

'Make in India' Paradigm : Roadmap for a Future Ready Naval Force

April 18-19, 2016, FICCI, Federation House, Tansen Marg, New Delhi

Programme

Day 1

April 18, 2016		0900 – 1810 hrs
0830 hrs onwards	Registration	
0900 hrs	Delegates other than VIPs to be seated	
0915 hrs	Flag Officers and Equivalents to be seated	
0920 hrs	Principal Staff Officers (PSOs) and Equivalents to be seated	
0930 hrs	Chief Guest, Admiral R K Dhowan , PVSM, AVSM, YSM, ADC, <i>Chief of the Naval Staff, Indian Navy</i> arrives	
Inaugural Session		
Venue: K K Birla FICCI Auditorium, Tansen Marg New Delhi 110 001		
0930 – 0937 hrs	Welcome Address by Mr. Harshavardhan Neotia , President, FICCI and Chairman, Ambuja Neotia Group	
0937 – 0945 hrs	Screening of Movie on "Make in India"	
0945 – 0950 hrs	Introduction of Dignitaries by MC and Dignitaries proceed to Stage	
0950 – 1000 hrs	Introduction of the theme by Mr. Pierre de Bausset , Chairman, Committee on Make in India (Defence and Aerospace), FICCI and President & MD, Airbus Group India Pvt Ltd	
1000 – 1010 hrs	Key Note Address by Mr. Amitabh Kant , Chief Executive, NITI Aayog	
1010 – 1020 hrs	Inaugural Address by Admiral R K Dhowan , PVSM, AVSM, YSM, ADC, <i>Chief of the Naval Staff, Indian Navy</i>	
1020 – 1023 hrs	Release of following by the Chief Guest:- 1. FICCI Knowledge Paper & Compilation of Papers by Naval Officers 2. 2 nd FICCI Compendium for Defence & Aerospace Presentation of Green Certificates to Dignitaries by President, FICCI	
1023 – 1030 hrs	Summing up and Vote of Thanks by Mr Jayant D Patil , Chairman, Defence & Aerospace Committee, FICCI and Member of the Board, L&T Heavy Engineering & L&T Shipbuilding	
1030 – 1040 hrs	Inauguration of Exhibition by Chief Guest Admiral R K Dhowan , PVSM, AVSM, YSM, ADC, <i>Chief of the Naval Staff, Indian Navy</i>	
1040 – 1100 hrs	High Tea	
Session 1		
Missiles and Gun Systems for a Future Ready Naval Force		
Venue: KK Birla FICCI Auditorium		
1100 hrs	All participants to be seated	
1110 – 1120 hrs	Opening Remarks by Session Chair Vice Admiral AK Chopra, (Retd.) Former FOC-in-C, Western Naval Command Former FOC-in-C, Eastern Naval Command Former DGICG	
1120 – 1135 hrs	The Navy Perspective RAdm Dinesh K Tripathi, NM Assistant Chief of Naval Staff (Policy & Plans), Indian Navy	
1135 – 1150 hrs	Perspectives on Missiles (Airframe and Engines) Mr. Bill Forsberg, SAAB	
1150 – 1205 hrs	Perspective on Missiles (Systems and Controls) Dr A. Bashir, Tata Power SED	
1205 – 1220 hrs	Perspective on Naval Guns (Systems and Propellant) Mr Rajesh Kohli, BHEL	
1220 – 1240 hrs	Question and Answers	
1240 – 1250 hrs	Summing up by Session Chair and Presentation of Green Certificates	
1250 – 1350 hrs	Networking Lunch	

