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RESTRICTION OF DRONE OPERATIONS

1. PURPOSE

This Advisory Circular provides guidance to Drone/Unmanned Aircraft (UA) Operators on method acceptable to the Department of Civil Aviation – DCA Myanmar for showing compliance with the requirements for control of operation at Aerodromes, Danger, Prohibited and Restricted areas. Before issuing the Guidance for Unmanned Aircraft Operations as a procedure, this AC shall apply to persons who want to, or are operating the Drone/Unmanned Aircraft (UA).

2. REFERENCES

Applicable Standards and Guidance Material for control of operation at aerodromes and restricted area in compliance with the provisions of the latest editions of the following documents:-

- (i) ICAO Circular 328-AN/190
- (ii) ICAO Doc.10019-AN/507
- (iii) DCA Myanmar AIP ENR 5.1 Prohibited, Restricted and Danger Areas

3. INFORMATION

The area in which a potential hazard to aircraft operations may exist and all areas over which the operation of any aircraft may, for one reason or another be restricted either temporarily or permanently, are classified in DCA Myanmar AIP ENR 5.1 ;

- (i) **DANGER AREA** within which activities dangerous to the flight of aircraft may exist at specified time. This term is used only when the potential danger to aircraft has not led to the designation of the area as restricted or prohibited.
- (ii) **PROHIBITED AREA** above the land areas or territorial waters of a State, within which the flight of Drone/Unmanned Aircraft (UA) is prohibited.
- (iii) **RESTRICTED AREA** above the areas or territorial waters of a State, within which the flight of Drone/Unmanned Aircraft (UA) is restricted in accordance with certain specified conditions. Similarly, prohibition of flight unless special permission has been obtained, leads to the designation of a restricted area.

4. SAFETY RESPONSIBILITIES

The operator remains responsible to ensure that the Drone/Unmanned Aircraft (UA) is operated in a safe manner and does not endanger the safety of any person, aircraft or property and strictly follows the Operating Restrictions:

- i) do not operate *within 5 miles* of any airport/airstrip, helipad and or landing pad.
- ii) do not operate at Aerodromes, Danger, Prohibited and Restricted areas described in DCA Myanmar AIP ENR 5.1.(see Appendix 1 of this AC)
- iii) do not operate over an open air assembly of people without prior permission from Local Authority.
- iv) do not operate over or near a private or public property without prior permission from the owner.
- v) do not operate in a reckless and unsafe manner to endanger persons and or property.
- vi) do not operate at nights or in low visibility conditions.
- vii) do not drop or tow any object during flight.
- viii) keep the aircraft within visual line of sight at all times and
- ix) fly clear of obstructions.

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5. PERMISSION FROM DCA

The DCA further advised that prior to commencing operation, all operators in this regard "shall apply to the DCA in writing for approval, through related Ministry providing all details of the intended operations and area of operations together with the permission of relevant Department or Local Authorities. DCA will decide case by case basis and must not commence operation, unless written permission is obtained from the DCA.



Director General
Department of Civil Aviation

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ENR 5 Navigation Warnings

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS

1 INTRODUCTION

All airspace in which a potential hazard to aircraft operations may exist and all areas over which the operation of civil aircraft may, for one reason or another be restricted either temporarily or permanently, are classified according to the following three types of areas as defined by ICAO.

1.1 DANGER AREA

1.1.1 An airspace of defined dimensions within which activities dangerous to the flight of aircraft may exist at specified time. This term is used only when the potential danger to aircraft has not led to the designation of the airspace as restricted or prohibited. The effect of the creation of the danger area is to caution operators or pilots of aircraft that it is necessary for them to assess the dangers in relation to their responsibility for the safety of their aircraft.

1.2 PROHIBITED AREA

1.2.1 An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is prohibited. This term is used only when the flight of civil aircraft within the designated airspace is not permitted at any time under any circumstances.

1.3 RESTRICTED AREA

1.3.1 An airspace of defined dimensions, above the areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions. This term is used whenever the flight of civil aircraft within the designated airspace is not absolutely prohibited but may be made only if specified conditions are complied with. Thus; prohibition of flight except at certain specified times leads to the designation of the airspace a "restricted area" as would prohibition except in certain meteorological conditions. Similarly, prohibition of flight unless special permission has been obtained, leads to the designation of a restricted area. However, conditions of flight imposed as a result of application of rules of the air or air traffic service practices or procedures (for example, compliance with minimum safe heights or with rules stemming from the establishment of controlled airspace) do not constitute conditions calling for designation as a restricted area.

