

**LROP AD 2.1. AERODROME LOCATION INDICATOR AND NAME**

**LROP – OTOPENI MILITAR / BUCUREȘTI**

**LROP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

*For civilian site, see AIP Romania LROP AD 2.2*

1.	<i>ARP coordinates and site at ad (DDMM.MM)</i>	N/A
2.	<i>Direction and distance from city</i>	16.5 km North from București
3.	<i>Elevation /Reference temperature</i>	N/A
4.	<i>Geoid undulation at AD ELEV PSN</i>	N/A
5.	<i>MAG VAR/ Annual rate of change</i>	5°E (2010) / 2.1'E
6.	<i>AD Administration, address, telephone, telex, AFS</i>	BAZA 90 TRANSPORT AERIAN Str. Zborului, nr.1 Otopeni, jud. ILFOV. Tel. +40 21 3505517 Mobil: 0720072792 Fax. +40 21 3511862 AFS: LROPYWYX
7.	<i>Types of traffic permitted (IFR/VFR)</i>	VFR IFR – GAT, civil only, according to ROMANIA AIP.
8.	<i>Remarks</i>	Nil

**LROP AD 2.3 OPERATIONAL HOURS**

*For civilian site, see AIP Romania LROP AD 2.3*

1	<i>AD Administration</i>	Mon - Fri: 07:00 – 15:00 LT, Sat - Sun: on request
2	<i>Customs and immigration</i>	On request
3	<i>Health and sanitation</i>	During military flight activity, Mon - Fri: 07:00 – 15:00 LT (base program), Sat - Sun: on request
4	<i>AIS Briefing Office</i>	H24 – MIL ABOC
5	<i>ATS Reporting Office(ARO)</i>	H24 – MILARO
6	<i>MET Briefing Office</i>	H24 – MILMET
7	<i>ATS</i>	H24 – MILATS
8	<i>Fuelling</i>	H24 – via civilian contractors from AIHCB
9	<i>Handling</i>	H24
10	<i>Security</i>	H24
11	<i>De-icing</i>	H24, via civilian contractors from AIHCB.
12	<i>Remarks</i>	Nil

**LROP AD 2.4 HANDLING SERVICES AND FACILITIES**

*For civilian site, see AIP Romania LROP AD 2.4*

1.	<i>Cargo-handling facilities</i>	2 forklift; 3 towing trucks - 1 towing truck for C130, 2 towing trucks for helicopters.
2.	<i>Fuel/Oil types</i>	Kerosene: JET A1 (NATO CODE F34). Oil: AEROSHELL
3.	<i>Fuelling facilities capacity</i>	1 refueling pump/ 10 m <sup>3</sup> ; 4 refueling trucks, 20 m <sup>3</sup> / hour each
4.	<i>De-icing facilities</i>	1 de-icing unit wity type II liquid.
5.	<i>Hangar space for visiting aircraft</i>	On request / subject of availability Only for small aircrafts or hello's.
6.	<i>Repair facilities for visiting aircraft</i>	Minor works – on request.
7.	<i>Remarks</i>	Nil

**LROP AD 2.5 PASSANGER FACILITIES**

*For civilian site, see AIP Romania LROP AD 2.5*

1.	<i>Hotels</i>	Hotels in town.
2.	<i>Restaurants</i>	N/A
3.	<i>Transportation</i>	TAXI only, military cars on request / subject of availability
4.	<i>Medical facilities</i>	Medical Point.
5.	<i>Bank and Post Office</i>	Post Office in Otopeni and Bucharest. GARANTIBANK ATM in AirBase (main gate)
6.	<i>Tourist Office</i>	In the city/LROP civil airport.
7.	<i>Remarks</i>	Nil

**LROP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

*For civilian site, see AIP Romania LROP AD 2.6*

1	<i>AD category for fire fighting</i>	CAT 5 ; H24
2	<i>Rescue equipment</i>	1 truck 1 fire truck with powder (5t) and nitrogen – 2x462 kg/min. 1 fire truck with foam and water – 6000 l/min. 1 crew consist of 4 firefighters
3	<i>Capability for removal of disabled aircraft</i>	1 crane (12.5t)
4	<i>Remarks</i>	Nil

