



CIVIL AVIATION REGULATIONS ON DRONE OPERATION IN SRI LANKA

BY

H. M. C. Nimalsiri

Director of Civil Aviation & CEO



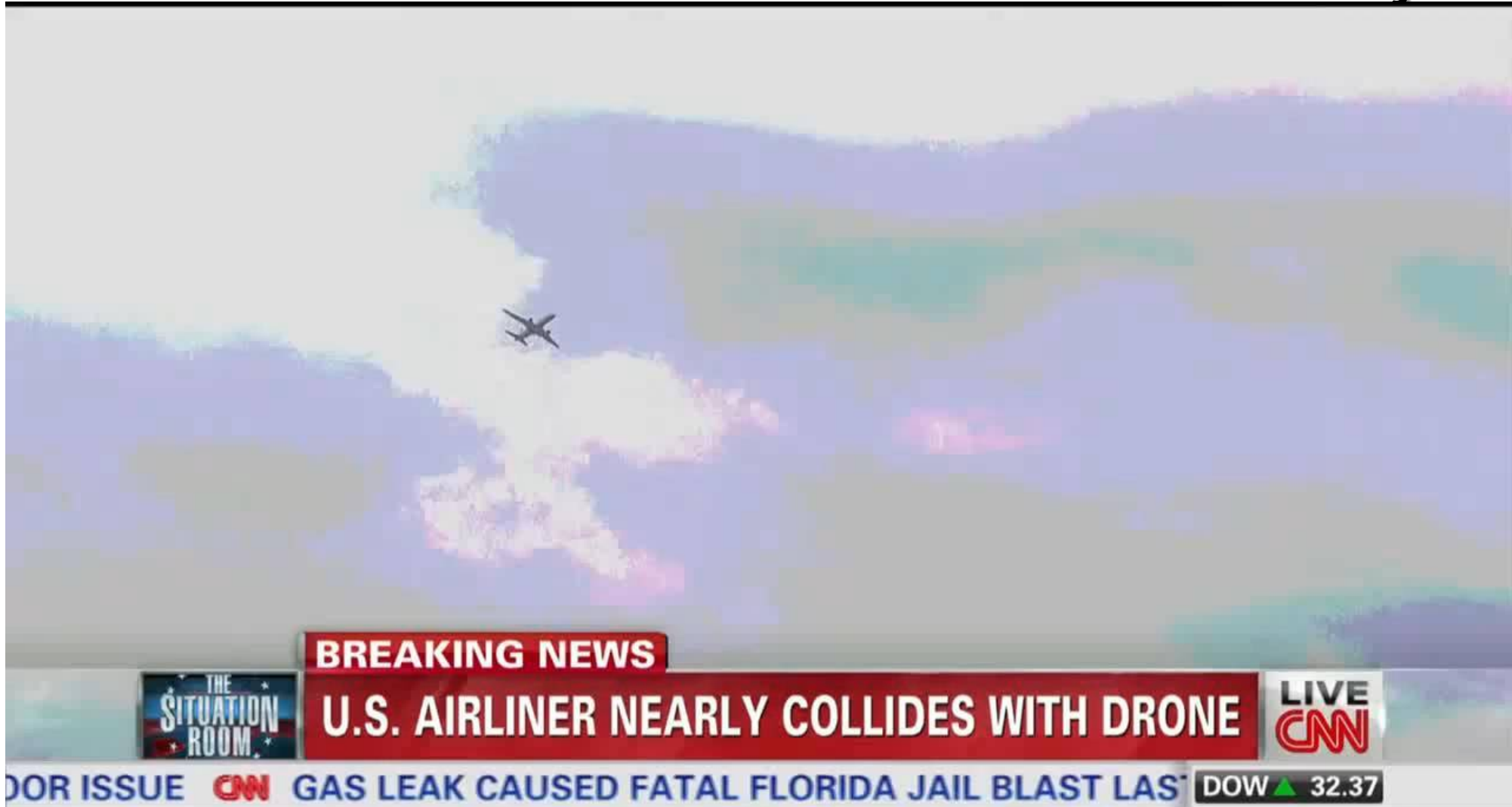
Civil Aviation Authority of Sri Lanka



Drones – the newest member in the Sky !

Are they really
A THREAT TO THE TRADITIONAL USERS – Aircraft ?

Click on Pic
for
Video Clip



Some would call Drones as 'Menace In the Sky'

MENACE IN THE SKY

1 Drone could have been operated from anywhere outside airport

2 It was so close there was 'serious risk of collision'

3 Pilot spotted drone at 700ft. But it did not appear on radar

4 Collision could damage engine or shatter cockpit windscreen - blinding the pilot

DRONE NEAR MISSES

Southend
Heathrow
Gatwick

DRONES YOU CAN BUY

		
Husban X4 H107C Price: £35	DJI Phantom Price: £390	Parrot AR 2.0 Elite Price: £320
A quadcopter with camera. Can fly for about 15 minutes	World's most popular drone, can fly up to 22mph	Steered with smartphone via wi-fi. Includes HD camera

Watch out! Cases of drone near-misses are soaring



The FAA says that reports of near-misses between drones and planes have surged since 2014, with as many as 650 cases as of August 2016. Last month an airliner narrowly avoided hitting a drone near London's tallest skyscraper. Dubai airport has been repeatedly shut down by drone activity, and low-flying drones are increasingly disrupting firefighting aircraft in the western U.S.

Other Potential Threats caused by Drones

- Security of the Country/State
- Economically Sensitive Locations such as Power Plants, Oil Refineries, Irrigation
- Loss of Life of General Public
- Damage to Property
- Privacy of People
- Disturbance to Public/Religious Gatherings
- Exploitation of our Heritage in Wildlife, Archeology/History & Culture
- Road Accidents due to Distractions
- Electrification if struck on Power Lines

Who are responsible/accountable to the General Public against these Potential Threats?

- It's the Government of Sri Lanka (GOSL)
- Accordingly all the relevant Authorities such as the following have a responsibility, therefore a purview/discretion for approval/disapproval:
 - Ministry of Defence
 - Police
 - Wildlife Department
 - Archeological Department
 - Cultural Ministry/Triangle
 - Sri Lanka Tourism Promotion Bureau
 - Power & Irrigation Ministries etc;
- However, as Drones are objects operating in the Sky (ie: Airspace), it would be the Director General of Civil Aviation (DGCA) who shall be finally accountable to the State.
- Therefore, DGCA's is required to issue the Final Approval for a Drone Operation , after verifying that Clearances from above authorities have been obtained as pre-requisites, depending on the Category & Equipage of Drone, Purpose/Area/Places/Times of Operation.

International Civil Aviation Organization (ICAO) also requires DGCA to regulate Drones

Chicago Convention – Article 8



Pilotless Aircraft

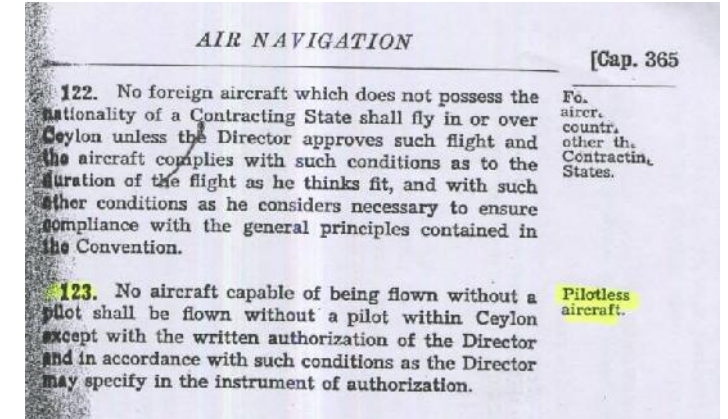
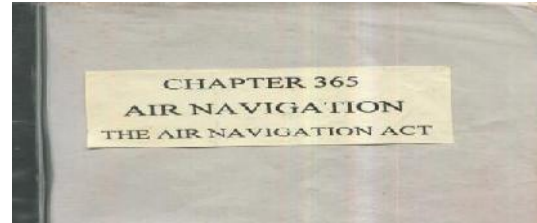
No aircraft capable of being flown without a pilot shall be flown without a pilot over the territory of a contracting State without special authorization by that State and in accordance with the terms of such authorization. Each contracting State undertakes to insure that the flight of such aircraft without a pilot in regions open to civil aircraft shall be so controlled as to obviate danger to civil aircraft.

