

Committed To Defence And Security Worldwide

# DEFENCE & SECURITY ALERT

DECEMBER 2018 | VOLUME 10 | ISSUE 03 | ₹150

The First and Only ISO 9001:2015 Certified Defence and Security Magazine in India  
The Only Magazine Available On The Intranets Of IAF & BSF

www.dsalert.org  
info@dsalert.org

## INDIAN NAVY SPECIAL



Interview with  
**Mateusz Morawiecki**  
PM of Poland



THE FIRST CHOICE IN THE DOMAINS OF  
**DEFENCE, SECURITY AND WORLD AFFAIRS**  
**WORLDWIDE**





## MISSION

We endeavour to sound **ALERTS** and create **AWARENESS** about the myriad dimensions and manifestations of **DEFENCE** and **SECURITY** in India and around the world.

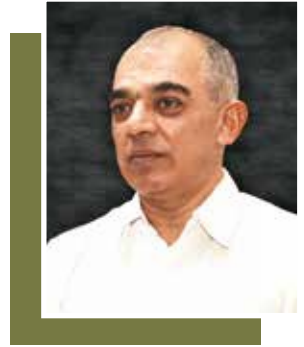


**The power of a King lies in his mighty arms...**

Security of the citizens at peace time is very important because State is the only saviour of the men and women who get affected only because of the negligence of the State.

- Chanakya

# DSA IS AS MUCH YOURS, AS IT IS OURS!



INS Arihant has completed its first deterrent patrol. No small achievement for India, its navy and for long-term security in the Asia-Pacific region. This is exactly where the country should aim to make an impact in terms of security and protection. It can only be achieved when India has a comprehensive naval up-gradation programme based on a national security strategy that is wide ranging and realistic. The manner in which the navy continues to be the 'least' budgeted service suggests India is far from achieving its goals, nationally or regionally — is a real pity!

Unlike its sister services, the navy is unique in having its own design bureau to develop ship-building concepts that are indigenous and modern as well. The naval design bureau has been instrumental in creating domestic ship design and building skills that have had a far reaching impact on the service, as well as on national security over the last years. The successes have been many, most very low key,

but useful in the long run. What it does is to create an environment where design and development is encouraged, the most important ingredient of an indigenous programme.

INS Arihant is the product of this environment, one that meshed naval, public sector and the private industry into making an indigenous nuclear powered submarine. India is now the sixth country to have developed and commissioned a nuclear powered submarine, the most important leg of the nuclear triad. A nuclear submarine capable of launching a ballistic missile over intercontinental distances is the surest deterrent from attack, as well as providing a second strike capability should other assets have been taken out earlier. This is because a submarine is extremely difficult to track, and a nuclear one even more so.

This success should be taken as the beginning of a programme rather than a culmination, for the country needs a lot more nuclear, surface and sub-surface naval assets. The simple reason is that a nuclear reactor on

board a ship or submarine can operate for an extraordinarily long period without refuelling. A long deployment at sea, for a submarine or an aircraft carrier, is precisely why nuclear power is so important. India should be commissioning at least five SSBN type submarines, with another seven SSN types available of deployments. This will take care of deterrence and attack.

These objectives can be achieved if the country has a long-term vision backed by long-term budgeting. A naval ship takes many years to make, from design to sea launch; adding another period for pre-commissioning trials. Thus the focus on the wheel of budgeting to commissioning, it takes time and money. An investment now proves vital in the long run, so earlier the better. Any delay makes it more expensive later, and potentially catastrophic in terms of security. Something that can easily be avoided by the aid of a security vision, a design bureau, and the money to back. The navy has plenty of the first two, but needs urgent monetary support.

**Manvendra Singh**

**Chairman** Shyam Sunder  
**Publisher and CEO** Pawan Agrawal  
**President** Urvashi J Agrawal  
**Director** Shishir Bhushan

**Editor-in-Chief** Manvendra Singh

**Copy Editor**  
 Vandana Bhatia Palli

**Copcom & Ops**  
**OSD** Navjeet Sood

**Art & Creative**  
 Dolly Jain

**Representative (J&K)**  
 Salil Sharma

**Correspondent (Europe)**  
 Dominika Cosic

**Production**  
 Dilshad and Dabeer

**IT Operations**  
 Amber Sharma

**Photographer**  
 Subhash

**Legal Advisor**  
 Deepak Gupta

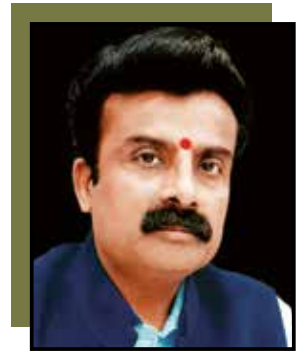
**E-mail: (first name)@dsalert.org**  
 info: info@dsalert.org  
 articles: articles@dsalert.org  
 subscription: subscription@dsalert.org  
 online edition: online@dsalert.org  
 advertisement: advt@dsalert.org

