I.Dupont India Pvt. Ltd, Earth Care Enviro Solutions Pvt Ltd, Earth Metallurgical Services Pvt Ltd, Eastern Steel Industries, Eco Laboratories, Ecologic Chemicals Ltd, Ecological Laboratories Pvt Ltd, Edelweiss Integrated Commodity Management Ltd, Efacec India Pvt Ltd, Efacec Switchgear India Pvt Ltd, Efficienergi Consulting Pvt Ltd, Efficient Toroidal Coil Corporation, Ehara Industries, Eisai Pharmatechnology & Mfg. Pvt. Ltd., Elca Laboratories, Elcome Integrated Systems Pvt Ltd, Elcome Marine Services Pvt Ltd, Elder Pharmaceuticals Ltd. (Deheradun, Electro-Diagno Systems Pvt. Ltd., Electro Plasma Equipment Pvt. Ltd, Electro-Protection System & Services, Electro Tech Integrators Pvt Ltd, Electro-all Hodia Pvt. Ltd, Electro-Fab Hoists & Cranes Mfg Co, Electroforce (India) Pvt. Ltd, Electrolab India Pvt. Ltd, Electromag Devices Pvt. Ltd, Electromet Projects, Electronet Equipments Pvt. Ltd., Electropeath Motor Power Company Pvt. Ltd, Electrocraft (India) Pvt. Ltd, Eli Lilly & Co. (I) Pvt. Ltd, Elin Industrios, ELM Enterprises Pvt. Ltd, Eline Elmech Engineers, Elster Metering (P) Ltd, Eltec, Eltek Equipment (Bombay) Pvt. Ltd., Eltek Systems, Emami Ltd, Embedded Power Automation, Emco Dynatorq Private Ltd. Emco Electronics, Emco Limited, Emcure Pharmaceuticals Limited, Emcure Phramaceuticals Ltd., Emerald Calibration Labs Pvt Ltd, Emerson Electric Company India Pvt Ltd, Emerson Network Power India Pvt Ltd, EMET Controls Pvt Ltd, Emil Pharmaceuticals Inds. Pvt. Ltd, Emil Pharmaceuticals Pvt. Ltd., Emvoi Pharma, Emzor Pharmaceuticals Network Power India Pvt Ltd, EMET Controls Pvt Ltd, Emil Pharmaceutical Inds. Pvt. Ltd. Emil Pharmaceuticals Pvt. Ltd., Emil Pharmaceuticals Industries Ltd, Enab Pvt. Ltd, Enam Casting Pvt Ltd, Encube Ethicals Pvt. Ltd. (Goa), Endee Engineers Pvt Ltd, Enem Nostrum Remedies Pvt. Ltd, Engineers Combine, Enicar Pharmaceuticals Pvt. Ltd., Enpal Aircon Private Ltd, Enpay Transformer Components (I) Pvt Ltd, Ensave Devices Pvt Ltd, Enterprise Logistics Pvt. Ltd, Entraco BKS Bus Ducts Pvt Ltd, Enviro Analysts & Engineers Pvt Ltd, Enviro Technologies, Envitro Laboratories Pvt Ltd, EOS Power India Pvt Ltd, EPC Industries Limited, EPCOS India Pvt Ltd, Epitrans Electricals (P) Ltd, EPoint Technologies, Epsilon Pharmaceuticals , Pvt Ltd, Equinox Solutions, Erection & Instrumentation Enginners, Ericon Transformer, Ersten Electric, Erweka India Pvt. Ltd., Esco Biotech Pvt. Ltd., Esco Biotech Pvt. Ltd. – Malad, Ess Dee Aluminiu Ltd., Ess Dee Aluminium Ltd.-Goa, Essar Projects (I) Ltd, Essel Propack Ltd, Ethypharma LL Private Limited(Ambernath), Eurolife Healthcare Pvt Ltd.-Roorkee, Evergreen Engineering Co. Pvt. Ltd. (Works V), Evergreen Group of Company, Eversendai Construction Pvt Ltd, Evolute Solutions Pvt Ltd, Excel India, Excel Indiastries Limited, Excellent Airconditioning, Exide Industries Ltd, Fab Tech Engineers, Fablab India Pvt Ltd, Fabrizio Industries Pvt Ltd, Fabtech Technologies Africa Ltd, Fabtech Technologies International Ltd., Facade India Testing Inc., Fag Bearings India Ltd, Fairdeal Electricals & Engineering Pvt Ltd, Famy Care Limited, Fam Ltd., Flamingo Pharmaceuticals Limited, Flash Point Equipment Pvt Ltd, Fledon Engineering Works, Flex Art Foils Pvt. Ltd., Goa, Flexo Braid India, Flint Group India Pvt Ltd, Flo Rite Engineering Corporation, Flocon Industries, Flora International, Florite Engineering Corporation – Vasai, FLSmidth Pfister India Ltd, Fluidmac Hose Industries, Flyjac Logistic Pvt Ltd, FM Instrumentation, Foremost Industrial Products, Fortis Healthcare Ltd., Fortis Hospitals, Fortis Hospitals Ltd (Banglore), Foundation For Innovative New Diagnostics, Fox Solutions, Franco Indian Pharmaceuticals Pvt. Ltd., Fredun Pharmaceuticals Ltd., Fresenius Kabi India Pvt Ltd., Fresenius Kabi India Pvt. Innovative New Diagnostics, Fox Solutions, Franco Indian Pharmaceutteals Pvt. Ltd., Fredun Pharmaceutteals Ltd., Fresenius Kabi India Pvt Ltd, Gresenius Kabi India Pvt Ltd, Firesenius Kabi India Pvt Ltd, Fursion Scientific Laboratories Pvt Ltd, Fuelpac Boilers & Engineering Company Pvt. Ltd, Fuji Electric India Pvt Ltd, Funskool India Ltd, Furnace Fabrica (India) Ltd., Fusion Scientific Laboratories Pvt Ltd, G Amphray Laboratories, G.D.Instrument Calibration Centre, G3 Motors Ltd, Gactel Turnkey Projects Ltd., Gadark Lab Pvt. Ltd, Galaxy Industries, Galaxy Instrumentation, Galaxy Surfactants Ltd, Galaxy Transmissions Pvt Ltd, Galaxy Ltd (Ankelshwar), Galpha Laboratories Ltd(H.P), Gammon India Limited, Ganesh Multitech Engineering Pvt Ltd, Gauges Bourdon India Pvt Ltd, GGP Packaging, GE India Exports Pvt Ltd, Gear Pneumatics, Geecy Engineering Pvt Ltd, Geekays India (S), Geetee Carriers Pvt Ltd, Gemini Instratech Ltd, Gemini International Pvt. Ltd., Genoral Biopharmaceuticals Ltd., Geno Pharmaceuticals Ltd, Genom Biotech Pvt Ltd, Genova Biopharmaceutical Ltd, George Philips Medical Engineering Pvt Ltd, Getinge India Pvt. Ltd, Getz Pharma Research Pvt. Ltd., GIC INSU-FLEX Conductors Pvt Ltd, Giiava India Pvt Ltd, Gilbert & Maxwell Electricals Pvt Ltd, Gilbert & Maxwell Transformer Pvt Ltd, Girish Industries, Fiv. Ltd., Gle Naso-Flex Conductors Pt Ltd, Glava India I V Ltd, Glava Mall Systems (India) Pvt Ltd, Glava Market Limited-Sez, Gland Pharma Ltd., Glass Wall Systems (India) Pvt Ltd, Glava Glasstech Industries (I) Pvt. Ltd, Glava Infrastructure, Glava Smithkline Pharmaceuticals Ltd. Nashik, Glava Smithkline Asia Pvt Ltd, Glava Smithkline Consumer Pvt Ltd, Glava Smithkline Pharmaceuticals Ltd. (Badva Glenmark Generics Ltd (Bhiwandi), Glenmark Generics Ltd (Indore), Glenmark Generics Ltd (GOA), Glenmark Generics Ltd (Mumbai), Glenmark Pharmaceuticals Ltd., Glenmark Pharmaceuticals Ltd. (Sikkim), Glenmark Research Centre, Global Hospitals, Global Electronics- Hyderabad, Global Healthcare Products, Global Lab, Global Lab - Mira Road, Global Medikit Limited, Global Vectra Helicorp Ltd, Globatronix (Bombay) Pvt Ltd., Globotech Bio Analytica, Globotronix (Bombay) Pvt. Ltd., Globus International, GMP Technical Solutions Pvt Ltd, Goa Antibiotics & Pharma Ltd., Goa Antibiotics & Pharma Ltd., Goa Carbon Limited, Goa Costal Resorts & Recreation Pvt Ltd, Goa Glass Fibre Ltd, Goa Instruments Industries Pvt Ltd, Goa Invescast Ltd, Goa Medicare Devices Pvt. Ltd., Goa Paints & Allied Products, Goa Roller Flow Mills Pvt Ltd, Goa Sintered Products Pvt Ltd, Goa Syenthetic, Godfrey Philips India Ltd, Godreg & Boyce Mfg Co. Ltd(S), Godrej Memorial Hospital, Gogate Electrosystems(N) Pvt Ltd, Gohil Industries, Gol Ship Repair Ltd, Golden Cross Pharma Pvt Ltd, Goldwin Medicare Ltd (Plant-II), Goldwin Medicare Ltd. (Plant-III), Goldy Finepacks Pvt Ltd, Gopaldas Vishram & Co. Ltd., Gopani Metal Industries Pvt Ltd, Govind Industries, Gov of Jharkhand, GP Petroleums Ltd, GPR Engineering Pvt Ltd, Grand Hyatt Goa, Graphite India Ltd, Grauer & Well India Ltd, Grindwell Norton Ltd, Group Pharmaceutical Ltd., Group Pharmaceuticals Ltd., Groynetech, GSC Glass Ltd, Guala Closures India Pvt Ltd, Guardwel Industries Pvt Ltd, Gufic Biosciences Ltd., Gujaral Enterprises, Gujarat Themis Biosyn Limited, Gulf Oil Corporation Ltd, Gulf Petrochem, GWS Engineers & Fabricators Pvt Ltd, Haffkind Bio-Pharmaceuticals Corporation Ltd, Haffkine Bio- Pharmaceuticals Corporation Ltd, Hager Electro Pvt Ltd, Hakimi Enterprises, Haldex India Limited, Hallmark Automotive Pvt. Ltd, Hallmark Honda, Hans Impex, Harihar Electricals, Harman Plastic Industries, Harman Plastics Industries, Harmony International, Harshita Electricals, Haryana Test House & Cons Services, Hawa Valves (India) Pvt. Ltd, Health Biotech (P) Ltd., Health Secure (India) Pvt Ltd, Healthcare Pharmaceuticals Ltd, Heatex Tools Pvt Ltd, Heft Engineers, Heinz India Pvt Ltd, Valves (India) PVL Ltd, Health Blotech (P) Ltd., Health Secure (India) PVL Ltd, Health Carbonal Products & Ltd, Health Color PVL Ltd, Hella India Automotive Pvt Ltd, Hema Laboratories Pvt. Ltd, Heman Tools Pvt Ltd, Herman Plastic Industries, Herman Research Products & Laboratories Pvt Ltd, Herman Rubber Products Pvt Ltd, Hetero Drugs Ltd., Hetero Lab (Hydrabad), Hetero Lab Ltd., Hexa Analytical Laboratories, Hexa Analytical Laboratories, Hexa Analytical Laboratories, Hexa Calibration, Hi Tech Calibration – Vapi, Hi Tech Electronic Services (S), Hi-Tech Laboratory & Services (S), High Rise Fire Protection Systems, Highclean Ultrasonics, Hillman Gears Pvt Ltd, Himadri Foods Pvt. Ltd, Himedia Laboratories Pvt. Ltd., Hind Rectifiers Ltd, Hindalco Industries Ltd, Hindustan Aeronautics Ltd, Hindustan Coca-Cola Bev. Pvt. Ltd., Hindustan Coca-Cola Beverages Pvt. Ltd., Hindustan Constuction Co., Ltd., Hindustan Hardy Spicer Ltd. Hindustan Laboratories (Palghar), Hindustan Paints & Products, Hindustan Petroleum Corporation Ltd. Hindustan Petroleum Corporation Ltd (Goa), Hindustan Platinum Pvt Ltd, Hindustan Uni Lever Ltd., Hindustan Unilever Ltd(Silvasa), Hindustan Unilever Limited, Hindustan Unilever Ltd (Andheri), Hiranandani Healthcare Pvt. Ltd, Hitech Engineers, Hi-Tech Laboratory & Services, Hiteck Brass Products Pvt Ltd, HK Tempsensors India, HLL Lifecare Limited, Holiday Inn Resort Goa, Hollister Medical India Pvt. Ltd, Hometrail Buildtech Private Limited, Hometrail Estate Pvt Ltd, Honeycomp International INC, Honeywell Automation India Ltd., HRJ Surgicals, Hugopharm Technologies Pvt Ltd, Huphen Electromech Pvt Ltd, Huphen Fabricator Pvt. Ltd, Hyvalc India Pvt Ltd, Hyval(India) Pvt. Ltd, I B Scientific, I Kay Mould Tech, I.P.W.T.Corporation, Ichalkaranji Agro Foods, ICS Technologies, Ideal Cures Pvt Ltd (Goregaon), Ideal Cures Pvt Ltd (Khambhat), Ideal Cures Pvt Ltd, Ures Pvt Ltd (Jammu), IFB Industries Ltd, IFE Foods, ICS Technologies, Ideal Cures Pvt Ltd (Jammu), IFB Industries Ltd, IFE Foods, ICS Technologies, Ideal Cures Pvt Ltd., IIT Bombay, IMA-PG India Pvt Ltd, Immacule Lifesciences Pvt Ltd, Immacule Lifesciences Pvt Ltd, IMP Powers Ltd, Impress Container Co., Impress Ontainer Co., Impulse Pharma Pvt. Ltd, INCA Carbon Products (India) LtP, Indagro Foods Pvt Ltd, Indamer Aviation Pvt