International Civil Aviation Organization

ICAO

Sixth Meeting of the Asia/Pacific Wildlife Hazard
Management Working Group (AP–WHM/WG/6)

Bangkok, Thailand, 14 to 17 May 2024

Agenda Item 5: **State's Action Plan for Establishment and Implementation of
Wildlife Hazard Management Programme – State's Update**

**STATE ACTION PLAN FOR ESTABLISHMENT AND IMPLEMENTATION OF
WILDLIFE HAZARD MANAGEMENT PROGRAMME – UPDATE**

(Presented by India)

SUMMARY

This paper presents an update on *India's action plan for establishment and
implementation of Wildlife Hazard Management Programme*. The plan focuses
particularly on the steps taken or being proposed to implement the identified
actions for Wildlife Hazard Management Programme in India.

1.   INTRODUCTION

1.1   APANPIRG/33 adopted the following Conclusion formulated by AP-WHM/WG/4 and
endorsed by AOP/SG/6:

> *Conclusion APANPIRG/33/4: State Action Plan for Establishment and
> Implementation of WHMP - Generic Template*
>
> *That, Asia/Pacific States are urged to:*
>
> (a) Develop "State Action Plan for Establishment and Implementation of WHMP" in
>   accordance with the generic template in Appendix C to the Report on Agenda Item
>   3.1 assigning State responsible entities and targeted implementation dates
>   (milestones); and
>
> (b) Commence to execute the State Action Plan the latest from first quarter of 2023,
>   and in accordance with the proposed targeted implementation date (milestone) and
>   complete all actions by 2026.

1.2   The State Letter Ref.: AN 3/3 – AP014/23 (AGA) requesting States to take necessary
action regarding Conclusion APANPIRG/33/4 was circulated to Asia and Pacific States on 24 January
2023 by Asia and Pacific Office, ICAO.

1.3   The update on State Action Plan is presented in response to Task 5/4 assigned to India
during AP-WHM/WG/5.

2.   DISCUSSION

Update on State Action Plan for Establishment and Implementation of WHMP in India

2.1   To ensure compliance with the requirements of Standards and Recommended Practices (SARPS) contained in Annex-14 and ICAO USOAP CMA Protocol Questions related to Wildlife Hazard Management, India has developed the State Action Plan for Establishment and Implementation of WHMP considering the national and local conditions and is provided at **Appendix A** along with explanatory remarks where necessary.

2.2   The actual and proposed implementation timeframe for 16 action items are determined in State Action Plan and responsible entities for competing the successive defined tasks have been designated.

2.3   The national coordinator to coordinate activities for the development and implementation of WHMP at the national level is designated and a committee comprising members from different directorates is constituted to support the national coordinator.

2.4   India has started undertaking the actions recommended in the generic template with aim to complete all actions by December 2026 taking into considerations of WHM activities already undertaken.

3.   ACTION BY THE MEETING

3.1   The meeting is invited to:

a)   take note of steps taken or proposed in State Action Plan for Establishment and Implementation of WHMP in the State by December 2026.

b)   urge states to update the progress on their implementation of the Action Plan; and

c)   discuss any relevant matters as appropriate.

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WILDLIFE HAZARD MANAGEMENT PROGRAMME (WHMP)

STATE ACTION PLAN FOR DEVELOPMENT AND IMPLEMENTATION OF WHMP

INDIA

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS (Steps Taken or Proposed)
WHMP 1	Designate a WHM National Coordinator to coordinate activities for the development and implementation of WHMP at the national level	DGCA	30 March 2023	15 March 2023	• Sh. M.T.Bokade, Joint Director General is designated as National Coordinator for the development and implementation of WHMP at the national level. • Further a committee is constituted for development and implementation of State Action Plan of Wildlife Hazard Management Programme (WHMP) comprising members from following directorates of DGCA: ❖ Aerodrome Standards ❖ Air Space & Air Navigation Standards ❖ Air Safety Directorate ❖ Flight Standards
WHMP 2	Identify/designate WHM Focal Points in all stakeholders, e.g. aerodrome operators, ANSPs, aircraft operators, and pilots.	DGCA, Aerodrome Operators, ANSP (AAI), Schedule Airlines.	30 June 2023	30 June 2023	WHM Focal points by Stakeholders such as Aerodrome Operators (AAI, Private & State), Schedule Airlines and ANSP (AAI) have been designated.