**Editorial and Corporate Office**  
 Prabhat Prakashan Tower  
 4/19, Asaf Ali Road  
 New Delhi-110002 (India)  
 +91-011-23243999, 23287999, 9958382999  
 info@dsalert.org | www.dsalert.org

**Disclaimer**  
 All rights reserved. Reproduction and translation in any language in whole or in part by any means without permission from Defence and Security Alert is prohibited. Opinions expressed are those of the individual writers and do not necessarily reflect those of the publisher and/or editors. All disputes are subject to jurisdiction of Delhi Courts.

**Defence and Security Alert is printed, published and owned by Pawan Agrawal and printed at Bosco Society For Printing, Don Bosco Technical Institute, Okhla Road, New Delhi-110025 and published at 4/19, Asaf Ali Road, New Delhi (India).  
 Editor: Manvendra Singh**

# DEALING WITH OMNI-DIRECTIONAL THREATS



**T**he entire environment on the globe has changed drastically in the past few years and most changes have happened in and around the oceans and the mountains. As a matter of fact, these two elements of the entire geography are the most important for mankind right from the beginning of civilisation, thus, playing a vital role directly and indirectly. As we all know that the oceans exist because of the mountains in an irrefutable geophysical cycle that affects mankind in every way.

Unfortunately, both these elements have been exploited to the point of disruption by mankind and all are facing the consequences with a paradox like the floods in the Sahara desert and the ghastly reality of fires in the jungles of California and heat-waves in the heart of Europe.

Global warming, much as US President Donald Trump would want to deny its existence, is taking its toll in many ways including rapid melting of glaciers in the mountains and the rise in ocean levels threatening island-nations and coastal habitats even as geopolitics, instigated upheavals leading to mass migrations, and natural disasters have contributed to an all-pervasive flux. In the midst of all, there is the long-held belief among nations with a predilection for political expansionism that control of the ocean spaces and denial of the use of the same makes for global domination. Hence, the growth of navies with capabilities of projecting power on the surface, in the air and under water.

The Indian Navy, the sphere of influence of which extends from the chokepoints on the western Arabian Sea to the troubled waters of the Pacific Ocean, too is aspiring for “bluewater” capabilities to be able to project sea control in the Indian national interest, and sea denial to navies inimical to our world view. The pre-eminence of the Indian Navy in maritime matters is the result of the devastating attack on Mumbai by terrorists using the sea route on 26 November 2008.

While compiling these lines, we are remembering the ten-year-old Mumbai attack on Hotel Taj which happened due to the laxity in the security setup to the emerging threat from the seaward side. I would also like to share with you, dear reader, that the initiative to launch the DSA in October 2009 was triggered by all the shortcomings in our security network. Unfortunately, the situation is still the same. Though some serious efforts have been taken by the current government but they are inadequate as compared to the enormity of the threats to our national security. So, it has become very important that we remain ‘Alert’ on the threats from any direction, be it the seas or even the mountains.

On the occasion of the Indian Navy Day, I wish all success to every soldier in whites!

Happy reading!

Jai Hind!

**Pawan Agrawal**



An ISO 9001:2015 Certified Magazine

**INDIAN NAVY – COMBAT READINESS**  
TEAM DSA

04

**SSBMs-SLBMs: INDIA'S NECESSITY**  
V ADM ARUN KUMAR SINGH  
PVSM, AVSM, NM (RETD)

06

**LAND-BASED,  
AERIAL REFUELLED WINS**  
AIR MSHL ANIL CHOPRA  
PVSM, AVSM, VM, VSM (RETD)

10

**POLAND'S INTERNATIONAL ALLIANCE**  
DOMINIKA COSIC

16

**ADVANCED FUTURE SKILLS IN NAVIES**  
DR VIJAY SAKHUJA

22

**CONVENTIONAL CAPABILITIES OF  
INDIAN NAVY AND IAF**  
CMDE RANJIT B RAI (RETD)

26

**THE SINO-INDIAN NAVAL DYNAMICS**  
PROF HARSH V PANT

32

**CHINA SENDS A CLEAR SIGNAL**  
DR KRZYSZTOF KUSKA

36

**TECHNOLOGY INDUCTION –  
NATIONAL SECURITY**  
PM HEBLIKAR

40

**KAMOV Ka-226T DEAL AND NAVY'S  
NUH NEED**  
GP CAPT AK SACHDEV (RETD)

44

**NAVAL ASSETS-  
TECHNOLOGY DRIVEN**  
PROF ARVIND KUMAR

48