<As Sri Lanka is a signatory to Chicago Convention of ICAO on Civil Aviation>

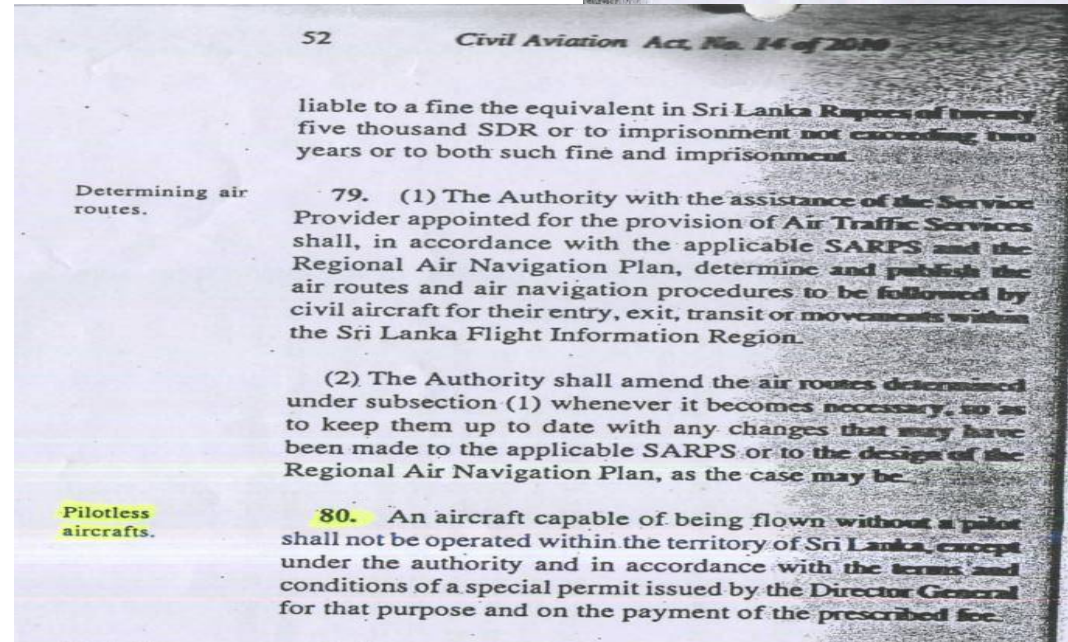


Local Legal Requirement for Drone Regulations in Sri Lanka

- Even from the earliest days of Civil Aviation in Sri Lanka (then Ceylon), DGCA was required to regulate 'Pilotless Aircraft' Operations :
 - as per Air Navigation Regulations of Ceylon 1955 Section 123



- As per Civil Aviation Act No. 14 of 2010
 - also has a reference to Pilotless Aircraft requiring Approval of the DGCA





**Thus,
Both National & International Regulations
have required DGCA to Regulate
'Pilotless Aircraft' that includes Drones**



Evolution of Drone Regulations in SRI LANKA

- Air Navigation Regulations of Ceylon 1955
 - contained a reference to Pilotless Aircraft requiring Approval of the DGCA
- Civil Aviation Act No. 14 of 2010
 - also has a reference to Pilotless Aircraft requiring Approval of the DGCA
- Drone Regulations – SLCA-IS 053
 - 1st Edition/1st Issue : 27th August 2015
 - prescribed only a limited number of conditions
 - 1st Revision : 25th February 2016
 - prescribed a few more additional conditions to address developing trends
 - 2nd Revision : 10th January 2017
 - drafted incorporating developing trends, MOD/OCDS concerns/interests, international trends/practices , ICAO Workshop lessons learnt, views of a few local industry personnel.

Latest Version of Drone Regulations in Sri Lanka

- In accordance with Civil Aviation Act No. 14 of 2010, in collaboration with Ministry of Defence (MOD) & other relevant authorities as appropriate;

➤ The latest Revision (Revision 02 of 1st Edition) of **Implementing Standard SLCA-IS-053** was enacted by the Director General of Civil Aviation (DGCA) was published on 10th January 2016.

Democratic Socialist Republic of Sri Lanka



Civil Aviation Authority of Sri Lanka

Implementing Standards

(Issued under Sec. 120, Civil Aviation Act No. 14 of 2010)

Title: Requirements for Operation of Pilotless Aircraft

(Unmanned Aerial Vehicles/Unmanned Aircraft Systems /Remotely Piloted Aircraft/Drones)

Reference No. : CA-IS-2017-GEN-001 SLCAIS : 053 Date: 10th January 2017

Pursuant to Sec.120 of the Civil Aviation Act No.14 of 2010 which is hereinafter referred to as the CA Act, Director General of Civil Aviation has the power to issue, whenever he considers it necessary or appropriate to do so, such Implementing Standards for the purpose of giving effect to any provision in the CA Act, Regulations or Rules made thereunder including the Articles of the Convention on International Civil Aviation specified in the Schedule to the CA Act.

Accordingly I, being the Director General of Civil Aviation do hereby issue the Implementing Standards as mentioned in the Attachment hereto (Ref: CA-IS-2016-GEN-001-Att.01, titled **Requirements for Operation of Pilotless Aircraft (Unmanned Aerial Vehicles/Unmanned Aircraft Systems/Remotely Piloted Aircraft/Drones)** that shall be complied with when operating pilotless aircraft-under the provision of Section 80 of the CA Act, Article 8 of its Schedule or the applicable International Standards and Recommended Practices specified in Appendix 4 of Annex 2 to the Convention.

This Implementing Standard (IS) which supersedes IS-053 dated 25th February 2016 shall come in to force with immediate effect and remain in force until further notice.

Attention is also drawn to Section 103 of the CA Act, which states inter alia that failure to comply with Implementing Standard is an offence.

A handwritten signature in black ink, appearing to read 'H.M.C. Nimalsiri', written over a horizontal line.

H.M.C. Nimalsiri
Director General of Civil Aviation and
Chief Executive Officer

Civil Aviation Authority of Sri Lanka
04, Hunupitiya Road
Colombo 02.

Enclosure: Attachment No. CA-IS-2016-GEN-001-Att.01

These Drone Regulations were Gazetted in all 3 Languages in May 2016

Sinhala

Tamil

English




ශ්‍රී ලංකා ප්‍රජාතාන්ත්‍රික සමාජවාදී ජනරජයේ ගැසට් පත්‍රය

අති විශේෂ

අංක 1968/10 - 2016 මැයි මස 25 වැනි බදාදා - 2016.05.25

I වැනි කොටස: (I) වැනි ඡේදය - සාමාන්‍ය

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කොළඹ 03.

