



PRESENTATION ON

PERSPECTIVE ON

DEVELOPMENT OF HELIPORTS

25TH NOVEMBER 2023



WHY SHOULD THE STATES HAVE HELIPOINTS/ PERMANENT HELIPADS ?

EXTREMELY IMPORTANT FROM OPERATIONAL SAFETY POINT OF VIEW

DEFINED OBSTRUCTION FREE APPROACH FUNNELS

READY AVAILABILITY OF EXCLUSIVE INFRASTRUCTURE AT ALL TIMES

FIXED LOCATION COORDINATES FOR OPERATIONAL & ADMINISTRATIVE EASE

MORE HELICOPTER OPERATIONS POSSIBLE

PRE-INFORMATION ABOUT HELICOPTER CLASS SUITABILITY



WHY SHOULD THE STATES HAVE HELIPORTS/ PERMAMENT HELIPADS ?

BETTER PASSENGER FACILITATION & CONVENIENCE

AVAILABILITY OF BETTER RESCUE & FIREFIGHTING EQUIPMENT

READY AVAILABILITY OF VISUAL AIDS AND SECURITY EQUIPMENT

MUCH MORE EFFICIENT FOR EMERGENCY, HEMS & DISASTER MANAGEMENT OPERATIONS

OPERATIONS WITHOUT DISTURBING OTHER ACTIVITIES

NO POSSIBILITY OF ENCROACHMENTS

MORE PREFERABLE FOR VIP MOVEMENTS



HELIPORTS IN NER- ALL THE MORE IMPORTANT

REMOTE HILLY TERRAIN

STRATEGIC IMPORTANCE

STRENGTHENING LAW & ORDER

HEMS OPERATIONS

DISASTER MANAGEMENT & EMERGENCIES

BETTER INTERCONNECTIVITY BETWEEN NORTH EASTERN STATES

CONSTRUCTION OF AIRPORTS DIFFICULT DUE TO TERRAIN

HELICOPTERS ARE ACTUALLY A LIFELINE FOR THE REGION



MAJOR CONSTITUENTS OF A HELIPORT

FATO
**(Final Approach & Take
Off Area)**

TLOF
**(Touch Down & Lift Off
Area)**

Safety Area

**Two Clear Approach &
Take Off Funnels**

Apron/ Parking Bays

Taxiways

PTB
**(Passenger Terminal
Building)**

ATC
**(Air Traffic Control
Building)-Depending
Upon Traffic**

Fire Building



MAJOR CONSTITUENTS OF A HELIPORT

Utility Building

Hangars

Boundry Wall

Watch Towers

Vehicle Parking

**Security Hut At
Main Gate**

**Segregation Of
City Side With Air
Side Area**

**HRP
(Heliport
Reference Point)**

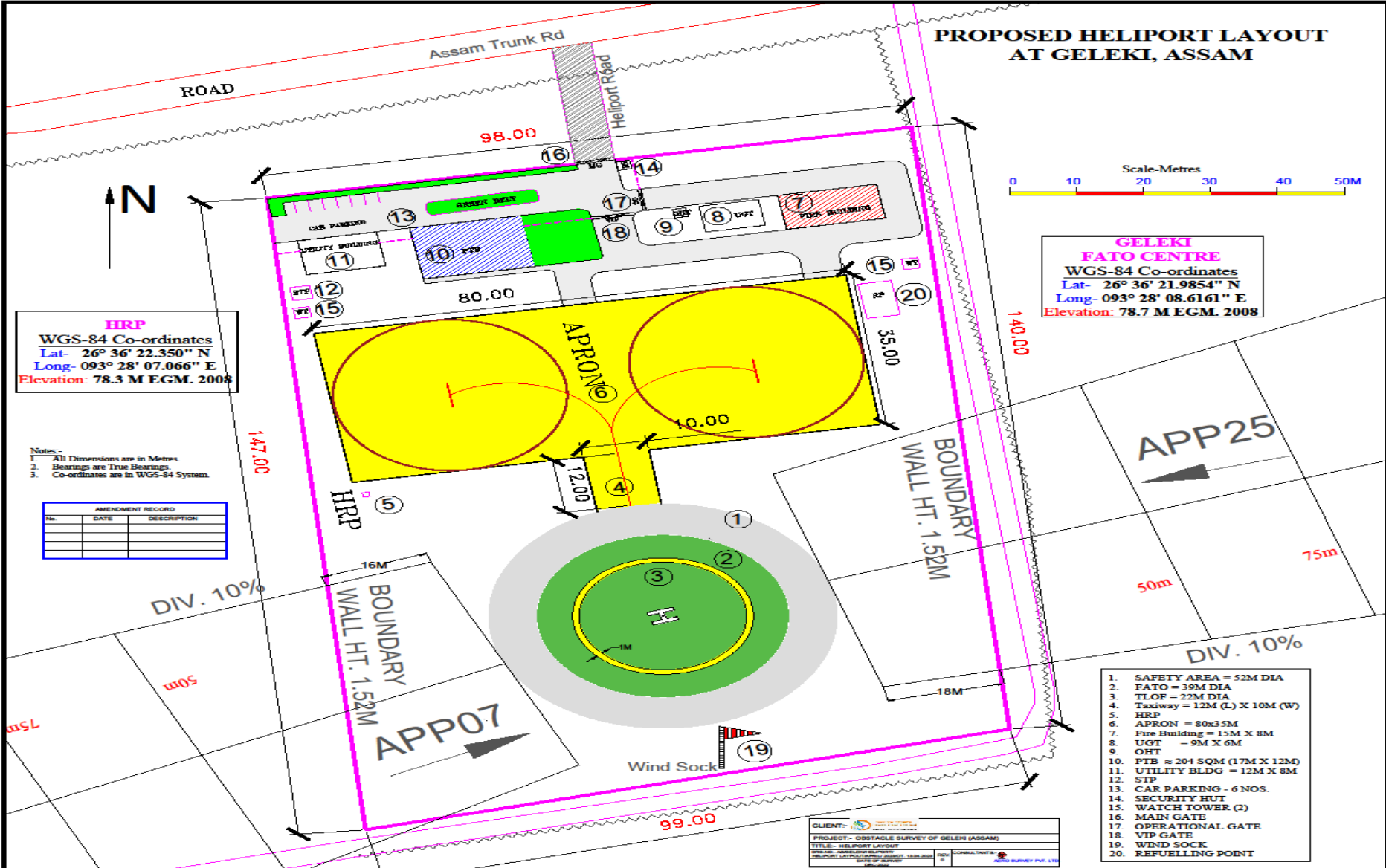
**Security, Rescue & Fire
Fighting, Communication &
Other Misc. Equipment**

