Tianlai Cylinder Antenna Construction Report

Sun Shijie 2014.12

Outline

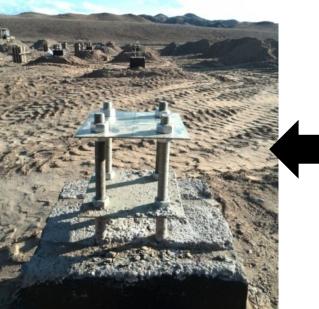
- Foundation of antenna
- Procedure of steel construction
- To do work
- Others

Construction of cylinder base



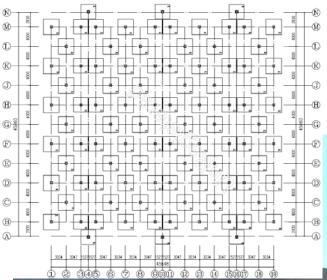
Cylinder base







calibration



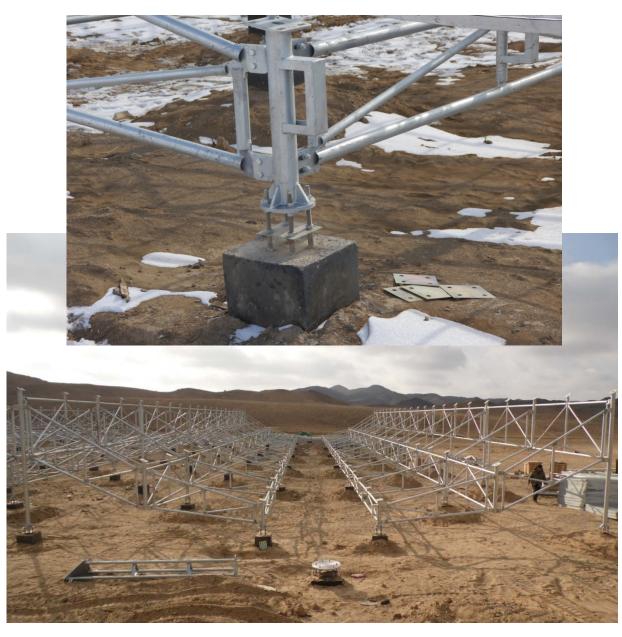
Cylinder base

Total station instrument

Abstract of antenna construction

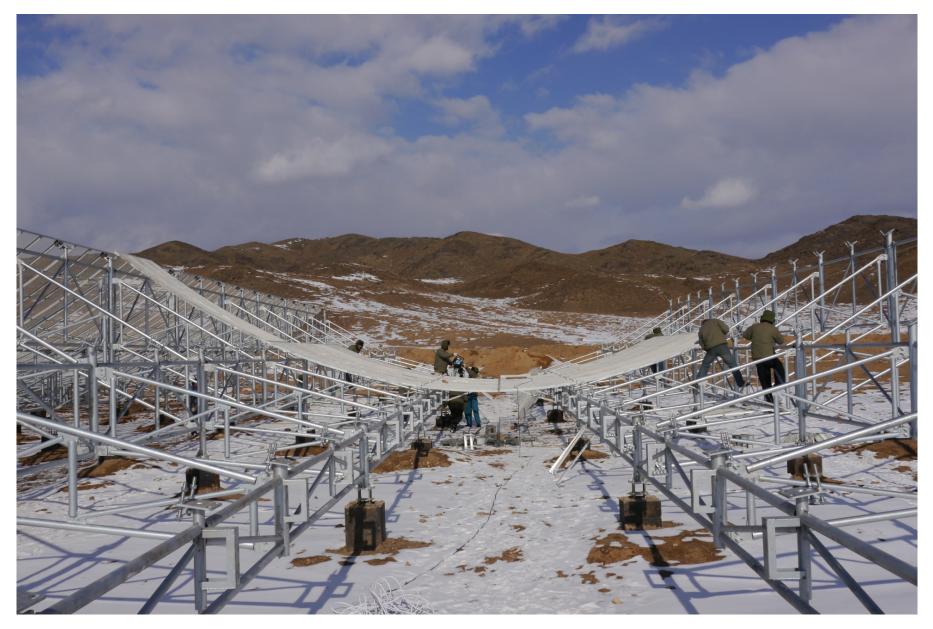
- Temperature: -20°℃—0 °C
- Period: 44days (10.21-12.4)
- Construction corporation: CEC 784 Factory
- Number of mechanical engineers: 10