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සාමාන්‍යයෙන් : නිවැරදිව රේඛා අවසන් වශයෙන් (මිනිසුන් රහිත ගුවන්ගත වාහන/දුරස්ථ පාලන ගුවන් යානා)
චලනය කිරීමේ ක්‍රියා මාර්ග සහ අවධානය

සංඛ්‍යා අංක : CA-IS-2015-GEN-001 ශ්‍රී ලංකා පිලිවෙලේ අවසන් වශයෙන් 25

මෙහි විශේෂයෙන් පිලිවෙලේ අවසන් වශයෙන් අවසන් වශයෙන් 2010 අංක 14 දරන පිලිවෙලේ අවසන් වශයෙන් 120 වගන්තිය යටතේ වාහන පාලන ක්‍රියා මාර්ග සහ අවධානය ක්‍රියාත්මක කිරීමේ ප්‍රතිපත්ති මේ අදාළ වනුයේ නිසිද. මිනිසුන් රහිත ගුවන්ගත වාහන/දුරස්ථ පාලන ගුවන් යානා චලනය කිරීමේ ක්‍රියා මාර්ග සහ අවධානය ක්‍රියාත්මක කිරීමේ ප්‍රතිපත්ති මේ අදාළ වනුයේ නිසිද. මිනිසුන් රහිත ගුවන්ගත වාහන/දුරස්ථ පාලන ගුවන් යානා චලනය කිරීමේ ක්‍රියා මාර්ග සහ අවධානය ක්‍රියාත්මක කිරීමේ ප්‍රතිපත්ති මේ අදාළ වනුයේ නිසිද.

ශ්‍රී ලංකා ප්‍රජාතාන්ත්‍රික සමාජවාදී ජනරජයේ ගැසට් පත්‍රය

අති විශේෂ

இலங்கைச் சனநாயக சோசலிசக் குடியரசு வர்த்தமானப் பத்திரிகை

அதி விசேஷமானது

අංක 1968/10 - 2016 මැයි මස 25 වැනි බදාදා - 2016.05.25

1968/10 අංක இலக்கம் - 2016 ஆம் ஆண்டு மே மாதம் 25 ஆதி திகதி புதன்கிழமை

(அரசாங்கத்தின் அதிகாரத்தடயப் பிரசுரிக்கப்பட்டது)

பகுதி I : தொகுதி (I) - பொது

அரசாங்க அறிவித்தல்கள்

2010 ஆம் ஆண்டின் 14 ஆம் இலக்க, சிவில் விமான சேவைச் சட்டம்

அமுல்படுத்தும் தரங்கள் : விமானவியற்ற விமானங்கள் (மனிதர்கள் அற்ற விமானப் போக்குவரத்து தொலைக்கட்ச்சுட்பட்டிடு விமானங்கள்) செயற்படுத்துவதற்கான தேவைகள்

சிவில் விமான சேவை அதிகார சபையின் பணிப்பாளர் நாயகம் எச்.எம்.சி. நியமசிற்றி, ஆகிய நான், 2010 ஆம் ஆண்டின் 14 ஆம் இலக்க சிவில் விமான சேவைச் சட்டத்தின் 120 (1) ஆம் பிரிவுக்கமைய ஏனக்குவரங்கப்பட்டிருள்ள அதிகாரங்களுக்கு அமைய சிந்தித்துப்பிரிப்பட்ட அமுல்படுத்தும் தரங்களை வெளியிடுகிறேன்.

எச். எம். சி. நியமசிற்றி,
சிவில் விமானப் போக்குவரத்துப் பணிப்பாளர் நாயகம்,
மற்றும் பிரதான நிறைவேற்ற உத்தியோகத்தி.

இலங்கை சிவில் விமானப் போக்குவரத்து அதிகார சபைய,
இல. 04, காணாமல்பட்டிய வீதி,
கொழும்பு 03,
இலங்கை.

ශ්‍රී ලංකා ප්‍රජාතාන්ත්‍රික සමාජවාදී ජනරජයේ ගැසට් පත්‍රය

අති විශේෂ

The Gazette of the Democratic Socialist Republic of Sri Lanka

EXTRAORDINARY

අංක 1968/10 - 2016 මැයි මස 25 වැනි බදාදා - 2016.05.25
No. 1968/10 - WEDNESDAY, MAY 25, 2016

PART I : SECTION (I) — GENERAL
Government Notifications

CIVIL AVIATION ACT, No.14 OF 2010

Implementing Standard: Requirements for Operation of Pilotless Aircraft (Unmanned Aerial Vehicles/ Remotely Piloted Aircraft)

BY VIRTUE of the powers vested in me by section 120 (1) of the Civil Aviation Act, No. 14 of 2010, I, H.M.C. Nimal Siri, Director General of Civil Aviation do hereby issue the following Implementing Standards.

H.M.C. NIMALSIRI,
Director General of Civil Aviation &
Chief Executive Officer.

Civil Aviation Authority of Sri Lanka,
No. 64, Galle Road,
Colombo 03,
Sri Lanka.

CIVIL AVIATION AUTHORITY OF SRI LANKA

Implementing Standards
(Issued under Sec. 120, Civil Aviation Act, No. 14 of 2010)

Title: Requirements for Operation of Pilotless Aircraft (Unmanned Aerial Vehicles/ Remotely Piloted Aircraft)

Reference No. : CA-IS-2016-GEN-001 SLCAIS: 853 Date: 25th February 2016

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This Gazette Extraordinary can be downloaded from www.documents.gov.lk



WHY *SPECIAL* DRONE REGULATIONS ?



■ Conventional Aircraft :

- Flown from a place Certified/Authorized as an Airport/Heli-port → *periodic Inspections*
- Flown by Pilots who are licensed for current Competency & Skill → *periodic checks*
- Aircraft are certified for continuous Airworthiness → *Periodic Checks/Overhauls*
- *Aircraft are subject to strict Surveillance from Ground*
- *Aircraft have ability to Glide in case of an Engine Failure*

Conversely,

■ Drones (at present) :

- Flown from any place of preference, *at any time even all of a sudden*
- Flown by any person who 'feels' confident to operate
- Only Manufacturers' claims of serviceability of performance
- *Just fall to Ground in case Engines Fail*
- *Relies heavily on GPS for Navigation*



WHY *SPECIAL* DRONE REGULATIONS..?(Contd;)

- Four (04) Deliverables of Civil Aviation Authority of Sri Lanka (CAASL) to the General Public who are the real owners of the sky/airspace over the territory of the country :
 - Safety of all aircraft, persons on board & off-board, property
 - Security of all parties involved in Aviation & general public as against Aviation activities
 - Privacy of people (generally not at stake by a civil conventional aircraft)
 - Environment (protection to all public & private places against any damage, disruption, disturbance etc; by movement of aircraft)
- The above aspects are well-captured/assured by way of introduction of a series of regulations in respect of the operation of conventional aircraft
- Similarly , CAASL is duty-bound to ensure/guarantee the General Public the same level of above four (04) deliverables when Drones are flown
- **Hence the need for Drone Regulations !**



WHY *SPECIAL* DRONE REGULATIONS..? *(Contd;)*

- Not to suppress this dynamic fast-growing Aviation Industry which is extremely versatile in terms of its variety of capability for effective use for the benefit of the public/country, such as :
 - Disaster Management
 - Search & Rescue
 - Surveying & Mapping
 - Agriculture,
 - Dengue Prevention,
 - Surveillance (Defence/Police/Environmental/Development)
 - Journalism
 - Photography/Videography
 - Tourism
 - *Advertising/Promotions etc; etc; etc;*

- *But to promote as a Safe & Reliable Industry, whilst mitigating the potential misuse which poses a Threat to Safety & Social life of the public.*



A few Countries where Drone Operations are Restricted/Banned

- **Bangladesh**

- The Government of Bangladesh has banned all unmanned aerial vehicles, which did not have permission prior to December 2014.