Ltd, Indchemie Health Specialities Pvt. Ltd (Baddi), Indchemie Health Specialities Pvt. Ltd., Indcoil Transformers Pvt. Ltd. Indeecon Equipments & Instruments Co, Indeus Life Sciences Pvt. Ltd, Indian Immunologicals Limited (Ooty), Indian Immunologicals Limited -Hydrabad, Indian Institute of Geomagnetism, Indian Institute of Technology, Indian Oil Corporation Limited, Indian Oil Corporation Ltd (Goa), Indian Oil Corporation Ltd (Taloia), Indian Oil Corporation Ltd (Wadala), Indian Oil Corporation Ltd(Pune), Indian Pens and Stationary, Indian Red Cross Society, Indian Rubber Manufacturers Research Association, Indian Technical Services, Indian Writing Instruments Pvt Ltd, Indigenous Services, Indo Bakels Pvt Ltd, Indoor Remedies Goa (P-II), Indoor Remedies Goa (Plant - I), Indoco Remedies Ltd (Rabale), Indoco Remedies Ltd (Unit III), Indoco Remedies Ltd. – Aurangabad, Indoco Remedies Ltd. (Baddi), Indoco Remedies Ltd. (P-I), Indoco Remedies Ltd. (P-II), Indocount Industries Ltd. – Indoline Industries Pvt Ltd. Indovax Pvt Ltd. Indswift Laboratories Ltd., Ind-Swift Ltd. Filed Business Unit, Indocount Industries Pvt Ltd. – Indoline Industries Pvt Ltd. Indovax Pvt Ltd. Indswift Laboratories Ltd., Ind-Swift Ltd. Filed Business Unit, Indocount Industries Pvt Ltd. – Indoline Industries Pvt Ltd. Indovax Indus Chemicals, Indus Medical Centre, Indus Seafarers Clinic, Industrial Carbons (Virar), Industrial Engineering Syndicate, Industrial Rubber Products Pvt. Ltd, Infexn Laboratories Pvt Ltd, Infinite Plastics, Innova Pharmactive Pvt Ltd, Innovative Engineers, Inox Air Products Ltd., Inspector General of Police, Inspectorate Griffith (I) Pvt Ltd, Inspectorate Griffith India Pvt.Ltd., Insta Exhibitions Pvt Ltd, Instil Technologies Pvt Ltd, Instrumentation and Control Solutions, Insu Tech Corporation, Intas Pharmaceuticals Ltd, Intech Pharma Pvt Ltd, Integrate Techno Trade, Integrated Cleanroom Technologies Pvt Ltd, Integrated Electronics Technology P Ltd, Interglobe Hotels Pharmaceuticals Ltd, Interch Pharma Pvt Ltd, Integrate I echno I rade, Integrated Cleanroom Technologies Pvt Ltd, Integrated Electronics I echnology P Ltd, Interglobe Hotels
Pvt Ltd, Intertech Technologies Pvt Ltd, Intertek India Pvt. Ltd. Flatertek India Pvt. Ltd.—Gurgaon, Intertek India Pvt. Ltd.—Tirupur, Invent
Bio Med Pvt. Ltd., Invent Bio -Med Private Limited(Surat), Invent Farma Pvt. Ltd., Inventia Healthcare Pvt. Ltd (Thane), Inventia Healthcare Pvt. Ltd., Invotech
Laboratories Ltd., Invotec Automation Pvt Ltd, INX International UK Ltd, ION Electricals Pvt Ltd, ION Exchange (India) Ltd, Ipca Laboratories Limited (Ralam),
IPCA Laboratories Limited (Sikkim), Ipca Laboratories Limited kandivali, IPCA Laboratories Ltd (Kandivali), IPCA Laboratories Ltd (MP), IPCA
Laboratories Ltd(Silvassa), Ipca Laboratories Ltd. (Athal), Ipca Laboratories Ltd. (Perhadun), IRD Mechanalysis Limited, IRD Mechanalysis Limited – Andheri, Ishwari
Healthcare Pvt Ltd, Isovolta(India) Pvt Ltd, IVP LIMITED, Iwai Electronics Private Limited, J Do Hardware Products, J J Glastronics Pvt Ltd, J. B Electroplaters Pvt Ltd, J.
B. Chemicals & Pharma. Thane, J. B. Chemicals & Pharma, Kadaiya, J.B.Chemicals & Pharmaceuticals — Thane, J.B.Chemicals & Pharmaceuticals — Thane, J.B.Chemicals & Pharmaceuticals — Thane, J.B.Chemicals & Pharmaceuticals — Reprivate New Letters (Edward Statistics) (Edward J.B. Engineering Corporation, J.K. Cement Ltd., J.K. Mark- Con, Jabil Circuit India Pvt Ltd, Jabs International Pvt Ltd, Jadhav Engineering Works, Jadhav Swichgear Service, Jagadish Pharmaceutical, Jaguar Land Rover Workshop, Jaibalaji Instrumentation & Services, Jairamdass Khushiram Impex Pvt Ltd, Janssen-Cilag (Johnson & Johnson Jagatish Pharmaceutical, Jaguar Land Rover Workshop, Jaiotaiaji Instrumentation & Services, Jarramdass Knusniram Impex Pvt Ltd, Janssen-Ciag (Jonnson & Jonnson Ltd), Jaslok Hospital and Research Centre, Jasubhai Engineering Pvt. Ltd., Jayant Furnishers Pvt Ltd, Jayant Scientific Industries, Jayashree Polymers Pvt. Ltd. Unit – 1, Jaypee Healthcare Ltd, Jayshree Electron Pvt Ltd, Jen Hotel, Jesons R & D Technology Center, Jhunkam Lighting Sys. Pvt. Ltd., Jindal Saw Ltd, JKT Enterprises Pvt Ltd. Navi Mumbai, JKT Enterprises Pvt. Ltd. JMD Auto India (P) Ltd, Joel Electricals, Johnson & Johnson Limited (Aurangabad), Johnson & Johnson Limited. (Mulund), Johnson & Johnson Ltd (Dharavi), Johnson & Johnson Ltd. —Baddi, Johnson & Johnson Medical, Johnson & Johnson Medical Ltd. (H.P), Johnson & Johnson Medical, HP, Johnson & Johnson Pvt Ltd. -Baddi, Johnson Control (I) Pvt. Ltd., Jol Electronic Instrumentation, Joseph Leslie & Co. LLP, JRS Associates, JSW Energy Ltd, Jubilani Foodworks Ltd, Jubilant Generics Limited, Jubilant Life Sciences Limited, Jubilant Life Sciences Ltd (Ambernath), Jubilant Organosys Ltd., Jubilant Pharma & Chemical Lab, Jumo India Pvt Ltd, Jupiter Electronics (S), Jupiter Hospital, Jupiter Integrated Sensor Systems Pvt. Ltd (S), JVM Industries, JVM Industries (S), Jyoti Switchgear Pvt.