Breakout Sessions¹

Session 2 Propulsion & Power Generation Venue: Hari Shankar Singhanian Commission Room, 3 rd Floor Federation House		Session 3 Torpedo and Directed Energy Weapons Venue: Conference Room 2 nd Floor Federation House	
1400 hrs 1400 – 1410 hrs	All participants to be seated. Screening of Movie on “Make in India”	1400 hrs 1400 – 1410 hrs	All participants to be seated. Screening of Movie on “Make in India”
1410 – 1420 hrs	Opening Remarks by Session Chair VAdm B S Randhawa (Retd.) Former Chief of Material, <i>Indian Navy</i>	1410 – 1420 hrs	Opening Remarks by Session Chair VAdm R K Pattanaik (Retd.) Former Deputy Chief of Naval Staff, <i>Indian Navy</i>
1420 – 1435 hrs	The Navy Perspective – Challenges & Opportunities RAdm K M Deshmukh, VSM Assistant Chief of Material (Dockyards & Refits), <i>Indian Navy</i>	1420 – 1430 hrs	The Navy Perspective RAdm O P S Rana, VSM Director General of Naval Armament Inspection, <i>Indian Navy</i>
1435 – 1450 hrs	National Competence in Marine Gas Turbine Propulsion Cdr CHV Sudhakar <i>Gas Turbine Testing and Tuning Team (Vishakapatnam), Indian Navy</i>	1430 – 1445 hrs	Perspective on Torpedoes (Propulsion and Frame) Atlas Electronics
1450 – 1505 hrs	Diesel Power Plants Mr. Sanjay Kr. Mujumdar, KOEL	1445 – 1500 hrs	Perspective on Torpedoes (Homing and Systems) Raytheon
1505 – 1520 hrs	National Competence in Marine Propulsion – The Road Ahead Cdr M S Gopinathan and Cdr Manish Singh, Indian Navy	1500 – 1515 hrs	Perspective on Torpedoes (Homing and Systems) Mr Abraham Verghese, NSTL
		1515 – 1530 hrs	Perspective on Directed Energy Weapons Mr V B Patil, LASTECH
1520 – 1540 hrs	Questions and Answer	1530 – 1540 hrs	Questions and Answer
1540 – 1545 hrs	Summing up by Session Chair and Presentation of Green Certificates	1540 – 1545 hrs	Summing up by Session Chair and Presentation of Green Certificates
Tea Break			
Session 4 Surveillance and Detection Systems Venue: Hari Shankar Singhanian Commission Room		Session 5 Futuristic Trends in Propulsion and Power Generation Technologies – Electric & Nuclear Venue: Conference Room	
1600 hrs	All participants to be seated. Screening of Movie on “Make in India”	1600 hrs	All participants to be seated. Screening of Movie on “Make in India”
1610 – 1620 hrs	Opening Remarks by Session Chair VAdm P C Bhasin (Retd.) Former Chief of Material, <i>Indian Navy</i>	1610 – 1620 hrs	Opening Remarks by Session Chair VAdm N N Kumar (Retd.) Former Chief of Material, <i>Indian Navy</i>
1620 – 1630 hrs	The Navy Perspective: Future Networks Warfare Concept RAdm S J Singh, NM Assistant Chief of Naval Staff (Communication Space Network Centric Operations), <i>Indian Navy</i>	1620 – 1635 hrs	The Navy Perspective on Nuclear Propulsion Captain Vikram Bora Directorate of Naval Design (Submarine Design Group), <i>Indian Navy</i>
		1635 – 1650	The Navy Perspective on Full Electric Propulsion

¹ Venue –All Breakout sessions to be held in Federation House (next building).

INDIAN NAVY



	Navy	hrs	Captain Lavneesh Dhawan Directorate of Marine Engineering, Indian Navy
1630 – 1645 hrs	AEGIS Weapon Systems – Today and Tomorrow Mr Pete Buckley, Lockheed Martin	1650 – 1705 hrs	Air Independent Propulsion Systems SAAB
1645 – 1700 hrs	Advances in Space based surveillance & technologies maritime applications Mr S. Arunan , Director ISRO	1705 – 1720 hrs	Integrated Electric Propulsion and Power Generation for ships Mr. Ravindra S Mahajan, L&T EAIC
1700 – 1715 hrs	Electronic Support Measures Mr Iqbal Singh, VEM Technologies	1720 – 1735 hrs	Advanced Propulsion Technologies for Electric Ship Architecture Mr Sanjeev Kakkar, GE Aviation Military Systems
1715 – 1730 hrs	Network Centric Naval Warfare Mr Nikas Ghikas, Interoperability Systems International S.A.	1735 – 1750 hrs	Propulsion systems for Aircraft Carrier Admiral Bertrand Aubriat, M/s DCNS
1730 – 1745 hrs	C4I Systems Mr K Suchendar, DRDL	1750 – 1800 hrs	Question and Answers
1745 – 1800 hrs	Question and Answer	1800 – 1810 hrs	Summing up by Session Chair and Presentation of Green Certificates
1800 – 1810 hrs	Summing up by Session Chair and Presentation of Green Certificates		
2000 – 2230 hrs	Dinner by Invitation		