- **Japan**

- Japan was moving quickly in early 2015 to legalize and provide regulations for the use of drones in Japan.
- In April 2015, however, a drone carrying radioactive materials landed on the roof of the Prime Minister.
- It is now illegal to fly drones in public parks and more tightening of regulations appear likely.

NOTE: On June 3rd, 2015, the Japanese Government has indicated they will continue to tighten the regulations.



A few Countries where Drone Operations are Restricted/Banned *(Contd;)*

- Kenya
 - *“Potential users now need a permit from the defense ministry – a lengthy process requiring rounds of paperwork and about \$1,000 in fees...”*
- Malaysia
 - Drones need approval to fly for both hobbyist and commercial use cases.
- Thailand
 - Drones with cameras are set to be banned from flying in Thailand.
 - According to ThaiVisa.com:
 - *“The flying of Drones fitted with cameras will not be allowed by members of the general public. Anyone wanting to fly a drone in Thailand will need to seek permission from the Ministry.”*

Rules in General are similar to other Countries viz. *SINGAPORE*



Rules in General are similar to other Countries viz. *SINGAPORE*

DON'Ts



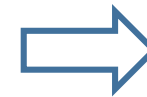
New key aspects of the latest Revision

- Four Categories introduced as follows :

(previously only 3 categories : $\text{Mass} \geq 25 \text{ kg}$, $25\text{kg} > \text{Mass} \geq 1\text{kg}$ & $1\text{kg} > \text{Mass}$)

<u>Mass</u>	<u>Category of Pilotless aircraft</u>
25 kg or above	A
Above 1 kg but below 25 kg	B
Above 200 g but at or below 1 kg	C
200 g or below	D

- 'Category-D' Drone if flown for leisure within own premises below 150ft without Camera
→ *No Regularity Requirement*
- Registration of Drones, Owners, Operators, Vendors, Designers, Assemblers, Importers, Exporters
→ *Registration Certificate*
- Identification Stamp issued by CAASL/Vender → *draft Designed*
- Insurance Cover Requirement → *(minimum of 3rd Party Cover)*
- Airworthiness/Serviceability of Drone Equipment
- Competency & Suitability of Drone Operating Person (*Remote Pilot*)
- Applicable Fee → *a Government gazzeted Fee is levied*
- Occurrence Report → *Submit to CAASL within a day any Incident/Accident.*





Registration of Drones

- Drones of Category-A with/without a Camera → *Register with CAASL*
(through the process similar to 'Aircraft with Pilot-on-board')
- Drone of Any Category if fitted with a Camera → *Register with CAASL*
- Drones of Categories A & B with/without a Camera → *Register with CAASL*
- Drones of Category-C without a Camera → *Register with Authorized Vendor*
- Drones of Category-D without a Camera → *Exempted from Registration*
- Registration Certificate → *Normally issued for a 2-year Period*
(unless a Temporary Registration is issued for a Shorter Period)
 - *Remote Pilot should carry during Operation*
 - *Non-Transferable, New one to be obtained by New Owner.*



Registration of Drones Remote Pilots

- a) Remote Pilot of a Drone of Category D without Camera → *Registration Exempted*
- b) Remote Pilot of a Drone of Category D with Camera → *Registration with Local Police*

- c) Remote Pilot of a Drone of Category A, B or C With or Without Camera
 - *Registration with CAASL,*
 - *Competency Check,*
 - *Authorization Certificate on payment of a prescribed Fee,*
 - *Valid for 02 Years & Renewable*

- b) Age → *over 18 years of age, (unless otherwise authorized by the DGCA in writing).*

- c) Foreigners → *a Temporary Registration with CAASL with a Limited Period of Validity.*

Category –D Drones

DETAILS OD DRONE & INTENDED OPERATION						REGULARITY REQUIREMENT		
Drone Category	Mass Range	Purpose	Location/ Area	Altitude	Camera or other Data Recorder	Registration of Drone/ Operator	Clearance	Approval
D	200 g or Less ($\leq 200g$)	Educational, Recreational	Within Own Premises or with written permission of Premises Owner	At or below 150 ft	No	None	None	None
					YES	YES ; @ Local Police/CAASL	None	None
				Above 150 ft	Not Allowed			
		Outside Such Premises	Any Altitude	Not Allowed				
		Commercial	Any Location	Any Altitude	YES or NO	YES; with CAASL	YES; from MOD/OCDS, Police & any other Authorities relevant to Area of Operation	DGCA

Other Regularity Requirements →

Drone Inspection → No

Competency Check → No

Registration Stamp → No

Category – C Drones

DETAILS OD DRONE & INTENDED OPERATION						REGULARITY REQUIREMENT		
Drone Category	Mass Range	Purpose	Location/ Area	Altitude	Camera or other Data Recorder	Registration of Drone/ Operator	Clearance	Approval
C	200 g or more But Less than 1 kg (1 kg ≥ W > 200 g)	Any	Any Location	At or below 150 ft	NO	YES; with a Authorized Vendor/ CAASL	YES; from MOD/OCDS, Police & any other Authorities relevant to Area of Operation	DGCA
				Above 150 ft	YES or NO	YES ; with CAASL		DGCA under Special Conditions
				Any Altitude	YES or NO	YES; with CAASL		DGCA under Extremely Special Conditions

Other Regularity Requirements →	Drone Inspection → No	Competency Check → No	Registration Stamp → Yes
Insurance Cover → Yes, when local Agencies ready	Age ≥ 18 Years → Yes	CAASL Authorization to Vendors → Yes	

Category – B Drones

(Most common Category amongst Journalists & other Photographers/Videographers)

DETAILS OD DRONE & INTENDED OPERATION						REGULARITY REQUIREMENT		
Drone Category	Mass Range	Purpose	Location/Area	Altitude	Camera or other Data Recorder	Registration of Drone/ Operator	Clearance	Approval
B	More than 1 kg but Less than 25kg (25kg > W > 1kg)	Any	Any Location	Any Altitude	YES or NO	YES; with CAASL	YES; from MOD/OCDS, Police & any other Authorities relevant to Area of Operation	DGCA
Other Regularity Requirements			Drone Inspection → Yes, if so required		Competency Check → Yes		Registration Stamp → Yes	
CAASL Authorization to Vendors → Yes			Insurance Cover → Yes, when local Agencies ready		Age ≥ 18 Years → Yes		2-year CAASL Authorization Certificate → Yes	

Category – A Drones

(All Requirements Similar to Conventional Manned-Aircraft)

DETAILS OD DRONE & INTENDED OPERATION						REGULARITY REQUIREMENT		
Drone Category	Mass Range	Purpose	Location/Area	Altitude	Camera or other Data Recorder	Registration of Drone & Operator	Clearance	Approval
A	25 kg or more ($W \geq 25$ kg)	Any	Any Location	Any Altitude	YES or NO	YES; with CAASL	YES; from MOD/OCDS, Police & any other Authorities relevant to Area of	DGCA
Other Regularity Requirements			Airworthiness → Yes		Operational Approval → Yes		Licences → Yes	
Operation Manual → Yes,			Maintenance Manual → Yes			Registration → Yes		



Safety Distances prescribed for Drone Operations

The following safety distances shall be maintained.

- 100 Meters from any congested area
- 100 meters of an organized open air assembly.
- 50 meters from any person, vessel, vehicle or structure
- During take- off and landing 30 meters from any person, vessel, vehicle or structure

NOTE : Operator is liable for any third party damages to property or injury of personnel, if occurs due the operation.



A Few More Conditions prescribed for Drone Operations

- Operation shall be carried-out during the day light period only
- Operating person shall maintain direct, unaided visual contact with the model aircraft sufficient to monitor its flight path in relation to persons, vehicles and structures for the purpose of avoiding collision.
- Operating person shall only fly it if reasonably satisfied that the flight can safely be made.
- Any article or animal shall not be attached nor dropped/projected from the flight.
- Operating person shall be assisted by an observer who will assist the operator to fly the model clear of any object or person.

