

# Helicopter Connectivity in North East



By:

*Pawan Hans Ltd.*



**PAWAN HANS LTD.**



Company



Profile



Helicopter Maintenance

Connecting Inaccessible Areas

Hotline Washing of Insulators

Inter Island Service

Sri Kadamath J Pilgrim Service

Helicopters for oilfields E & P Activities

Mass Vaishno Devi Pilgrim Service

Hotline Washing of Insulators



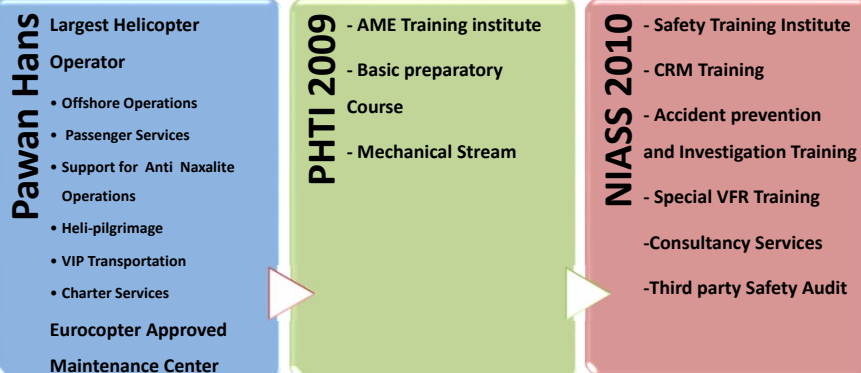
## Pawan Hans at a Glance

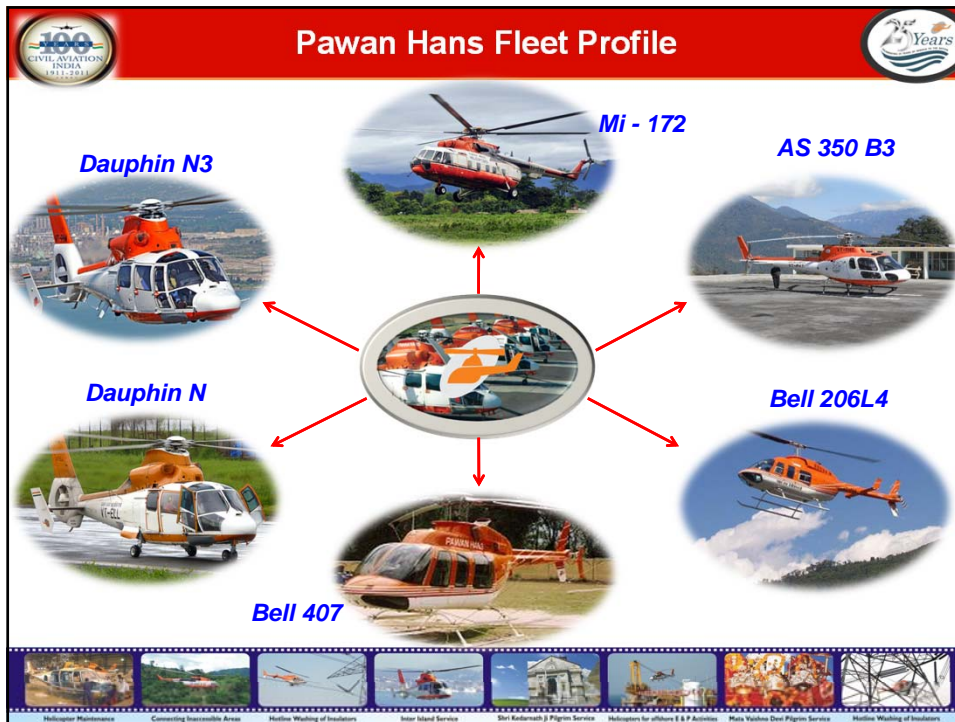


- **PAWAN HANS LTD. - National Helicopter Carrier**
- **Equity Capital - Rs. 245.616 crores;**
  - **GOI** – Rs.125.266 crores (51%);
  - **ONGC** – Rs.120.35 crores (49%)
- **Total Fleet of 53 Helicopters (46 owned and 07 on O&M)**
- **Largest helicopter operator in India having mix fleet of Helicopters.**  
*(Mi-172, Dauphin SA365N, Dauphin AS 365 N3, Bell 206 L4, Bell 407 & AS 350 B3)*
- **Total Flying Experience : Over 5 lakh hours with over 01 lakh landings**  
*(For the period from April-Dec 2012)*