Ltd, K.D.Instruments Services, K.D.R. Electronics, K.G.N.Diabetes & Endocrinlogy Centre, K.K.Engineering, Kaisha Manufacturer Pvt.Ltd., Kaisha Mfg. Pvt. Ltd., Kaizer International, Kalapi Printing Press, Kalashri Electronics Pvt. Ltd., Kalika Instruments & Services, Kalki Chemical Industries, Kalpataru Organics Private Ltd., Kalpataru Organics Pvt. Ltd., Kalyani Industrial Services, Kamal Motors, Kamala Engineering, Kamaths Ourtimes Icecreams Pvt Ltd, Kanan Knitwear, Kanara Industrial Corporation, Kanekar Consulting Engineers Pvt Ltd, Kankan Engineers, Karuna Pharma Pvt Ltd, Kashyap Engineering Company, Kaynes Technology India Pvt Ltd, KD Building Solutions Pvt Ltd, Kedar Industries, KEM Hospital, Kemwell Biopharma Pvt Ltd, Keshava Organics (Boisar), Keshrup Systems Pvt Ltd, Key Organics Pvt. Ltd. (Mahad), Keyur Industries, Keyur Pharmachem India Pvt Ltd, Kg Project & Equipment Marketing Co. Pvt. Ltd., Khandelwal Associates Prakash Chambers, Khandelwal Laboratories Pvt. Ltd., Khurana Oleo Chemicals, Kilitch Drugs (India) Ltd.- H.P, Kilitch Drugs(India) Ltd. Kimplas Piping System Ltd, Kineco Pvt Ltd, Kiran Jewelry, Kirti Industries, Kohinoor Hospitals Pvt Ltd, Kokilaben Dhirubhai Ambani Hospital, Kokuyo Camlin Ltd, Komal Scientific Company, Koncept Engineers, Konkan Techno Services, Kool Ex Cold Chain Ltd, Kool Solutions, Korten Pharmaceuticals Pvt Ltd, Koso India Pvt Ltd, Koyna Engineers Pvt Ltd, Kraft Foods, Kraft Foods – Thane, Kreepa Steel Industries, Krishna & Company, Krishna International, Krupa Tech Pvt Ltd, KRYFS Power Components Ltd, Kumar Sales Corporation, Kumud Metal Foundry Pvt. Ltd, Kundan Industries Limited, Kusam Electrical Industries Ltd, Kusam Meco Import Export Pvt. Ltd., Kusum Electrical Industries Ltd, Kusumgar Corporates Pvt.Ltd., L&T Construction, L&T Technology Services Limited, Lab Equip (I) Pvt Ltd, Lab House, Labcon Scientific Instuments Pvt. Ltd., Labindia Analytical Instruments Pvt. Ltd., Labindia Instruments Pvt Ltd, Laboratories Griffon Pvt. Ltd., Labtop Instruments Pvt Ltd, Lafil Engineering & Associates, Lakshmi Drugs Store, LAMFA Projects Pvt. Ltd., Landmark Consultants & Engg Technology, Larsen & Toubro Automation Ltd, Larsen & Toubro Ltd, Larsen & Toubro Ltd (Goa), Lasons India Pvt. Ltd., Lasons India Pvt. Ltd., Lawkim Motors Group, Lawrence Powertech(S), Laxmi Fire Service, Laxmi Industries (Vasai), Laxmi Narayan Industries, Laxmi Plastic Industries, Le Electronics Pvt Ltd, Lecon Engineers & Contractors Pvt Ltd, Leebo Metals Pvt. Ltd., Leebo Metals Pvt. Ltd.-Daman, Leena Powertech Engineers Pvt Ltd, Leica Microsystems, Leo Circuit Boards Pvt. Ltd., Lesanto Laboratories, Lifesan Clinical Research, Lilavati Hospital & Research Centre, Linux Machines Incorporation, Logiq Embedded Systems India Pvt. Ltd, Lotus Lab Pvt. Ltd., Lotus Techno Trade, Lourenco Marine, Loyal Industries, LTMMC & GH Medical College, Lupin Limited – PUNE, Lupin Limited (Boisar), Lupin Limited (Goa), Lupin Limited (Indore), Lupin Ltd (Mumbai), Lupin Ltd (Nagpur), Lupin Ltd (Vadodara), Lupin Ltd (Zirakpur), Lupin Pharmacare Ltd., Indore, Luxmi Ply & Hardware Mill Store, M S Switchgear Pvt Ltd, M. J. Lab Pvt. Ltd., M. R. Healthcare Pvt. Ltd, M.G.M.Medical College & Hosp Central Laboratory, M.S.E.D.C.L, M/s. Asmi Enterprises, M/s. Emsons, CHW, Maad Building Innovations Pvt Ltd, Mabpharm Private Limited, Mac Engineering Industries, Mac Systems, Macbrout Engineering Pvt Ltd, Mac-Chem Products(India) Pvt Ltd, Machine House India Pvt Ltd, Machine Tool Prototype Factory, Machinfabrik Industries Pvt Ltd, Macleods Pharma Ltd. (Andheri), Macleods Pharma Ltd. (R & D), Macleods Pharmaceuticals Ltd(Sikkim), Macleods Pharmaceuticals Ltd, R & D, Macleods Pharmaceuticals Ltd. (Andheri), Macleods Pharmaceuticals Ltd. (Sarigam), Macleods Pharmaceuticals Ltd., Baddi, Macleods Pharmaceuticals Ltd., Palghar, Madus Pharmaceuticals Pvt. Ltd, Magna Laboratories (P) Ltd., Mahalaxmi Enterprises, Mahanagar Gas Limited – Mumbai, Mahanagar Gas Ltd, Maharashtra Elec-Mech Works Pvt. Ltd, Maharashtra Pollution Control Board (Chandrapur), Maharashtra Pollution Control Board (Nashik), Maharashtra Pollution Control Board (Thane), Maharashtra Pollution Control Board Regional Lab, Maharashtra Pollution Control Board(Aurangabad), Maharashtra Pollution Control Board(Mahape), Maharashtra Pollution Control Board(Nagpur), Maharashtra Pollution Control Board(Patrashtra Pollution Control Board(Patrashtra Pollution Control Board(Ratnagiri), Maharashtra Rajya Sahakari Dudh Mahasangh Maryadit, Maharashtra State Electricity Dist Co Ltd, Mahavir Plastic Ind, Mahindra & Mahindra Ltd, Mahindra & Mahindra Ltd, M Manasvi Industries, Mancare Pharmaceuticals Pvt Ltd, Mandovi Dry Docks, Mandovi Motors Pvt Ltd, Mangalam Drugs & Org. Ltd. Unit-I, Mangalam Drugs Unit II, Manguari Agro, Manja Pharmaceutical