Steps to be followed by Applicant to obtain DGCA's Approval for a Drone Operation

- 1) Read Civil Aviation Regulation SLCA-IS053 & Understand the regularity requirements applicable to the category of your Drone & to the intended operation
- 2) Download the two (02) Applications from CAASL Website (www.caa.lk) for the Registration of Drone/Owner and Operator & submit to CAASL (email : aiso1@caa.lk, scaiais@caa.lk; Fax : +94 11 2304641)
- 3) Submit a Request for Security Clearance from Ministry of Defence (Office of Chief of Defence Staff/OCDS) on Fax :+ 94 11 2674507 & email: ocds@army.lk
- 4) Submit Requests for Clearances from any other Authorities such as Wildlife, Archeological Dept., Tourism etc;
- 5) Download the Application from CAASL Website (www.caa.lk) for the Drone Operation Approval & together with copies of Security Clearance and other relevant clearances submit to CAASL ((email : aiso1@caa.lk, scaiais@caa.lk; Fax : +94 11 2304641) for DGCA's Approval
- 6) Collect the DGCA's Approval on payment of relevant Gazzeted Fee

NOTE : (i) Insurance Cover requirement will be applicable w.e.f a future Date

(ii) Registration Certificate & Stamp will be issued on a '1st come-1st Served' basis & will not be a barrier for the Issuance of Approval for a Drone O peration U.F.N. except that Submission of Application for Registration will be a pre-requisite.



Additional Information uploaded to <www.caa.lk> website with the latest SLCA-IS053

- Pamphlet giving a Summary of Requirements & Contact Details
- Application Forms for:
 - Registration of Drone
 - Registration of Drone Owner/Operator/ Vendor/Designer/Assembler/ Importer/Exporters
 - DGCA's Approval for Drone Operation :
 - Per Event
 - Multiple Events within less than 30 days
 - Multiple Events over a period more than 30 days
- **FAQ** → *with answers for almost all your questions on Drone Operations Regulations*



Civil Aviation Authority of Sri Lanka

Application for Registration of Pilotless Aircraft & Operators of Pilotless Aircraft

(Unmanned Aerial Vehicles Unmanned Aircraft Systems /Remotely Piloted Aircraft/Drones)

(To be submitted to the Director General of Civil Aviation via Postal address ; Civil Aviation Authority of Sri Lanka, No 04, Hunupitiya Road, Colombo 02 , Fax +94 11 2304641 or email scalais@caa.lk , also1@caa.lk , hosans@caa.lk)

< Add Pages if space inadequate >

a	Personal Information of the Owner : i. Name : ii. Nationality : iii. Date of Birth : iv. NIC/Passport/DL Number : v. Gender : vi. Postal Address : vii. Telephone/ Fax : viii. e-mail :	
b	Specifications of the Pilotless Aircraft : i. Type : ii. Make/Model/Model No. : iii. Craft Serial No. : iv. Repeater Serial No. : v. Camera Serial No. : vi. Weight (Including battery & Propellers): vii. Weight (excluding battery): viiii. Diagonal Size (excluding propellers): ix. Max Ascent speed : x. Max Descent speed ; xi. Hover Accuracy – Vertical : xii. Hover Accuracy – Horizontal : xiii. Max speed : xiv. Max service ceiling above sea level : xv. Operating temperature : xvi. GPS mode : xvii. Max flight time : Battery : i. Capacity : ii. Voltage : iii. Battery type : iv. Energy : v. Net weight : vi. Operating temperature : vii. Max charging power : Remote Controller : i. Operating frequency : ii. Max transmission distance : iii. Operating temperature : iv. Battery : v. Transmitter power (EIRP) : vi. Operating voltage :	

Application for Registration of Drone & Remote-Pilot

Civil Aviation Authority of Sri Lanka

c	Details of the Import/Purchase : i. Merchant/Shipper : ii. Purchaser/Consignee : iii. Purchased Date : iv. Imported/Cleared Date :	
d	Details of the Pilotless Aircraft Operation : i. Purpose of operation : ii. Probable areas/Locations of the operation : iii. Proposed/Requested altitude (s) for the operation:	Leisure <input type="radio"/> Education <input type="radio"/> Commercial <input type="radio"/> Other.....
e	Personal & Proficiency information of the pilotless aircraft operator: Personal Information : i. Name : ii. Nationality : iii. Date of Birth : iv. NIC Number : v. Gender : vi. Postal Address : vii. Telephone/ Fax : viii. e-mail : Proficiency/Qualifications/Experience :	

Date :

Signature of the Applicant:



Application for Operation of Pilotless Aircraft

(Unmanned Aerial Vehicles Unmanned Aircraft Systems /Remotely Piloted Aircraft/Drones)

(To be submitted to the Director General of Civil Aviation via Postal address; Civil Aviation Authority of Sri Lanka, No 04, Hunupitiya Road, Colombo 02, Fax +94 11 2304641 or email scaais@caa.lk, also1@caa.lk, hosans@caa.lk)

<To be filled in tick where applicable>

Application for Drone Operation Approval

- Granted on a case-by-case basis
- Considered per Event, or events within or over 30-day period

a	Name of the Operator : (approved person/approved organization) i. Postal Address : ii. Telephone/ Fax : iii. e-mail :			
b	i. Registration of Pilotless Aircraft : (attach copy of certificate) ii. Registration of Operator of Pilotless Aircraft : (attach copy of certificate)	Yes <input type="radio"/>	No <input type="radio"/>	Reg No
c	i. Drone Specifications including Gross Mass (Weight) of the drone : ii. Whether any Data retrieval tools such as aerial photographic cameras are fitted?	Yes <input type="radio"/>	No <input type="radio"/>	
d	Purpose of operation :	Leisure <input type="radio"/>	Education <input type="radio"/>	
		Commercial <input type="radio"/>	Other.....	
e	Date of Operation :			
f	Place of Operation :			
g	If request is made for more than one operation, Please fill-up the following table :			
h	Security clearance from the Ministry of Defence (MOD) / Office of the Chief of Defence Staff (OCDS) attached :	Yes No	<input type="radio"/> <input type="radio"/>	
i	Applicable Payment : (Pink colour payment receipt attached)	Yes No	<input type="radio"/> <input type="radio"/>	
j	Other supportive Documents/clearances if applicable : i Archeology Department ii Filming Cooperation iii Forest Department iv	Yes <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	No <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	N/A <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
k	Notification to Local police in charge of the area	Yes No	<input type="radio"/> <input type="radio"/>	

Date :

Signature of the Applicant:

Pamphlet on Drone Registration & Approval Process with Contact Details

Form No: CAA/AS/017 (i)

Civil Aviation Authority of Sri Lanka
INFORMATION PAMPHLET
PROCEDURE FOR
Operation of Pilotless Aircraft
(Unmanned Aerial Vehicles/Unmanned Aircraft Systems/Remotely
Piloted Aircraft/Drones)



Published by Civil Aviation Authority of Sri Lanka

Rev 01

Pamphlet on Drone Registration & Approval Process with Contact Details

Form No: CAA/AS/017 (i)

Civil Aviation Authority of Sri Lanka
INFORMATION PAMPHLET
PROCEDURE FOR
Operation of Pilotless Aircraft
(Unmanned Aerial Vehicles/Unmanned Aircraft Systems/Remotely
Piloted Aircraft/Drones)



Published by Civil Aviation Authority of Sri Lanka

Rev 01

Instructions to the Applicants:-

1. For Regulations on Drone operations in Sri Lanka. Please perceive Implementing Standard, SLCAIS:053 titled "Requirements for Operation of Pilotless Aircraft (Unmanned Aerial Vehicles/Unmanned Aircraft Systems/Remotely Piloted Aircraft/Drones)" on our web site www.caa.lk;
(http://www.caa.lk/images/stories/pdf/implementing_standards/sn053.pdf)

Important

Please note that as per section 103 of the Civil Aviation Act no.14 of 2010, any person who fails to comply with this Regulation/Implementing Standard shall be guilty of an offence under this act and be liable to a fine or to imprisonment or both a fine and imprisonment as determined by a Court of Law.

