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भारत सरकार

GOVERNMENT OF INDIA

नागर विमानन विभाग CIVIL AVIATION DEPARTMENT

दुर्घटना सार ACCIDENTS SUMMARY 1982

विमान सुरक्षा निवेशालय नागर विमानन विभाग

AIR SAFETY DIRECTORATE CIVIL AVIATION DEPARTMENT पर्यंडन तथा नागर विमानन मंत्रालय MINISTRY OF TOURISM & CIVIL AVIATION

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CIVIL AVIATION AIRCRAFT ACCIDENT SUMMARY FOR THE YEAR 1982

1. INTRODUCTION

The information contained in this publication is 33rd in the series. 'Notifiable accidents', which took place in India during the year 1982 have been listed in a classified chronological order alongwith the summary and the causes of the accidents.

There have been 19 accidents during the year, all to Indian registered aircraft. Three of these accidents proved fatal resulting in death of 5 crew members and 15 passengers. No Indian registered aircraft was involved in any accident abroad.

Eighteen accidents have been investigated by Inspectors of Accidents and one accident has been investigated by a Court of Inquiry.

Incidents such as precautionary landings, forced landings, aborted take offs, airmisses, bird strikes etc. etc. are not listed in this publication, although all these have been investigated.

The recommendations emanating from all such investigations of accidents and incidents are being implemented for enhancing the level of air safety. Statistical data of accidents and fatalities in respect of airline operations including gliding and flying clubs is listed in tables I to IX. An analysis has also been made in table VIII, on accidents vis-a-vis their phases of operation.

Note: All timings given in this publication are in I.S.T. (Indian Standard Time)

2. DEFINITIONS

ACCIDENT :

An occurrance associated with the operation of an aircraft which takes place between the time any person boards the aircraft with the intention of flight until such time as all such persons have been disembarked, in which:—

- (a) a person is fatally or seriously injured as a result of being in or upon the aircraft or by direct contact with the aircraft or anything attached thereto; or,
- Note:—Specifically excluded are: (i) death from natural causes and fatal or serious injury to any person on board whether self-inflicted or inflicted by another person or (ii) to ground support personnel before or after flight or fatal or serious injury which is not a direct result of the operation of the aircraft, or which concerns stowaways.
- (b) the aircraft incurs damage or structural failure which adversely affects the structural strength, performance or flight characteristics of the aircraft and which could normally require major repair or replacement of the affected component; or
- Note:—Specifically excluded are: engine failure, damage limited to an engine or its accessories or to propeller blades; fairings or cowlings; small dents or puncture holes in the skin; damage to wing tips, antennas, tyres or brakes.
- (c) the aircraft is missing or is completely inaccessible.
- Note:—An aircraft is considered to be missing when the official search has been terminated and the wreckage has not been located.

Serious Injury:

An injury which is sustained by a person in an accident and which :-

- (a) requires hospitalisation for more than 48 hours commencing within seven days from the date the injury was received; or
- (b) results in a fracture of any bone (except simple fractures of fingers; toes or nose); or
- (c) involves lacerations which cause severe haemorrhage, nerve, muscle or tendon damage ; or
- (d) involves injury to any internal organ; or
- (e) Involves second or third degree burns or any burns affecting more than 5 percent of the body surface.

Substantial Damage:

Any damage which necessitates the replacement or extensive repair of any major component.

3. INVESTIGATION OF ACCIDENTS (AIRCRAFT RULES 1937)

Rule 68-Notification of Accidents

An accident in which an airfraft is involved shall be notified in accordance with the provisions of subrules (3) (4) and (5) of this rule if between the time any person boards the aircraft with the intention of flight until such time as all such persons have disembarked:—

- (a) Any person suffers death or serious injury as a result of being in or upon the aircraft or by direct contact with the aircraft or anything attached thereto; or
- (b) the aircraft receives substantial damage.

Rule 71-Inspector's Investigation

The Director General may order the investigation of any accident involving an aircraft, whether such accident is required to be notified under rule 68 or not, and may, by general or special order, appoint any person (herein after referred to as an 'Inspector of Accidents') for the purpose of carrying out such investigation.

Rule 74—Committee of Inquiry

The Central Government may, at its discretion, appoint a Committee of Inquiry composed of two or more persons to hold an inquiry into an accident in which an aircraft is involved, and such a Committee shall have the same powers as an Inspector of Accidents.