**LROP AD 2.7 SEASONAL AVAILABILITY - CLEARING**

*For civilian site, see AIP Romania LROP AD 2.7*

1.	<i>Types of clearing equipment</i>	3 snow blower 3 snow removal trucks (with blade and brush)
2.	<i>Clearance priorities</i>	taxiways
3.	<i>Remarks</i>	Nil

**LROP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

*For civilian site, see AIP Romania LROP AD 2.8*

1	<i>Apron surface and strenght</i>	Surface: concrete Apron1 strenght: 76/R/D/W/T Apron2 strenght: 42/R/D/W/T Apron3 (helicopter parking platform) strenght: N/A HOT CARGO Apron: 42/R/D/W/T Other aprons strenght: 12t SIWL
2	<i>Taxiway width, surface and strenght</i>	Taxiway H (HOTEL) Width: 50m/20m Surface: concrete Strength: 70/R/D/W/T Taxiway F (FOXTROT) Width: 22.5m in 90 <sup>th</sup> AFB and 11m in AIHCB Surface: concrete Strength: 76/R/D/W/T Taxiway F1 (FOXTROT ONE) Width: 22.5m Surface: concrete Strength: 76/R/D/W/T Taxiway R (ROMEO) Width: 22.5m Surface: concrete PCN: 58/R/D/W/T Taxiway R1 (ROMEO ONE) Width: 47m/22.5m Surface: concrete PCN: 76/R/D/W/T Taxiway O 1 (OSCAR ONE) Width: 11m Surface: concrete Strength: N/A
3	<i>ACL location and elevation</i>	Nil
4	<i>INS checkpoints</i>	Nil
5	<i>Remarks</i>	Nil

**LROP AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

*For civilian site, see AIP Romania LROP AD 2.9*

1	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parching guidance system of aircraft stands</i>	Taxiing guidance lines on taxiways, to parking positions, parking positions are not numbered. All other stands parking guidance provided by marshallers.
2	<i>RWY and TWY markings</i>	MIL TWY: color yellow: centerline, holding point, sideline, taxi holding position, taxi guidance lines for parking stands.
3	<i>Stop bars</i>	Nil
4	<i>Remarks</i>	RWY: ICAO standard markings All other markings: non standard

**LROP AD 2.10 AERODROME OBSTACLES**

<i>In approach / TKOF areas</i>			<i>In circling area and at AD</i>		<i>Remarks</i>
<i>RWY/Area affected</i>	<i>Obstacle type Elevation Markings/LGT</i>	<i>Coordinates</i>	<i>Obstacle type Elevation Markings/LGT</i>	<i>Coordinates</i>	
<b>08R APCH 26L TKOF</b>	Radar 450ft LGTD	N 44 33.97 E 026 02.03	Antenna 498ft LGTD	N 44 37.96 E 026 04.63	
	Radar 420ft LGTD	N 44 33.67 E 026 04.37	Antenna 615ft LGTD	N 44 38.33 E 026 04.53	
	Mast 421ft -	N 44 34.06 E 026 04.72	Antenna 515ft LGTD	N 44 38.20 E 026 04.57	
<b>08L APCH 26R TKOF</b>	Tree 410ft -	N 44 34.49 E 026 04.28	Antenna 416ft LGTD	N 44 34.34 E 026 05.22	
	Tree 410ft -	N 44 34.43 E 026 04.28	Antenna 442ft LGTD	N 44 34.32 E 026 06.55	
	Tree 388ft -	N 44 34.67 E 026 04.59	Bridge 470ft LGTD	N 44 32.20 E 026 04.60	
	Building 345ft -	N 44 34.59 E 026 04.59	Hangar 364ft -	N 44 33.60 E 026 04.62	
	Mast 469ft LGTD	N 44 34.47 E 025 56.45	Pilar 307ft LGTD	N 44 33.82 E 026 05.47	HOT CARGO Platform
	Antenna 803ft -	N 44 34.28 E 025 55.95	Pilar 306ft LGTD	N 44 33.49 E 026 05.42	HOT CARGO Platform
	Building 343ft -	N 44 34.61 E 026 04.42	Pilar 306ft LGTD	N 44 33.75 E 026 05.37	HOT CARGO Platform
	Building 350ft -	N 44 34.61 E 026 04.34	Pilar 307ft LGTD	N 44 33.70 E 026 05.43	HOT CARGO Platform
	Building 357ft -	N 44 34.60 E 026 04.25	Pilar 307ft LGTD	N 44 33.70 E 026 05.48	HOT CARGO Platform
			Pilar 411ft LGTD	N 44 33.70 E 026 05.00	HEAVY Platform
			Pilar 410ft LGTD	N 44 33.68 E 026 04.88	HEAVY Platform
		Pilar 432ft LGTD	N 44 33.65 E 026 04.76	HEAVY Platform	
<b>26L/R APCH 08L/R TKOF</b>	Pilar 431ft -	N 44 35.10 E 026 10.35			