2. If you are not certain about the procedure please go through this information pamphlet & other assistance through the web site or call us using contact information given in this pamphlet.
3. Appropriate Forms & Pamphlets are
 - CAA/AS/019 - Application for Registration of Pilotless Aircraft & Pilotless Aircraft Operators
 - CAA/AS/017 – Application for Operation of Pilotless Aircraft (Unmanned Aerial Vehicles/Unmanned Aircraft Systems/Remotely Piloted Aircraft/Drones)
 - CAA/AS/017 (i)- Pamphlet_ Procedure for Operation of Pilotless Aircraft (Unmanned Aerial Vehicles/Unmanned Aircraft Systems/Remotely Piloted Aircraft/Drones)
 - CAA/AS/018 - Mandatory Occurrence Reporting (MOR) Operation of Pilotless Aircraft
4. If you wish to operate Drones in Sri Lanka, the operator must have an approval from the Director General of Civil Aviation (DGCA). Such an application should reach DGCA's office in sufficient advance before commencement of the intended operation.

The minimum notice required to process an application is five (05) working days.

Application should be submitted with the supportive documents as stated in the application (CAA/AS/017).

Applications for such permits shall be submitted to :
Director General of Civil Aviation
Civil Aviation Authority of Sri Lanka
No 04, Hunupitiya Road
Colombo 02,

via Post, by hand, fax or e-mail.

Contact information for submission of application for approval & related matters;
Air Navigation Services Section - Civil Aviation Authority of Sri Lanka

Contact person:

- i. Aeronautical Information Services Officer
TP: +94 11 2358923
Fax: +94 11 2304641
Email: aiao1@caa.lk
- ii. Senior Civil Aviation Inspector –
Aeronautical Information Services
TP: +94 11 2358914
Fax: +94 11 2304641
Email: scaiais@caa.lk
- iii. Director- Air Navigation Services
TP: +94 11 2358910
Fax: +94 11 2304645
Email: hosans@caa.lk

Pamphlet on Drone Registration & Approval Process with Contact Details (Contd;)

5. Please note that approval of this Authority is issued on the payment of applicable fee, subsequent to the operator obtaining Security Clearance from the Office of the Chief of Defence Staff (OCDS), and approval(s) of any other Ministry, Authority, Department, Board, Agency or such Organization(s) depending on the relevance of the area, dates/times and/or nature of the intended operation.

The applicant have to obtain OCDS clearance directly.

Contact information for submission of request for OCDS clearance;

Office of the Chief of Defence Staff

Block No.5
BMICH
Buddhaloka Mawatha
Colombo 07

Telephone : +94 11 2674503
+94 11 2674506

Hot Line : +94 11 3075792

Micro Line: 55649

Fax: +94 11 2674507

Email: ocds@army.lk ; ocdsmail@gmail.com

Applicable Fee- Permission to Regular operations more than 30 days within the calendar year

- a. Evaluation an application for Issuance of Approval

Nominal code 82480 Income code 14-F (iii) a	Fee	25,000.00
	NBT	510.00
	VAT	3826.00
	Stamp	25.00
	<u>Total</u>	<u>29,361.00</u>

- b. Grant of Certificate/ Authorization -Initial Issue

Nominal code 82481 Income code 14-F (iii) b	Fee	2,500.00
	NBT	51.00
	VAT	383.15
	Stamp	250.15
	<u>Total</u>	<u>3,184.15</u>

**Permission to Regular operations more than 30 days within the calendar year
(Evaluation + Authorization)**

	29,361.00
	3184.15
Total	<u>32,545.15</u>

We need your support & collaboration to promote *LEGITIMATE* OPERATIONS OF DRONES IN SRI LANKA

- CAASL envisages Continuous Collaboration with you all being the STAKEHOLDERS OF DRONE OPERATIONS INDUSTRY representing the following segments :
 - ❑ DRONE USERS
 - DRONE VENDORS/IMPORTERS
 - DRONE OPERATING EXPERTS
 - DRONE EQUIPMENT SPECIALISTS
 - DRONE JOURNALISTS
 - DRONE VIDEOGRAPHER
 - DRONE AGRO CHEMISTS
 - DRONE DENGUE PREVENTERS
 - DRONE MAPPER/SURVEYORS
 - DRONE DESIGNER/MANUFACTURER/RESEARCHERS
 - DRONE HOBBISTS
 - ❑ DRONE REGULATOR PARTIES
 - MOD/OCDS/SLAF
 - POLICE
 - ARCHEOLOGICAL DEPT, WILDLIFE, TOURISM, CULTURAL TRIANGLE, IRRIGATION, ROWER & ENERGY, ETC;
 - INSURANCE



Public Awareness Forum/Seminars on Drone Operations:

- **CONDUCT SEMINAR for All Users of DRONES**

- Participants are initially to be chosen from those who have obtained Approvals from CAASL upto now
- Presenters/Resource Persons to be chosen to represent each Key aspect of Drone Operations & Approval process

- **ENCOURAGE & PARTICIPATE AS RESOURCE PERSONNEL AT SEMINARS ON DRONES conducted by others**

- CAASL offers to provide Resource Personnel to your Seminars on Drone Operations



A Brief Glance at

PUBLIC AWARENESS CAMPAIGN of CAASL

- Web Banner on our own CAASL Website & websites of AASL, MOD, Police, SLTPB etc;
- TV Crawlers
- Radio Brief Broadcasts & Talk Shows
- Newspaper Front Page Bullets
- Social Media Posts/Dedicated Drones Fan Page-Club
- Feature Articles in Newspapers/PR Campaign
- TV Timely News (*Kaaleena Puwath*) Program
- Radio Timely News Program
- TV sponsored Programme (*Eg; Title "Welcome to Drone World-Do it in the right Way/Legitimately"!*)
(*Weekly - 30 min*)
- **SEMINAR for All Users of DRONES**

