A. Proposal Details

Part - 1

Organization Type: R&D/Scientific/Academia

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Part - 2

5. Proposed title of Standard	Pressure Regulator for sphygmomanometer testing kits to be used for calibration and testing of sphygmomanometers and automatic blood pressure measuring devices
6. Aspect	Product Specification
7. Define subject of standard	The standard aims to establish requirements and specifications for pressure regulators used in sphygmomanometer calibration and testing kits. The standard applies to pressure regulators intended for use in calibrating and testing both manual sphygmomanometers and automatic blood pressure measuring devices. It may have Internal Sense, Aluminum Manifold, input signal of 0 to 1VDC, Pressure output of 0 to 1 bar gauge, 0 to 10VDC monitor signal, 0.04 inches diameter orifice proportional intlet valve, exhaust valve (digital), bleed orifice installed.
8. Most Relevant Technical Department	MHD (Medical Equipment and Hospital Planning Department)

Part - 3

9. Scope of proposed standard	The standard aims to establish requirements and specifications for pressure regulators used in sphygmomanometer calibration and testing kits. The standard applies to pressure regulators intended for use in calibrating and testing both manual sphygmomanometers and automatic blood pressure measuring devices. It may have Internal Sense, Aluminum Manifold, input signal of 0 to 1VDC, Pressure output of 0 to 1 bar gauge, 0 to 10VDC monitor signal, 0.04 inches diameter orifice proportional intlet valve, exhaust valve (digital), bleed orifice installed.
10. Purpose and Justification	The purpose of this standard is to establish requirements and specifications for pressure regulators used in sphygmomanometer calibration and testing kits. By providing clear guidelines for the design, performance, and functional characteristics of pressure regulators, this standard aims to ensure the accuracy, reliability, and consistency of sphygmomanometer measurements. Standardizing pressure regulators will facilitate harmonization across manufacturers, streamline calibration and testing procedures, and ultimately enhance the quality and safety of sphygmomanometers and automatic blood pressure measuring devices. Standardization of pressure regulators enhances quality assurance in the production, calibration, and testing of sphygmomanometers. Manufacturers can use the standard as a benchmark for designing and manufacturing pressure regulators, thereby improving the overall quality and performance of sphygmomanometer testing kits.
11. Likely users of standards and their inputs	Manufacturers of Sphygmomanometers and Testing Kits, Medical Device Testing Laboratories, legal metrology, Biomedical Engineers and Researchers

12. Any related standards/series of standard/system standard required to make this subject standard complete	No
13. When the final standard would be required	30-11-2024
14. Any specific problem being faced without this standard	Manufacturers of sphygmomanometer testing kits may employ pressure regulators with differing levels of quality, reliability, and accuracy. Without a standard to define minimum requirements and performance criteria for pressure regulators, there may be a wide range of product quality in the market, leading to uncertainty and inconsistency in calibration results.
15. Bearing with Govt legislation regulation, etc	NA
16. Name and address of manufacturers/ implementing/ industries/ purchasing organization /component supplier/ raw material supplier, if any	Purchase organization: CSIR-NPL, Dr. K.S. Krishnan Marg, New Delhi, Supplier : NAYAGI INDUSTRIAL TECHNOLOGIES PRIVATE LIMITED, Puducherry, NEWGEN INNOVATION, New Delhi
17. Status of the industry in the country	Pressure regulator manufacturers are available, but not of required specifications
18. Availability of test facilities in the country	NA
19. Whether related to variety reduction, export, health, safety consumer protection, mass consumption, energy conservation, technology transfer, technology upgradation, protection of environment & other National priorities	safety consumer protection, technology transfer
20. Whether subject requires consideration to be given to women/girl issues in line with Sustainable Goal 5 of the UN. If so, whether the issues are proposed to be addressed suitably in the proposed standard	NA
21. Relevant supportive document (download docs)	
22. R & D work done in india	The specifications of the required pressure regulator have been prepared to be suited for the desired applications.
23. Any foreign collaboration (give details)	NIL
24. Liaison with any organisation(s)	Legal Metrology, Ministry of Consumer Affairs
25.A. Preparatory work	No draft possible
25.B. Preparatory work (Details)	The details are filled up
26. Whether this project can be funded by your organization	NO
27. Whether your organisation would be interested to opt for BIS Standard Mark once the standard is published?	Yes
28. Any Other Attachment (extra)	

B. Action Logs

C. Communications

Circulate Proposal to Members