**Meteorological
Equipment**

**Wind Direction
Indicator**



INDICATIVE MASTER LAYOUT PLAN OF A HELIPORT





TENTATIVE LIST OF EQUIPMENT REQUIRED AT PERMANENT HELIPAD / HELIPORT

A) Communication, Security & Visual Aid Equipment:

i) X-Ray Hand Baggage Scanner - 1 No

ii) Door Frame Metal Detector - 2 No

iii) Hand Held Metal Detector - 4 No

iv) Explosive Trace Detector - 1 No

v) Siren (220 V) - 1 No

vi) Binoculars - 2 No

vii) Wind Sock - 1 No

viii) Heliport Rotating Beacon - 1 No



TENTATIVE LIST OF EQUIPMENT REQUIRED AT PERMANENT HELIPAD / HELIPORT

ix) Air-Ground Radio VHF Communication system - 1 set

x) Six Walkie Talkie with Base station (for ground to ground communication) -1 set

xi) Weighing Scale - 2 No

xii) Satellite phone - 1 No

B) Crash Fire tender

C) Meteorological Equipment



TENTATIVE LAND AREA REQUIRED FOR DEVELOPMENT OF HELIPORT/ PERMANENT HELIPAD

Heliport- 150 M X 130 M

Permanent Helipad (For Heavy Class Helicopters)-100 M X 90 M

Permanent Helipad (For Medium Class Helicopters)-80 M X 75 M

Note:- The above land area recommendations are for a purpose of rough guide. It is important that operational feasibility of the site is ascertained.



ROUGH COST ESTIMATE FOR DEVELOPMENT OF HELIPORT

Details of work	Amount (Cr.)
Passenger Terminal Building (Around 225 sqm Plinth Area)	2.25
Fire Building	0.75
Utility Building	0.40
Pavement (FATO & Safety Area)	2.00
Boundary Wall	0.60
Operational Fencing	0.25
Communication, Security & Visual Aid Equipment	0.75
Meteorological Equipment	0.60
Crash Fire Tender	0.60
External Services (HVAC, External Electrification, CCTV, Horticulture, Water Supply, UGT, Sewerage etc.)	1.50
Security watch towers/ Security Hut	0.25
Furniture	0.20
Retaining Wall & Site Development	1.50
Total	11.65
Add Contingency Charges @ 3%	0.35
Gross Total	



PICS OF FEW RECENTLY DEVELOPED HELIPORTS

Parbung (Manipur)





PICS OF FEW RECENTLY DEVELOPED HELIPORTS

**Walong
(Arunachal Pradesh)**





PICS OF FEW RECENTLY DEVELOPED HELIPORTS

Rampur (Himachal Pradesh)





PICS OF FEW RECENTLY DEVELOPED HELIPOINTS

Srinagar Garhwal (Uttarakhand)





ROLE OF PHL IN DEVELOPMENT OF HELIPORTS

PHL has been designated as the Nodal Agency by MoCA for development of Heliports across the country

Developed country's first Licensed State of the Art Heliport at Rohini, New Delhi in an area of 25 acres

Providing Consultancy for development of around 70+ Heliports in various States across the length & breadth of the country

Contributing in development of Heliports in NER

- Manipur - 5 Heliports
- Assam - 3 Heliports
- Arunachal - 6 Heliports
- Meghalaya - 2 Heliports

Total - 16 Heliports



REQUIREMENT OF HELIPORTS/ PERMANENT HELIPADS IN NER

State	No. Of Districts
Manipur	16
Assam	31
Arunachal Pradesh	26
Meghalaya	12
Nagaland	16
Mizoram	11
Tripura	8
Sikkim	6
Total	126

1 District – 1 Helipad

Each District should preferably have a Heliport or a Permanent Helipad.

As such, to further boost safe helicopter connectivity in the region, development of necessary infrastructure is essential



Thank You

WE *fly* FOR YOU