Pvt Ltd, Mankind Pharma Ltd, Mankind Pharma Ltd., Manohar Packaging Pvt Ltd, Manomay Interiors Pvt Ltd, Maquet Medical India Pvt. Ltd., Maral Overseas Limited, Marine Automation, Marine Electricals (I) Pvt Ltd, Marine Electronics and Navigation Systems Pvt Ltd, Maritime Energy Heli Air Services Pvt Ltd, Marksans Pharma Ltd., Mars Enterprises, Maruti Hydraulics Pvt. Ltd., Mascasts, Mast Aviation, Mast Aviation Pvt Ltd, Marker Tech Engineering, Material Testing Machines Services, Matrix Laboratories Limited, Nashik, Matrix Laboratories Ltd., Max Energy Pvt Ltd, Max Healthcare Institute Ltd, Max Signage Industries Pvt Ltd, Max Super Speciality Hospital, Maxeff Engineering Pvt. Ltd., Mayfair Clinical Education & Research Centre Pvt. L, Mayuresh Industies, Mazgaon Dock Ltd, Mccoy Pharma Pvt. Ltd., McGeoch Marine Electricals Pvt. Ltd., MCK Kutty Engineers Pvt Ltd, Measurements International LLP, Measuretest Corporation, Measurewell Technologies, Mec Well Pharma Machinery Co, Mecord Systems & Services Pvt. Ltd, Medhavi Industries, Medi Sales Agencies, Medibios Laboratories (P) Ltd., Medical Products Of India, Medicef Pharma, Medico Remedies Pvt. Ltd., Medicore Laboratories Pvt. Ltd., Mediforce Healthcare Pvt. Ltd., Medigraph Pharmaceuticals Pvt Ltd, Mediplus (India)Limited.(Haryana), Medispec (I) Ltd, Medispray Laboratories Pvt Ltd, Medispray Laboratories Pvt Ltd, Medispray Latories Pvt Ltd, Medipharm – Chennai, Medopharm – Chennai, Me Services, Mega Engineering Pvt Ltd, Mega Rubber Technologies Pvt Ltd, Mehru Electrical & Mechanical (P) Ltd, Mehra API Pvt Ltd, Melody Healthcare Pvt. Ltd, Merck Limited-Goa, Merck Ltd Goa, Mercury Pneumatics Pvt Ltd, Mesco Tools & Components, Mesha Pharma Pvt. Ltd., Meta Lab Scientific Industries, Metal Analysis & Services Pvt Ltd, Metal Fabrik India, Metal Form, Metal Power Analytical (I) Pvt. Ltd, Metamorph Engineering (I) Pvt Ltd, Metro Cash & Carry India, Mettler Toledo India Pvt Ltd, Mevish Pharma Machineries (I) Pvt Ltd, Meyer Healthcare Pvt. Ltd., Meyer Organics Pvt Ltd, MFR Electronic Components Pvt Ltd, MFR Electronics Test Laboratory, MG Electrica, MGM Hospital, MGM New Bombay Hospital, MI Enterprise India Private Limited, Micro Interconnexion Pvt Ltd, Micro Lab Ltd., Micro Labs Limited – Sikkim, Micro Labs Ltd (GOA), Micro Measures, Micro Screw Mfg Co. Pvt Ltd, Microchem Laboratory Private Limited, Microchem Silliker Private Ltd, Microexpress- (Goa), Micron Calibration Lab, Micron Wires & Polymers Pvt. Ltd., Microsys Technology, Microxpress, MIDCO Ltd, Millenium Toyota, Millennium Agro Dynamic Pvt. Ltd. Minco India Pvt Ltd, Mini Electronic Industries Pvt Ltd, Miss Elina Dawoodani, Miss Swetha Jain, Miss. Priyanka, Miss. Stuti Shah, Missionpharma Logistics (I) Pvt. Ltd, Mitra S.K.Pvt. Ltd, Mitsu Chem Pvt. Ltd., Mittal Enterprises, MKS Commercial Pvt Ltd, Mobile System Complex, DRDO, Model Bucket & Attachments Pvt. Ltd., Model Buckets & Attachments Pvt. Ltd., Model Infra Corporation Pvt. Ltd, Mohan Singh Pharmaceuticals Formulations, Monarch Pharmalines(HYD)Pvt Ltd, Mondelez India Foods Ltd, Mondelez India Foods Pvt Ltd, Monk Automation Pvt Ltd, Monlife Electricals, Morepen Laboratories Ltd., Mosdorfer India Pvt Ltd, Motiff Laboratories Pvt. Ltd. Goa, Motion Drivetronics Pvt Ltd, Motion Metriks Components Pvt Ltd, Mr. Shri K V S, MSN Laboratories Pvt Ltd, MSS India Pvt. Ltd., MSS India Pvt. Ltd. – Nashik, MTAR Technologies Pvt Ltd, Mukand Engineering Company, Muktar Automobile Pvt Ltd, Multi Tech Engineers, Multiflo Instruments Pvt. Ltd, Multiquadrant Ind Controls (I) Pvt Ltd, Mumbai Port Trust, Mumbai Waste Management Ltd, Mutual Industries Ltd., My Biotech Pvt Ltd, Mylan Pharmaceuticals Pvt Ltd, N Gandhi & Co, Naanolab India, Nagesh Enterprises, NAI Karanja Naval Station, Naik Seafood Pvt Ltd. (Ratnagiri), Naminath Engineering Pvt. Ltd, Nanda Transformers (India) Pvt Ltd, Nano - Mag Technologies Pvt. Ltd., Naprod Life Science Private Ltd, NAQIL Express, Naresh Marketing, Narkhede Udyog, Narmada Offshore Constructions Pvt Ltd, NASH Robotics & Automatiion Pvt. Ltd., Nashik Engineering Cluster (S), Nashik Insulation Pvt Ltd, Nasik Metaldust Pvt Ltd, Nat Steel Equipment Pvt Ltd, NATCO Pharma Limited, National Bulk Handling Corporation Ltd, National Centre for Disease Control, National Engineering Corporation, National Steel Traders, National Test House, Naval Dockyard, Naval Materials Research Laboratory(NMRL), Navin Corporation, Navin Corporation, Ghatkopar, Navkar Fittings & Forgings Pvt. Ltd, Navneet Publications India Ltd, Navnidh Pharma Lab, Navaj Enterprises, Navrattan Enterprises, Naxpar Lab Pvt. Ltd, Naxpar Pharma Pvt. Ltd., Nayan Trade Corporation, NBZ Pharma Ltd, Nectar Lifesciences Ltd, Neel Beverages Pvt. Ltd., Neela India Pvt. Ltd., Neela Systems Limited, Neelay Metal Industries, Neha Enterprises, Nem