1.3.2 Each area is numbered and a single series of numbers is used for all areas, regardless of type, to ensure that a number is never duplicated. Each area is as small as practicable, and contained within simple geometrical limits such as a circle, square, etc.,.

1.3.3 The type of area involved is indicated by the letter "P" for Prohibited, "R" for Restricted and "D" for Danger, preceded by the nationality letter "VY". For example, areas are assigned numbers and letters in the following manner - VYP1, VYD2, VYD3, VYR4, VYD6, etc.

1.3.4 Each area is described in the tabulation found at follow which indicates its lateral and vertical limits, the type of restriction or hazard involved, the times at which it applies and other pertinent information.

2 Prohibited areas

Identification, name		Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
Lateral limits	Vertical limits	
1	2	3
VYP31 PERLIAMENT AND PRESEDENTIAL HOUSE AREA		Active: Permanent
The area bounded by straight lines joining 194713.4N 0960527.4E 194713.4N 0960726.1E 194540.5N 0960726.1E 194540.5N 0960527.4E 194713.4N 0960527.4E		
VYP33 MINISTRY OF DEFENCE		Active: Permanent
The area within the sector bearings 010° and 035° true and radius of 10NM and 20NM centred on Naypyitaw ARP 193724.78N0961203.60E		

Identification, name Lateral limits		Vertical limits	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3	
VYP5 YANGON CITY The area contained by straight lines joining 164920.0N 0960709.0E 164923.0N 0961105.0E 164641.0N 0961107.0E 164638.0N 0960711.0E 164920.0N 0960709.0E		← FL 240 STD GND	Active: Permanent

3 Restricted areas

Identification, name and lateral limits Lateral limits		Vertical limits	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3	
VYR11 HMAWBY The controlled airspace within the sector bearings 260° true and 300° true and radius of 5NM and 40NM centred on Hmawby Airport 170700N 0960400E. 170612.4N 0955851.0E 170035.0N 0952248.5E 172733.9N 0952807.4E 170934.5N 0955931.4E		3000 FT AMSL GND	Active: Permanent, MAF low flying training area, H24
VYR12 HMAWBY The controlled airspace within the sector bearings 260° true and 300° true and radius of 40 NM and 60 NM centred on Hmawby Airport; and controlled airspace within the sector bearings 300° true and 010° true, and radii of 5NM and 60 NM centred on Hmawby airport. 170700N 0960400E 170612.4N 0955851.0E 165719.2N 0950213.4E 180605.0N 0961555.8E 171155.5N 0960459.2E		6000 FT AMSL GND	Active: Permanent, MAF flying training area, H24
VYR13 SHANTE The airspace within the sector bearings 000° to 180° true and 270° to 360° true and radius of 30 NM centred on Shante airport 205800N0955500E. 205800.0N 0955500.0E 205800.4N 0955434.1E 205829.9N 0952257.9E 202755.0N 0955425.5E 205800.0N 0955500.0E		3000 FT AMSL GND	Active: Permanent, MAF low flying training area, H24
VYR14 SHANTE The airspace within the sector bearings 180° to 270° true and radius 30 NM centred on Shante Airport. 205800.0N 0955500.0E 202755.0N 0955425.5E 205829.9N 0952257.9E 205800.4N 0955434.1E 205800.0N 0955500.0E		3000 FT AMSL GND	Active: Permanent, MAF Helicopter training area, H24
VYR15 SHANTE The airspace area bounded by 192004.0N 0943147.9E 213503.3N 0943147.8E 213503.4N 0952147.4E 210903.5N 0952147.4E 210903.6N 0955947.2E 192004.1N 0955947.3E 192004.0N 0943147.9E		FL 396 STD 3000 FT AMSL	Active: Permanent, MAF subsonic flying training area, H24
VYR16 SHANTE The airspace area bounded by 192004.0N 0952147.6E 210903.5N 0952147.4E 210903.6N 0955947.2E 192004.1N 0955947.3E 192004.0N 0952147.6E		FL 460 STD FL 330 STD	Active: Permanent, MAF supersonic flying training area, H24
VYR17 NAMPONG The airspace with 30NM radius centred on Nampong aerodrome 2521N09717E.		FL 100 STD GND	Active: Permanent, MAF flying training area, By NOTAM

