



# SRI LANKA NAVY JOURNAL

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NAVAL RESEARCH WING  
SRI LANKA



## **SRI LANKA NAVY JOURNAL**

Sri Lanka Navy Journal is a bi-annual publication which provides the opportunity to discuss matters relevant to national interest and current global affairs. It serves as a potent medium for all serving members of the Navy to present their ideas, express their opinions and share their insights on subjects of national and global importance whilst enabling them to improve their writing skills and broaden the knowledge horizon of their knowledge.

The journal publishes papers and articles of professional interest to the Sri Lanka Navy.

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## FOREWORD



I am delighted to write the forward for the December edition of the Sri Lanka Navy biannual Journal 2020 which is an outstanding review of matters relevant to the national interest and current global affairs. This is our ninth edition of the Journal, whose inaugural edition was published in 2015.

Being the primary academic compilation in the Sri Lanka Navy, the Journal provides a platform for the naval personnel to publish their research work and also facilitates an excellent opportunity to master academic writing and broaden their horizons in varying fields.

It is important that naval personnel think beyond military framework and to improve their knowledge base. Academic writing is one of few options that enhances officers' effectiveness in their regular duties, written communication skills and the researching, especially as they reach more senior levels of service. It is my hope and expectation that this Journal will provide an effective learning experience and referenced resource for naval personnel.

Undoubtedly, it is a great effort by many who involves in bringing out this valuable product. I extend my sincere appreciation to the editorial board for their dedication and commitment put in to make this Journal a thriving one.

Finally, I congratulate all the authors whose work was selected and for taking time in composing constructive articles; they can be justifiably proud of having their work chosen for publication, and I am happy to recognize their achievement. I would also like to encourage all other naval personnel to contribute in the next available opportunity and help to elevate the standard of the Journal to the next level. Further, I expect all the senior officers to motivate young officers under their command to contribute and improve the habit of reading and writing.

DNS ULUGETENNE, RSP & Bar, VSV, USP, ndc, psc  
Vice Admiral  
Commander of the Navy





## Message from the Editor-In-Chief

It is with great pleasure I pen down this message as the Editor-In-Chief to the ninth edition of the Sri Lanka Navy Journal. Thanks to the commitment of authors of the naval family the Sri Lanka Navy Journal has become one of the most searched and cited one amongst the journals of its kind. Therefore, I would like to take this wonderful opportunity to send my warmest greetings to all authors including whose manuscripts have not been published.

I am pleased to understand that rate of manuscript submissions has increased every year, and this year it's with a significant number. The good news is that the quality of the manuscripts is getting better all the time which has made the Editorial Committee's job tougher as it requires more thought, analysis, and time to dispense even one manuscript. Therefore, it gives me confidence to declare that this edition of the Sri Lanka Navy Journal brings a wide collection of high quality research papers to the reader.

Whilst the Sri Lanka Navy Journal provides a forum for naval personnel to present and discuss various matters, issues and phenomena in wide range of disciplines, it also encourages the aptitude for research which invariably enhances their analytical thinking. Without being limited by the traditional categorization of naval subjects, the journal encourages to present multidisciplinary research papers aiming to broaden mental faculties of naval personnel.

This edition of the Sri Lanka Navy Journal was compiled and comes to the readers hand in a period of unprecedented global pandemic - COVID 19. The effort of the naval writers to provide their scholarly contribution whilst fighting a tough battle against COVID 19 is highly acclaimed. I take this opportunity to invite members of the naval family to take similar interest and bring out valuable insights to the next editions as well.

Finally, I wish to express my gratitude to the leadership of the Commander of the Navy for the guidance, and encouragement towards publication of this journal. In particular, I would like to send my best wishes to all Editorial Board members, who have worked extremely hard to handle the reviews of submissions for this journal. Equally, I would like to thank the publications staff of Naval Printing Unit for their continued and substantial assistance with the successful launch of the journal in a timely manner.

The amazing support and continued efforts by everyone who contributed to ensure that the *Sri Lanka Navy Journal* is recognized as a leading journal is much appreciated.



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