Rule 75-Formal Investigation

Where it appears to the Central Government that it is expedient to hold a formal investigation of an accident, it may, whether or not an investigation or an inquiry has been made under rule 71 or 74, by order direct a formal investigation to be held and with respect to any such formal investigation the following provision shall apply namely:

The Central Government shall appoint a competent person (hereinafter referred to as 'the Court') to hold the investigation and may appoint one or more persons possessing legal, aeronautical, engineering, or other special knowledge to act as assessors, it may also direct that the court and the assessors shall receive such remuneration as it may determine.

4. TYPE OF FLYING

1. Airline Operation :

The operations include all scheduled, non-scheduled and non-revenue flying by the two nationalised airlines under Air Corporation Act, 1953.

2. Non-Scheduled Operations:

The operations include all scheduled, non-scheduled, ferry non-revenue and test-flying by other operators holding non-scheduled operator permit and engaged primarily in such operations.

3. Flying Training:

Includes all flights for the purpose of intial issue of a flying licence, for conversion and practice flying for qualifying for renewal/endorsement of pilots licence and test and ferry flying by organisation engaged primarily in flying training.

4. Aerial Work :

Includes aerial survey, aerial mustering on a commercial basis, aerial ambulance, aerial agricultural operations etc., and test and ferry flying by organisation engaged principally in aerial work operations,

5. Private and Business :

Includes private, pleasure and business flying and practice flying where the flying is not directly connected with the purpose of obtaining a higher licence qualifications.

Note:—As per Aircraft Rules 1937, 'Helicopter' means a heavier than air aircraft supported in flight by the reactions of the air on one or more power driven rotors on substantially vertical axis. In this publication, where applicable, the word 'aircraft' also includes Helicopters.

AIRLINES OPERATION

1. Aircraft

Type : B-707

2. Date and time

Registration: VT-DJJ

22nd June, 1982; 0434 hrs.

3. Location

Bombay Airport

4. Type of operation

Scheduled operation

5. Persons on board

Crew: 10, Pax: 101

6	Injury	inday
V.	THULLY	HILLOX

	Fatal	Serious	Minor	None
Crew	. 2	6	4	Nil
Pax	15	19	16	49
Others	Nil	Nil	Nil	
-				VIII I

7. Damage to aircraft

Destroyed

8. Pilot-in-command

Licence: ALPT No. 665 Age: 481 years approx. Total Hours: 6627.15 hrs.

Summary

Boeing 707 aircraft VT-DJJ operating scheduled flight touched down heavily on runway 27 of Bombay Airport. After first impact, the aircraft bounced and wheel well fire warning came 'ON'. The commander opened power and initiated 'GO AROUND'. The take off warning horn also came on. The aircraft rolled for some distance along the right edge of the runway and again got airborne. The aircraft speed started dropping and the stick shaker came 'ON'. The aircraft impacted the kutcha ground near end of runway 27. Thereafter, the aircraft was out of control, and started disintegrating while travelling on the kutcha ground. Two cabin crew members and 15 passengers on board were fatally injured and 6 crew members and 19 passengers got serious injuries. There was no fire.

The accident has been investigated by a Court of Inquiry and the investigation report is under examination by the Govt.

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FLYING TRAINING/GLIDING-

I. Aircraft

Type : Schweizer Glider

Registration: VT-GDD

2. Date & time

9th Feb., 1982; 1325 hrs.

3. Location

Near I.I.T., Kanpur

4. Type of operation

Practice Flying

5. Persons on board

Crew: 1, Passengers: Nil

6. Injury index

	Fatal	Serious	Minor/None
Crew	Nil	Nil	1
Passengers	Nil	Nil	Nil
Others	Nil	Nil	INII
274179			

7. Damage to glider

Substantial

8. Pilot-in-Command

Licence: GPL No. 648 Age: 21 years approx.

Total hrs: 15.06 hrs. (172 launches)

Summary

On 9-2-82, the Pilot took-off from Kalyanpur airfield for practice flying in Schweizer Glider. He attained an altitude of about 2400 ft. AGL while soaring. The pilot subsequently lost excessive height in an effort to recapture the thermal while returning to airfield. He decided to force land the glider in the nearest field. During forced landing, the glider got entangled in H. T. wires.

The pilot escaped with minor injury but the glider sustained substantial damage. There was no fire. The accident occurred during day-light conditions.

The probable cause of the accident has been attributed to collision of the glider with H.T. wires, which remained un-noticed by the pilot, during forced landing after experiencing inadvertant loss of height.

Factors : Personnel-Pilot (failed to avoid obstruction).

1

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13

FLYING TRAINING-2

1. Aircraft

Type: Pushpak MK-I

Registration: VT-DST

2. Date and time

27th Feb., 82; 11.50 hrs.