Building the bracket





Placing the panel



Adjusting the panel



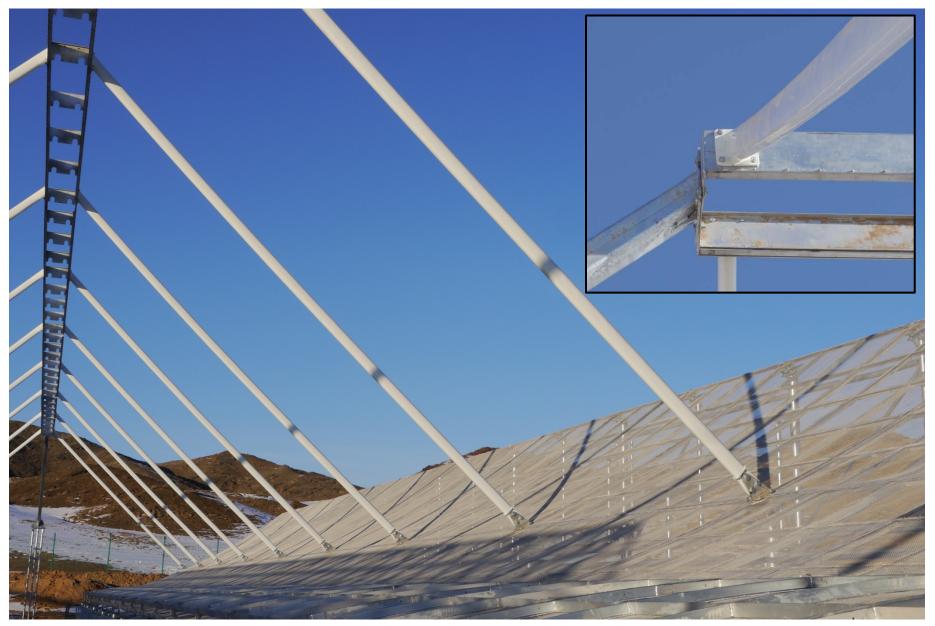
Erecting the feed tower



Fixing the feed slot



Brace rod made of glass steel



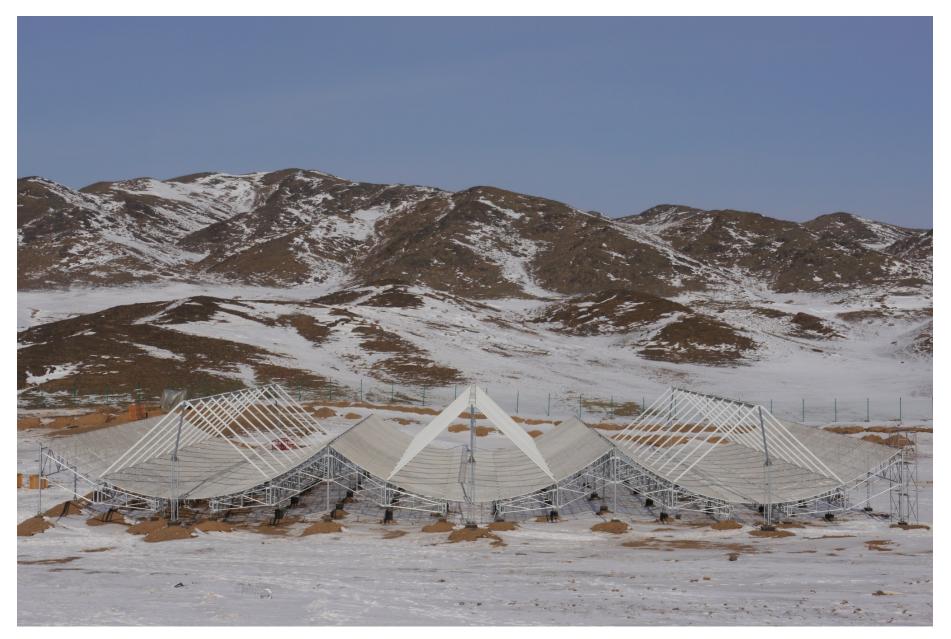