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WHMP 3	Review ICAO provisions and guidance issued by other relevant aviation organisations.	DGCA	30 August 2023	30 August 2023	• Covered Annex-14 provisions w.r.t wildlife in National Civil Aviation Requirements Section 4 Series B Part I (Aerodrome Design & Operations). • Guidance on Wildlife Hazard Management provided to Aerodrome Operators through Aerodrome Advisory Circular 06 of 2017. • Guidance on Management of Potential Wildlife Hazards at Licensed Aerodromes provided through Aerodrome Advisory Circular 01 of 2022. • Review of guidance developed by ICAO APAC Office and issued by ACI & other aviation organisations have been carried out and accordingly, gaps are identified in issued guidance materials.
WHMP 4	Establish National WHM Committee (NWHMC) with defined terms of reference.	DGCA	Established		National Bird Control Committee (NBCC) in India was constituted in the year vide Government of India, Ministry of Civil Aviation order dated 28 April 2009.
WHMP 5	Facilitate WHM initial training in basic WHM concepts for NWHMC members.	DGCA	30 Dec 2024		A session on basic WHM concepts for NBCC members is planned during the meeting scheduled in current year.
WHMP 6	Organize initial and recurrent technical WHM training and seminars for Focal Points and relevant staff members of all stakeholders.	DGCA, ANSP, Aerodrome operators	On-going		• Aerodrome Inspectors have gone through specialized training on Wildlife Hazard Management. • Recurrent training program exists for Aerodrome Inspectors. • Aerodrome operators have initial and recurrent training program for manpower engaged in wildlife hazard management. The conduct of training is being ensured through oversight mechanism.

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					• A workshop has been planned in the month of November, 2024 for stakeholders to promote the concept of WHM and sharing of best practices.
WHMP 7	Identify, if non-existing, develop, and if need be, amend regulations, standards and guidance materials, e.g. SSP, reference to WHMP in aerodrome manual and SMS manual.	DGCA, National WHM Coordinator, Committee and relevant Focal Points	15 Sept 2024		• India has identified Wildlife strike as one of the state safety priority in State Safety Program. • Aerodrome Advisory Circular (AD AC 01 of 2006) issued on Aerodrome Manual covers Wildlife Hazard Management in the following ways: ❖ Wildlife Hazard Management Programme; ❖ Arrangement for assessing any wildlife hazard; ❖ Arrangement for implementing wildlife control programmes; and ❖ Arrangement with local civil authorities for resolving conflicting issues between land –use and aircraft safety. • Safety Performance Indicator (SPI) i.e. Airports using risk based approach for wildlife hazard management in and around as part of SMS has been included in draft National Aviation Safety Plan (2024-28). • The amendment of AD AC 06 of 2017 is under progress to cover the identified gaps w.r.t aerodrome wildlife hazard management programme (AWHMP).
WHMP 8	Establish regulations and/or guidelines that consider WHM aviation safety impacts related to land and infrastructural developments	DGCA, Ministry of Civil Aviation	31 Dec 2025		• Rule 91 of the Aircraft Rule 1937 prohibits the slaughtering and flaying of animals, depositing of rubbish and other polluted or obnoxious matter in the vicinity of aerodrome within a radius of ten kilometres from the aerodrome reference point.

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	outside the aerodrome boundary. *Note.– Examples of land and infrastructural developments that may have safety impacts are theme parks, restaurants, solar panel installations.*				• The executive order passed by Ministry of Home Affairs mandates every state/U.T to establish AEMC with following steps to be considered: ❖ Measures to maintain environmental cleanliness within a radius of 10 to 15 Kms around the airfield on a high priority basis. ❖ Effective measures for disposal of liquid and solid waste. ❖ Removal of unauthorised slums, eating houses, butcheries, etc. in the vicinity of airfields by taking executive and legislative measures, as may be necessary. • The primary legislation has been proposed to amend to have the provision for controlling the development of facilities likely to attract wildlife on or in the vicinity of an aerodrome such as land & infrastructural developments etc. and further opposability to third parties, including land use and local authorities.
WHMP 9	Establish airport WHM committees with defined terms of reference and representation from all relevant stakeholders.	Aerodrome operators	31 Dec 2024		The amendment of AD AC 06 of 2017 is under progress to include the establishment of aerodrome WHM committee with defined roles and responsibilities and representation of aerodrome stakeholders including local authorities.
WHMP 10	Develop airport WHM Plan covering on and off airport activities, facilities and infrastructure and any	DGCA, Aerodrome operators	31 Dec 2024		Aerodrome Circulars 01 of 2006 requires the aerodrome operator to develop the WHM plan.

