

# KURDISTAN REGIONAL GOVERNMENT



## **SULAYMANIYAH INTERNATIONAL AIRPORT**

### **MATS CHAPTER 2**

#### **Sulaymaniyah International Airport**

#### **General Descriptions**

( First Edition )

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## CHAPTER 2

# Sulaymaniyah International Airport/General Descriptions

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### 2.1 Airport Locations

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Sulaymaniyah International Airport is located North West of Sulaymaniyah City at a distance of approximately 15 km from city center.

Its Coordinates are :

N 35° 33'.38.88"      E 045° 18'.52.98" (Located at the center of the runway)

### 2.2 Airport Area

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The total Area of the Airport is approximately 13.5 square kilometers.

### 2.3 Airport Capacity

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The total capacity of the airport terminals is 1.500.000 passengers per year, with high possibility to be increased to 3.000.000 passengers.

### 2.4 Airport Terminals and Buildings

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#### 2.4.1 Departure Terminal

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- a. Total Area : 1000 square meters
- b. Includes the following :
  1. Waiting Hall
  2. Information Desk
  3. X – Ray Machines
  4. Immigration Desks and Offices
  5. Bank
  6. Check - In Desks
  7. Baggage Belts
  8. Cafe
  9. Shops

**2.4.2 Arrival Terminal**

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- a. Total Area : 800 square meters.
- b. Includes the Following :
  1. Waiting Hall.
  2. Immigration Desks and Offices.
  3. Bank and Post Office.
  4. Customs.
  5. Shops.
  6. Tourist Office.

**2.4.3 VIP Terminal**

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- a. Total Area : 250 square meters.
- b. Well furnished large sitting room
- c. Internet Facilities

**2.5 Aerodrome Data**

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- a. Aerodrome Reference Point : N 35° 33' 38.88"  
E 045° 18' 52.98"  
center of the runway
- b. Aerodrome Elevation : 759.7578m ( 2492 Ft)
- c. Aerodrome Reference Temperature : 43.3° Celsius
- d. Magnetic Variation : 4 degrees East as of Jan 2004  
Annual change 000° 01' 22.16"
- e. Transition Level : FL 160
- f. Transition Altitude : 14 000 Feet
- g. Type Of Aircraft Permitted : IFR / VFR
- h. Airspace Classification : Class "D"

## 2.6 Handling Services and Facilities

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- a. **Cargo Handling Facilities : Available**
- b. **Fuel and Oil Types : JET A1 Fuel, Oil to be determined.**
- c. **Fueling Facilities and Capacity : H24**
- d. **De – Icing Facilities : Available**
- e. **Hangar Space for Visiting : To be determined**
- f. **Repair Facilities : To be determined**

## 2.7 Passengers Facilities

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- a. **Hotels : Available in the City.**
- b. **Restaurant : Cafe at the Departure Terminal;**
- c. **Transportation : Buses and Taxis to Sulaymaniyah City;**
- d. **Medical Facilities : First aid and treatment unit in passengers terminal, first aid emergency medical center in airport, Ambulance service available and hospitals in Sulaymaniyah city 11 Km away.**
- e. **Bank and Post Office : Available at Terminals;**
- f. **Tourist Office : Available at Arrival Terminal.**

## 2.8 Rescue and Fire Fighting

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- a. **Aerodrome CAT for Fire Fighting : RFF Cat 9**
- b. **ARFF Vehicles :**
  - 1. **12 000 liter water, 1 500 liter foam, Foam discharge rate 6000 l/min, Dry chemical powders 500 Kg.**
  - 2. **Two vehicles each 9 000 liter water, 1 200 liter foam, Foam discharge rate 6 000 l/min, Dry chemical powders 500 Kg. CO2 120 Kg.**
  - 3. **8 000 liter water, 800 liter foam, Foam discharge rate 6 000 l/min, Dry chemical powders 500 Kg, CO2 120 Kg.**
  - 4. **Command post vehicle : Rosenbauer**
  - 5. **Rescue Truck : Small – Rosenbauer**
  - 6. **Two Ambulances**
  - 7. **One lighting vehicle.**
- c. **Removal of disabled aircraft : Nil**

## 2.9 Aprons Taxiways And Check Locations Data

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### a. Apron surface and strength

1. Surface : Concrete
2. Strength : PCN : 85/R/B/X/T
3. Dimensions : 304 m x 165m

### b. Taxiway width, Length and strength

#### 1. Main Taxiway – Parallel to Runway

- \* Surface : Concrete
- \* Width : 30 m With 3 m shoulders on each side.
- \* Length : 3500 m
- \* Strength : PCN : 85/R/B/X/T