- **Long-term institutional clients from Oil Industry, Govt. Sector, PSUs etc**
- **Integrated Management System (IMS) implemented**
  - ISO 9001: 2008 Quality Management System (QMS)
  - ISO 14001: 2004 - Environmental Management System Standard
  - OHSAS : 18001:2007 – Occupational Health & Safety Management System Standard



## Pawan Hans as Helicopter Brand

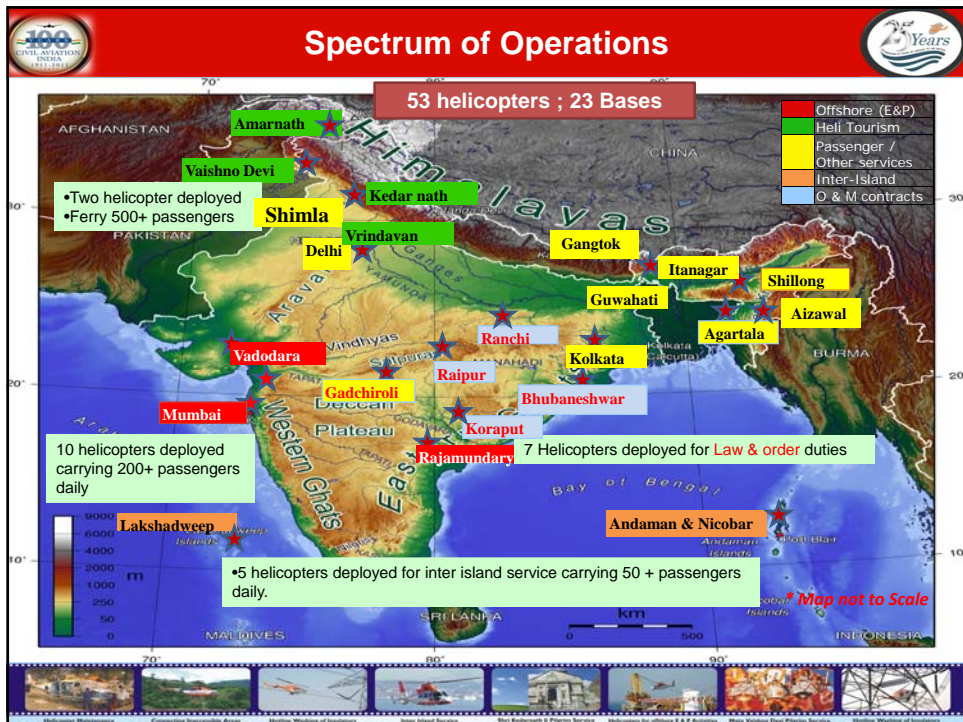




**Pawan Hans Fleet Profile**

Fleet Type	No's	No. of seats (upto)	Engine	Role Utilization
<b>Mi - 172</b>	3	26	Twin	State Government
<b>AS 365 Dauphin N3</b>	17	13	Twin	Offshore operations for ONGC/ BG, Passenger Services, State Governments
<b>SA 365 Dauphin N</b>	18	11	Twin	Offshore operations for ONGC/ BG, Passenger Services, State Governments
<b>Bell 407</b>	3	06	Single	PSUs, State Governments, passenger Services, Tourism
<b>Bell 206 L4</b>	3	06	Single	PSUs, State Governments, passenger transport, Tourism
<b>AS 350 B3</b>	2	06	Single	PSUs, State Governments, passenger transport, Tourism