Identification, name and lateral limits		Vertical limits	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
Lateral limits			
1	2	3	
VYR18 TAUNGOO The controlled airspace within the sector between 210° true and 330° true from a radius of 20 NM to a radius of 50 NM centred on Taungoo aerodrome 190152.61N0962404.37E 184441.9N 0961311.9E 184417.1N 0961256.2E 181854.1N 0955657.6E 194545.4N 0955830.1E 192007.2N 0961328.1E 191946.6N 0961340.2E 191925.9N 0961352.2E		FL 240 STD 7000 FT STD	Active: Permanent, MAF flying training area
VYR19 TAUNGOO The controlled airspace within the sector between 030° true and 150° true from a radius of 20 NM to a radius of 50 NM centred on Taungoo aerodrome 190152.61N0962404.37E 191902.3N 0963459.3E 194444.7N 0965126.4E 181758.2N 0964926.6E 184419.0N 0963414.6E 191841.8N 0963533.7E 191902.3N 0963459.3E		FL 240 STD 7000 FT AMSL	Active: Permanent, MAF flying training area
VYR20MYEIK Sector 1: The controlled airspace within the sector between 000° true and 045° true from a radius of 30 NM centred on Myeik ARP 122624.34N0983715.99E. Sector 2: The controlled airspace within the sector between 045° true and 090° true from a radius of 30 NM centred on Myeik ARP 122624.34N0983715.99E. Sector 3: The controlled airspace within the sector between 090° true and 135° true from a radius of 30 NM centred on Myeik ARP 122624.34N0983715.99E. Sector 4: The controlled airspace within the sector between 135° true and 180° true from a radius of 30 NM centred on Myeik ARP 122624.34N0983715.99E. Sector 5: The controlled airspace within the sector between 180° true and 225° true from a radius of 30 NM centred on Myeik ARP 122624.34N0983715.99E. Sector 6: The controlled airspace within the sector between 225° true and 270° true from a radius of 30 NM centred on Myeik ARP 122624.34N0983715.99E. Sector 7: The controlled airspace within the sector between 270° true and 315° true from a radius of 30 NM centred on Myeik ARP 122624.34N0983715.99E. Sector 8: The controlled airspace within the sector between 315° true and 360° true from a radius of 30 NM centred on Myeik ARP 122624.34N0983715.99E.		FL 80 5000 FT FL 80 5000 FT FL 80 5000 FT FL 80 5000 FT FL 100 5000 FT FL 100 5000 FT Non-Active	Active: Permanent, MAF flying training area
VYR26 MAUBIN An airspace of defined dimension between bearings 240° true and 265° true and arcs between 30NM and 50NM from Mingaladon ARP 165426.16N 0960759.66E. 163946.2N 0954042.5E 162957.2N 0952233.2E 165044.9N 0951601.6E 165215.0N 0953648.8E		FL 160 STD 8000 FT AMSL	Active: Permanent, MAF flying training area, By NOTAM
VYR27 YANDON An airspace of defined dimension between bearings 270° true and 295° true and arcs between 30NM and 50NM from Mingaladon ARP 165426.16N 0960759.66E. 165452.5N 0953643.8E 165507.4N 0951552.8E 171616.6N 0952101.8E 170733.5N 0953950.4E		FL 80 STD 6000 FT AMSL	Active: Permanent, MAF flying training area, By NOTAM