3. Location

On the Gandak river bank near Akilpur, Distt. Chhapra. (Bihar)

4. Type of operation

Practice flying

5. Persons on board

Crew: 1, Passengers: Nil

6. Injury index

		Fatal	Serious	Minor/None
Crew		Nil	Nil	1
Passengers		Nil	Nil	Nil
Others		Nil	Nil	IVII
Substantial			101	

7. Damage to aircraft

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8. Pilot-in-command

Licence: SPL No. 134

Age: 22 years

Total-hours: 53 hrs.

Summary

The trainee pilot took off from Muzaffarpur for Patna on a solo cross country flight. He was cleared to fly at 1000 ft AGL. When he was over the Gandak river bank which is approximately 20 miles from Muzaffarpur, pilot noticed a vulture approaching towards the aircraft from left side. While the pilot executed right turn to avoid it, he experienced violent vibrations and flaping of left hand engine cowling. The aircraft hit the vulture. Pilot made a safe forced landing.

. The aircraft substained substantial damage. The pilot escaped unhurt. There was no fire.

The cause of the accident has been attributed to breakage of one of the propeller blades resulting from vulture hit.

Factors: Other-Bird collision.

FLYING TRAINING-3

1. Aircraft

Type: Pushpak MK-I

Registration: VT-DMZ

2. Date & time

28th February 82, 0916 hrs.

3. Location

Gauhati Airport

4. Type of operation

Practice flying

5. Persons on board

Crew: 1; Pax: Nil

6. Injury index

Fatal Crew Nil Passengers Nil Others Nil. Serious

Nil

Nil

Nil

Minor/None

1

Nil

7. Damage to aircraft

Substantial

8. Pilot-in-Command

Licence : SPL No. 57 AS

Age: 19 years

Total hours: 35.00

Summary

Traince pilot, the sole occupant, took off from Gauhati Airport to carry out two circuits and landings. The take off, circuit and approach were uneventful. On touch down, the aircraft bounced, swung to the right and went off the paved surface, where it hit two piles of stones lying on the side strip causing substantial

The pilot escaped unhurt and there was no fire.

The cause of the accident has been attributed to traince pilot's failure to maintain directional control after aircraft bounced, resulting in acircraft swinging to right. Opening power at that stage aggravated

Factors: Personnel-Pilot (aircraft handling).

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AV 15015/5/82-4>

FLYING TRAINING

1. Aircraft

Type: Pushpak

Registration: VT-DWE

2. Date and time

April 19, 1982; 7.35 hrs.

3. Location

Bhubaneswar

4. Type of operation

Training flight

5. Persons on board

Crew:1; Pax:Nil

6. Injury index

	Fatal	Serious	Minor/None
Crew	Nil	Nil	1
Pax	Nil	Nil	Nil
Others	Nil	Nil	

7. Damage to aircraft

Substantial

8. Pilot-in-Command

Licence: SPL No. GATI: 39

Age: 181 years

Total hours: 30.05

Summary

Pushpak aircraft VT-DWE took-off with a trainee pilot on his first solo flight from Bhubaneswar Airport on 19-4-82. Take-off, circuit and approach were normal but the tail wheel grazed the ground while landing. The trainee pilot opened power and went around. Again, during landing, the aircraft bounced and the trainee pilot opened power. During the third attempt to land, the aircraft landed with right wing low and developed a swing. The pilot again opened up, but the aircraft stalled when it was about 20 to 30 ft AGL and crashed.

The aircraft was substantially damaged. There was no fire and the trainee pilot escaped with minor injuries.

The probable cause of the accident has been attributed to improper attitude of aircraft during landing flare by the trainee pilot on his first solo. Inadequate experience and low skill were contributory factors.

Factors : Personnel-Pilot (aircraft handling).

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21

FLYING TRAINING/GLIDING_6

1. Aircraft

Type: T-21B Glider

Registration: VT-GAB

2. Date and time

24-4-82; 1320 hrs.

3. Location

Poona Gliderome

4. Type of operation

Practice flying

5. Persons on board

Crew: 1; Passenger: 1

6. Injury index

	Fatal	Serious	Minor/None
Crew	Nil	Nil	1
Passengers	Nil	Nil	1
Others	Nil	Nil	

7. Damage to aircraft

Substantial

8. Pilot-in-Command

Licence No.: GPL: 551

Age: 51 years Total hrs.: 99.02 (Launches: 631)

Summary

At 1320 hrs., the pilot took off from Poona Gliderome for practice flying alongwith one passenger on board. The glider attained a height of 800 ft. on cable release and while circling over the winch lost height to about 300 ft. Pilot was forced to attempt downwind landing. Finding inadequate sink rate during approach, the pilot flew in 'S' pattern with side slip. As there was possibility of overshooting, the pilot executed a steep turn for landing into wind from a height which was approximately 100 feet and the speed was close to the stalling speed of the glider. Glider stalled during the steep turn and crashed.