#### 2. Rapid Taxiways

- \* Surface : Concrete
- \* Width : 27 m
- \* Strength : PCN : 85/R/B/X/T

### c. INS Check Points :

- \* North Apron: N 35° 33' 29.70"  
E 045° 19' 33.68"  
Elevation: 747.7819 m (2452.7 Ft)
- \* Center Apron: N 35° 33' 31.79"  
E 045° 19' 30.94"  
Elevation : 747.96 m (2453.3 Ft)
- \* South Apron : N 35° 33' 33.89"  
E 045° 19' 28.21"  
Elevation: 748.14 m (2453.9 Ft)

**2.10 Aerodrome Obstacles**

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See aerodrome obstacle charts Fig. 2-1 and Fig. 2-2

**2.11 Runway Characteristics**

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**a. Runway Designations (Runway Number): 31 / 13****1. Runway 31 Characteristics**

- \* True Bearing : 313.35°
- \* Magnetic Bearing: 310°
- \* Dimensions : 3500m X 45m (11483Ft X 148 Ft)
- \* Strength : PCN: 85/R/B/X/T
- \* Surface : Concrete
- \* Threshold Coordinates : N 35° 33' 00.43"  
E 045° 19' 43.68"
- \* Threshold Elevation: 743.74 m (2440 Ft)
- \* Slope of Runway : 0.6%

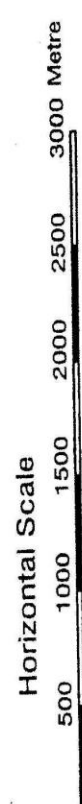
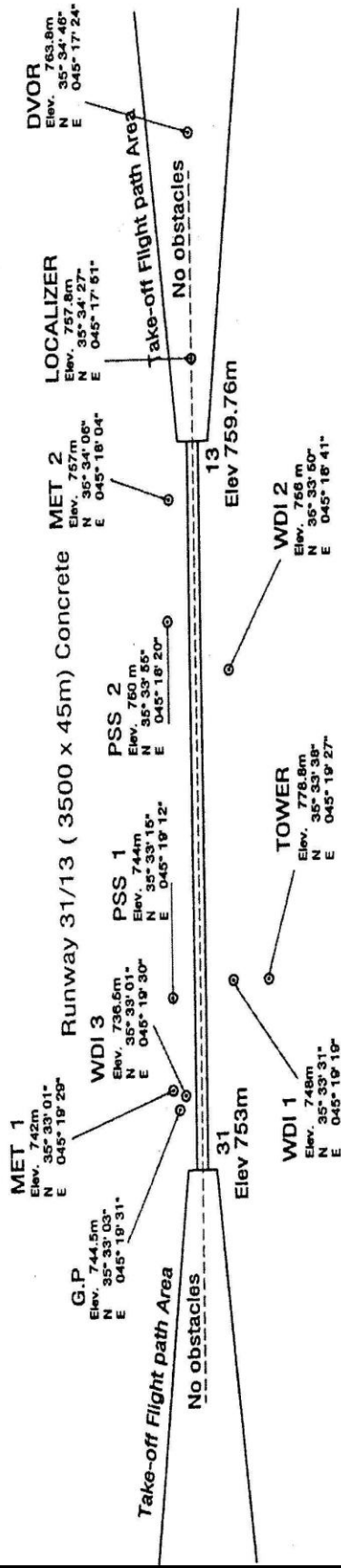
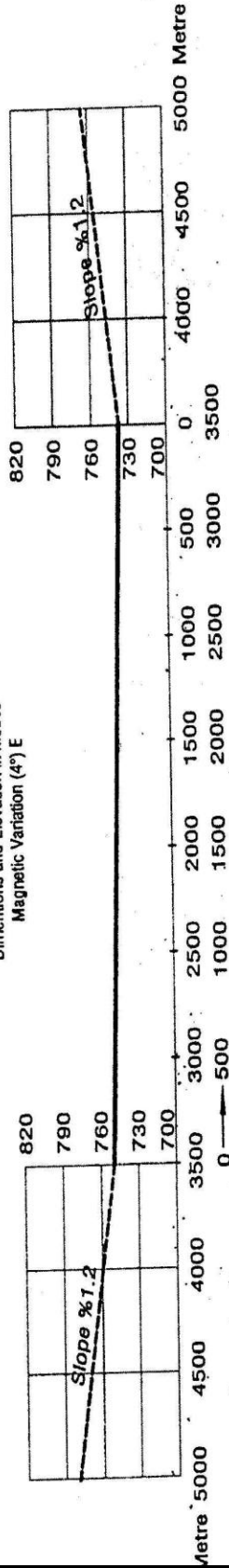
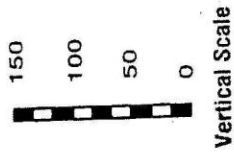
**2. Runway 13 Characteristics**

