

**Sadbhav Calibration Services**  
**Vadodara-390011**

**MECHANICAL (DIMENSIONAL / LINEAR MEASUREMENTS)**

Sr. No	Equipment/Parameter/	Range	Non NABL (Rs/Each)	NABL (Rs/Each)
1	Caliper (Digital/Dial/Inside/Vernier)			
	(digital/dial/inside/vernier)	Up to 150mm*	240	260
		150 to 300mm*	325	360
		300 to 450mm*	415	500
		450 to 600mm*	510	615
		600 to 800mm*	625	690
		800 to 1000mm*	740	820
		1000 to 1200mm	835	920
		Up to 2000mm	1800	not in scope
2	Height/Depth Gauge	Up to 300mm*	370	410
	(Digital/Dial/Vernier)	300 to 600mm*	515	570
		600 to 1000mm*	690	760
		1000 to 1200mm	835	920
3	External Micrometer	Up to 100mm*	240	260
	(External/Inside/Depth)	100 to 300mm*	325	360
		300 to 600mm*	480	530
		600 to 800mm*	615	680
		800 to 1000mm*	780	860
		1000 to 1500mm*	1400	1690
		Setting Rods up to 300mm*	90	
		Up to 2000mm	2100	
		Up to 5000mm	3200	
4	Micrometer Head	Up to 25mm*	1250	1375
		25 to 50mm*	1750	1925
5	Dial Gauge	Up to 5mm*	300	330
	(Plunger/Lever/thickness)	5 to 25mm*	370	410
		25 to 50mm	525	580
		50 to 100mm	680	750
	Ultrasonic thickness gauge (5 Steps in Range)	Up to 5mm*	300	---
		5 to 25mm*	370	---
		25 to 50mm	525	---
		50 to 100mm	680	---
		100mm to 200mm	870	---
	Step Wedge	1 Nos.	300	330
	Electronic Sensor (Soletron)	Up to 10mm	1500	---
6	Dial Calibration Tester	up to 25mm*	2500	2750
7	Bore Gauge (any size)	up to 1mm throw*	400	440
		anvils	50	55
8	Measuring Scale	Up to 300mm*	170	190
	(Glass/Steel)	300 to 1000mm*	315	350
		Up to 2000mm	1850	2100
		Up to 3000mm	2450	3200

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9	Tape & Scale Checker	Up to 1000mm*	4500	4950
10	Object Micrometer/Eyepiece	up to 1mm*	2500	2750
	(Glass Scale for Microscopy)	1 to 10mm*	1500	1650
		10 to 25mm	1000	1100
11	Foils of Coating Thickness Gauge	up to 1mm*	300	330
	(up to 3nos)	1 to 3mm	450	495
	Up to 3 foils , 120 extra for each additional foil			
12	Feeler Gauge(Rate per Strip)	0.01-1mm*	30	33
13	Plain Snap Gauge/Key Way Gauge	6-200mm*	315	350
14	Plain Plug Gauge	1 to 100mm*	315	350
		100 to 200mm*	375	415
		200 to 300mm*	425	470
15	Linear Probe / Displacement Sensor	0-5mm*	1000	1100
16	Radius Gauge	0.5 to 13.5mm*	75 per leaf	95 per leaf
		13.5 to 25mm	100 per leaf	125 per leaf
17	Bevel Protector	0-90-0*	490	540
18	Combination Set	0-90-0*	490	540
19	Angle Protector	0-180-90*	315	350
	Precision Square/Right Angle/V block	600mm	315	not in scope
20	Test Sieves	32 to 4000micron*	1250	1450
		4000 to 25000micron	1250	
		25mm to 20mm	850	
21	Ford Cup	major/minor dia*	350	385
22	Profile Measurement	per dimension*	150	165
23	Extensometer/COD Gauge	Up to 3mm travel*	6500	7150
	(Electronic / Mechanical)	3 to 25mm travel	9350	
24	Profile Projector	complete*	4500	4950
25	Microscopes/Macroscopic	up to 50x*	3800	4180
	(Objective Calibration)	50x to 100x*	4500	4950
	Travelling Microscope	full range	1850	2250
	Tool Maker Microscope	full range	4500	4950
	Charges above are for calibration: Servicing charges are extra: Rs. 7500/- for Imported and 4500/- for Indian Microscopes			
	Light Scope up to 50x		950	1250
26	Measuring Tape / Pie Tape*	1 to 5mtr*	250	275
		>5 to 15mtr*	450	495
		>15 to 30mtr*	600	660
		>30 to 50mtr*	800	880
	Electronic Tension Sensors with Indicator	1 to 5mtr*	950	---
		>5 to 15mtr*	1250	---
		>15 to 30mtr*	1550	---
		>30 to 50mtr*	1850	---
27	Slip Gauge Set/Gauge Block Set	Up to 100mm	35/- per slip	60/- per slip
		100 to 200mm	440/- per slip	