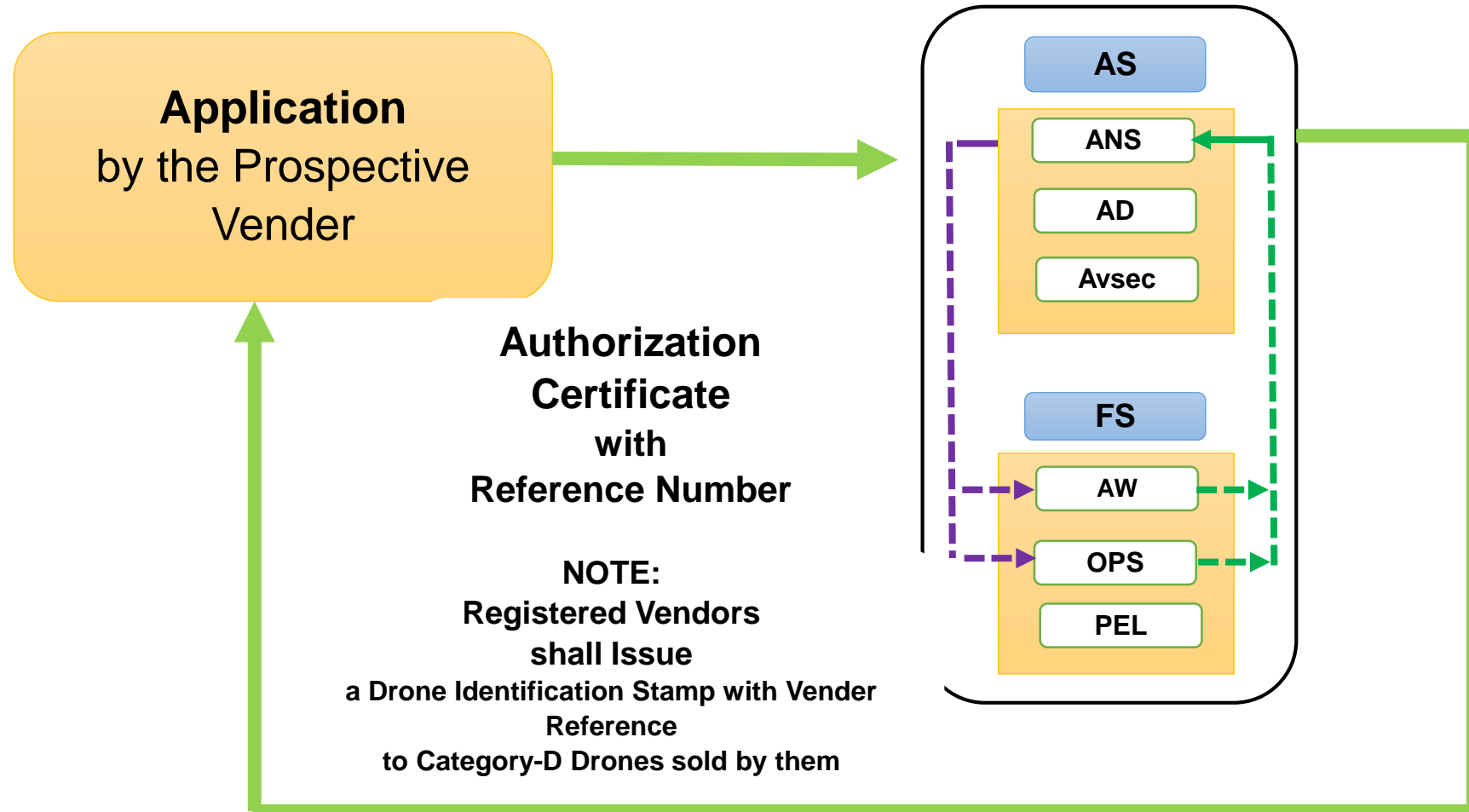


CAASL PROCESS IN BRIEF FOR DRONE REGISTRATION & GRANTING APPROVAL

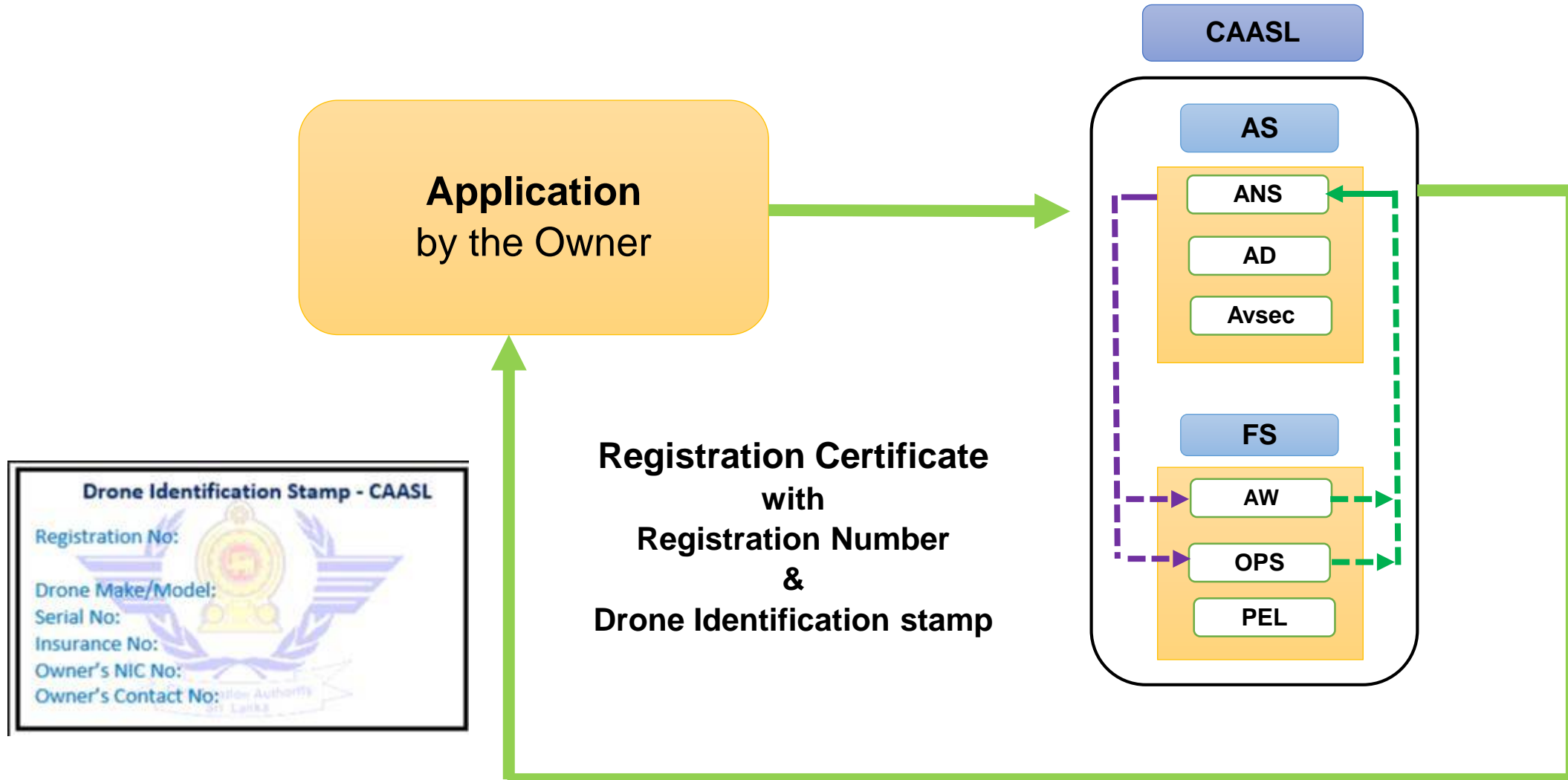
Registration & Approval Process Steps :

- 1) Registration of Drone Venders
- 2) Registration of Drones & Owners
- 3) Registration of Drone Operators
- 4) Approval for Drone Operations