- \* True Bearing : 133.35°
- \* Magnetic Bearing: 130°
- \* Dimensions : 3500m X 45m (11483 X148 Ft)
- \* Strength : PCN: 85/R/B/X/T
- \* Surface: Concrete
- \* Threshold Coordinates: N 35° 34' 17.73"  
E 045° 18' 01.90"
- \* Threshold Elevation: 759.76m ( 2492 Ft)
- \* Slope of Runway : 0.6%

SULAYMANIYAH  
ORSU-AOC/A  
1 April 07

AERODROME OBSTACLE CHART-ICAO TYPE "A"  
OPERATIONS LIMITATIONS

Dimensions and Elevation in Metres  
Magnetic Variation (4°) E



LEGEND	
○	IDENTIFICATION No.
⊙	Pole, Tower, Spire, Antenna
PSS	Power Sub-station

Declared Distances	
RWY 13	RWY 31
3500	TORA
3800	TODA
3560	ASDA
3500	LDA
	3500

Amendment	
No.	Date Entered by

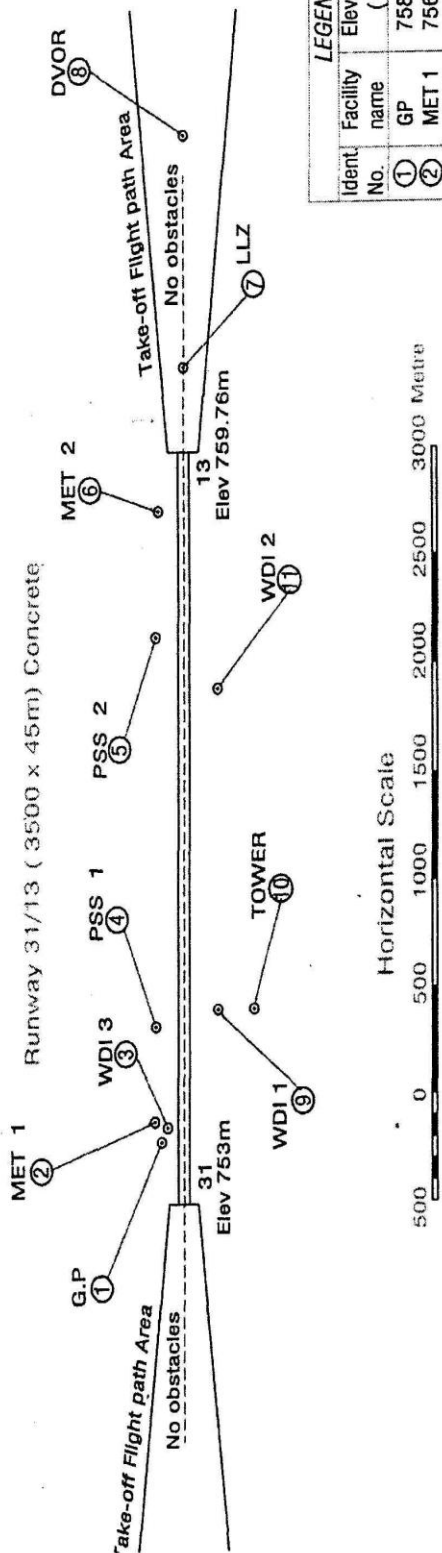
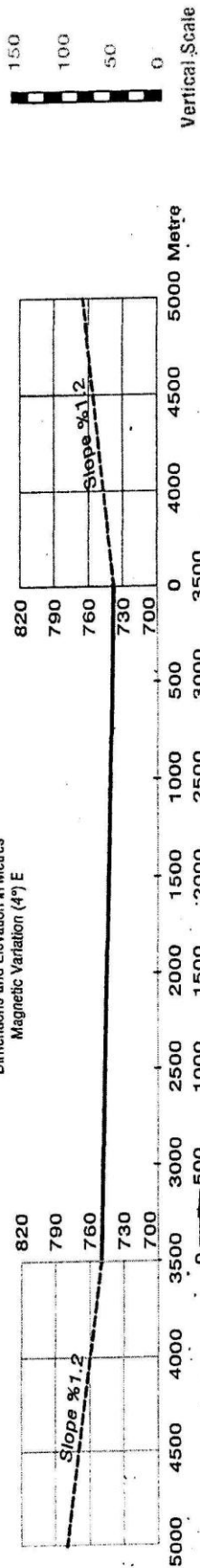
Fig. 2 - 1