The glider suffered substantial damage but the crew and the passenger escaped unburt. There was no fire.

The cause of the accident was attributed to execution of a steep 360° turn during final approach for landing into wind from low height with insufficient speed, when the glider stalled and crashed.

Factors: Personnel-Pilot (aircraft handling).

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FLYING TRAINING-7

1. Aircraft Type : Pushpak

Registration: VT-DYI

3rd July, 1982; 1055 hrs.

Near Behala Airport

Test flight

Crew: 2; Passengers: Nil

		Fatal	Serious	Minor/None
	Crew	2	Nil	Nil
	Passengers	Nil	Nil	Nil
	Others	Nil	Nil	
aft	Destroyed			

7. Damage to aircraft

2. Date and time

4. Type of operation

5. Persons on board

6. Injury index

3. Location

8. Pilot-in-Command

Licence : CPL No. 111

Age :-50 years

Total hrs: 7390.04 hrs.

Summary

The aircraft was being test flown for renewal of Certificate of Airworthiness. The aircraft took off at 1005 hrs., made a full stop landing, back tracked and again took off at 1043 hrs. The engine of the aircraft stopped in flight and the aircraft impacted ground in a steep nose down attitude.

The aircraft was destroyed. Both the occupants received fatal injuries. There was no fire.

The cause of the accident has been attributed to stoppage of engine in flight during approach to land which resulted in stall at a height insufficient for recovery. The exact circumstances of the stoppage of engine in air could not be established:

Factors: Aircraft-Powerplant (Powerplant failure for undetermined reason).

AVICSO (5/8/53 A)

25

FLYING TRANING-8

1. Aircraft

2. Date and time

3. Location

4. Type of operation

5. Persons on board

6. Injury index

7. Damage to aircraft

8. Pilot-in-Command

Type : Pushpak MK-I

Registration: VT-DPX

6th October, 1982; 1345 hrs.

Village Bilsuri (near Sikandrabad).

Distt.: Bulandshahar (UP)

Training flight (corss-country)

Crew: 1, Pax; 1

	Fatal	Serious	Minor/None
Crew	Nil	Nil	1
Pax	Nil	Nil	- 1
Others	Nil	Nil	

Substantial

Licence: PPL No. 3233

Age: 21 years approx.

Total hrs. : 69.15

Summary

Pushpak aircraft VT-DPX was engaged in a cross-country flight with trainee pilot as Commander and an Assistant Pilot Instructor as a passenger on board. Over Bulandshahar, severe vibrations were alleged to have been experienced with loss of engine power. The aircraft made a forced landing due to reported engine trouble.

The aircraft was substantially damaged. Both the occupants escaped unhurt. There was no fire.

The cause of the accident has been attributed as "Propeller could have been damaged either by bird strike or due to some high trees during the low flying manoeuvre".

Factors: Personnel-Pilot (failed to avoid obstruction).

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FLYING TRAINING-9

1. Aircraft

2. Date and time

3. Location

4. Type of operation

5. Persons on board

6. Injury index

7. Damage to aircraft

8. Pilot-in-Command

Type: Pushpak MK-I

Registration: VT-DNO

16th Oct., 1982; 1310 hrs.

Near Ludhiana Airfield

Training flight

Crew: 2; Pax : Nil.

	Fatal	Serious	Minor/None
Crew	Nil	. Nil	1
Pax-	Nil	Nil	Nil
Others	Nil-	Nil	Nil
Substantial			
Licence No.: CPL 1321			

Age: 23 years,

Total hours: 401.40 hrs.

Summary

Pushpak aircraft VT-DNO took off from Ludhiana Airfield for a training flight with an Asstt. Pilot Instructor and a trainee pilot on board. After the training exercises, when the aircraft was descending to join the circuit, the instructor saw a cluster of vultures ahead of him. In the process of avoiding birds, aircraft lost considerable height and came close to high tension cables. Pilot attempted to climb over the wires but the aircraft stalled and impacted the ground.

The aircraft sustained substantial damage. The instructor pilot received minor injuries and the trainee pilot escaped unhurt. There was no fire,

The accident has been attributed to laxity on the part of the instructor in not maintaining a good lookout.

Factors : Personnel-Pilot (aircraft handling.)