**LROP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

*For civilian site, see AIP Romania LROP AD 2.11*

1	<i>MET Office</i>	Military office
2	<i>Hours of service</i>	H24
3	<i>Office responsible for TAF preparation</i> <i>Periods of valability</i>	LROP (9HR, 24H); OTOPENI MIL. (9H)
4	<i>Type of forecasting</i> <i>Interval of issuance</i>	TREND H24
5	<i>Briefing / consultation provided</i>	MET AOC Service consultation, AWOS terminal VAISALA terminal, SIMIN computer, internet.
6	<i>Flight documentation</i> <i>Languages used</i>	Charts (met, ground synopticals, probables, radar), Flight and informative weather forecasts , MET warnings Romanian, English
7	<i>Supplementary equipment available for providing information</i>	KESTREL mobile station.
8	<i>Weather maps provided</i>	SWH, SWM.
9	<i>ATS units provided with information</i>	TWR LROP
10	<i>Additional equipment for providing information</i>	Tel. 0040 212041626, 0040 21350 5517 Fax. 004021 3511862
11	<i>ATS units suitable for information</i>	ABOC, MTWR (MGND)
12	<i>Remarks</i>	Nil

**LROP AD 2.12 RUNWAY PHISICAL CHARACTERISTICS**

*See AIP Romania LROP AD 2.12*

**LROP AD 2.13 DECLARED DISTANCES**

*See AIP Romania LROP AD 2.13*

**LROP AD 2.14 APPROACH AND RWY LIGHTING**

*See AIP Romania LROP AD 2.14*

**LROP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

*For civilian site, see AIP Romania LROP AD 2.15*

1	<i>ABN/IBN location, characteristics and hours of operation</i>	Nil
2	<i>LDI location and LGT</i> <i>Anemometer location and LGT</i>	Nil
3	<i>TWY edge and centre line lighting</i>	Military TWY's edge lights color blue, omnidirectional. TWY without guidance lights, centre line lights and taxiing lights;
4	<i>Secondary power supply/switch- over time</i>	Secondary power supply to all lighting on RWY's and TWY's (civilian site only), max. switch-over time 1sec. (provided by AIHCB) Secondary power supply to all lighting on military aerodrome, max. switch-over time 3 min. (provided by MIL).
5	<i>Holding position markings</i>	Standard illuminated panels and markings at holding position.
6	<i>Remarks</i>	Nil

**LROP AD 2.16 HELICOPTER LANDING AREA**  
*For civilian site, see AIP Romania LROP AD 2.16*

1	Coordinates TLOF or THR of FATO Geoid ondulation	44 33.77N 026 05.12E
2	TLOF and/or FATO elevation M/FT	92 m / 302 ft
3	TLOF and FATO area dimensions, surface, strength, marking	H: white circle, 3.5M diameter, concrete, white marking "H", 12t SIWL.
4	MAG and true BRG of TLOF	079/084 ; 259/264
5	MAG and true BRG of FATO	065/070 ; 264/269
6	Declared distance available	Nil
7	APP and FATO lighting	Nil
8	Remarks	Nil

**LROP AD 2.17 ATS AIRSPACE**

*See AIP Romania AD 2.17, AD 2.23 (additional information), ENR 5.2-1 (military exercise and training areas)*