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28	Pin Gauge	Up to 50mm*	25/- per pin	27/- per pin
29	Linear Measurement (our resolution: 1micron)		350/- per dimensions	
30	Angular Measurement (our resolution: 1minute)		Rs. 550/- per Angles	
31	Radial Measurement (Our resolution: 1 micron)		Rs. 750/- per Radius	
32	Thread Plug Gauge (subcontracted)	Up to 50mm	550=00	700
		Up to 100mm	750=00	900
33	Thread Ring Gauge (subcontracted)	Up to 200mm	760=00	1100
34	Roughness Specimen		1280	---
35	Spirit Level (subcontracted)	subcontracted	2500	2850
36	ring Gauge	200mm	280	550
37	Thread Pitch Gauge	Up to 25mm	95/- per leaf	----
38	Pit Gauge/Welding Gauge/step gauge		330/-	
39	Speed Indicator		330/-	
40	Glass Ware / Measuring Jar / Volumetric	Up to 500ml	950	
		Up to 1 Liter	1450	
		Up to 5 Liter	not in scope	
		Up to 20 Liter	not in scope	
41	Micrometer Eyepiece for Brinell 10x		1000	
42	Digital Inclinator		2450	---
43	Dumpy Level	5 parameters	1650	--

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44	Length Measuring system		1250	
45	Hydrometer	0.7 to 1.4	550=00	---
46	V-Block		315	--
47	Straight Edge	1mtr	2650	
		2mtr	3150	
		3mtr	3550	
		4mtr	3950	
		5mtr	4500	
48	Wet film Thickness Gauge		1200	

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**MECHANICAL (PRESSURE)**

	<b>Equipment/Parameter/</b>	<b>Range</b>	<b>Non NABL (Rs/Each)</b>	<b>NABL (Rs/Each)</b>
1	Pressure Gauges	Vaccum Gauge*	450	495
	(Incl: indicator with sensor)	up to 2kg/sq.cm*	300	330
	Pressure Transmitter	2kg to 20kg/sq. cm*	350	385
		20kg to 150kg/sq.cm*	350	385
		150 to 700kg/sq.cm*	350	385
		1 to 1000mm WC*	300	330
		Compund Gauge	450	495
	Master Digital Pressure Gauge	full range	850	985
	Saftey Valves	Up to 40kg/sq.cm byAIR	850	935
		Up to 700kg/sq.cm by OIL	1050	1155
	Dead Weight Tester	Single mode	3700	
	Up to 700 Bar	Dual mode	4700	
	Pressure chart recorder	for primary channel	385	495
		each additioonal channel	195	275
	Pressure Transmitter Heart Based	Up to 700Bar	1385	1550
	Digital Manometer	1 to 1000mm WC*	1385	1550

