Calibration Charges: D1.06a, Pressure, Vaccum and Ultrasonic Metrology (w.e.f. 01.04.2023)

Pressure, Vacuum and Ultrasonic Devices

Sl. No.	Parameter	Item Type / Group	Item Name	Alias Name	Range	No. of Points for Calibration	Charges per Item Rs.	Additional Charges Rs.	Description for Additional Charges	Remarks, if any
1	Absolute Pressure	Vacuum Devices	Pirani Gauge	Thrmocouple Gauge/Convectron Gauge	1000 to 1.0E-3 Torr		35500			
2	Absolute Pressure	Vacuum Devices	Pirani Gauge	Thrmocouple Gauge/Convectron Gauge	1000 to 1 Torr / 0.001 to 1Torr		23760			
3	Absolute Pressure	Vacuum Devices	Penning Gauge	Cold Cathode Gauge	1.0E-2 to 1.0E-6 Torr		50710			
4	Absolute Pressure	Vacuum Devices	Penning Gauge	Cold Cathode Gauge	1.0E-2 to 1.0E-7 Torr		67650			
5	Absolute Pressure	Vacuum Devices	Penning Gauge	Cold Cathode Gauge	1.0E-2 to 1.0E-8 Torr		76900			
6	Absolute Pressure	Vacuum Devices	Ionization Gauge	Hot Cathode Gauge	1.0E-3 to 1.0E-7 Torr		47700			
7	Absolute Pressure	Vacuum Devices	Spinning Rotor Gauge	SRG	1.0E-2 to 1.0E-5 mbar		53900			
8	Absolute Pressure	Vacuum Leaks	Helium Standard Leak	Standard Leak	Above 1.0E-8 std.cc/s and below 0.03 std.cc/s		53900	5400		
9	Absolute Pressure	Vacuum Leaks	Helium Standard Leak	Standard Leak	Below 1.0E-8 std.cc/s and above 3.0E-9 std.cc/s		61500			
10	Pneumatic Pressure	Vacuum Devices	Dead Weight Tester / Differential DWT	Piston Gauge / Pressure Balance	6.5 to 360 kPa (abs, gauge and diff)	Single Range (10 pints)	53900	5400	For each additional point	Charges are per range
11	Pneumatic Pressure	Vacuum Devices	Liquid Manobarometer	U-Tube / Single Limb / Inclined / Sphygmo Manometer	1 to 130 kPa (abs, gauge and diff)	Single Range (10 pints)	18500	1900	For each additional point	Charges are per range
12	Pneumatic Pressure	Vacuum Devices	Dial Gauge	Bourdon Gauge / Diaphragm Gauge / Spiral Gauge	0 to 500 kPa (abs and gauge)	Single Range (10 pints)	13640	1400	For each additional point	Charges are per range
13	Pneumatic Pressure	Vacuum Devices	Pressure Calibrator		0 to 500 kPa Acuuracy 0.5% or coarser (abs and gauge)	Single Range (10 pints)	23300	2400	For each additional point	Charges are per range
14	Pneumatic Pressure	Vacuum Devices	Aneroid Barometer		Atmospheric Pressure Range	Single Range (10 pints)	13640	1400	For each additional point	Charges are per range
15	Pneumatic Pressure	Vacuum Devices	Quartz Bourdon Gauge		0 to 500 kPa (abs and gauge)	Single Range (10 pints)	47100	4700	For each additional point	Charges are per range
16	Pneumatic Pressure	Vacuum Devices	Capacitance Diaphragm Gauge	Capacitance Manometer / Baratron	0-133Pa 0-1333Pa 0-13kPa 0- 133 kPa (abs and gauge)		52000		For each additional point	Charges are per range
17	Pneumatic Pressure	Vacuum Devices	Digital Pressure Transducer / Transmitter	Digital Pressure Indicator / Digital Pressure Gauge	0 to 500 kPa Acuuracy better than 0.5% (abs and gauge)	Single Range (10 pints)	47100	4700	For each additional point	Charges are per range
18	Pneumatic Pressure	Vacuum Devices	Altimeter		0 to 100 kPa (abs)	Single Range (10 pints)	53900	5400	For each additional point	Charges are per range

19	Pneumatic	Vacuum Devices	Digital Manometer	Digital Pressure Gauge	0 to 133 kPa	Single Range	46100	4600	For each	Charges are per
19	Pressure	vacuum Devices	Digital Wallometer		(abs and gauge)	(10 pints)			additional point	range
