

Calibration Charges: D1.05, Force and Hardness Standards (Proposed from 01.04.2024)												EDC	
Force, Torque & Hardness													
Sl. No.	Parameter	Item Type / Group	Item Name	Alias Name	Range	No. of Points for Calibration	Limitation / Condition	Charges per Item Rs.	Additional Charges Rs.	Description for Additional Charges	Remarks, if any	Normal	Tatkal
1	Force	Force Proving Instruments	Proving Ring/ Load cell	Integral Ring / Load Column / Dynamometer	Capacity upto 100 kN, As per IS 4169:2014	10 (Compression / Tension Mode)	Compression Pads/Tension Shackles required*	20000	2000	For each additional point	1.5 times for reversibility measurements. 1.5 times extra charges if calibration is to be done on 100kN/1MN primary Machine *Rs 1500 extra if NPL pads used.	3 weeks	3 days
2	Force	Force Proving Instruments	Proving Ring/ Load cell	Integral Ring / Load Column / Dynamometer	Capacity upto 1000 kN, As per IS 4169:2014	10 (Compression / Tension Mode)	Compression Pads/Tension Shackles required*	37800	3780	For each additional point	1.5 times for reversibility measurements. 1.5 times extra charges if calibration is to be done on 100kN/1MN primary Machine *Rs 1500 extra if NPL pads used.	3 weeks	3 days
3	Force	Force Proving Instruments	Proving Ring/ Load cell	Integral Ring / Load Column / Dynamometer	Capacity upto 2000 kN, As per IS 4169:2014	10 (Compression mode only)	Compression Pads required	57800	5780	For each additional point		3 weeks	3 days
4	Force	Force Proving Instruments	Proving Ring/ Load cell	Integral Ring / Load Column / Dynamometer	Capacity upto 3000 kN, As per IS 4169:2014	10 (Compression mode only)	Compression Pads required	80000	8000	For each additional point		3 weeks	3 days
5	Torque	Torque Measuring Devices	Torque Meter	Torque Tester / Torque Wrench Tester / Torque Transducer	Capacity upto 20 Nm	10 (Clockwise / Anti-clockwise direction)	Using flange type coupling	13000	1300	For each additional point	Charges are 1.5 times for devices using primary torque machine	3 weeks	3 days
6	Torque	Torque Measuring Devices	Torque Meter	Torque Tester / Torque Wrench Tester / Torque Transducer	Capacity upto 2000 Nm	10 (Clockwise / Anti-clockwise direction)	Using flange type coupling	27300	2730	For each additional point	Charges are 1.5 times for devices using primary torque machine	3 weeks	3 days
7	Hardness	Hardness Blocks	Rockwell Hardness Block		Rockwell Scales: A, B, C, D, E, F, G, H, K, N, T	Value assignment at 5 points		3200				3 weeks	3 days
8	Hardness	Hardness Block	Vickers Hardness Block			Value assignment in any single range		5000				3 weeks	3 days
9	Hardness	Hardness Block	Brinell Hardness Block			Value assignment in any single range		5000				3 weeks	3 days
10	Force	Force Proving Instruments	Load cell	Load cell	Capacity upto 50kN for Reference values	10 (Compression Mode)	Compression Pads*	81000	8100	For each additional point		4-5 months	
11	Force	Force Proving Instruments	Load cell	Load cell	Capacity above 50kN up to 1000kN for Reference values	10 (Compression Mode)	Compression Pads*	157500	15750	For each additional point		4-5 months	
Site calibration *													
12	Force	Force Calibrators	Force Calibration machines	Deadweight/ hydraulic multiplication Force machine	upto 100 kN	10 (per range 10% to 100%)	Site Calibration	106000	10600	For each additional point	On request	Would be provided at the time of acceptance	Would be provided at the time of acceptance
13	Force	Force Calibrators	Force Calibration machines	Deadweight/ hydraulic multiplication Force machine	upto 1000 kN	10 (per range 10% to 100%)	Site Calibration	185000	18500	For each additional point	On request	Would be provided at the time of acceptance	Would be provided at the time of acceptance
14	Force	Force Calibrators	Force Calibration machines	hydraulic multiplication, Comparator Force machine	upto 3000 kN	10 (per range 10% to 100%)	Site Calibration	330000	33000	For each additional point	On request		
15	Torque	Torque Calibrators	Torque Calibration machines	Deadweight, Comparator Torque machine	2000 Nm	10 (per range 10% to 100%)	Site Calibration using flange type coupling	108000	10800	For each additional point	On request	Would be provided at the time of acceptance	Would be provided at the time of acceptance
16	Torque	Torque Calibrators	Torque Calibration machines	Deadweight, Comparator Torque machine	2000 Nm	10 (per range 10% to 100%)	Site Calibration using shaft type coupling	156000	15600	For each additional point	On request	Would be provided at the time of acceptance	Would be provided at the time of acceptance