

BVIL_DATABASE FOR LIFE CLAIM OF UAS COMPONENTS

Manufacturer (Applicant)	M/s. VTOL AVIATION INDIA PRIVATE LIMITED			
Model number	AARAV_ENX6MC			
TC No & Date	T0523000000J & 17.05.2023			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim
1	Life of airframe	VTOL aviation Inhouse Manufacturing	Inhouse Accelerated Lifecycle Test	2500 Hours
2	Life of Engine	NA	NA	NA
2	Life of battery	VTOL 27Ah (VTOL_J27_62)	External Lab Battery Test report	509 Cycles
3	Life of motor	1. Lift (VTOL) Motor – T-Motor Antigravity BLDC Motor (MN5006 KV450) 2. Cruise Motor – T-Motor Navigator BLDC Motor (MN3515 KV400)	Bench Test Report	1. 200000 Hours 2. 200000 Hours
4	Life of Propeller	1. Lift (VTOL) Propeller – T-Motor NS 16x5.4 2. Cruise Propeller – T-Motor 15x10 with Air 40 (Falcon)	Bench Test Report	1. 200000 Hours 2. 200000 Hours
5	Life of landing gear	VTOL Aviation Inhouse Manufacturing	Inhouse Drop Test Report	1000 Landings

Manufacturer (Applicant)	M/s Fuselage Innovations Private Limited			
Model number	FIA QD10			
TC No & Date	T11230000013 & 08.11.2023			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim
1	Life of airframe	Fuselage Innovation Inhouse Manufacturing	FEA Analysis	6 Years or 21900 Hours
2	Life of Engine	NA	NA	NA
2	Life of battery	Bonka 16Ah (BK-16000mAh-6S)	External Lab Battery Test report	300 Cycles
3	Life of motor	Hobbywing X8 100KV BLDC Motor	OEM Test report/ OEM Declaration / Bench Test Report	500 Hours
4	Life of Propeller	Hobbywing X8 - 3090	OEM Test report/ OEM Declaration / Bench Test Report	500 Hours

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5	Life of landing gear	Fuselage Innovation Inhouse Manufacturing	FEA Analysis	100000 Landings
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Manufacturer (Applicant)	M/s. VTOL AVIATION INDIA PRIVATE LIMITED			
Model number	AARAV_ENX6MC-2			
TC No & Date	T0124000001B & 10.01.2024			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim
1	Life of airframe	VTOL aviation Inhouse Manufacturing	Accelerated Lifecycle Test	2500 Hours
2	Life of Engine	NA	NA	NA
2	Life of battery	VTOL 22Ah (VTOL_J22_62)	Battery Test report ref.	486 Cycles
3	Life of motor	1. Lift (VTOL) Motor – T- Motor Antigravity BLDC Motor (MN5006 KV450) 2. Cruise Motor – T- Motor Navigator BLDC Motor (MN3515 KV400)	Bench Test Report	1. 200000 Hours 2. 200000 Hours
4	Life of Propeller	1. Lift (VTOL) Propeller – T-Motor NS 16x5.4 2. Cruise Propeller – T-Motor 15x10 with Air 40 (Falcon)	Bench Test Report	1. 200000 Hours 2. 200000 Hours
5	Life of landing gear	VTOL Aviation Inhouse Manufacturing	Drop Test Report	1000 Landings

Manufacturer (Applicant)	M/s Enercomp Solutions Private Limited			
Model number	KINGFISHER V1			
TC No & Date	T0624000001W & 07.06.2024			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim
1	Life of airframe	Enercomp Inhouse Manufacturing	FEA Analysis	250 days/Year
2	Life of Engine	NA	NA	NA

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2	Life of battery	Voltherm 16.8Ah (2x8.4Ah in parallel) (VTD 6S 2P)	Battery Test report ref.	400 Cycle
3	Life of motor	T-Motor U5 KV400	OEM Datasheet / Bench Test report	1600 Hours
4	Life of Propeller	T-Motor 1555 propeller	OEM Datasheet / FEA Analysis/ Bench Test report	1600 Hours
5	Life of landing gear	Enercomp Inhouse Manufacturing	FEA Analysis	7500000 Landings