Helicopter Maintenance, Connecting Inaccessibility Areas, Helium Washing of Insulators, Inter Island Service, Sri Kadamath J Pilgrim Service, Helicopters for offshore E & P Activities, Main Vishnu Dev Pilgrim Service, Helium Washing of Insulators



## Pawan Hans Services in NE

*Pawan Hans Services in NE*

Services shown in the bottom strip:

- Helicopter Maintenance
- Connecting Inaccessible Area
- Helpline Waking of Insulators
- Inter Island Service
- Sri Kedarnath J Pilgrim Service
- Helicopters for offshore E & P Activities
- Mata Vaishno Devi Pilgrim Service
- Helpline Waking of Insulators





## PHL in North East



### Helicopters of PHL are being utilized in the following areas/sectors in the North East:-

- **Linking of inaccessible areas** – By regular passenger services.
- **Emergency/medical evacuation** – Helicopter services are available for casualty evacuation and during floods and earthquakes.
- **For Law & Order**
- **VIPs transportation**
- **Tourism** – Tourists visiting areas in the North East.



## PHL in North East



- Started operating in 1989
- The objective of starting the helicopter service in this sector was to meet National need of connecting inaccessible areas and support the development of various North East states.
- Only helicopter company in India to have connected by civil helicopter service the remote places like Tawang, Takshing, Mechuka, Gelling, Kahao, and Vijaynagar (All in Arunachal Pradesh) to the developed places in Brahmaputra Valley, Sikkim, Meghalaya, Tripura, Mizoram etc.
- The connectivity with helicopter led to increase in the economic activities of the Northeast region leading to overall development of the region.





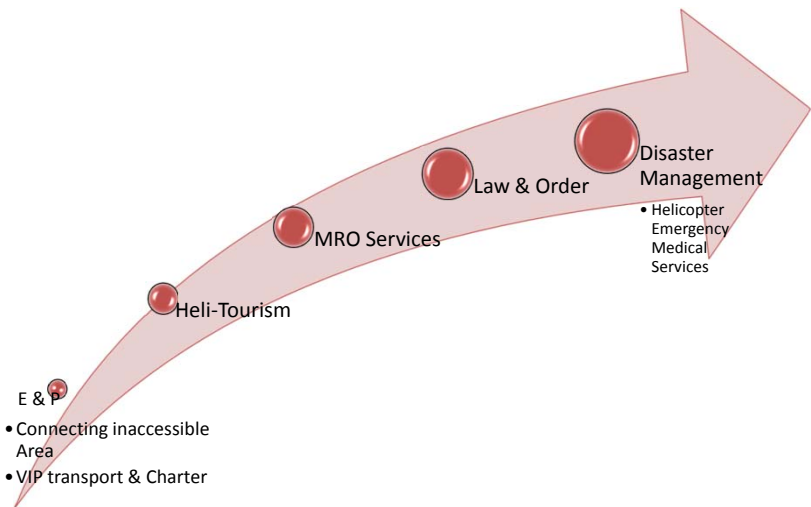
# Helicopter Service in North East



Connectivity Profile	
Destination connected	39
Sectors	64
Weekly Flights	148



## Emerging Growth Trend in NE- Helicopter Usage



## Infrastructure Requirements

Helipads (Surface & Elevated)

Heliports

MRO facilities

Training Centers



## ISSUES

- Requirement of More Heliports / helipads
- Air Traffic Management (ATM) - Separate corridor for Helicopter operations
- MRO centers to meet the growing demand for repair and overhaul
- Training Academies to meet the requirement of skilled Pilots and Technical staff
- Enhancing Safety awareness of all the stakeholders
- Creation of data centers





