

A. Proposal Details

Part - 1

Organization Type: Individual

1. Name of Proposer	Piyush Sharma
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Part - 2

5. Proposed title of Standard	Plasma Electrolytic Oxidation Air Sterilizer
6. Aspect	Product Specification
7. Define subject of standard	The PEOAS is a comprehensive air purification system designed to tackle a wide array of indoor air pollutants. The device consists of multiple purification and sterilization layers, each serving a distinct function in the purification process. From the intake of outside air to the final delivery of purified air, the system ensures meticulous filtration, sterilization, and improvement of indoor air quality. The integration of advanced materials, such as Royal Poinciana tree fabric, Titanium dioxide TiO ₂ , activated charcoal, and copper coordination polymer particles, underscores the devices commitment to leveraging cutting edge technology for air purification
8. Most Relevant Technical Department	CHD (Chemical Department)

Part - 3

9. Scope of proposed standard	The PEOAS is a comprehensive air purification system designed to tackle a wide array of indoor air pollutants. The device consists of multiple purification and sterilization layers, each serving a distinct function in the purification process. From the intake of outside air to the final delivery of purified air, the system ensures meticulous filtration, sterilization, and improvement of indoor air quality. The integration of advanced materials, such as Royal Poinciana tree fabric, Titanium dioxide TiO ₂ , activated charcoal, and copper coordination polymer particles, underscores the devices commitment to leveraging cutting edge technology for air purification
10. Purpose and Justification	The Sterilizer is an epitome of technological sophistication, featuring a multi tiered purification system that meticulously cleanses and sterilizes indoor air. Each layer within the system is designed with a specific purpose, ensuring that every aspect of air purification is addressed comprehensively. The detailed operation of the PEOAS system unfolds over several stages, each a critical cog in the machine of air purification

11. Likely users of standards and their inputs	Plasma Electrolytic Oxidation Air Sterilizer used for territory sector and residential purposes. With its innovative combination of physical filtration, electrostatic precipitation, cooled plasma technology, and Electrolytic Oxidation, the PEOAS offers a superior solution to indoor air quality challenges. Its ability to address pollutants down to 0.1 microns in size makes it particularly suitable for healthcare settings, where the highest standards of cleanliness are required to protect the health of patients and staff. This technology not only purifies the air but also creates a healthier indoor environment by actively eliminating the biological and chemical contaminants that contribute to indoor air pollution. While the reduction in TOC and VOCs is lower compared to other contaminants, the results are still positive.
12. Any related standards/series of standard/system standard required to make this subject standard complete	IS 302 Part 1 for the safety purposes
13. When the final standard would be required	
14. Any specific problem being faced without this standard	
15. Bearing with Govt legislation regulation, etc	We are a small scale manufacturer under Make in India scheme of Government of India as per which we are willing to obtain BIS License. We are having micro level MSME Certificate.
16. Name and address of manufacturers/ implementing/ industries/ purchasing organization /component supplier/ raw material supplier, if any	
17. Status of the industry in the country	We are a small scale manufacturer under Make in India scheme of Government of India as per which we are willing to obtain BIS License. We are having micro level MSME Certificate.
18. Availability of test facilities in the country	Available
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	Plasma Electrolytic Oxidation Air Sterilizer used for territory sector and residential purposes
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)	write up of the product with technical detail attached for your kind reference 1. Attachment ↓ 2. Attachment ↓
22. R & D work done in india	Yes
23. Any foreign collaboration (give details)	NA
24. Liaison with any organisation(s)	NA
25.A. Preparatory work	draft attached
25.B. Preparatory work (Details)	Synopsis report is attached Attachment ↓

26. Whether this project can be funded by your organization

We are a small scale manufacturer under Make in India scheme of Government of India as per which we are willing to obtain BIS License. We are having micro level MSME Certificate.

27. Whether your organisation would be interested to opt for BIS Standard Mark once the standard is published?

Yes, Please refer to our email dated 01032024, 07032024 , 11032024 and 26032024 to SCMD and 27022024 seeking information as to which Indian Standard would be applicable w.r.t to our product Plasma Electrolytic Oxidation Air Sterilizer used for territory sector and residential purposes. We intend to obtain BIS license on our product.

28. Any Other Attachment (extra)**B. Action Logs****C. Communications****Circulate Proposal to Members****Action/Update**