Day 2

April 19, 2016		0900 – 1810 hrs	
Breakout Sessions			
Session 6 Naval Aviation Futures Venue: Hari Shankar Singhania Commission Room		Session 7 Submarine Technologies Venue: Conference Room	
0900 hrs	All participants to be seated.	0900 hrs	All participants to be seated
0900 – 0910 hrs	Screening of Movie on “Make in India”	0900 – 0910 hrs	Screening of Movie on “Make in India”
0920 – 0930 hrs	Opening Remarks by Session Chair RAdml D M Sudan Former Assistant Chief of Naval Staff (Air), <i>Indian Navy and Senior Directing Staff National Defence College</i>	0920 – 0930 hrs	Opening Remarks by Session Chair – VAdm A K Singh (Retd.) Former FOC-in-C East Former CINCAN Former DGICG
0930 – 0940 hrs	The Navy Perspective RAdm P G Pynumootil, NM, Assistant Chief of Naval Staff (Air), <i>Indian Navy</i>	0930 – 0940 hrs	The Navy Perspective RAdm Mohit Gupta, Assistant Chief of Naval Staff (Submarine), Indian Navy
0940 – 0955 hrs	Air Early Warning & Control Technologies Cmde G Sharma (Retd.), Northrop Grumman	0940 – 0955 hrs	Future Submarine Vessel Design and Materials Cmde Mukesh Bhargawa, L&T
0955 – 1010 hrs	Future trends in Naval Multi Role Helicopters Airbus Group	0955 – 1010 hrs	Future Submarine platforms and technologies– Mr Andreas Grunickel, Thyssenkrupp Marine Systems India Pvt Ltd(TKMS)
1010 – 1025 hrs	Emerging Aero Engine Technologies Mr Sasikumar Muthusamy, Rolls-Royce	1010 – 1025 hrs	AIP Technologies/ Stored Energy Devices Dr. S B Singh, NMRL
1025 – 1040 hrs	Future trends in Naval Helicopters Mr. Kononov Oleg, Russian Helicopters	1025 – 1040 hrs	Sonars for Submarines Atlas Electronics
1040 – 1055 hrs	Question and Answers	1040 – 1050 hrs	Question and Answers
1055 – 1105 hrs	Summing up by Session Chair and Presentation of Green Certificates	1050 – 1105 hrs	Remarks on Nuclear Propulsion Options and Summing up by Session Chair and Presentation of Green Certificates
1105 – 1120 hrs	Tea Break		
Breakout Sessions			
Session 8 Autonomous Vehicles for Naval Applications Venue: Hari Shankar Singhania Commission Room		Session 9 Coastal Surveillance and Response Systems and Platforms Venue: Conference Room	
1120 hrs	All participants to be seated.	1120 hrs	All participants to be seated.
1120 – 1130 hrs	Screening of Movie on “Make in India”	1120 – 1130 hrs	Screening of Movie on “Make in India”
1130 – 1140 hrs	Opening Remarks by Session Chair VAdm Satish Soni (Retd.) Former FOC-in-C, East Former Deputy Chief of Naval Staff	1130 – 1140 hrs	Opening Remarks by Session Chair R Adm A R Radhakrishnan (Retd.) Former Chief Instructor (Navy), Defence Services Staff College, Wellington, Nilgiris, India Former Director General, Project Seabird
1140 – 1150 hrs	The Navy Perspective RAdm Srinivas Kanugo, VSM, Assistant Chief of Naval Staff (Air Material), <i>Indian Navy</i>	1140 – 1150 hrs	The Navy Perspective VAdm Anil Kumar Chawla, AVSM, NM, VSM Director General Naval Operations, <i>Indian Navy</i>
1150 – 1202 hrs	Autonomous Unmanned Vehicles Dr Manu Koruula, NSTL	1150 – 1202 hrs	The Coast Guard Perspective IG V S R Murthy, PTM, TM Deputy Director General (Operations & Coastal Security),