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FLYING TRAINING/GLIDING-10

1. Aircraft

Type : Glider ITG-3

Registration : VT-GDV

2. Date and time

1st November, 1982; 1037 hrs.

3. Location

Nasik Road Airfield.

4. Type of operation

Practice Flying

5. Persons on board

Crew: I, Passengers: Nil

6. Injury index

	Fatal	Serious	Minor/None	
Crew		Nil ·	Nil	1
Passengers		Nil	Nil	Nil
Others		Nil	Nil	

7. Damage to glider

Substantial

8. Pilot-in-Command

Licence: SPL No. GCD: 102 G

Age: 26 years approx. Total hours: 11.42 hrs.

(157 launches)

Summary

The trainee pilot was authorised by the Chief Gliding Instructor to have practice flight. The trainee pilot gave the signals for launch and the glider started rolling. During ground roll the starboard wing dropped and touched the ground. The glider became airborne with bank and a right swing. The cable was released. The glider swung 180° and impacted the ground.

The glider was substantially damaged. The trainee pilot escaped unhurt. There was no fire.

The cause of the accident has been attributed to improper application of flight controls by the trainee pilot to correct the starboard wing drop during take off roll.

Factors : Personnel-Pilot (aircraft handling).

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AV 150/3/7/82-45

AERIAL WORK-1

1. Aircraft

2. Date and time

3. Location

4. Type of operation

5. Persons on borad

6. Injury index

7. Damage to helicopter

8. Pilot-in-Command

Type: Bell 47G-5 Helicopter

Registration: VT-EAO

30th May 1982; 1808 hrs.

Kallala Estate (near Cochin)

Aerial Application

Crew: 1; Passengers: Nil

	Fatal	Serious	Minor/None
Crew	1	Nil	Nil
Passengers	Nil ·	Nil	Nil
Others	Nil	Nil	
			100

Substantial

Licence: CHPL No. 29

Age: 45-1/2 years

Total hrs. : 8038.10 hrs.

Summary

The helicopter was engaged in aerial chemical spraying operation of rubber plantations in Kallala Estate near Cochin on 30-5-82. During the 60th sortie, the last sortie of the day, when the helicopter turned towards helipad on completion of swath run, the engine failed. The helicopter lost height and hit rubber trees. The helicopter became uncontrollable and impacted the ground.

The pilot received fatal injuries and the helicopter was substantially damaged.

The probable cause of the accident was engine failure when the helicopter turned towards the helipad at the end of swath run. The engine failed due to partial oil starvation. Overspeeding was a contributory factor.

Factors: Personnel (Improper maintenance).



1. Aircraft

Type: Bell 47G-5 Helicopter

AERIAL WORK-2

Registration: VT-EAP

2. Date and time

26th August, 1982; 1401 hrs.

3. Location

Village Hakkuwala (Punjab)

4. Type of operation

Aerial Application

5. Persons on board

Crew: 1; Passengers: Nil

6. Injury index

	Fatal .	Serious	Minor/None
Crew	Nil	Nil	1
Passengers	Nil	Nil	Nil
Others	Nil	Nil	

7. Damage to helicopter

Substantial

8. Pilot-in-Command

Licence : CHPL 40

Age: 51 years

Total hours: 4500 hrs.

Summary

The helicopter was engaged in cotton spray operations at village Hakkuwala on 26.8.82. The pilot completed 10 sorties and changed to a new helipad. From this helipad when the polit was taking off for the first sortie, the helicopter drifted to the right and impacted the ground in the right bank attitude and rolled over.

The helicopter sustained substantial damage. The pilot escaped unhurt. There was no fire.

The probable cause of the accident has been attributed to inadvertant decay in rotor RPM leading to ineffectivity of lateral control and helicopter settling with power while drifting in right skid low attitude resulting in dynamic roll over.

Factors: Personnel-Pilot (Aircraft handling).

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35

AERIAL WORK-3

1. Aircraft

Type: Bell Helicopter 47G-5

Registration: VT-DZO

2. Date and time

26th Sept., 1982; 1620 hrs.

3. Location

Village Bhagu (Punjab)

4. Type of operation

Aerial Application

5. Persons on board

Crew: 1; Passengers: 2

6. Injury index

	Patai	Serious	Minor/None
Crew	Nil	Nil'	1
Passengers	Nil	· Nil	2
Others	Nil	Nil	

7. Damage to helicopter:

Substantial

8. Pilot-in-Command:

Licence: CHPL 107

Age: 34 years

Total hours: 3425.40 hrs.

