CHECKLIST FOR ISSUANCE OF RLA

ROC number	
RPAS Manufacturer	
RPAS Model	
RPAS Serial number	
Registration marks	

General			
Please tick appropriate block	**Yes**	**No**	**Note No**
Flight manual			
Maintenance program			
Flight Folio			
Registration marks (as per CAR Part 101.02.4(5))			
Fire proof plate fitted			

Class of operations applied for	
NOTES	

RPAS INFORMATION					
SECTION 1		**Yes**	**No**	**N/A**	**Note No**
1.	RPAS type				
2.	RPA structure				
3.	RPA composition				
4.	Flight envelope capability				
5.	RPA dimensions/measurements and mass together with drawings				
6.	Mass & balance				
7.	Payloads (specific or generic)				
8.	Use of frequencies				
9.	Remote pilot station				
10.	Ground support equipment				

11.	Flight recovery system				
NOTES					

PERFORMANCE CHARACTARISTICS					
SECTION 2		**Yes**	**No**	**N/A**	**Note No**
1.	Maximum altitude				
2.	Maximum endurance				
3.	Maximum range				
4.	Airspeed (take-off, cruise, landing, stall, maximum)				
5.	Maximum rate of climb				
6.	Maximum rate of descent				
7.	Maximum bank angle				
8.	Turn rate limits				
9.	Propulsion system (such as engine/motor, fuel, electrical, hydraulic, pneumatic, gas, solar)				
NOTES					

PERFORMANCE CAPABILITIES AND LIMITATIONS					
SECTION 3		**Yes**	**No**	**N/A**	**Note No**
1.	RPA performance limitations due to environmental and meteorological conditions (wind, ice, humidity, temperature, precipitation, hail)				
2.	Required take-off and landing distances and/or areas				
3.	Flight control surfaces and actuators				
4.	Location of all air data sensors, antennas, radios, and navigation equipment with respect to segregation and redundancy				
5.	Autopilot (type, manufacturer, description of working method)				
6.	Navigation systems (description of the components, together with horizontal, vertical position and velocity accuracy)				
7.	Sensors and/or telemetry				
NOTES					

EMERGENCIES & SYSTEM FAILURES					
SECTION 4		**Yes**	**No**	**N/A**	**Note No**
At the minimum, the following emergency scenarios should be documented, with procedures for handling them:					
a.	Loss of autopilot (fatal error)				
b.	Loss of flight control due to servo failure, if applicable				
c.	Loss of propulsion power				
d.	Loss of engine power (one engine out), if applicable				
e.	Low battery voltage, if applicable				
f.	Loss of navigation components (heading or altitude)				

g.	Loss of Global Navigation Satellite System				
h.	Loss of data link (radio control link failure)				
i.	Loss of remote pilot station (remote pilot station communication failure)				
j.	Loss of power of remote pilot station				
k.	Loss of remote pilot/RPA observer communication				
l.	Dealing with structural damage				
m.	Any other failure modes or scenarios other than those listed above that can endanger safe flight, shall be identified, described and managed in a safe manner.				
NOTES					

HAZARD ASSESMENT					
SECTION 5		**Yes**	**No**	**N/A**	**Note No**
An objective assessment of the RPAS's potential hazard considerations, which should include:					
a.	Identification of RPAS functions				
b.	Systems that assist with the identification of failure conditions				
c.	Management and mitigations of the failure conditions				
d.	A list of alarms and methods for troubleshooting				
NOTES					

FAIL-SAFE FEATURES				
SECTION 6	**Yes**	**No**	**N/A**	**Note No**
Procedures to be followed by the remote pilot in case of malfunctions or failure. Information of flight termination features.				
NOTES				

NIGHT OPERATIONS					
		Yes	**No**	**N/A**	**Note No**
For operations at night, the holder of an ROC must demonstrate to the satisfaction of the Director, how , in the instance of their RPAS:					
a.	Meet the requirements for BVLOS operations below 400 ft				
b.	Strobe lighting installed				
c.	For aeroplanes, have navigation lights, or in the instance of a helicopter or multi-rotor, a beacon light installed.				
NOTES					

CONTROLLED AIRSPACE					
		Yes	**No**	**N/A**	**Note No**
The following to be fitted for operations in controlled airspace					
a.	Mode C or S Transponder				
b.	Altimeter fitted				
c.	Functional strobe lights or lights				
d.	Functional navigation lights				
NOTES					

C2 OPERATIONAL REQUIREMENTS					
		Yes	**No**	**N/A**	**Note No**
C2 Performance requirements					
a.	Down link				
	(i) Link health telemetry (for BVLOS operations)				
	(ii) System health				
b.	Telemetry				
	(i) RPA flight dynamics				
	(ii) Situation awareness (for BVLOS operations)				
c.	Uplink				
	(i) Flight control				
	(ii) RPA system control				
	(iii) Automatic identification system update (for BVLOS operations)				
	(iv) RPAS hand over				
	(v) Link health telemetry (for BVLOS operations)				

NOTES	

BEYOND VISUAL-LINE-OF-SIGHT: OUTSIDE CONTROLLED AIRSPACE					
		Yes	**No**	**N/A**	**Note No**
An RPAs, shall as a minimum, meet the following operational and technical requirements: (a) The operator shall demonstrate compliance with the following technical requirements:					
(i)	RPA will only be operated using command inputs.				
(ii)	Met the requirements as prescribed in TS. 101.02.2.				
(iii)	RPA has the ability to remain clear from obstacles / other hazards and be able to take appropriate action to execute collision avoidance from a/c / obstacles and lost/degraded C2 links unless: (aa) the area is void of other traffic; (bb) the operation occurs in specifically segregated airspace; (cc) any other mitigation is in place to avoid other a/c; obstacles or hazard.				
(iv)	The C2 data link frequency to be used for the data link is deemed appropriate.				
(v)	The C2 performance requirements as per TS 101.05.8 are acceptable.				
NOTES					

BEYOND VISUAL LINE-OF-SIGHT: INSIDE CONTROLLED AIRSPACE					
		Yes	**No**	**N/A**	**Note No**
BVLOS operations in controlled shall meet the requirements of:					
(a)	Requirements of BVLOS operations outside of controlled airspace.				
(b)	Requirements of operations within controlled airspace.				
NOTES					

RECOMMENDATION			
ASSESMENT FOUND TO BE:			*(Tick applicable box)*
ACCEPTABLE		**NOT ACCEPTABLE**	
SIGNATURE OF UAS OFFICER	**NAME IN BLOCKLETTERS**	**DATE**	