PT+DP+TEMP

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<b>MECHANICAL (FORCE/HARDNESS)</b>				
<b>Sr. No</b>	<b>Equipment/Parameter/</b>	<b>Range</b>	<b>Non NABL</b>	<b>NABL (Rs/Each)</b>
1	Tensile Testing Machine	Up to 5kN*	2500	2750
	(Tension Mode)	Up to 25kN*	4500	4950
		Up to 50kN*	4500	4950
		Any Additional Load Cell to calibrate in same machine	50% of the Basic Charge	
		Calibration of same load cell in compression mode also	50% of the Basic Charge	
2	Universal Testing Machine	100N to 1kN*	2500	2750
	(Compression Mode)	Up to 25kN*	4500	4950
		Up to 50kN*	4500	4950
		Up to 100kN*	5500	6050
		Up to 200kN*	6500	7150
		Up to 400kN*	8500	9350
		Up to 600kN*	8500	9350
		Up to 1000kN*	10500	11550
		Up to 2000kN	28000	
		Up to 3000kN	32000	
	Winding Press	Up to 1000kN	17500	
		Up to 3000kN	28500	
	Proving Ring	Using your UTM	2750	
3	Impact Testing Machine	300J BS Standard*	18500	20350
		300J ASTM Standard	28500	31500
		542J ASTM Standard	28500	31500
	Hardness Tester (Indirect Verification)			
4	Rockwell Hardness Tester	Any one Scale	2200	2420
	(RA, RB, RC Scale)*	Each Additional Scale	450	495
5	Superficial Rockwell Hardness*	Any one Scale	2200	2420
	(15,30,45N Scale, 15,30,45T Scale)	Each Additional Scale	450	495
6	Brinell Hardness Tester	Any one Scale	3450	3795
		Each Additional Scale	650	715
	Load Verification of Brinell		4500	
7	Vicker's Hardness Tester	Any Two Scale	4450	4895
	HV 0.1, HV1, HV5, HV10, HV30 Scale* (HV 0.2, 0.5 Non NABL)	Each Additional Scale	950	1045
8	Portable Hardness Tester	Any two Scale/range	2650	not in scope
		Each Additional Scale/range	1000	not in scope
9	DWTT	load and velocity	2150	
10	Shore Hardness Tester	20 to 90: A	1250	not in scope
		20 to 90: D	1250	not in scope
11	Push Pull Tester	Up to 5kg	870	
		5kg to 50kg	1500	
12	Ericson Cupping Tester	9 dimension and movement of	1550	

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MECHANICAL (MASS_TORQUE)					
Sr. No	Equipment/Parameter/	Range	Non NABL (Rs/Each)	NABL (Rs/Each)	
1	Torque Wrench	10 to 100Nm*	350	385	
		100 to 300Nm*	450	495	
		300 to 500Nm*	580	640	
		500 to 1000Nm	1450	1595	
		1000 to 2000Nm	2250		
2	Weighing Balance	1mg to 220gm*	950	1150	
		220gm to 5kg*	1260	1450	
		up to 20kg	2250	---	
		up to 100kg	2950	---	
		up to 150kg	3500	---	
	Spring Balance	up to 20kg	1500	---	
3	Weight Box	0 to 200gm	990	1450	
		Weights	loose piece up to 200gm	90 per piece	110 per piece
			>200gm to 5kg	170 per piece	190 per piece
			>5kg to 100kg	950 per piece	---

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THERMAL & OPTICAL					
Sr. No	Equipment/Parameter/	Range (degree C	Non NABL	NABL (Rs/Each)	
1	Thermocouples/Sensors*	Amb to 400	360	480	3 points
		Amb to 800	690	850	3 points
		Amb to 1100	990	1090	3 points
		0 to Amb	360	---	per reading
		-80 to 0	990	---	pre reading
2	RTD Sensors*	Amb to 400	360	480	3 points
		0 to Amb	360	---	per reading
		-80 to 0	990	---	pre reading
3	Sensors with Indicator* (Digital Thermometer)	Amb to 400	550	770	3 points
		Amb to 800	930	1140	3 points
		Amb 1100	1230	1380	3 points
		0 to Amb	550	625	per reading
		-80 to 0	550	675	per reading
4	Temperature Indicator/Controller*: per channel	(-200 to 1300	240	290	5 points
5	Recorder only : per channel	(-200 to 1301	240	290	5 points
	Recorder with sensors : per channel	Amb 400	550	770	3 points
		Amb 800	930	1140	3 points
		Amb 1100	1230	1380	3 points
		0 to Amb	550	625	per reading
		-80 to 0	550	675	pre reading
6	Infrared Thermometer	Up to 400	650	not in scope	3 points
		Up to 600	950	not in scope	3 points
7	Welding electrode Heating Oven	Up to 400	550	750	3 points
	Mother oven by comparision	0 to 400	550	750	3 points
		0 to 800	930	1140	3 points
8	Glass Thermometer	50 to 400	290	1200 (sub contract)	3 points
		-80 to 0	550	675	per reading
		0 to 50	550	625	per reading
9	Muffle Furnace complete	Up to 1100	990 per set point		
10	Hygrothermometer/Dew Point	temp/RH	870	2700**	3 points
11	Temperature Bath	Up to 1100	990 per set point		Non NABL
12	Autoclave(Calibration of Indiator with sensor)	Up to 400	550	750	
	Validation of Autoclave	Up to 400	990 per set point		
	50% Extra for each additional points				
13	Temperature Transmitters	Up to 1300 deg	1385	1550	5 points