Summary

The helicopter was engaged in cotton crop spraying operations on 26.9.82. After completion of 28 spray sorties and refuelling, The helicopter took off from Bhagu Rest House Helipad with the pilot and two engineering personnel as passengers on board for ferry flight to Muktsar town. After getting airborne and while transitioning to horizontal flight, the helicopter hit a four feet high 'bundh' at a distance of 65 feet from its 'lift off' point.

The helicopter was substantially damaged. The pilot and both the passengers escaped unhurt. There was no fire.

The probable cause of the accident has been attributed to the helicopter, during take off, momentarly losing translational lift, due to sudden unfavourable wind conditions.

Factors: Personnel—Pilot (aircraft handling).

Other—(weather).

CHNICAL LIBRARY AERIAL WORK-4 Type : Basant Registration: VT-ECM 27th Sept., 1982; 0815 hrs.

1. Aircraft

2. Date and Time

3. Location

Village Bhutan (Haryana)

4. Type of operation

Aerial Application

5. Persons on board

Crew: 1; Pax : Nil

6. Injury index

	Fatal	Serious	Minor/None
Crew	Nil	Nil	1
Pax	Nil	Nil	Nil
Others	Nil	Nil	

7. Damage to aircraft

Substantial

8. Pilot-in-Command

Licence: SCPL No. 464

Age: 38 years

Total hours: 3994 hrs.

Summary

Basant aircraft VT-ECM was engaged in cotton spray operations on 27-9-82. During first take-off, the pilot lifted-off prematurely probably due to sudden appearance of blue bulls at the end of the air strip. Due to premature lift-off the aircraft failed to climb and the pilot was forced to abandon take-off. The aircraft touched the ground heavily and was substantially damaged. The pilot escaped unhurt. There was no fire.

The cause of the accident has been attributed to failure of the aircraft to climb due to premature lift off and the pilot was forced to abandon flight as the aircraft was not gaining height and forward speed,

Factors : Personnel-Pilot (aircraft handling).

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AERIAL WORK-5

1. Aircraft

Type: Helicopter Bell 47G-5

Registration: VT-DZS

2. Date and time

24th December, 1982; 1235 hrs.

3. Location

Near Village Talimora (Gauhati)

4. Type of operation

Aerial Application

5. Persons on board

Crew: 1; Passengers: 1

6: Injury index

	Fatal	Serious	Minor/None
Crew	Nil	Nil	1
Passengers	Nil	Nil	1
Others	Nil	Nil	

7. Damage to helicopter-

Destroyed

8. Pilot-in-Command

Licence: CHPL No. 57

Age: 38 years

Total hours: 6500 hrs.

Summary

Bell 47G-5 helicopter VT-DZS took off from Gauhati Aerodrome for aerial survey of Garo Hills. Flight was uneventful for about 50 minutes with helicopter flying at 500 feet AGL. While flying over thick bamboo jungle, the pilot experienced engine failure. Auto rotational landing could not be effected. The helicopter crashed in the bamboo growth.

The helicopter was destroyed due to impact. Both the persons escaped unhurt. There was no fire.

The cause of the accident has been attributed to engine failure due to fatigue fracture of magneto idler gear shaft. Jammed cyclic control and unsuitable terrain were the contributory factors.

Factors : Aircraft-Powerplant (fatigue failure). .



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AV-15013/1/82- AS

PRIVATE_1

1. Aircraft

Type: Twin Beech Expediter C-185

Registration: VT-CNB

2. Date and time

25th March, 1982; 0950 hrs.

3. Location

Udaipur Airport

4. Type of operation

Private

5. Persons on board

Crew: 1; Pax: 1

6. Injury index

 Crew
 Nil
 Nil
 1

 Pax
 Nil
 Nil
 1

 Others
 Nil
 Nil
 Nil

7. Damage to aircraft

Substantial

8. Pilot-in-Command

Licence: ALTP No. 67

Age: 56 years -

Total hours: 15000 hrs. approx.

Summary

Twin Beech Expediter aircraft VT-CNB took off from Delhi Airport and landed at Udaipur Airport after two hours of flying. During back tracking, the pilot experienced difficulty in manoeuvring the aircraft. On visual inspection, pilot noticed that tail wheel assembly had collapsed thereby causing damage to both rudders and fins.

All the persons on board escaped unhurt. There was no fire.

The probable cause of the accident has been attributed to collapsing of tail gear as a result of breakage of safety shear bolt. The bolt gave way due to restriction in the linkages.

Factors: Personnel-Inadequate maintenance.