			Indian Coast Guard
1202 – 1214 hrs	Naval Targets (Drone Kits) Mr. Michael Berg, SAAB	1202 – 1214 hrs	Coastal Surveillance Radar Technologies (HF SWR) Raytheon
1214 – 1226 Hrs	Maritime UAV & Helicopter payloads Mr Dmitry Bernadiner, DEFSYS Solutions Pvt Ltd	1214 – 1226 hrs	Coastal Surveillance Beyond the Horizon – The Challenge Mr Ben-Zion Agam, ELTA Systems Limited
		1226 – 1238 hrs	Fast Interceptor Crafts Cdr K S Nathan (Retd.), L&T
1226 – 1238 hrs	Unmanned Surface/ Under Water Craft Rafael	1238 – 1255 hrs	Question and Answers
1238 – 1255 hrs	Questions and Answer		
1255 – 1305 hrs	Summing up by Session Chair and Presentation of Green Certificates	1255 – 1305 hrs	Summing up by Session Chair and Presentation of Green Certificates
1305 – 1355 hrs	Networking Lunch at K K Birla FICCI Auditorium Lawns. On completion, participants to proceed to Session Venue.		
Session 10 Panel Discussion on Future of Defence Shipbuilding in India Venue: Hari Shankar Singhania Commission Room			
1400 – 1405 hrs	All participants to be seated. Screening of Movie on “Make in India”		
1405 – 1450 hrs	Presentation of Papers on Shipbuilding Session Chair - VAdm G S Pabby, AVSM, VSM, Controller of Warship Production & Acquisition, Indian Navy		
1405 – 1420 hrs	Presentation on Evolution of Japanese Shipbuilding and Lessons for India RAdm S Y Shrikhande, Flag Officer Doctrine and Concepts		
1420 – 1430 hrs	Presentation by Mr Bernard Buisson, M/s DCNS		
1430 – 1440 hrs	Presentation on Conceptual Model of Advanced Aircraft Carrier VAdm Vladimir V Pepelyaev, Krylov State Research Centre		
1440 – 1450 hrs	Presentation on Problems and Panacea for Indian Warship building for ‘Make in India’ Perspective Cmde Bhupesh Tater, Assistant General Manager (Material), Naval Dockyard (Mumbai), Indian Navy		
1450 – 1451 hrs	Introduction of Panellists by Cmde B B Nagpal, Principal Director, Naval Design (Surface Ship Group), Indian Navy		
1451 – 1530 hrs	Panel Discussion Session Chair – VAdm G S Pabby, AVSM, VSM, Controller of Warship Production & Acquisition, Indian Navy Panellists CMDs and Business Heads of MDL, L&T, Reliance Defence Limited, TIMBLO Shipyard, SHOFT Shipyard and PDND(SSG)		
1451 – 1455 hrs	Opening remarks by Session Chair VAdm G S Pabby, AVSM, VSM, Controller of Warship Production & Acquisition, Indian Navy		
1455 – 1525 hrs	Presentation of views (5 min) on future of Indian Shipbuilding by panellists on one of the following aspects <ul style="list-style-type: none"> - Desired enablers for boost to Shipbuilding - Integration of equipment / weapon manufacturers with Shipbuilding - Basis of Strategic partnerships – Economics, Welfare, Capacity or Capability? - Requirements for export orientation of Indian Shipbuilding industry 		
1525 – 1535 hrs	Question and Answers		
1535 – 1540 hrs	Summing up by Session Chair and Presentation of Green Certificates		
1540 – 1615 hrs	Tea Break		

Valedictory Session Building India's Future Navy – 'Make in India' Approach Venue: Hari Shankar Singhania Commission Room	
1615 hrs	All participants to be seated
1615 – 1623 hrs	Screening of Movie on " Make in India"
1640 hrs	Admiral R K Dhowan, PVSM, AVSM, YSM, ADC, Chief of the Naval Staff, Indian Navy arrives
1645 hrs	Chief Guest, Shri Rajiv Pratap Rudy, Union Minister of State Skill Development and Entrepreneurship (Independent Charge) & Parliamentary Affairs, Government of India arrives
1645 – 1655 hrs	Welcome Address by Dr A. Didar Singh, Secretary General, FICCI
1655 – 1705 hrs	Opening Remarks by Session Chairman, Admiral Sureesh Mehta, PVSM, AVSM, ADC (Retd.), Former Chief of Naval Staff
1705 – 1715 hrs	Setting the Agenda by Admiral R K Dhowan, PVSM, AVSM, YSM, ADC, Chief of the Naval Staff, Indian Navy
1715 – 1725 hrs	Realising the Agenda by Mr. Ashok Kumar Gupta, Secretary (DP), Ministry of Defence
1725 – 1735 hrs	Industrial Implementation of the National Agenda Mr Shiv Khemka, Co-Chair, FICCI Defence Committee and Chairman, Elcome
1735 – 1745 hrs	Summing up by Session Chairman Admiral Sureesh Mehta, PVSM, AVSM, ADC (Retd.), Former Chief of Naval Staff
1745 – 1755 hrs	Valedictory Address by Chief Guest, Shri Rajiv Pratap Rudy, Union Minister of State Skill Development and Entrepreneurship (Independent Charge) & Parliamentary Affairs, Government of India.
1755 – 1800 hrs	Vote of Thanks by RAdm Mohit Gupta, Assistant Chief of Naval Staff (Submarines), Indian Navy