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS (Steps Taken or Proposed)
	changes thereof, contingencies and crises so that any impact of such elements shall be included in the WHM plan. Consistency with other plans shall also be duly considered.				The amendment of AD AC 06 of 2017 is under progress to define the specific aspects in AWHMP covering on and off airport activities such as Periodicity of Wildlife Survey, Data Analysis, Habitat Management, Risk Assessment, Roles & responsibilities of WHM team and stakeholders, references of SOPs and Review of WHMP etc.
WHMP 11	Include the review of effectiveness of airport-level WHM Plan(s) in State safety oversight program. *Note. – The review of the effectiveness of airport WHM Plan could be included in the aerodrome SMS.*	DGCA	On-going		• As a part of State safety oversight program, Annual Surveillance Plan is developed and surveillance inspection of licensed airport is being conducted to check the compliance of regulatory requirements and documented procedure in aerodrome manual. • Spot inspection is also carried out based on analysis of wildlife strike data. • Specialised Checklist (Appendix 20: WHMP Assessment Checklist) documented in Aerodrome Inspector's Handbook is being used during audit.
WHMP 12	Establish methodology and procedures to review regularly, e.g., annually, the effectiveness of national WHM program. *Note. – This could be part of SSP.*	DGCA	On-going		• Wildlife strike is one of the state safety priority identified in State Safety Program. • The corresponding objectives, safety performance indicators and targets along with the associated action plan are given in National Aviation Safety Plan. • Assessment of key safety priorities and their linked SPIs and SPTs is published in Annual Safety Review.

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS (Steps Taken or Proposed)
WHMP 13	Coordinate airport WHM Plan with air operators and other airport users in the identification of wildlife hazards, e.g. locations and probabilities of wildlife presence, to improve effectiveness of mitigation measures, e.g. by providing a mechanism to share in a timely manner wildlife hazard intelligence with other stakeholders, in particular, pilots, such as alert bulletins, NOTAMs and wildlife detection technologies.	DGCA, Aerodrome Operators, ANSP and Aircraft Operators	31 Dec 2024		The amendment of AD AC 06 of 2017 is under progress to have the integration of AWHMP with aircraft operators plan and establishment of process by aerodrome operator for sharing the details of wildlife presence to pilots/other stakeholders through DATIS, Alert bulletins & NOTAMs etc.
WHMP 14	Identify the necessary means and resources for the implementation of national WHMP (human, financial and material resources)	National Coordinator and Committee	On-going		• Positioning of adequate competent aerodrome inspectors in DGCA is being ensured based on TNA and Manpower Assessment Methodology. • Positioning of trained manpower by aerodrome operators and subsequent check on competency are being ensured through oversight mechanism. • Adequacy of regulations and guidance material is being assessed based on data analysis of audit reports, amendment undertaken by ICAO and remarks given during USOAP-CMA audit.

ID	ACTION	ENTITY RESPONSIBLE	TARGETED IMPLEMENTATION DATE	ACTUAL IMPLEMENTATION DATE	REMARKS (Steps Taken or Proposed)
WHMP 15	Promote safety and reporting culture as per safety management principles	DGCA and relevant stakeholders	Implemented		DGCA has established Mandatory Safety Reporting system under Rule 29E of the Aircraft Rule 1937 and the details reporting requirements are contained in CAR Section 5 Series C Part I. Further this CAR mandates the reporting of wildlife (Bid/animal) strike to DGCA by service providers in desired format. Further, Air Safety Circular 02 of 2011 provides the guidance on Reporting of Wildlife (Bird/ Animal) Strike - Latest "Wildlife (Bird/ animal) Strike" Reporting Form.
WHMP 16	Establish wildlife hazard database as part of SDCPS[3] under SMS and SSP and report electronically wildlife strikes in the standard ICAO format.	CAA and aerodrome operators	Implemented		• The data of wildlife (Bird /Animal) strike is being collected under state's SDCPS. • The data of wildlife (Bird /Animal) strike is being maintained in the standard excel format provided by ICAO and same is being filed with ICAO annually.

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