1	Designations and lateral limits	LR (TRA) 4 44 33.83N / 026 05.20E 44 34.15N / 026 24.70E 44 30.35N / 025 56.58E 44 31.38N / 02545.97E 44 33.83N / 026 05.20E
2	Vertical limits	GND ÷ 1017 ft QNH (310M AMSL)
3	Airspace classification	Class C when LR (TRA) 4 is active
4	ATS units call sign Language(s)	ONIX military tower (MTWR), Romanian, English.
5	Transition altitude	N/A
6	Transition level	by ATC
7	Remarks	LR TRA4 – Active: by ATC. If LR (TRA) 4 is activated, military helicopters training activity goes up to 1017FT MSL (310M AMSL). The flights are coordinated between civil and military ATS UNITS. The heliport is located south of RWY 08R/26L. Flights operating on RWY 08R/26L are not affected.

**LROP AD 2.18 ATS COMMUNICATION FACILITIES**

*For civilian site, see AIP Romania LROP AD 2.18*

Designation	Call Sign	Frequency	Operational hours
ABOC	ONIX CONTROL	118.575 MHz	H24
	ONIX CONTROL (UHF)	343.575 MHz	H24
ABOC	ONIX APPROACH	120.175 MHz	O/R
	ONIX APPROACH (ALTN - UHF)	269.425 MHz	O/R
MTWR	ONIX TOWER	118.325 MHz	O/R
	ONIX TOWER (ALTN)	122.100 MHz	O/R
	ONIX TOWER (UHF)	248.225 MHz	O/R
	ONIX TOWER (ALTN - UHF)	266.000 MHz	O/R
MGND	ONIX GROUND	118.325 MHz	O/R
	ONIX GROUND (ALTN)	122.100 MHz	O/R
	ONIX GROUND (UHF)	242.650 MHz	O/R
	ONIX GROUND (ALTN - UHF)	278.300 MHz	O/R

**NOTE:** \* = Exempted 8.33 kHz State aircraft.

\*\* = At ATC instruction only. For ARR TFC below FL 065 and above 2000 FT AMSL.

## LROP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

*For civilian site, see AIP Romania LROP AD 2.19*

Type of aid	ID	Frequency	Site of transmitting antenna coordinates
NDB (MIL)	OME	323 KHz	44 33.55N 026 05.97E
NDB (MIL)	OMW	406 KHz	44 33.62N 026 04.55E

## LROP AD 2.20 LOCAL AERODROME REGULATIONS

*For civilian site, see AIP Romania LROP AD 2.20*

### 1. Airport regulations

Aircraft are permitted to taxi on the operational area under own engines power and/or towing by the special vehicles. Taxiing and towing shall be carried out according to the established taxi route along TWY centre lines.

Taxiing of aircraft from the runway to TWY HOTEL/FOXTROT/FOXTROT ONE/ROMEO/ROMEO ONE and from TWY HOTEL/FOXTROT/FOXTROT ONE/ROMEO ONE/ROMEO to the runway shall be carried out under own engines power.

Taxiing of aircraft from TWY HOTEL/FOXTROT/ROMEO ONE to the apron, parking of aircraft onto the stand and taxiing from the apron to TWY HOTEL/FOXTROT/ROMEO ONE shall be carried out by towing.

Military Ground Controller shall inform the flight crew about the restrictions along the taxi route. The responsibility for the observance of the rules of taxiing rests with the pilot-in-command (PIC).

Taxiing shall be carried out according with Military Ground controller's instruction. The speed of taxiing shall be selected by the pilot-in-command depending on TWY condition, presence of obstacles, aircraft mass, wind mode and visibility conditions. In all cases the speed of taxiing shall not exceed the speed established by the Aeroplane Flight Manual for the specified aircraft. The responsibility for the observance of taxiing rules rests with the pilot-in-command and for the safety of taxiing – a person guiding taxiing on the segment assigned to him.

On the aprons, aircraft are permitted to taxi only at the indispensable minimum engine speed.

When taxiing into aircraft stands, aircraft shall generally not stop in curves between the centerlines of apron taxiways or aircraft stand taxi lanes and the centerlines of aircraft stands so as to avoid the further appliance of break-away power.

While manoeuvring as described above, an aircraft inadvertently comes to a stop, prior to increasing engine power again to continue, the pilot shall notify Military Ground Control and wait for specified further instructions.