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Identification, name and lateral limits		Vertical limits	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
Lateral limits			
1	2	3	
VYR28A DANUBYU An airspace of defined dimension between bearings 300° true and 320° true and arcs between 30NM and 50NM from Mingaladon ARP 165426.16N0960759.66E. 170952.3N 0954108.1E 172008.1N 0952311.1E 173320.2N 0953502.1E 171747.0N 0954814.7E		FL 160 STD 7000 FT AMSL	Active: Permanent, MAF flying training area, By NOTAM
VYR28B HINTHADA An airspace of defined dimension between bearings 300° true and 320° true and arcs between 50NM and 70NM from Mingaladon ARP 165426.16N 0960759.66E. 172008.1N 0952311.1E 173022.5N 0950511.9E 174852.8N 0952147.2E 173320.2N 0953502.1E		FL 180 STD 8000 FT AMSL	Active: Permanent, MAF flying training area, By NOTAM
VYR29PATHEIN EAST SECTORS			
Sector 1: An airspace of defined dimension between bearings 000° true and 045° true and arcs between 10NM and 30NM from PTN VOR/DME 164831.28N 0944610.38E.	FL 130 GND	Active: GND to 5000 FT, MAA flying training area Active: 6000 FT to FL130, Permanent, MAF flying training area	
Sector 2: An airspace of defined dimension between bearings 045° true and 090° true and arcs between 10NM and 30NM from PTN VOR/DME 164831.28N 0944610.38E.	FL 90 GND	Active: GND to 5000 FT, MAA flying training area Active: 6000 FT to FL090, Permanent, MAF flying training area	
Sector 3: An airspace of defined dimension between bearings 090° true and 135° true and arcs between 10NM and 30NM from PTN VOR/DME 164831.28N 0944610.38E.	FL 130 6000 FT	Active: Permanent, MAF flying training area	
Sector 4: An airspace of defined dimension between bearings 135° true and 180° true and arcs between 10NM and 30NM from PTN VOR/DME 164831.28N 0944610.38E.	FL 130 6000 FT	Active: Permanent, MAF flying training area	
VYR30 PATHEIN WEST SECTORS			Active: Permanent, MAF flying training area
Sector 5: An airspace of defined dimension between bearings 180° true and 225° true and arcs between 10NM and 50NM from PTN VOR/DME 164831.28N 0944610.38E. 163828.9N 0944604.8E 161824.0N 0944553.9E 155819.1N 0944543.2E 161316.5N 0940906.2E 164129.0N 0943844.5E	FL 220 STD 6000 FT AMSL		
Sector 6: An airspace of defined dimension between bearings 225° true and 270° true and arcs between 10NM and 50NM from PTN VOR/DME 164831.28N 0944610.38E. 164129.0N 0943844.5E 161316.5N 0940906.2E 164851.6N 0935402.6E 164836.4N 0943544.9E	FL 140 STD 6000 FT AMSL		
Sector 7: An airspace of defined dimension between bearings 270° true and 315° true and arcs between 10NM and 50NM from PTN VOR/DME 164831.28N 0944610.38E. 164836.4N 0943544.9E 164851.6N 0935402.6E 172417.4N 0940932.0E 165540.9N 0943851.8E	FL 80 STD GND		
Sector 8: An airspace of defined dimension between bearings 315° true and 360° true and arcs between 10NM and 50NM from PTN VOR/DME 164831.28N 0944610.38E. 165540.9N 0943851.8E 172417.4N 0940932.0E 173843.2N 0944639.1E 171838.5N 0944627.4E 165833.7N 0944616.0E	FL 220 STD 6000 FT AMSL		
VYR32 NAYPYITAW VVIP HOUSING COMPOUND The area bounded by straight lines joining 194550.3N 0960807.2E 194550.3N 0960832.1E 194518.0N 0960832.1E 194518.0N 0960807.2E 194550.3N 0960807.2E		2000 FT AMSL GND	Active: Permanent

Identification, name and lateral limits		Vertical limits	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
Lateral limits			
1	2	3	
VYR34 NAYPYITAW EAST SECTORS			
Sector 1: An airspace of defined dimension between bearings 045° true and 090° true and arcs between 10 NM and 20NM from NPT VOR/DME 193735.6N 0961144.1E	5000 FT AMSL GND		Active: Permanent, MAF helicopter training area
Sector 2: An airspace of defined dimension between bearings 090° true and 135° true and arcs between 10 NM and 20NM from NPT VOR/DME 193735.6N 0961144.1E.	5000 FT AMSL GND		
VYR35 NAYPYITAW WEST SECTORS			
Sector 1: An airspace of defined dimension between bearings 225° true and 270° true and arcs between 10 NM and 20NM from NPT VOR/DME 193735.6N 0961144.1E.	6000 FT AMSL GND		Active: Permanent, MAF helicopter training area
Sector 2: An airspace of defined dimension between bearings 270° true and 315° true and arcs between 10 NM and 20NM from NPT VOR/DME 193735.6N 0961144.1E.	6000 FT AMSL GND		
VYR36 NAYPYITAW EAST SECTORS			
An airspace of defined dimension between bearings 060° true and 110° true and arcs between 20 NM and 60NM from NPT VOR/DME 193735.6N 0961144.1E.	FL 100 STD 6000 FT AMSL		Active: Permanent, MAF flying training area
VYR37 NAYPYITAW WEST SECTORS			
An area contained by straight lines joining 201000.0N 0951000.0E 201000.0N 0960000.0E 191000.0N 0960000.0E 191000.0N 0951000.0E 201000.0N 0951000.0E	FL 100 STD 6000 FT AMSL		Active: Permanent, MAF flying training area
VYR38 MANDALAY PALACE AREA			
The area bounded by straight lines joining 220013.3N 0960509.2E 220008.1N 0960627.9E 215859.7N 0960504.5E 215855.4N 0960623.4E 220013.3N 0960509.2E	4000 FT AMSL GND		Active: Permanent
VYR8 PYAY			
The area bounded by the coordinates 184200.0N 0951200.0E 185100.0N 0951200.0E 185100.0N 0950800.0E 184200.0N 0950800.0E 184200.0N 0951200.0E	FL 100 STD GND		Active: Permanent, Flights from south and south-east to approach from east. Flights from west and south-west route via Shwedaung 184200N0951300E