20	Pneumatic	Vacuum Devices	Digital Barometer		70 to 110 kPa	Single Range	23300	2400	For each	Charges are per
20	Pressure	vacuum Devices	Digital Balofficter		(abs)	(10 pints)			additional point	range
21	Pneumatic	Pressure Devices	Dead Weight Tester	Piston Gauge / Pressure Balance	100 kPa to 8 MPa	Single Range	38000	3800	For each	Charges are per
21	Pressure	I lessure Devices	Dead Weight Tester		(abs. and gauge)				additional point	range
22	Pneumatic	Pressure Devices	Dead Weight Tester	Piston Gauge / Pressure Balance	100 kPa to 12 MPa	Single Range	42000	4200	For each	Charges are per
22	Pressure	Tressure Devices	Dead Weight Tester		(abs. and gauge)				additional point	range
23	Pneumatic	Pressure Devices	Dead Weight Tester	Piston Gauge / Pressure Balance	100 kPa to 20 MPa	Single Range	45000	4500	For each	Charges are per
23	Pressure	Tressure Devices	Dead Weight Tester		(abs. and gauge)				additional point	range
24	Pneumatic	Pressure Devices	Dead Weight Tester	Piston Gauge / Pressure Balance	0.2 MPa to 40 MPa	Single Range	50000	5000	For each	Charges are per
	Pressure	Tressure Devices			(abs. and gauge)				additional point	range
25	Pneumatic	Pressure Devices	Differential Dead Weight	Piston Gauge / Pressure Balance	0.04 MPa to 12 MPa	Single Range	52000	5200	For each	Charges are per
23	Pressure	Tressure Devices	Tester		(differential)				additional point	range
26	Pneumatic	Pressure Devices	Differential Dead Weight	Piston Gauge / Pressure Balance	0.2 MPa to 20 MPa	Single Range	57000	5700	For each	Charges are per
20	Pressure	Tressure Bevices	Tester		(differential)				additional point	range
27	Pneumatic	Pressure Devices	Dial Gauge (Accuracy < 1.0	Bourdon Gauge / Diaphragm Gauge /	50 kPa to 8 MPa	Single Range	9000	900	For each	Charges are per
	Pressure	Tressure Bevices	%)	Spiral Gauge	(gauge)				additional point	range
28	Pneumatic	Pressure Devices	Dial Gauge (Accuracy >= 1.0	Bourdon Gauge / Diaphragm Gauge /	50 kPa to 8 MPa	Single Range	5700	570	For each	Charges are per
20	Pressure	Tressure Devices	%)	Spiral Gauge	(gauge)				additional point	range
29	Pneumatic	Pressure Devices	Dial Gauge (Accuracy < 1.0	Bourdon Gauge / Diaphragm Gauge /	50 kPa to 12 MPa	Single Range	12000	1200	For each	Charges are per
2)	Pressure	Tressure Devices	%)	Spiral Gauge	(gauge)				additional point	range
30	Pneumatic	Pressure Devices	Dial Gauge (Accuracy >= 1.0	Bourdon Gauge / Diaphragm Gauge /	50 kPa to 12 MPa	Single Range	7500	800	For each	Charges are per
30	Pressure	Tressure Devices	%)	Spiral Gauge	(gauge)				additional point	range
31	Pneumatic	Pressure Devices	Dial Gauge (Accuracy < 1.0	Bourdon Gauge / Diaphragm Gauge /	50 kPa to 20 MPa	Single Range	16000	1600	For each	Charges are per
31	Pressure	Tressure Devices	%)	Spiral Gauge	(gauge)				additional point	range
32	Pneumatic	Pressure Devices	Dial Gauge (Accuracy >= 1.0	Bourdon Gauge / Diaphragm Gauge /	50 kPa to 20 MPa	Single Range	10000	1000	For each	Charges are per
32	Pressure	Tressure Devices	%)	Spiral Gauge	(gauge)				additional point	range
33	Pneumatic	Pressure Devices	Dial Gauge (Accuracy < 1.0	Bourdon Gauge / Diaphragm Gauge /	0.2 MPa to 40 MPa	Single Range	20000	2000	For each	Charges are per
33	Pressure	Tressure Devices	%)	Spiral Gauge	(gauge)				additional point	range
34	Pneumatic	Pressure Devices	Dial Gauge (Accuracy > 1.0	Bourdon Gauge / Diaphragm Gauge /	0.2 MPa to 40 MPa	Single Range	13500	1400	For each	Charges are per
