

Navies as Force Multiplier in Disaster Management

Organisation

- Characteristics of Armed Forces
- Characteristics, Capabilities and Peculiarity of Naval Force
- Likely Scenarios of Disasters around coast
- Likely Naval Response to Disaster
- Recommendations
- Conclusion

Characteristics of Armed Forces

Characteristics of Armed Forces

Force	Deployment Strength	Area of Application	Reach and Speed	Autonomous Operations
Army	Very Large	Vast but mostly inland	Large but Slow	Some times
Navy (and also Coast Guard)	Moderate to Small	Very vast but mostly on Coast and at Sea	Very Long at medium speed	Mostly
Air force	Small	Anywhere	Limited but fast	Generally in support

Characteristics of 'Naval Force'

Characteristics of 'Naval Force'

- National resource available on call
- Composite structure
- Fit, alert and trained manpower
- Amphibian by nature, multi use

Characteristics of 'Naval Force'

- Self Contained force with excellent global networked communication capability
- Flexibility and rapidity of deployment
- Long reach and endurance

Capabilities of Naval Forces

- Capability to operate as Command center
- Power Generation Capability
- Crack teams of Electrical and Mechanical engineering personnel
- Weapon Availability
- Ration carrying capability and Food Cooking capability

Capabilities of Naval Forces

- Diver availability
- Medical facilities
- Lift capability and support resources
- Integral Air element
- Fleet Air Arm

Platforms of the Navy

S No	Type	Capability	Draught	Range
1	Aircraft Carrier	Helicopters, Transport ac, Fighter cover, >1500 men	>8m	>6500 nm
2	Destroyer	Weapons, Manpower, Food, Elect & Mech. Medical, Helicopters, >300 men	Around 7m	>5000 nm (8000 km)
3	Frigate	As above, >200 men	>4.5m	4500 nm
4	Corvette	As above, helicopter staging only >100 men	<=4,5m	4000 nm

Platforms of the Navy

S No	Type	Capability	Draught	Endurance
5	LPD	Heavy lift, Standoff beaching, Medical, Helicopters, LCM, >100 men	7m	> 5000 nm
6	LST & LCU & other landing crafts	Medium lift, Beaching, Helicopter, Medical, >50 men	4m	1500 to >3000 nm
7	Oil Tanker	Replenishment of fuel, water and ration, Medical, >100 men	9m	>10000 nm
8	Survey Ships	Survey of Harbours, Medical, Helicopters, >100 men	3.3m	> 3000 nm

Peculiarities of Operations of navies

- Nearly borderless operation & collaborative capability
- Good reach but only at sea and around coast
- Autonomous endurance
- Can be tasked where access is available from sea
- Need a harbour to exert reach on land
- Can transport bulk resources and operate unsupported for limited time

Likely Scenarios of Disasters around coast

- Oil Tanker / Chemical Carrier accident at sea
- Assistance to Diaspora
- Cyclones / Tsunami / Earthquake
- Oil Spill
- Any other eventuality requiring National response

Likely Naval Response

- Oil Tanker / Chemical Carrier accident
 - Assistance to the crew at any distance
 - Providing on-site Command and Control facility
 - Sustained operations in affected area for fixed time
 - Backup support to mitigation operations as required
 - Constabulary tasks

Likely Naval Response

- Assistance to Diaspora
 - Armed presence and response
 - Providing mass withdrawal under protection
 - Medical Aid
 - Accommodation and Food on board during transit
 - Repeatability of the operation

Likely Naval Response

- Cyclones / Tsunami / Earthquake
 - SOS response
 - Rapid deployment
 - Rescue efforts and Restoration of services
 - Setting up of relief camps / Maintenance of law and order

Likely Naval Response

- Cyclones / Tsunami / Earthquake
 - Providing security
 - Deliverance of tents, food and medicine
 - Medical assistance
 - Diving assistance
 - Harbour survey and obstacle removal

Likely Naval Response

- Oil Spill
 - Management primarily Coast Guard domain
 - Can assist where required by CG

Likely Naval Response

- Any other eventuality requiring National response
 - Multi discipline capabilities
 - Swift response but sea borne
 - Capability – Use matrix must be mapped and practiced accordingly

Recommendations

- Recognition of peculiarities of different Arms of Armed Forces
- Use right force for the right job. Anticipate the need and plan
- Regular exercises and simulations must be conducted

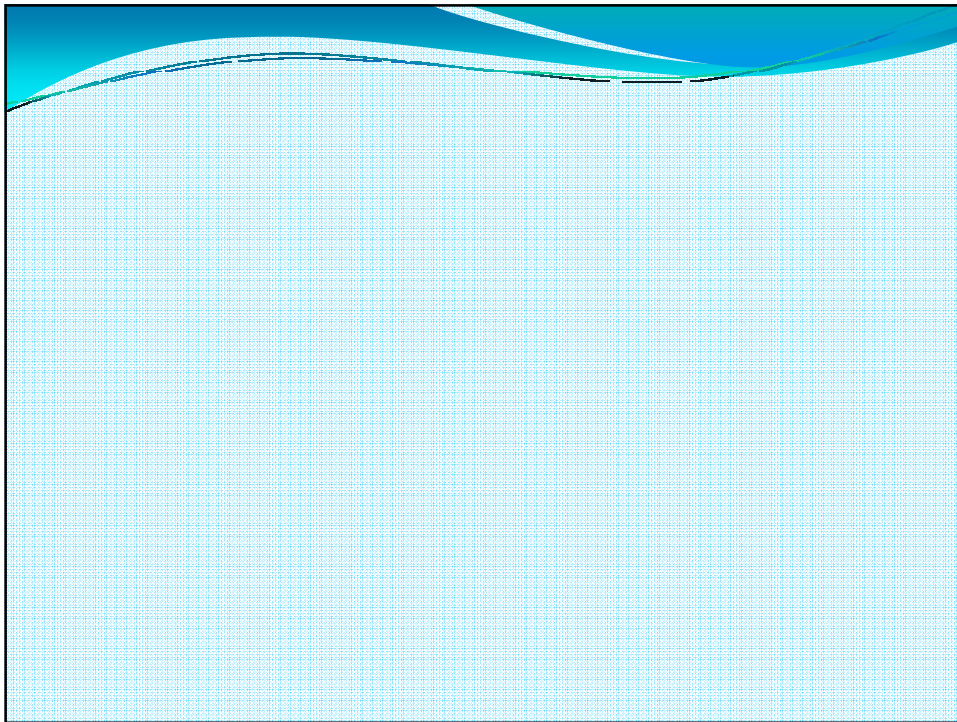
Conclusion

- Armed forces are a ready available resource
- Each arm is capable of different roles and have different limitations
- One commonality among them is capability to react swiftly
- Navy among them has very different peculiarities and capabilities
- This understanding will optimize the use of this service

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Capabilities of Naval Forces

- Operations in NBC environment
- Redundancies
- Resilience
- Spare capability of pumping, etc
- Small workshop