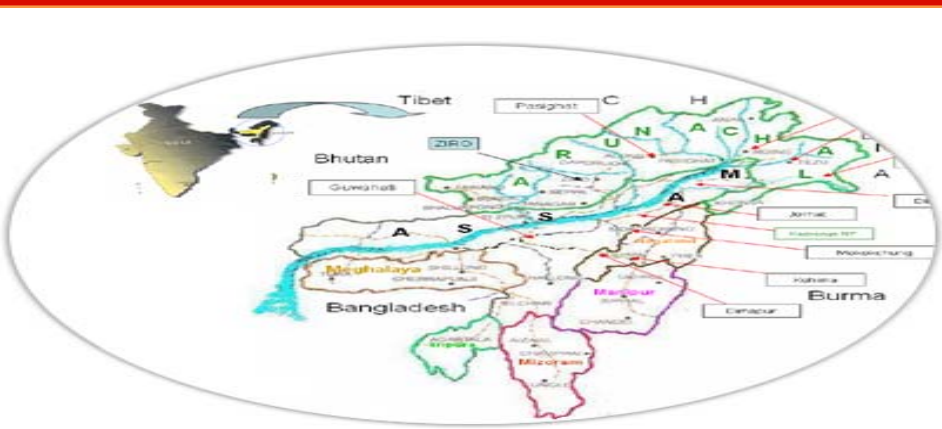
## HELIPAD/HELIPORT BASIC REQUIREMENTS



- Passenger Facilities
- Fencing
- Watch and Ward
- Anti-Hijacking Measures
- Emergency Services
- ATC Facilities
- Clearance of Ministry of Defense
- Suitability of the Heliport/Helipad
- Safety Services
- Landing systems.
- Rescue and fire-fighting services
- Meteorological equipment & Meteorological services
- Services and operational procedures
- Low visibility procedures
- Inspection by DGCA, AAI, BCAS, IMD



## Pawan Hans Vision for NE State







## Pawan Hans Vision for NE State



- **A detailed hub and spoke model (Mixture of Fix Wing & Helicopters)**
- **Intra State Connectivity**
- **Region/State Specific Proposal**



## A detailed hub and spoke model



- **A detailed hub and spoke model**, which may have participants such as long distance fixed wing operators (higher capacity), medium distance fixed wing capacity (low capacity) and medium to short distance (low to medium capacity) helicopter services for the last mile.
- It is high time that a consolidated approach be developed to use helicopters for air connectivity in entire North East Region. The concerned State Govts. and North Eastern Region can be supported by helicopters on dedicated basis keeping long term perspective in mind for regular passenger services, VIP transportation, Medivac, disaster management etc..





## A detailed hub and spoke model



The places shown as connected to Guwahati can be developed as intra region hubs for further last mile connectivity exclusively by helicopters. On the major routes, the services could be run with fixed wings of appropriate capacity



## Intra State Connectivity



Adequate connectivity, at a basic level must be provided between state capitals and thereafter from state capitals to smaller cities in a hub and spoke model within individual states as detailed in the next slide.





## Region/State Specific Proposal



connectivity from regional base to various locations within / outside state such as



## Conclusion



- **Acquisition of suitable helicopters**, which could be funded by DoNER / NEC, to whom these helicopters could be earmarked and can be used on dedicated and long term basis for air connectivity in NE Region (on subsidized basis in line with the present MHA subsidy to NE States) and for VIP transportation, Medivac, Disaster management, tourism etc.
- The helicopter, crew, inventory etc. are to be based at the Base designated by the State Govt.

Contd.....





## Conclusion



- The helicopters would be deployed as per DONER / NEC directions based on ground situation and the Nodal agency may coordinate and authorize centrally undertaking the tasks such as VIP and Medivac or other Emergency tasks from nearest available helicopters for faster turn-around time.
- It is high time that a consolidated approach be developed to use helicopters for air connectivity in entire North East Region. The concerned State Govts. and North Eastern Region can be supported by helicopters on dedicated basis keeping long term perspective in mind for regular passenger services, VIP transportation, Medivac, disaster management etc..



## Conclusion



- Need has been felt for provision of night landing facility in the helipads/ heliports at district headquarters and temporary night landing facility in remote areas for carrying out emergency search and rescue and medical operations in the night time.
- Provision of dedicated manpower and their skill development in existing helipads are to be engaged for operationalization of the helipads.





# Thank you