34	Pressure	I lessure Devices	%)	Spiral Gauge	(gauge)				additional point	range
35	Pneumatic	Pressure Devices	Pressure Calibrator		100 kPa to 12 MPa		20500	2050	For each	
33	Pressure	I lessure Devices			(gauge and diff)				additional point	
36	Pneumatic	Pressure Devices	Digital Pressure Transducer /	Digital Pressure Indicator / Digital	100 kPa to 8 MPa	Single Range	35000	3500	For each	Charges are per
50	Pressure	1 Tessure Devices	Transmitter	Pressure Gauge	(abs. and gauge)				additional point	range
37	Pneumatic	Pressure Devices	Digital Pressure Transducer /	Digital Pressure Indicator / Digital	100 kPa to 12 MPa	Single Range	40000	4000	For each	Charges are per
31	Pressure	1 Tessure Devices	Transmitter	Pressure Gauge	(abs. and gauge)				additional point	range
38	Pneumatic	Pressure Devices	Digital Pressure Transducer /	Digital Pressure Indicator / Digital	0.2 MPa to 20 MPa	Single Range	42000	4200	For each	Charges are per
50	Pressure	1 1035uic Devices	Transmitter	Pressure Gauge	(abs. and gauge)				additional point	range
39	Pneumatic	Pressure Devices	Digital Pressure Transducer /	Digital Pressure Indicator / Digital	0.2 MPa to 40 MPa	Single Range	44000	4400	For each	Charges are per
33	Pressure	1 1038uic Devices	Transmitter	Pressure Gauge	(abs. and gauge)				additional point	range
40	Pneumatic	Pressure Devices	Digital Pressure Transducer /	Digital Pressure Indicator / Digital	100 kPa to 12 MPa	Single Range	40000	4000	For each	Charges are per
70	Pressure	1 1035uic Devices	Transmitter	Pressure Gauge	(diff)				additional point	range
41	Pneumatic	Pressure Devices	Digital Pressure Transducer /	Digital Pressure Indicator / Digital	0.2 MPa to 20 MPa	Single Range	48000	4800	For each	Charges are per
41	Pressure	1 ICSSUIC DEVICES	Transmitter	Pressure Gauge	(differential)				additional point	range
42	Hydraulic	Hydraulic	Dead Weight Tester	Piston Gauge / Pressure Balance /	0.07 to 100 MPa	Single Range	55000	5500	For each	
42	Pressure	Devices	Dead weight Tester	Piston Manometer	(gauge)	(10 points)			additional point	

	Hydraulic	Hydraulic		Piston Gauge / Pressure Balance /	0.07 to 200 MPa	Single Range	56000	5600	For each
43	Pressure	Devices	Dead Weight Tester	Piston Manometer	(gauge)	(10 points)			additional point
	Hydraulic	Hydraulic		Piston Gauge / Pressure Balance /	0.07 to 300 MPa	Single Range	60000	6000	For each
44	Pressure	Devices	Dead Weight Tester	Piston Manometer	(gauge)	(10 points)			additional point
45	Hydraulic	Hydraulic	D IW'LLT	Piston Gauge / Pressure Balance /	0.07 to 500 MPa	Single Range	65000	6500	For each
45	Pressure	Devices	Dead Weight Tester	Piston Manometer	(gauge)	(10 points)			additional point
	Hydraulic	Hydraulic		Piston Gauge / Pressure Balance /	0.07 to 100 MPa	Double range	80000	8000	For each
46	,	Devices	Dead Weight Tester	Piston Manometer	(gauge)	(10 points			additional point
	Pressure	Devices				each)			_
	Hydraulic	Hydraulic		Piston Gauge / Pressure Balance /	0.07 to 200 MPa	Double range	85000	8500	For each
47	Pressure	Devices	Dead Weight Tester	Piston Manometer	(gauge)	(10 points			additional point
	Pressure	Devices				each)			_
	Hydraulic	Hydraulic		Piston Gauge / Pressure Balance /	0.07 to 300 MPa	Double range	88000	8800	For each
48	Pressure	Devices	Dead Weight Tester	Piston Manometer	(gauge)	(10 points			additional point
	Fiessure	Devices				each)			