Aircraft parking on the military apron is performed according to the signals of the military marshaller on all military parking spots only.

Aircraft may leave nose-in positions, only by the aid of towing cars or using power back.

### 2. Standard taxi routes

For detailed information regarding standard taxi routes on Otopeni military aerodrome, see annex 7.

### 3. VFR points and routes

VFR flights entering LR TRA4, must obtain clearance from military ATCU and are cleared via declared VFR points only, according to AIP Romania AD 2.5-40 and ENR 4.4-7:

Name-code designator	Coordinates	ATS route or other route	Remarks
SONOB	44 31.38N 025 45.97E	Entry/exit point CTR Otopeni	
PETAV	44 34.15N 026 24.70E	Entry/exit point CTR Otopeni	

### 4. Parking area for small aircraft – just in case

Foreign aircrafts can be parked in the same line with own aircrafts on TWY HOTEL or TWY ROMEO ONE, depending on available free spots, site situation, weather conditions, hours of unit operation and size of aircraft.

Parking positions must be coordinated with MATC and are subject to marshaller signals.

### 5. Parking area for helicopters

Helicopters parking area on military apron is designated by coordination with MATC and is subject to marshaller signals.

### 6. Apron-taxiing during winter

The taxi guidelines may be not visible due to snow. A "Follow-me" vehicle is available on request by the flight crew via MGND.

### 7. Taxiing limitation

For take-off procedure, aircraft must taxi from parking positions according to military marshaller's instructions, on military TWY's HOTEL, FOXTROT, FOXTROT ONE, ROMEO ONE and ROMEO. Aircraft must taxi on designated TWY centerline and must follow MGND (military site) and OTOPENI GND (civilian site) instructions.

**NOTE: Due to ILS 08R ground equipment location, all aircrafts using RWY 08R via TWY ROMEO must stop before holding point position just after intersection TWY R1 with R (abeam airport service road) and wait for clearance from OTOPENI TWR.**

The pilot-in-command must taxi on military TWY at reduced speed, strictly along the centre line with increased caution.

Taxi speed is according to aircraft flight manual (AFM).

After landing on RWY, aircraft must vacate as soon as possible RWY in use.

### 8. Additional information

The ornithological situation in the vicinity of the aerodrome is conditioned by seasonal and daily bird migration. The majority of birds migrate at heights from (20-50) m to (300) m above ground level. Separate kinds of birds can fly at heights up to 1500-3000 m.

Morning, evening and seasonal migrations of birds present the greatest hazard. In dark hours the birds usually create large dispersed concentrations that increases the hazard of collision with them.

Pilots are recommended to switch on landing lights during take-off, landing and also in climb and descent procedures.

### 9. Helicopter traffic limitations

For helicopters, ground taxi procedure from parking spots to take-off point is made only on TWY HOTEL, FOXTROT, FOXTROT ONE, ROMEO and ROMEO ONE.

For helicopters, military TWY O 1 (OSCAR ONE), is used for towing procedure only.

No ground taxi is allowed on military TWY O 1 (OSCAR ONE).

For helicopters, air taxi procedure from parking spots to take-off point is made only with approval from MGND and only at a safe altitude/height.

Prior to enter on military apron, helicopters must obtain clearance from MGND.



It is forbidden for helicopters to make air taxi and overfly any ground parked aircraft/helicopter.

**10. Removal of disabled aircraft from runways**

- NIL -

**LROP AD 2.21 NOISE ABATEMENT PROCEDURES**

*For civilian site, see AIP Romania LROP AD 2.21*

**LROP AD 2.22 FLIGHT PROCEDURES**

*For civilian site, see AIP Romania AD 2.22*

**FOR INFORMATION ABOUT ARRIVAL, APPROACH, MISSED APPROACH AND DEPARTURE PROCEDURES FOR HENRI COANDĂ AIRPORT, SEE ROMANIA AIP.**

**LROP AD 2.23 ADDITIONAL INFORMATION**

If LR (TRA) 4 is activated, military helicopters training activity goes up to 1017FT MSL (310M AMSL). The flights are coordinated between civil and military ATS UNITS.

The heliport is located south of RWY 08R/26L.

Flights operating on RWY 08R/26L are not affected.