4 Danger areas

Identification, name and lateral limits		Vertical limits	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
Lateral limits			
1	2	3	
VYD1 NAVAL BASE			
The elliptical area within the radius of 5 miles around the points: 161300N0960900E and 155500N 0953800E respectively. 155922.6N 0953527.8E 161722.9N 0960628.4E 160837.1N 0961131.5E 155037.4N 0954032.1E	FL 300 STD 1500 FT AMSL		Active: Permanent, Air to Air firing, Effective dates and times will be notified in advance through NOTAM and Mingaladon Approach control as necessary.
VYD10 DELTA REGION			
The controlled airspace within a sector between 180° true and 260° true from a radius of 20 NM to a radius of 120 NM centred on Mingaladon Airport. 163422.6N 0960740.0E 145404.0N 0960608.2E 163446.7N 0940439.0E 165114.9N 0954725.1E	FL 240 STD 8000 FT AMSL		Active: Permanent, Airforce and Army training area, Times notified by NOTAM

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Identification, name and lateral limits		Vertical limits	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
Lateral limits			
1		2	3
VYD21 TAUNGYO FIRING RANGE The area bounded by the coordinates 202000.0N 0960400.0E 202000.0N 0960800.0E 195200.0N 0960800.0E 195200.0N 0960400.0E		FL 150 GND	Active: Permanent, Date and Time to be notified by NOTAM, As for diversionary route temporarily established, aircraft bound for VYML and VYMD are to track as VYYY PCD HGU/VOR and BGO/VOR then maintain AWY V1 till crossing 2000N and set course.
VYD23A COMBAT TRAINING An airspace bounded by the coordinates 163000.0N 0955000.0E 163000.0N 0962000.0E 161000.0N 0962000.0E 161000.0N 0955000.0E		FL 240 8000 FT	Active: Permanent, Airforce and Army training area, Times notified by NOTAM
VYD23B COMBAT TRAINING An airspace bounded by the coordinates 162400.0N 0955400.0E 162400.0N 0960200.0E 161700.0N 0960200.0E 161700.0N 0955400.0E		FL 240 6000 FT	Active: Permanent, Airforce and Army training area, Times notified by NOTAM
VYD24 KUNGYANGONE An airspace of defined dimension between bearings 180° true and 205° true and an arc of 30NM from Mingaladon ARP with a line joining coordinates 1619N9607E and 1606N9543E. 162420.8N 0960730.3E 161919.8N 0960725.5E 160544.4N 0954333.4E 162721.3N 0955422.2E		FL 240 STD 8000 FT AMSL	Active: Permanent, Airforce and Army training area, Times notified by NOTAM
VYD25 PYAPON An airspace of defined dimension between bearings 210° true and 235° true and an arc of 30NM and 70NM from Mingaladon ARP. 162836.0N 0955158.5E 155406.2N 0953044.1E 161454.2N 0950746.9E 163732.2N 0954208.5E		FL 240 STD 8000 FT AMSL	Active: Permanent, Airforce and Army training area, Times notified by NOTAM
←	VYD9 SHWEPYI FIRING RANGE The area bounded by a line of circle radius 5 NM Circle: radius 5 NM, centred at 171100.0N 0960100.0E		Active: Permanent, Air to Ground firing, Heights and time of activation notified by NOTAM.

5 Prohibited, restricted and danger areas Charts

- PROHIBITED, RESTRICTED, AND DANGER AREA VYR20 ENR 5.1-VYR20
- PROHIBITED, RESTRICTED, AND DANGER AREA VYR8, VYR13, VYR14, VYR15, VYR16, VYR18, VYR19 ENR 5.1-SHANTE
- PROHIBITED, RESTRICTED, AND DANGER AREA VYP5, VYR11, VYR12, VYD1, VYD9, VYD10 ENR 5.1-DELTA
- General Training Area ENR 5.1-TRNG

size
model
Frequency
output