	Hydraulic	Hydraulic		Piston Gauge / Pressure Balance /	0.07 to 500 MPa	Double range	100000	10000	For each
49	Pressure	3	Dead Weight Tester	Piston Manometer	(gauge)	(10 points			additional point
						each)			
50	Hydraulic	Hydraulic	Dead Weight Tester	Piston Gauge / Pressure Balance /	20 MPa to 1.0 GPa	Single Range	130000	13000	For each
50	Pressure	Devices	Doug Weight Tester	Piston Manometer		(10 points)			additional point
	Hydraulic	Hydraulic		Piston Gauge / Pressure Balance /	20 MPa to 1.0 GPa	Double range	190000	19000	For each
51	Pressure	Devices	Dead Weight Tester	Piston Manometer		(10 points			additional point
						each)			
52	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	0.07 to 100 MPa	10	10000	1000	For each
52	Pressure	Devices	(Accuracy > 0.25%)	Spiral Gauge	(gauge)				additional point
53	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	0.07 to 200 MPa	10	12000	1200	For each
33	Pressure	Devices	(Accuracy > 0.25%)	Spiral Gauge	(gauge)				additional point
54	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	0.07 to 300 MPa	10	14000	1400	For each
	Pressure	Devices	(Accuracy > 0.25%)	Spiral Gauge	(gauge)				additional point

ı	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	0.07 to 500 MPa	10	16000	1600	For each	
55	Pressure	Devices	(Accuracy > 0.25%)	Spiral Gauge	(gauge)	10	10000	1000	additional point	
	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	0.07 to 100 MPa	10	12000	1200	For each	
56	Pressure	Devices	(Accuracy =<0.25%)	Spiral Gauge	(gauge)	10	12000	1200	additional point	
	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	0.07 to200 MPa	10	15000	1500	For each	
57	Pressure	Devices	(Accuracy =<0.25%)	Spiral Gauge	(gauge)	10	13000	1300	additional point	
	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	0.07 to 300MPa	10	18000	1800	For each	
58	Pressure	Devices	(Accuracy =<0.25%)	Spiral Gauge	(gauge)	10	18000	1800	additional point	
	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	0.07 to 500 MPa	10	24000	2400	For each	
59	Pressure	Devices	(Accuracy =<0.25%)	Spiral Gauge	(gauge)	10	24000	2400	additional point	
	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	20 MPa to 1.0 GPa	10	33000	3300	For each	
60	Pressure	Devices	(Accuracy > 0.25%)	Spiral Gauge	20 MF a to 1.0 GF a	10	33000	3300	additional point	
	Hydraulic	Hydraulic	Pressure Dial Gauge	Bourdon Gauge / Diaphragm Gauge /	20 MPa to 1.0 GPa	10	46000	4600	For each	
61	Pressure	Devices	(Accuracy =<0.25%)	Spiral Gauge	20 MF a to 1.0 GF a	10	40000	4000	additional point	
	Hydraulic	Hydraulic	Digital Pressure Transducer /	Digital Pressure Gauge / Digital	0.07 to 100 MPa	10	40000	4000	For each	
62	Pressure	Devices	Transmitter	Pressure Calibrator		10	40000	4000	additional point	
	Hydraulic	Hydraulic	Digital Pressure Transducer /	Digital Pressure Gauge / Digital	(gauge) 0.07 to 200 MPa	10	45000	4500	For each	
63	Pressure	Devices	Transmitter			10	43000	4300	additional point	
	Hydraulic	Hydraulic	Digital Pressure Transducer /	Pressure Calibrator Digital Pressure Gauge / Digital	(gauge) 0.07 to 300 MPa	10	50000	5000	For each	
64	Pressure	Devices	Transmitter	Pressure Calibrator		10	30000	3000		
	Hydraulic	Hydraulic	Digital Pressure Transducer /	Digital Pressure Gauge / Digital	(gauge) 0.07 to 500 MPa	10	60000	6000	additional point For each	
65	Pressure	Devices	Transmitter			10	60000	6000		