Laboratories (P) Ltd., Neo Laboratories Limited, Neotroniks Pvt Ltd., Neptune Enterprises, Netal (India) Ltd, Netel (India) Ltd, New Heaven Steel Ball Co. Pvt. Ltd., New Heaven Steel Ball Corporation Pvt. Ltd., New Krishna Metal Arts, New Ray Engineering Power and Automation System, New Simla Dairy, New Standard Calibration Laboratory, Newtronic Equipment Company Pvt. Ltd., Newtronic Lifecare Equipment Pvt Ltd., Next Wave (India) Ltd, NGL Fine - Chem Ltd., NGL Fine Chem Limited (Pawane), NGL Fine Chem Limited-Boisar, Nihara Equipment Private Limited, Nilkanal Ltd, Nilsan Nishotech Systems Pvt Ltd, Nimbus Industries, Nimbus Industries - Nashik, Nishaka Pneumatics, Nishika Pneumatics, Nitin Engineering Works, Nitin Life Sciences Ltd (Paonta Sahib), Niton Valve Industries Pvt. Ltd, Noble Goo Structs, Noble Hospital, Nobtech Enterprise, Nocil Limited, Noor Engg Works, Norris Medicines Ltd, North 16, Nova Integrated Systems Limited, Novartis Health Care Pvt. Ltd.-Hyderabad, Novartis Healthcare Pvt. Ltd., Nova Electronics & Controls, Offshore Marinetech Pvt. Ltd, Offshore Testing & Insp. Services (I) P.Ltd (S), OHASBAN INDIA, Ohmkar Equipments, Oil Field Supplies, Oil Natural Gas Corporation Limited, Okasa Pvt Ltd, Okasa Pvt Ltd (Satara), Om Creations Trust, Om Engineers, Om Enterprises, Om Venture, Omega Accurate Forgeingm, Omega Biomedical Services, Omega Kemix Pvt. Ltd, Omega Products Pvt Ltd, Omega Rolling Mills, Omega Rolling Mills Pvt. Ltd., Omega Service, Omkar Electricals, Omkar Enterprises, Omkar Industries, Omkar Plastotech Pvt Ltd, Omkar Puf Insulation Pvt Ltd, Omkar Realtors & Developers Pvt Ltd, Omkar Speciality Chemicals Ltd., Omkar Speciality Chemicals Pvt. Ltd., OPAL HVAC Engineers Pvt. Ltd, Optima Weightech Pvt Ltd, Orchid Biomedical Systems, Orchid Chemicals & Pharmaceuticals Ltd., Ordnance Factory, Oriental Export Corporation, Oswal Valves (P) Ltd.(Boisar), Oyster Medisafe Pvt Ltd, P. I. Drugs & Pharmaceuticals Ltd., P.Chhotalal Distributors, P.D.Hinduja National Hosp& Medical Reasearch Centre, P.K.Composites Pvt Ltd, P.M. Electro-Auto Pvt. Ltd, Pace Engg. Industries Pvt. Ltd., Pacific Systems, Pacific Tools Pvt. Ltd., Padmaja Aerobiologicals Pvt Ltd, Pams HVAC Controls, Panacea Biotec Ltd (Delhi), Panacea Biotec Ltd., Panacea Biotec Ltd. (Mahape), Panchal Automobiles, Panchal Engineering Works, Panchal Roll Forming, Panera Biotec Pvt. Ltd, Par Filters Pvt Ltd, Parabolic Drugs Ltd, Paradigm Enterprises, Param offshore Services Pvt Ltd, Paras Pharmaceuticals Ltd., Parazelsus India Pvt. Ltd, Parco Engineers M Pvt Ltd, Parekh Integrated Services Pvt Ltd, Paresh Engineering Ind., Parker Hannifin India Pvt. Ltd, Parksan Filter Pvt. Ltd., Parle Agro Private Limited, Parle Elizabeth Tools Pvt. Ltd., Parle Global Technologies Pvt. Ltd., Parle International, Parle Products (P) Ltd, Parle Tablet Tools Pvt. Ltd., Parnax Lab Pvt. Ltd, Parveen Industries Pvt Ltd, Paschim Banga Pharmaceutical, Patni Engineers, Patton International Limited, Pavnai Industries, Paxchem Ltd, Payal Engineers, PCI Analyticals Pvt. Ltd. – Bhandup, PCI Analytics Pvt. Ltd, PCL Suma Air Technology Pvt Ltd, PDP Life Science Logistics (I) Pvt. Ltd, Peco Valves Pvt. Ltd., Pelltech Healthcare Pvt. Ltd, Pentagon Electronics Pvt. Ltd., Pentair Water India Pvt Ltd, Perfect Circle India Ltd, Perfect Instrument Corporation, Perfect Instrumentation Systems & Controls, Performance Analyst Pvt Ltd, Periclave, Permanent Magnets Limited, Pernod Richard India Pvt Ltd, Perpetual Technologies, Perrigo API India Pvt Ltd, Perrigo Laboratories India Pvt Ltd, Pest Control (I) Pvt Ltd, Pest Control (I) Pvt Ltd (Delhi), Pest Control (I) Pvt Ltd (Vadodara), Pest Control (I) Pvt Ltd. Amritsar, Pest Control (I) Pvt Ltd(Pune), Pest Control (India) Pvt Ltd (Bhopal), Pest Control (India) Pvt. Ltd, Pfizer Pharmaceutical (I) P.Ltd, PFS Courage, Pharma - Medico (I) Pvt Ltd. (Jogeshwari), Pharma Air Control Engineers, Pharma Base (I) Pvt Ltd. (Ambernath), Pharma Force Lab, Pharma Force Laboratories, Pharma Logistics, Pharma Logistics Ltd. (Panchkula), Pharmafiliates Analytics & Synthetics Pvt. Ltd, Pharmakem Enterprises, Pharma Logistics, Pharma Logi Piramal Pharmaceuticals Development Ser. Pvt. Ltd, Plaschem Instruments, Plaschem Instruments (S), Plastech Thermosensor (S), Plastofab Pvt. Ltd., Platec Industries, Plethico Pharmaceutical Ltd., PMP Auto Components Pvt Ltd, PN NJ Industries Pvt Ltd (Daman), PN-NJ Industries Pvt. Ltd, Polestar Coils Pvt Ltd, Poly Products, Poly Weights, Polycab Wires Pvt Ltd, Polydrug Laboratories Pvt. Ltd., Polynova Industries Ltd, Polypeptide Laboratories Pvt. Ltd, Poonawala Scale Repairing Works, Popular Rubber Products, Portescap India Pvt. Ltd., POSCO-Maharashtra Steel Ltd, Power Control Technology & System Pvt Ltd, Power Electronical, Power Matrix Solutions Pvt