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1 April 07

AERODROME OBSTACLE CHART-ICAO TYPE "A"  
OPERATIONS LIMITATIONS

Dimensions and Elevation in Metres  
Magnetic Variation (4°) E



LEGEND

Ident. No.	Facility name	Elevation (m)	Height (m)
①	GP	758	14
②	MET 1	756	11
③	WDI 3	745	8
④	PSS 1	750	6
⑤	PSS 2	756	6
⑥	MET 2	768	11
⑦	LLZ	760	2
⑧	DVOR	760	6
⑨	WDI 1	756	8
⑩	TOWER	810	33
⑪	WDI 2	764	8

Declared Distances

RWY-13	RWY 31
3500	3500
3800	3800
3560	3560
3500	3500

KEY

○	IDENTIFICATION No.
⊙	Pole, Tower, Spire, Antenna
PSS	Power Sub-station

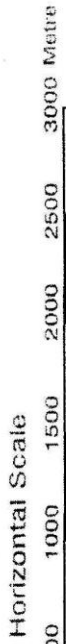


Fig. 2 - 2

**2.12 Declared Distances**

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<b>Declared Distances</b>				
<b>Runway Designator</b>	<b>TORA</b>	<b>TODA</b>	<b>ASDA</b>	<b>LDA</b>
<b>31</b>	<b>3500 m (11 482 Ft)</b>	<b>3800 m ( 12 467 Ft)</b>	<b>3560 m ( 11 680 Ft)</b>	<b>3500 m ( 11 482 Ft)</b>
<b>13</b>	<b>3500 m (11 482 Ft)</b>	<b>3800 m ( 12 467 Ft)</b>	<b>3560 m ( 11 680 Ft)</b>	<b>3500 m ( 11 482 Ft)</b>

**2.13 Approach And Runway Lighting**

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**a. Runway 31**

- \* **Approach Lights : CAT I Barrette Length 900M  
Variable intensity**
- \* **Threshold Lights : Green Wing Bars**
- \* **PAPI : 4 Units on each side 3 Degrees  
Approach slope 400 m from  
threshold.**
- \* **Length of RWY Touchdown Zone : 600 m  
Indicator lights**
- \* **Center Line Lights : To be determined**
- \* **Length spacing colour : White 60 m spacing  
and Intensity of RWY  
edge lights**
- \* **runway End Lights : Red Wing Bar  
REIL Available.**
- \* **Length and colour of : to be determined  
Stopway lights**

**b. Runway 13**

- \* **Approach Lights : CAT I Barrette Length 900M  
Variable intensity**
- \* **Threshold Lights : Green Wing Bars**
- \* **PAPI : 4 Units on each side 3 Degrees  
Approach slope 400 m from  
threshold.**
- \* **Length of RWY Touchdown Zone : 600 m  
Indicator lights**
- \* **Center Line Lights : To be determined**
- \* **Length spacing colour : White 60 m spacing  
and Intensity of RWY  
edge lights**
- \* **runway End Lights : Red Wing Bar  
REIL Available.**
- \* **Length and colour of : to be determined  
Stopway lights**

**2.14 Communication Facilities**

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- \* **Sulaymaniyah TOWER**
  - \* **Main Frequency : 118.3 MHZ**
  - \* **VHF Emergency Frequency : 121.5 MHZ**
  - \* **UHF Emergency Frequency : 243 MHZ**
  - \* **Flight operation frequency : 121.7 MHZ**

## 2.15 Radio Navigation and Landing Aids

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Radio Navigation And Landing Aids						
Type of Aid	Ident	Freq.	Hours of Operation	Site Of Transmitting Antenna Coordinates	Elevation	Remarks
D/VOR/DME	SUL	117.0 MHZ CH 117X	H24	N 35° 34' 46.49" E 045° 17' 24.24"	767.2494 m	1200 m from threshold Runway 13
DME/P 31		111.7 MHZ CH54X	H24	N 35° 33' 02.92" E 045° 19' 30.46"	743.8151 m	Collocated with ILS Runway 31
ILS 31 ***** LLZ	RNJ	111.7 MHZ	H24	N 35° 34' 26.48" E 045° 17' 50.37"	763.6537 m	Serving Runway 31 only.
GP		333.5 MHZ	H24	N 35° 33' 03.23" E 045° 19' 31.26"	743.8149 m	
DME/P 13		111.1 MHZ CH48X	H24	N 35° 34' 06.92" E 045° 18' 07.68"	*****	Collocated with ILS Runway 13
ILS 13 ***** LLZ	NGA	111.1 MHZ	H24	N 35° 32' 53.52" E 045° 19' 52.62"	741.4 m	Serving Runway 13 only
GP		331.7 MHZ	H24	N 35° 34' 06.92" E 045° 18' 07.68"	761.5 m	

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