	Hydraulic	Hydraulic	Digital Pressure Transducer /	Pressure Calibrator Digital Pressure Gauge / Digital	(gauge) 20 to 800 MPa	10	100000	10000	additional point For each	
66	Pressure	Devices	Transmitter	Pressure Calibrator	(gauge)	10	100000	10000	additional point	
	Hydraulic	Hydraulic	Digital Pressure Tansducer /	Digital Pressure Gauge / Digital	20 MPa to 1.0 GPa	10	120000	12000	For each	
67	Pressure	Devices	Transmitter	Pressure Calibrator	20 WH a to 1.0 Of a	10	120000	12000	additional point	
	Fiessure	Devices	Transmitter	Pressure Cambrator					- additional point	
68	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Ultrasonic Flaw Detector	BS: 4331-II / ASTM E-317		36300			
		Equipment								
60	T.114	Ultrasonic NDT	III	Illian and Floor Datastan	IS: 12666 Classes 4 9 5		1.4000		-	
69	Ultrasonic		Ultrasonic NDT Equipment	Ultrasonic Flaw Detector	IS: 12666 Clauses 4 & 5		14000			
		Equipment								
		Illanononio NIDT			TG 4004 GI				-	
70	Ultrasonic	Ultrasonic NDT	Ultrasonic NDT Equipment	Calibration Block A2 (IIW-VI)	IS: 4904: Clauses 3 &4		25300			
		Equipment								
		THE SAIDE							-	
71	Ultrasonic	Ultrasonic NDT	Ultrasonic NDT Equipment	Calibration Block A2 (IIW-VI)	IS: 4904: Clause 3		14000			
		Equipment								
l l		III							-	
72	Ultrasonic	Ultrasonic NDT	Ultrasonic NDT Equipment	Calibration Block A4 (IIW-V2)	IS: 4904: Clauses 3 &4		17500			
		Equipment								
									-	
73	Ultrasonic	Ultrasonic NDT	Ultrasonic NDT Equipment	Calibration Block A4 (IIW-V2)	IS: 4904: Clause 3		10700			
		Equipment								
		-1F								
		* *							-	
74	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Calibration Block A5	IS: 4904: Clauses 3 &4		25300		-	

75	Chiasome	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Calibration Block A5	IS: 4904: Clause 3	14000	-	
76	Chiasome	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Calibration Block A6	IS: 4904: Clauses 3 & 4	17500	-	
77	Chiasome	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Calibration Block A6	IS: 4904: Clause 3	10700	-	
78	Citrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Calibration Block A7	IS: 4904: Clauses 3 &4	17500	-	
79	Chiasome	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Calibration Block A7	IS: 4904: Clause 3	10700	-	
80	Chiasome	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Calibration Block A8	IS: 4904: Clauses 3 & 4	25300	-	

81	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Calibration Block A8	IS: 4904: Clause 3	14000		-	
82	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Step Wedge		9000		-	
83	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Cylindrical FBH	ASTM E-127	19300		-	
84	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Ultrasonic NDT Transducer / probe	ASTM E-1065	31900	14900	For each additional point	
85	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Ultrasonic Thickness Gauge		9000		-	
86	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic NDT Equipment	Test rail	All Holes and Notches	69300			need clean surfaces
87	Ultrasonic	Ultrasonic Power Transducer	Ultrasonic Power Transducer	Ultrasonic Power Source	Frequency: 0.5 MHz to 20 MHz Power: 10 mV to 20 W	31000			
88	Ultrasonic	UPV Reference block			Complete Range	8000			clean and flat surfaces
89	Ultrasonic	Ultrasonic NDT Equipment	Ultrasonic Adapter	Ultrasonic Transducer with block		16500			
90	Ultrasonic	Ultrasonic NDT Equipment	Distance Amplitude Block	DA Block		15000			