4

TECHNICAL LIBRARY

AV.150/3/2/82 AS

PRIVATE-2

1. Aircraft

Type: Beechcraft Bonanza A-35

Registration: VT-DAC

2. Date and time

24th April, 1982; 0840 hrs.

3. Location

Jindpur village in Alipur Block (Delhi)

4. Type of operation

Private

5. Persons on board

Crew: 1; Pax: 3

6. Injury index

	Fatal	Serious	Minor/None
Crew	Nil	Nil	1
Pax	Nil	Nil	. 3
Others	Nil	Nil	

7. Damage to aircraft

Destroyed

8. Pilot-in-Command

Licence: PPL No. 2764

Age: 40 years

Total hrs: 133.20 hrs.

Summary

Beech Bonanza aircraft took off from Safdarjung Airport for Karnal. During climb, Captain noticed engine oil pressure below minimum, rise in oil temperature and partial loss of engine power. He decided to execute a forced landing in a field. After touch down, aircraft came to rest after hitting a stack of dry wheat crop in the field and caught fire.

The aircraft was destroyed. All persons on board escaped unhurt.

The cause of the accident has been attributed to leakage of oil from oil line connecting governor unit to the oil transfer unit (O.T.U.) of the propeller at the O.T.U. end resulting in loss of power.

Factors: Personnel-Improper maintenance,

1

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PRIVATE-3

1. Aircraft

Type: Beechcraft

Registration: VT-DCW

2. Date and time

30th April, 1982; 07.52 hrs.

3. Location

Near Dhamra (Bhubaneswar)

4. Type of operation

Private ,

5. Persons on board

Crew : 2; Pax : 2

6. Injury index

 Fatal
 Serious
 Minor/None

 Crew
 Nil
 Nil
 2

 Pax
 Nil
 Nil
 2

 Others
 Nil
 Nil
 Nil

7. Damage to aircraft

Substantial

8. Pilot-in-Command

Licence: CPL No. 253

Age: 42 years

Total hours: 5477.08 hrs.

Summary

Beecheraft aircraft VT-DCW took off from Calcutta for Bhubaneswar with two crew and two passengers on board. After about an hour the pilot noticed fall in oil pressure on port engine followed by complete depletion of engine oil, necessitating port engine shut down inflight. Pilot observed cylinder head temperature going high on the live engine accompanied by a burst of smoke in the cockpit which disappeared after a few seconds.

The pilot, as a result, executed safe forced landing on the muddy sea beach. The aircraft was destroyed as the wreckage could not be retrieved from sea for a period of one month following the accident.

All the persons on board escaped unburt. There was no fire.

The cause of the accident has been attributed to rupture of oil hose connecting isolating valve to the propeller dome resulting in complete loss of oil from port engine, thus necessitating its shut down inflight.

Factors: Personnel-Improper maintenance

TABLE 1
Classification of Accidents (Powered Aircraft) by nature of the flight for the year 1982

Nature of flight		No. of ccidents	Fatal ,		Grew	_	sengers		thers	The state of the s	raft Dai	COLOR DE LA COLOR
			Accidents	Killed	Seriously injured	Killed	l Seriously injured	Killed	Seriously injured	Destroye	d Substa tially dama	
Airline Operations	300	. 1	. 1	2	6	15	19	0	0	1	0	-0
Non-Scheduled Opera tions	•	0	0	0	0	0	0 -	0	. 0	0	0	
Flying Training .		6	1	2	0	0	0	0	0	1	5	0
Private & Business		3	. 0	0	. 0	0	0	0	0	1	2	0
Acrial Work .	•	5	1	1	0	0	0	0	0	1	4	0
TOTAL		15	3	5	6	15	19	0	0	4	11	0
		15		3		15		9			Y	

TABLE 2
Accident Statistics and Fatality Rate of Air India for the year 1982

Type of Operation						Scheduled International	Non- Scheduled	Combined Scheduled & non- Scheduled
Hours Flown (No.)						61,975	621	62.506
Passengers Carried (No.)						1,708,914	11,719	62,596
Kilometers flown (in thousands)			3			42,513	441	1,720,633
Passenger Kilometers flown (in thousands)						7,970,767	43,853	42,954
Total number of Accidents						1		8,014,620
No. of fatal accidents	•	ě	• 5			1		1
Crew fatalities				24		2		1
Passengers fatalities		·				15		2
Fatality rate per 100 million Passenger Kms. (C	rew)					, 0.025		15
Fatality rate per 100 million Passengers Kms. (Passe	ngers)				0.188		0.0249
Accident rate per 100 million Kms. flown								0.187
Accident rate per 100 million pax. Kms. flown		20 L				2.352	-	2.328
		•	•	•	•	0.0125		, 0.0124
Patal Accident per 100 million pax. Kms. flows			•	Bil.	•	0.0125	-	0.0124
Accident rate per 100,000 hours flown	•	•	•			1.613		1.597
Fatal accident per 100,000 hours flown						1.613		1.597