Manufacturer (Applicant)	M/s. Multiplex Drones Private Limited			
Model number	MD-10HV1			
TC No & Date	T1224000002H & 12.12.2024			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim
1	Life of airframe	EFT	FEA Analysis	2000 Hours
2	Life of Engine	NA	NA	NA
2	Life of battery	Shenzhen 16Ah (TA-15C-16000-6S1P)	Battery Test report ref.	250 cycles
3	Life of motor	HobbywingX6 Pro BLDC Motor	OEM Declaration	100 Hours
4	Life of Propeller	Hobbywing X6 2388	FEA Analysis	100 Hours
5	Life of landing gear	Multiplex Inhouse Manufacturing	FEA Analysis	2000 Landings

Manufacturer (Applicant)	M/s. AMX Innovation Private Limited			
Model number	MODEL M			
TC No & Date	T1224000002K & 23.12.2024			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim
1	Life of airframe	El Imperio Automations LLP	FEA Analysis	4167 Hours
2	Life of Engine	NA	NA	NA
2	Life of battery	MAGNIPOWER 13.6Ah (6S13600MAH)	Battery Test report ref.	251 cycle
3	Life of motor	T-Motor MN5008 KV 400	OEM Datasheet / Bench Test report	1000 Hours
4	Life of Propeller	T-Motor FA16.2*5.3	OEM Datasheet / Bench Test report	1000 Hours
5	Life of landing gear	El Imperio Automations LLP	FEA Analysis	398 Landings

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Manufacturer (Applicant)	M/s. Senselimage Technologies Private Limited			
Model number	SKYCOPTER A6			
TC No & Date	T0325000002Y & 21.03.2025			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim
1	Life of airframe	Senselimage Own manufacturing	FEA Analysis	3000 Hours
2	Life of Engine	NA	NA	NA
2	Life of battery	SHENZHEN DCJ 16Ah (Tattu-6S1P-16000mAh)	Battery Test report.	200 Cycles
3	Life of motor	Vector Technics 115KV BLDC motor	OEM Datasheet / Bench Test report	3600 Hours
4	Life of Propeller	T-Motor 28*8.4	OEM Datasheet / Bench Test report	3600 Hours
5	Life of landing gear	Senselimage Own manufacturing	FEA Analysis	25000 Landings

Manufacturer (Applicant)	M/s AZANSYS TECHNOLOGIES LLP			
Model number	AAA-20L			
TC No & Date	T0625000003E & 14.06.2025			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim
1	Life of airframe	Azansys Inhouse manufacturing	FEA Analysis	1600 Hours
2	Life of Engine	NA	NA	NA
2	Life of battery	AZANSYS 28Ah (TATTU TA3TAS28K1425X1)	Battery Test report.	392 Cycles
3	Life of motor	Hobbywing X9 Plus	OEM Datasheet / Bench Test report	500 Hours
4	Life of Propeller	Hobbywing X9 Plus 36190	OEM Datasheet / Bench Test report	500 Hours
5	Life of landing gear	Azansys Inhouse manufacturing	FEA Analysis	10000 landings

Manufacturer (Applicant)	M/s Ubifly Technologies Private Limited			
Model number	ATVA-1			
TC No & Date	T0725000003H & 04.07.2025			
Sl. No	Life of UAS components	OEM	Report details	Life cycle claim

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1	Life of airframe	Ubifly Inhouse manufacturing	FEA Analysis	3920.81 Hours
2	Life of Engine	NA	NA	NA
2	Life of battery	DAZZLE – 30Ah (GENX-6570)	Battery Test report	359 Cycle
3	Life of motor	1. Lift (VTOL) Motor – T- Motor (V605 KV210) 2. Cruise Motor – T-Motor (AT7215 KV220)	OEM Declaration Letter / Bench Test report	1. 500 Hours 2. 600 Hours
4	Life of Propeller	1. Lift (VTOL) Propeller - T-MOTOR 22"x7.4" Propeller 2. Cruise Propeller - APC 16"x16" Propeller	Bench Test Report / FEA Analysis	1. 500 Hours 2. 600 Hours
5	Life of landing gear	Ubifly Inhouse manufacturing	FEA Analysis	6885 Landings