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ELECTRICAL PARAMETERS					
Sr. No	Equipment/Parameter/	Range	Non NABL (Rs/Each)	NABL (Rs/Each)	
1	Multimeter*	3.5, 4.5 digit	1250	1550	3 points in range
		5, 5.5 digit	2250	3350	3 points in range
Calibration of V,I,R only, and frequency up to 1kHz under NABL scope					
Other ranges are can be calibrated with NABL traceability at an extra cost of Rs. 450/- per range per mode: 3 readings per range					
2	Megger*	full range	990	1280	3 points
3	Volt Meter / Ammeter	full range	380	475	3 points
4	/Earth Tester / Calibrator*/CR Meter/Megaohm Meter/Microohm/Millionohm	full range	380	475	per range per mode 3 points in range
Since we have limited ranges in scope : please confirm the ranges with our engg before submitting for calibration					
5	Techometer: non contact	full range	990	not in scope	3 points
6	Jeep Meter	complete	2750	not in scope	3 points
7	Holiday Detector	complete	2150	not in scope	3 points
	Zeep Meter	complete	2750	not in scope	3 points
8	Timer/Stop Watch*	Up to 1 hr	240	290	3 points
		Up to 5 hr	480	580	3 points
		Up to 15 hr	1500	2000	3 points
		Up to 24 hr	3000	4000	3 points
9	PH Meter	0-14 PH	870	1040	
10	Clamp Meter/Current probe/RPN	full range	990	1450	3 points
Higher Amp. Ranges are not covered in NABL scope: cxertificate shall be with NABL traceability					
11	Electrical Earth PIT Testing as per ISO		750/- per Earth PIT		
50% extra for each additional points					
12	HV Tester/pore test	Up to 5KV	1450		3 points
		Up to 30KV	2250		3 points
		Up to 100KV	3750		3 points
13	Oil Test Kit		2850		
14	Std. CT: Class: 0.1 or 0.2	First Taaping	850		
	Single Burden	Extra Tapping	450		
	Std. CT: Class: 0.5		650		
	Std. CT: Class: 1		450		
15	Burden Box for Each Tapping		280		
16	Std. PT: Class: 0.1 or 0.2	First Taaping	1180		
	Single Burden	Extra Tapping	680		
17	Any Electro-Technical Parameters (Measure/Source)		380	450	per range per mode 3 points in range

## Repairing Charges

Sr. No.	Item	Repairing Charges
<b>SPARES IN OUTSIDE MICROMETERS</b>		
1	Ratchet Assembly	420
2	Spindle Lock Assembly	420
3	Hook for Spindly lock	45
4	Sleeve, upto Micrometer 50mm	1650
5	Disc with Screw for 0-100mm	4500
6	Disc with Screw for 100-200mm	6000
7	Electrical Contact Point	1100
8	Anvil Nut Threading	1500

<b>SPARES FOR VERNIER CALIPER</b>		
1	End Plate	45
2	Top Screw(600mm)	90
3	Top Screw(300mm)	60
4	Copper Strip(600mm)	90
5	Copper Strip(300mm)	60
6	Lead Screw(300mm)	90
7	Pinion for Dial Vernier	540
8	Tension Spring	540
9	Hook & Roller	465
10	Gear	960
11	Disc with gear	1560
12	Spring	300
13	Head	210
14	Glass for Dial Vernier	120
15	Thumb for vernier	400
16	Strip for vernier caliper	1500

<b>SPARES FOR DIAL GAUGE</b>		
1	Glass with Ring	375
2	Bezel Clamp	75
3	Hand(Big)	180
4	Hand(Small)	100
5	Contact Point(Steel)	120
6	Counter Ring	360
7	Lever (for Puppet Dial)	360
8	Gear (for Puppet Dia)	1200
9	Helical Spring	750
10	Hair Spring	360
11	Hand set	300
12	Contact Gear	600
13	Small Gear	1650

Terms and Condition

## Repairing Charges

Prices Quoted are for spares replacement only : any major servicing and repairing shall be quoted  
Service and handling Charge of Rs. 200/- for each items shall be charged extra  
Items needs to be forwarded by the customer at their own expense and after repairing v  
Calibration charges shall be extra as per our standard price list after repairing

VAT: 15% extra on the quoted prices

Delivery: Repairing time is @ 4-6 days and sometimes if we need to subcontract same may by 1!

