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Hybrid Meeting, Chiang Rai, Thailand, 10 to 13 January 2023

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**Agenda Item 2: Planning, Design, Construction and Operation of Aerodromes**

**INTRODUCTION OF CHENGDU TIANFU INTERNATIONAL AIRPORT**

(Presented by China)

**SUMMARY**

Chengdu Tianfu International Airport was officially put into operation on June 27, 2021. As the capital of Sichuan province, Chengdu is now the third city in China to have two international airports, joining Beijing and Shanghai.

This information paper is intended to introduce the construction background and history, airport facilities and airport planning of Chengdu Tianfu International Airport.

**1. INTRODUCTION**

1.1 Chengdu Tianfu International Airport (CTIA) is located in Jianyang City, approximately 50 km southeast of Chengdu. The project began in May 2016, with the start of operations on June 27, 2021. CTIA is an important international aviation hub in China and an essential gateway to the western regions.

1.2 The first phase of CTIA's development has the capacity to handle 50 million passengers per year, corresponding to the projected traffic volume around 2025. Three runways and two terminals have been built covering an area of 21 square kilometers. Eventually, the giant airport will be able to handle 150 million passengers annually.

**2. DISCUSSION**

Background

2.1 Chengdu is considered to be one of the most liveable cities in China and among the leading economic, financial, commercial, cultural, transportation, and communication centers in western China. The city has a very important strategic position, profound cultural heritage and great development potential.

2.2 The current Chengdu Shuangliu International Airport (CSIA) featuring two parallel runways and two terminals and is located 16 km southwest of Chengdu. Forecasts indicate that Chengdu would reach 62 million annual passenger traffic by 2020, the lack of capacity of CSIA prompted the need for a larger airport in the city. The decision of building a new airport has been made and the location of which was determined on 20 June 2013. The new airport would provide international and domestic services, while the current CSIA primarily serving domestic needs.

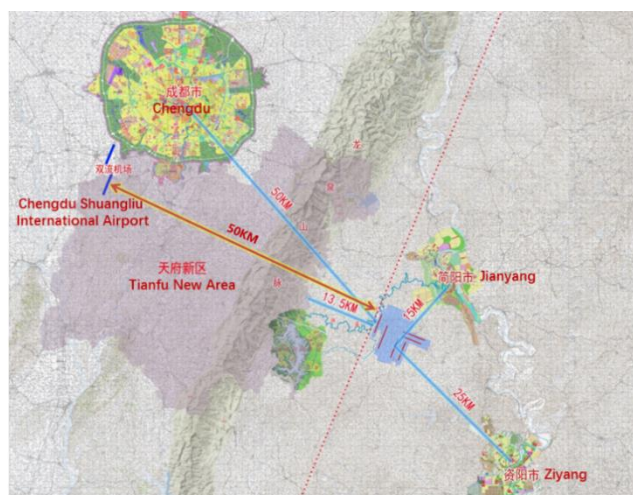


Figure 1. Location of CTIA

Construction history

2.3 The government approved the Chengdu New Airport project in January 2015. In September of the same year, Chengdu's new airport was officially named Chengdu Tianfu International Airport. Construction of the airport began on May 27, 2016, and the airport's first commercial flight to Beijing, operated by Sichuan Airlines, took off from the airport on June 27, 2021, following the successful test flights of six aircraft in January 2021.

Main facilities

2.4 Terminals: The two terminals of CTIA have 83 contact gates. Its shape is inspired by the Sun God Birds of Chengdu Jinsha Site Museum, which is also the symbol of Chengdu. T1 has an area of 387,400 m<sup>2</sup> and can handle 13.5 million international passengers annually. T2 has an area of 318,500 m<sup>2</sup> and can handle 36.5 million domestic passengers annually. The two terminals are connected by APM on airside. The Ground Transportation Center between the two terminals has an area of 422,000 m<sup>2</sup>, which not only includes hotel and parking facilities, but also integrates various transportation modes, such as high-speed railway, subway, bus and taxi.

2.5 Apron Area: The apron area accommodates commercial flights, cargo, maintenance and business operations. It has 240 stands in total. Terminal 1 & 2 have three gates which can support A380, the largest passenger aircraft in the world.

2.6 Runways: CTIA has three runways. RWY01/19 and RWY02/20 can be used for independent parallel approaches, and RWY11 is used for take-offs only.

Runway List

Runway	Length	Width	ILS	Code	Surface
01/19	4000m	60m	01: III/19 : I	4F	Concrete
02/20	3200m	45m	02: III/20 : I	4E	Concrete
11/29	3800m	45m		4E	Concrete

2.7 Integrated transportation: Directly below the T1 and T2 is the Tianfu airport station of ChengZi High Speed Railway with a designed speed of 250-350 km/h. It is expected to begin operation at the end of 2023, linking the airport to downtown Chengdu or nearby cities such as Zigong, Luzhou, Yibin. Metro line 18 and line 13 are laid in parallel below the terminals, the station of metro line 18 was put into operation together with the new airport. S3 Tianfu International Airport Expressway, which starts from downtown Chengdu, was put into use simultaneously with the airport. The south line of airport expressway is still under construction.

Other facilities

2.8 PRT system: Tianfu airport is the first Asian airport to introduce the Personal Rapid Transit System (PRT), providing a convenient transportation mode between the long-distance parking lot, terminals. CTIA is the second airport with PRT in the world after Heathrow airport.

Airlines

2.9 CTIA serves as a base for most of major China airlines, including Air China, Sichuan Airlines, Shenzhen Airlines, Chengdu Airlines, China Eastern Airlines, China Southern Airlines, and so on.

Development Plan

2.10 Further expansion would take the airport to six runways with the capacity to handle 150 million passengers per annum. Terminal 3 and Terminal 4 in the southern part of the airport will be built, APM will link the four terminals.



Figure 2. Current Airfield



Figure 3. Future Airfield

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.