TABLE III

. Accident Statistics & Fatality Rate of Indian Airlines for the year 1982

Type of Operation									Scheduled
Hours flown (No.)	1								101933
Passengers carried (No.)									6581999
Kilometers flown (in thousands) .									48649
Passenger Kilometers flown (in thousands)		. 6							5293115
Total No. of Accidents									3293113
Number of fatal accidents				1					
Crew Fatalities									
Passenger Fatalities									-
Fatality Rate/100 Mill. Pax. Kms. (Crew).	100								
Fatality Rate/100 Mill. Pax. Kms. (Pax)						- (1)			
Accident Rate/100 Mill. Kms. flown .									7
Accident Rate/100 Mill. Pax. Kms. flown	1								7
Fatal Accidents/100 Mill. Kms. flown .									-
Accident Rate/100,000 hrs. flown				li a			•		
Fatal Accidents/100,000 hrs. flown			H				,:	TO S	
				Ė				•	-

TABLE IV

Combined Accident Statistics & Fatality Rate of Air India and Indian Airlines for the year 1982

Type of Operation							Y						Scheduled Domestic and International
Hours flown (No.)								(1935) (1935)					
Passengers Carried (No.)												•	163908
Kilometers flown (in thousands)							•		•				8290913
Passenger Kilometers flown (in thousands)							•	•		•			91162
Total number of accidents					•	•					•	•	13263882
No. of fatal accidents								•	9 100				. 1
	1 13				•					•			1
Crew fatalities			-				11.15						2
Passengers fatalities													15
Fatality rate per 100 million passenger kms. (C	Crew)	Ì.											0.015
Fatality rate per 100 million passenger kms. (P	asser	igers)			NEST I								0.113
Accident rate per 100 million kms. flown													
Accident rate per 100 million pax kms flown													1.097
Fatal accident per 100 million kms. flown					•			•		•	•	•	0.0075
A politions note you 100 000 have gave		160						*			•	-	0.0075
				•								•	0.61
Fatal accident rate per 100,000 hours flows	0 .	-		1	•	•	•		•				0.61

TABLE_V

Aircraft Accidents of Flying Clubs/Institutes (Excluding Gliding Clubs) and Agro Operators for the year 1982

Operation	Number of A	Accidents	Hours Flown	Hours flown/ accident	Accident 100	Rate per 00 hrs.	F	italities	
	Total	Fatal			Total	Fatal	Crew	Pax	Others
Flying Clubs/Institutes	6	1	21558	3593	2,783	0.4638	2	0	0
Aerial Work	5	1	4680	936	10.68	2.1367	1	0	0

TABLE;VI

Glider Accidents of Gliding Clubs for the year 1982

Number of	Accidents	No. of	No. of Launches/	Accident			Fataliti	es
Total	Fatal	Launches	Accident	Total	Fatal	Crew	Pax	Others
4,	0	29349	7337	1.363	0	0	0	0

TABLE VII

Powered Aircraft Accidents by Class of Pilots' licence for the year 1982

					Cla	ss of	Licen	ce hel	d					Total Accidents	Fatal
SPL		. •		•,		No.								3	0
PPL		3												2	0
CPL	•					•						. 4		3	. 1
SCPL			•								•			1	0
ALTP	•					• 1								2	1
CHPL											3%			4	1
	1		-									To	tal	15	3

TABLE VIII

Aircraft Accidents by Phase of Operation

			STATE OF STA	Ph	ase o	of Ope	ration						. 7	rotal lvements	% of total
Static .		•	A STATE OF THE PARTY OF THE PAR			2.17								0	0
Taxi .	4	(10 /)			1.									1	5.26
Take off		•												4	21.05
Inflight .			1	•				•	è					4	21.05
Landing	-								٠			i.		10	52.60

TABLE IX

KIND OF FLYING (POWERED AIRCRAFT) TOTAL ACCIDENT RATE PER 100,000 AIRCRAFT HOURS FLOWN

1. AIRLINE OPERATIONS											
(a) Indian Airlines .						N IS					
(b) Air India							1				0.00
(6).111 11(111		31		*				3.			1.5975
2. FLYING CLUBS/INSTITUTE	S	1.1									1,0575
2 APPAR WORK			100	10	1						27.83
3. AERIAL WORK			•							9	106.83