Payment: Against proforma

Validity 31/10/2011

## Repairing Charges

Costed after complete inspection of items separately if required

When we forward the items back : courier charges shall be extra as applicable

5-20 days

consumables

**Price List for Standard Hardness Test Blocks**

Sr. No.	Items	Rate (Rs.)
1	Rockwell Hardness Test Blocks (HRA)	1450=00
	Rockwell Hardness Test Blocks (HRB)	1450=00
	Rockwell Hardness Test Blocks (HRC)	1450=00
	Rockwell Hardness Test Blocks (HRN/HRT)	1750=00
2	Brinell Hardness Test Blocks HB: 2.5/187.5	1450=00
	HB: 5/750	2850=00
	HB: 10/3000	2850=00
3	Vicker's Hardness Test Blocks HV1/HV5/HV10/HV30/HV50	2850=00
4	Micro Vickers Hardness Test Blocks	11500=00 each
All above blocks shall be supplied with calibration certificate in favor of OEM -Supplier's Name" Only		
4	If calibration certificate is required in favor of Purchaser then calibration charges	775/- per block extra

**Price List for Hardness Indenters**

Sr. No.	Items	Rate (Rs.)
1	Diamond Indentor for Rockwell Hardness Scale: A, C	1850=00
	1/16" for Steel Ball Indentor with Ball for Scale: B	1625=00
	1/16" Ball for Indentor	30=00
2	Brinell Hardness Indentor with Carbide Ball (any Size)	3650=00
	2.5mm, 5mm, 10mm ball for Indentor	2950=00
3	Vicker's Hardness Indentor	3925=00
4	Tongue for Impact Tester	3450=00

If you any specific requirement then sends the details so we can quote accordingly.

**Prices:** Ex Vadodara **Forwarding charges extra** @ Rs.60/-Per kg weight of Parcel

**Octroi:** To yr A/c **Delivery:** Ex-Stock/2-weeks **Payment:** Against Performa

**VAT:** VAT: 5% Extra

For **Sadbhav Calibration Services**

**Bhavesh H. Bhuptani**  
**CEO**

**Sadbhav Calibration Services**  
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<b>Terms</b>								
<b>Prices:</b>	quoted are for calibration only: any repairing shall be charged extra against approval.							
	quoted are for calibration validity of 1 year: if validity/frequency is more then 1 year then 50% of basic charge shall be extra for each additional year							
	SCS is not responsible for any rejection in calibration and charges shall be appliable even the items are rejected in calibration							
	quoted rates are for specfic no of points/readings mentioned : any additional point/reading shall be charged 50% extra per reading/point							
	In heavy mechanical machines wherever applicable we do normal preliminary servicing required for the machine : if any specific repairing and servicing required then shall be charged extra							
	Whenever required you need to provide your concern personnel to dismental and refit the gauges from your operation line : Also you need to pvide the required controlled enviorment and the reasonable working place							
<b>Service Tax:</b>	10.3% shall be charged extra			No service tax if order on Sadbhav Metallurgical Serv				
<b>Third Party Ins</b>	If required in any of above items: 50% of the basic charges shall be extra as we need to precalibrate the instrument one day before							
<b>Site Charges:</b>	2500/- per day extra for calibration at your works for any of items required + local transportation and accommodation for our engg and in absense of this Rs. 4000/- per day							
	By any means if calibration can not be possible : even then minimum site charges Rs. 2500/- shall be applicable							
	Site calibration jobs are accepted based on minimum workload i.e actual basic calibration charges or Rs. 6000/- (Excluding site charge as above): whichever is higher shall be applicable on per day basis							
	We provide Pick up and Delivery Facility in the radius of 50kms of Vadodara at a price of Rs. 750/- per single visit							
<b>Payment :</b>	Immediate against completion of wok and prior to submission of reports/calibration certificates							
<b>Valdity:</b>	10/31/2011							
<b>Traceabilities:</b>	Calibration Certificates shall carry unbroken chain of valid NABL LAB/NPL tracebailities as per requirements of ISO and related authorities.							
	Additional copy of certificates/true copies if required shall be charged extra At Rs. 50/- per copy							
	Once the certificate is issued: any corrections from the customer shall be charged extra at Rs. 50/- each							
	**sub contracted items : shall take @ 2 weeks time and certificate shall be issued directly in your name by the agency							
	charges for Items required to calibrate at lab need to be forwarded and recollected shall be at your account							