Ltd, Powerdot (S), POWERINST, Powerinst Electromagnets Pvt Ltd, Powermaster Engineers Pvt Ltd., Powertel Engineering Pvt. Ltd., Powertrackanalysers Pvt Ltd, PPG Asian Paints Pvt Ltd, Prabha Engineering Pvt Ltd, Prabhat Dairy Pvt. Ltd., Pradako Fasteners, Pragati Biotech And Life Science, Pragat Electricals Pvt Ltd, Pragati Industries, Pragati Switchgear (Vasai), Pragati Udyog, Praj HiPurity Systems Ltd, Prajyo Instrument & Maintenance Services, Prakash Industries. Prama Instruments Pvt. Ltd., Pranav Engineering, Prasad Enterprises, Prasad Industries, Prasanna Electromech, Prasanna Electrotech, Prashi Pharma Pvt. Ltd., Prathamesh Electricals & Co., Prayog Electricals Pvt Ltd, Prayosha Automation, Precikot Pharma Pvt Ltd.(Vasai), Precise Analytics, Precise Analytics Lab, Precise Chemipharma Pvt.Ltd, Precise Electricals, Precision Engineers, Precision Engineers & Fabricators India Pvt Ltd, Precision Plastic Industries (P-97), Precision Plastic Industries (P-99), Precision Plastic Industries Pvt. Ltd, Precision Rubber Industries Pvt. Ltd, Precision Rubber Industries Pvt. Ltd. - Thane, Preci-Tech Weighing Systems, Precitum Engineering Pvt Ltd, Premium Plast Pvt Ltd, Premium Tools Pvt Ltd, Press Tech (India) Pvt Ltd, Prestige Electronics, Prestige Industries, Presto Switchgears Pvt Ltd, Prijai Heat Exchangers Pvt Ltd, Prime Engineers, Prime Enterprises, Prince Aly Khan Hospital, Prinz Engineers, Prism Calibration Centre, Process Precision Instruments, Procter & Gamble Home Products Ltd, Procter & Gamble Home Products Pvt Ltd, Procter & Gamble Hygiene Health Care Ltd, Prof. & Head, Proficient Industries, Progressive Engineering, Progressive Engineering Works, rogressive Engineering Works (Dahisar), Progressive Surface Systems Pvt. Ltd., Prolific Chemical Pvt Ltd., Prolific Chemicals Pvt. Ltd., Promas Engineers Pvt Ltd., Propack Technologies Pvt Ltd., Prosperity 6 Pharmaceutics, Pro-Tech Engineers & Fab Pvt Ltd, Protego India Pvt. Ltd, Providence Industries (S), PRS Permacel Private Ltd, PS Coatings Pvt Ltd., Psychotropics India Limited (Haridwar), Psychotropics India Limited (Haridwar), Psychotropics India Limited (Faridabad), PTS Packers and Providers Pvt Ltd, Putzmeister India Pvt Ltd, PV Powertech Pvt Ltd, Qrics Calibration Lab, Quadrant Measurements Pvt Ltd, Qualitek Instruments, Quality Calibration Centre, Quality Health Management System, Quality Windings, Qualpro Diagnostics, Quick Industrial Supplier, Quick Industrial Suppliers, R.K.Industries, R.N.Laboratories Pvt Ltd. (Gujarat), R.P.Khedkar Calibration & Testing Center, R.R.Powder Coats, Radhakrishna Foodland Pvt. Ltd., Radiological Precision Labs (India) Pvt Ltd, Rainbow Deco Plas Pvt Ltd, Rainbow Teco Plas Pvt Ltd, Raj Biotec (India) Pvt. Ltd, Raj Instrument Service, Raj Sathyam Analytical Laboratory, Rajason Engineering, Rajasthan Antibiotics Limited, Rajendra Mechanical Ind. Ltd., Rajendra Mechanical Industries Ltd., Rajendra Plastics, Rajeshwar Enterprises, Rajiv Plastics Industries(UNIT-1)-VALSAD, Rajyog Safety & Health Pvt Ltd, Rakyan Beverages Pvt Ltd, Ramelex Testing & Research Institute, Ranbaxy Laboratories Limited, Ranbaxy Laboratories Limited (Barotiwala), Ranbaxy Laboratories Limited (Malanpur), Ranbaxy Laboratories Limited -R&D Plant (Gurgaon), Ranbaxy Laboratories Ltd (Zirakpur), Ranbaxy Laboratories Ltd. (Toansa), Ranbaxy Laboratories Ltd. – Batamandi, Ranbaxy Laboratories Ltd. (Ganguwala(Poanta), Ranbaxy Laboratories Ltd. (Dewas), Ranbaxy Laboratories Ltd. (HP), Ranbaxy Laboratories Ltd. (Mohali), Ranbaxy Laboratories Ltd. –Paonta, Rane Elastomer Processors, Raptakos, Brett & Company Ltd, Raptim Research Ltd, Rashtriya Industries, Ratna Pharma Distributor, Ratnagiri Gas & Power Pvt. Ltd, Ratnagiri Elastonier Processors, Rapitatos, Brett & Company Ltd, Raptilin Research Ltd, Rasintrya Industries, Ratina Pharmia Distributor, Rathaghr Vas & Power Pvt. Ltd, Raniaghr Krishi Prakriya Sahakari Sanstha Maryadit, Ratnaparkhi Electronics Ind Pvt Ltd, Raut Uni Tech Pvt Ltd, Ravina Life Science Pvt. Ltd, Ravindra Enterprises, Raychem RPG (P) Ltd, Raychem RPG Pvt Ltd(Pune), Raymond Limited, R-Bio Lab Solutions, RCH Orthopaedics, Real Cool, Real Drinks Pvt Ltd, Reckitt Benckiser Healthcare India Ltd, Redilens, Reema Transport Pvt. Ltd., Reinvent Technologies, Relax Pharmaceuticals Pvt. Ltd, Reliable Analytical Laboratories Pvt Ltd (S), Reliance Biopharmaceuticals Pvt Ltd. (Rabale), Reliance Infrastructure Limited, Reliance Life Sciences Pvt. Ltd., Reliance Power, Remi Electrotechnik Ltd, Remi Sales & Engineering Ltd, Research Center Substainable Solutions Pvt Ltd, Retort Chemical Pvt. Ltd. (Plant - I), Retort Chemicals, Retort Chemicals Pvt. Ltd.(PlantII), Revathi Enterprises, Rexam HTW Beverage Can (India) Ltd, Rexein Pharmaceuticals Pvt. Ltd., Rich Flora, Richter Themis Medicare (India) Pvt. Ltd, Riddhi Siddhi Plastic, Riden SPC, Rinac India Limited, Ring Plus Aqua Ltd, Rishabh Instruments Pvt Ltd, Rishichem Research (P.) Ltd., RLC Engineers Pvt. Ltd., Rochem Separation Systems (India) P.Ltd., Rochem Seperation Sys. (India) Pvt. Ltd., Roechling Engineering Plastics (India) Pvt Ltd, Rolex Lanoline Products Ltd., Roll Master Engineers, Rolls-Royce Marine India Pvt. Ltd, Ronch Polymers Pvt Ltd, Royal Are Electrodes Ltd., Royal Plastic Industries Pvt. Ltd, RPG Life Sciences Ltd., Ruby Electrical Corporation, Rucha Pharma, Rushabha Entrepreneur, Rutek Scientific Solutions Pvt Ltd, S A Encon Pvt Ltd, S G Automation, S J Enterprise, S K Logistics, S. D. Fine Chem Ltd., S. Zhaveri Pharmakem Pvt. Ltd., S.B.Instruments Services, S.B.Panchal & Co., S.C.Engineering, S.K.Technical Engg, S.L.Raheja Hospital, S.M.Systems, S.N.Enterprises, S.N.Instruments, S.P. Instruments & Services, S.S.K. Engineering Works(India) Pvt. 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(S), Shreenath Chemicals, Shreesai Enterprises, Shri Bhavani Pharmaceuticals, Shri Ganesh Packaging Company, Shri Hari Industries, Shri Harilal Bhagwati Municipal Genral Hospital, Shri Jai Enterprises, Shrihans Electricals Pvt. Ltd., Shrihans Electricals Pvt. Ltd. – Mulund, Shrinath Prestressed Pvt Ltd, Shrinivas Chemical Industries Pvt. Ltd., SHROFF TEXTILES LIMITED – Tarapur, Shubhada Polymers Products Pvt Ltd. Pvt. Ltd., Mulund, Shrinath Prestressed Pvt. Ltd, Shrinivas Chemical Industries Pvt. Ltd., SHROFF 1EX IILES LIMITED—Tarapur, Shubhada Polymers Products Pvt. Ltd., Shubhim Electronics and Electricals, Shubhline Services, Shweta Winding Services, SI Group India Limited, Siddhakala Engineering, Siddharth Chemicals, Siddharth Material Handling Pvt. Ltd., Siddhi Distributors, Siddhi Equipments Pvt. Ltd., Sidhivinayak Enterprises, Sidmak Laboratories (I) Pvt. Ltd.-Dehradun, Sidmak Laboratories (India) Pvt. Ltd. (Valsad), Siemens Building Technologies Pvt. 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QUALITY OBJECTIVES