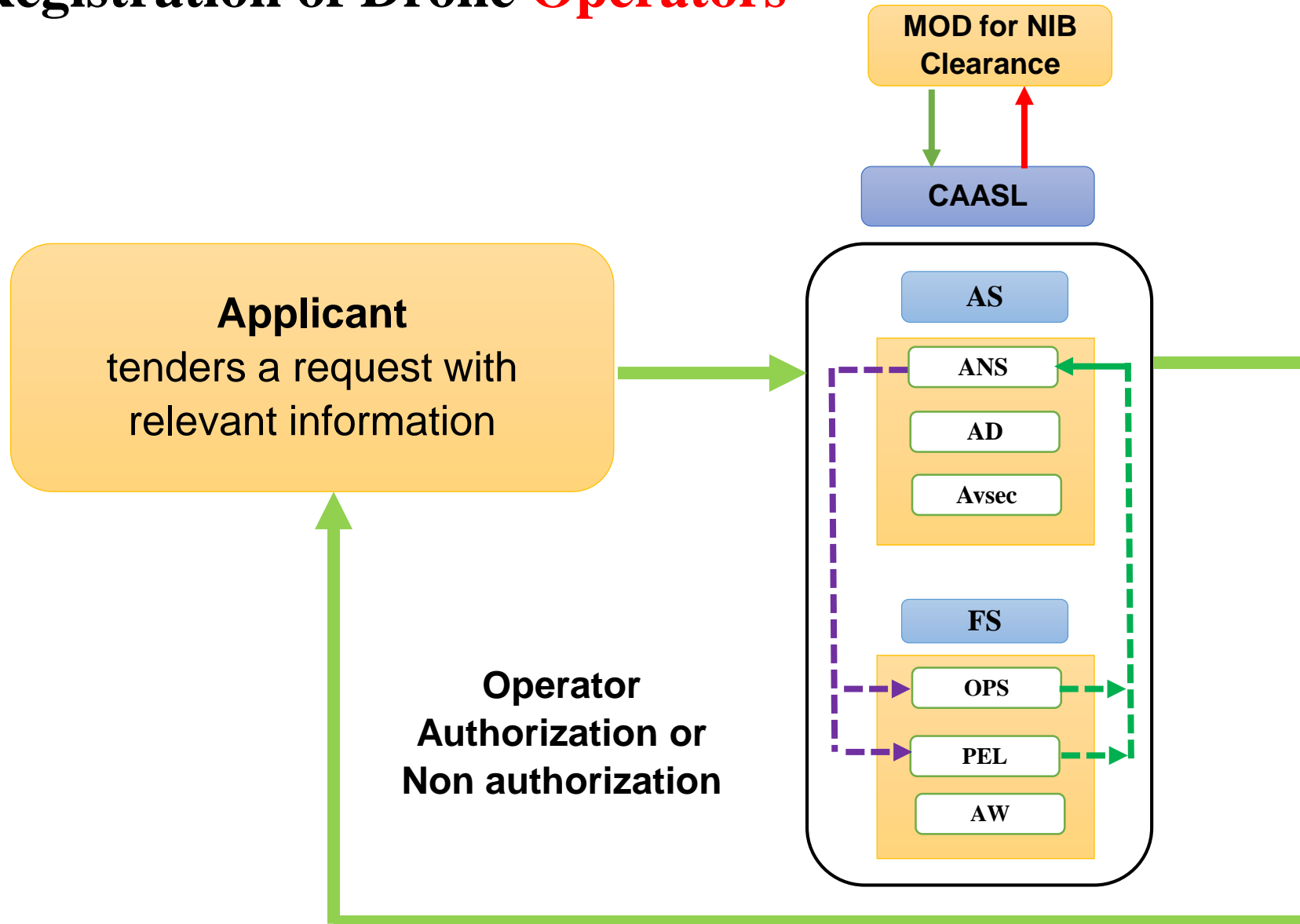
1) Authorization of Drone Venders



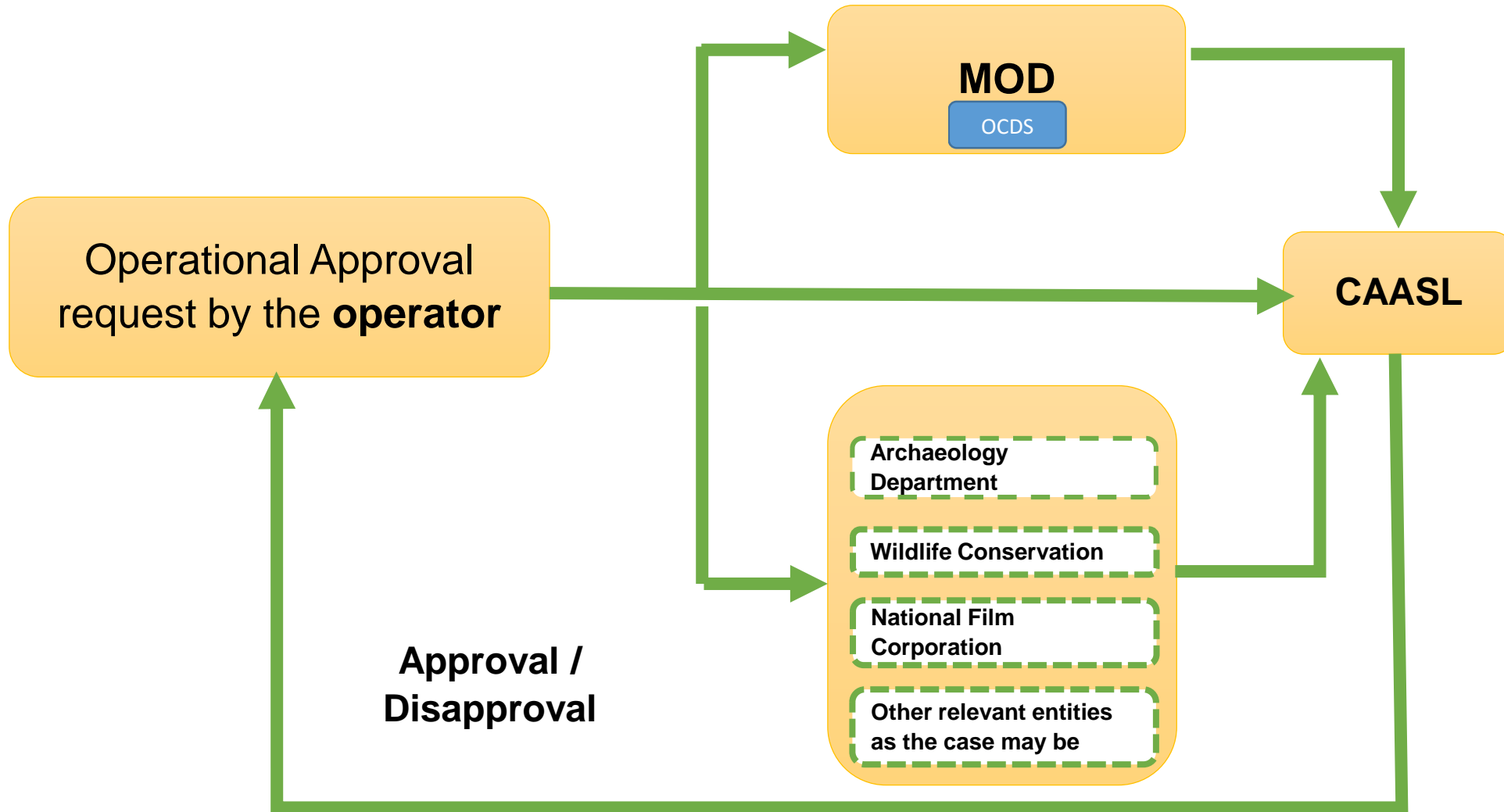
2) Registration of **Drones & Owners**



3) Registration of Drone **Operators**



4) Approval for Drone **Operations**



Sri Lanka may not need any
High Tech Solutions

curtail illegal operation of Drones ,
as Our Operators are Disciplined !

SOLUTIONS IN THE MARKET FOR ANTI-DRONES

- **Trained eagles to snatch camera drones (animal rights violated)**
- **Heavy-lifted drones with a net to catch intrusive drones (smaller drones actually fly faster than heavy-lifted ones)**
- **Anti-drone bazooka – compressed-gas gun with net + parachute designed to physically stop drones hovering around (Height-limited; easily to miss-out when targets move fast)**
- **Firearms – physically damage civilian property**
- **One of a kind – SKYNET technology (patented)**



Open for
'DISCUSSION'
Now !



Thank You