Our quality objectives are:

- On-time completion of calibrations in 95% of cases.
- Error-free reporting within the committed time in 95 % cases.
- Assuring quality of the calibration results through satisfactory participation in Inter Laboratory Comparison for all Calibration Parameters Once in every 4 years.
- Acceptance criteria for supplier evaluation to be 70 % minimum.
- Customer satisfaction index to be 80% minimum
- Increase in customer base by 10% every year

QUALITY POLICY

We, at AUTOCAL SOLUTIONS PVT. LTD are committed to:

- Provide calibration services as per our documented Quality Management System laid down in line with ISO/IEC 17025:2005 and the requirements of NABL Specific Criteria to the satisfaction of our Customers.
- Assure Reliability of our calibration result by ensuring traceability to National or International standards.
- Train all members of the Laboratory to exhibit competency while performing calibrations and to encourage them to maintain impartiality, integrity and a high degree of credibility in their work.
- Improve the quality of our services and continually improve the effectiveness of management system.
- Ensure good professional laboratory practices are established and followed.
- Ensure that all personnel concerned with calibration activities within laboratory familiarize themselves with the Quality documentation and implement the policies and procedures in their work.



BRIEF ABOUT AUTOCAL TRAINING MODULE

Autocal has conducted several training programs, in-house and at customer's premises.

ASPL offers training courses to help individuals gain the skills that they require in the field of Measurement and Calibration.

These training programs are also tailor made as per customer's needs at ASPL offices or at customer's site on request. The instructor is an expert in their field and has extensive experience of more than 15 years in measurement and calibration.

Understanding the principles of measurement and calibration can lead to better decisions on product purchasing, reduced need for expensive technical support and reduced operational mistakes with expensive consequences.

We have already conducted Calibration Metrology awareness training, ISO/IEC: 17025:2005, measurement uncertainty training as per NABL 141 for below clients:

- Jubiliant Organosys Ltd
- Regent Drugs Ltd (Teva Group)
- **♣** Sun Pharmaceuticals industries Ltd
- ♣ D.Y. Patil College of Engineering (Pune)
- L&T, Pune
- ♣ Western Pharma, Goa
- ♣ Johnson & Johnson, Aurangabad
- ♣ MSEB Nashik (Testing division)
- 4 Aditya Vidyut Appliances Pvt. Ltd.













CONSULTANCY SERVICES

- ₩ We are consulting with experienced firm **B. G. Kini** for below services:
- > Training-All your training needs will be covered by ASPL Professional and Industry Experts staff.
- Audit- Whether its Pharmaceutical- API, GMP, GLP or Oncology Audit Autocal shall nurture you to successfully qualify your audit.
 - Pharma API
 - GMP GLP
 - Oncology
- ➤ Trouble Shooting- ASPL provides the right methods for all your trouble shooting whether it's Quality, Pharma System, Out of Specification/ Out of Trend, Deviation Management, Change Control Management, Quality Risk Management & Root Cause Analysis.
 - Quality Pharma System
 - Out of Space/Out of Trend
 - Deviation Management
 - Change Control Management
 - Quality Risk Management
 - Root Cause Analysis
- ➤ **Inspection-**Inspection of Pharmaceutical Plants.

♣ Consultancy services as per ISO/IEC 17025:2005, ISO 15189:2012

We are extending consulting services in set up of new calibration lab and guidance to get NABL accreditation for calibration & testing laboratories according to ISO/IEC 17025:2005 in which we cover following points:

- ➤ Initial Gap Analysis of your existing system.
- ➤ Help in getting your equipment's calibrated from NABL Laboratory.
- > Preparation of quality manual and other quality system related documents.
- > Preparation of standard operating procedures.
- > Planning and conducting of internal audit.
- ➤ Help in conducting the Proficiency Testing and ILC
- Finalizing the NABL Testing calibration scope & application to NABL.
- > Guidance for the readiness for the pre-assessment.
- > Guidance to the closure of the pre-assessment, non-conformities.
- ➤ Help in getting prepared for final audit.
- > Guidance for the closure of non-conformities.





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For Calibration Accredited by NABL as per ISO / IEC 17025: 2005 For high precision calibration in *CC-2382*