The feed and the hanger bracket



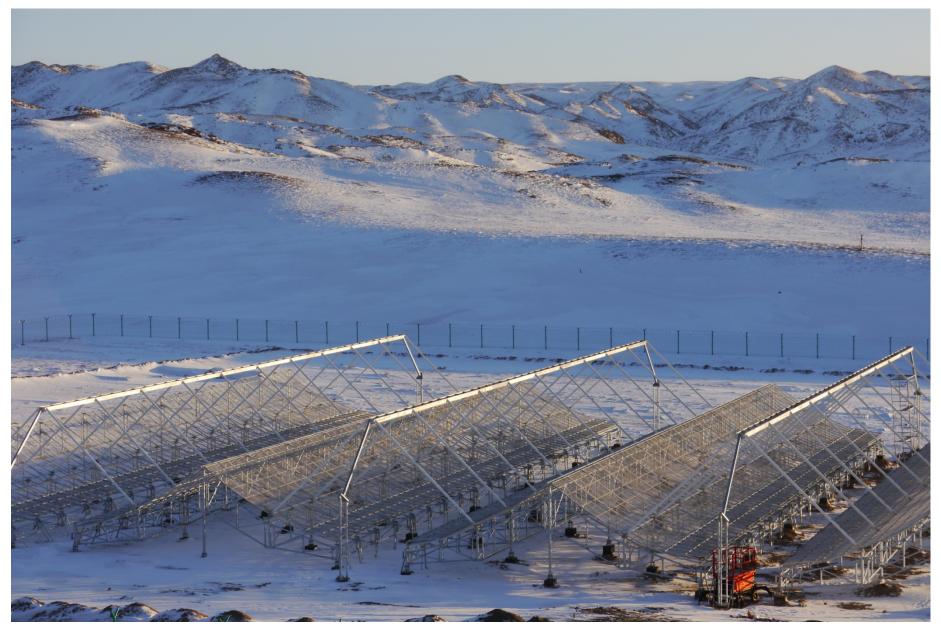
Measuring the focal length



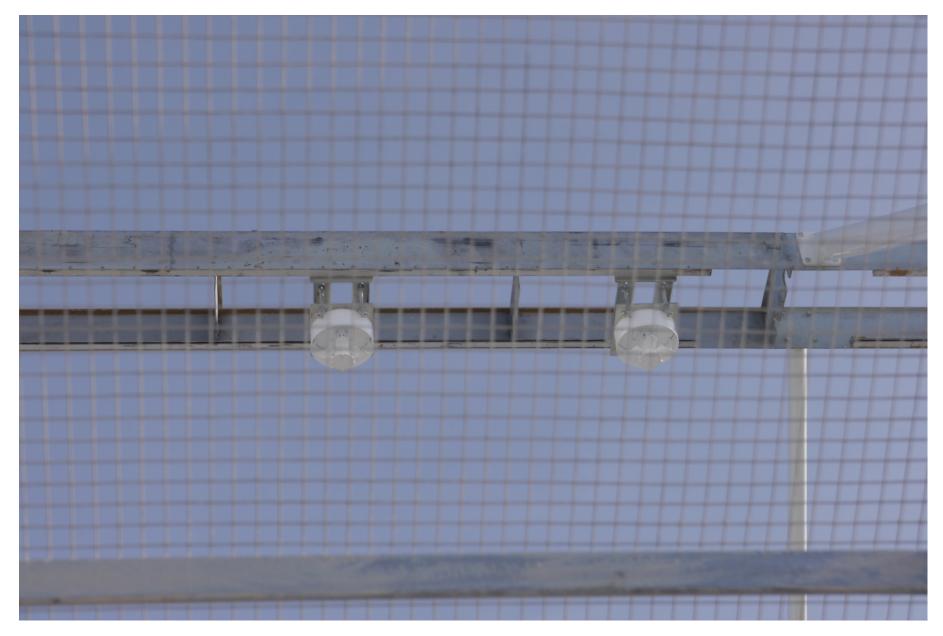
Construction completed



Construction completed



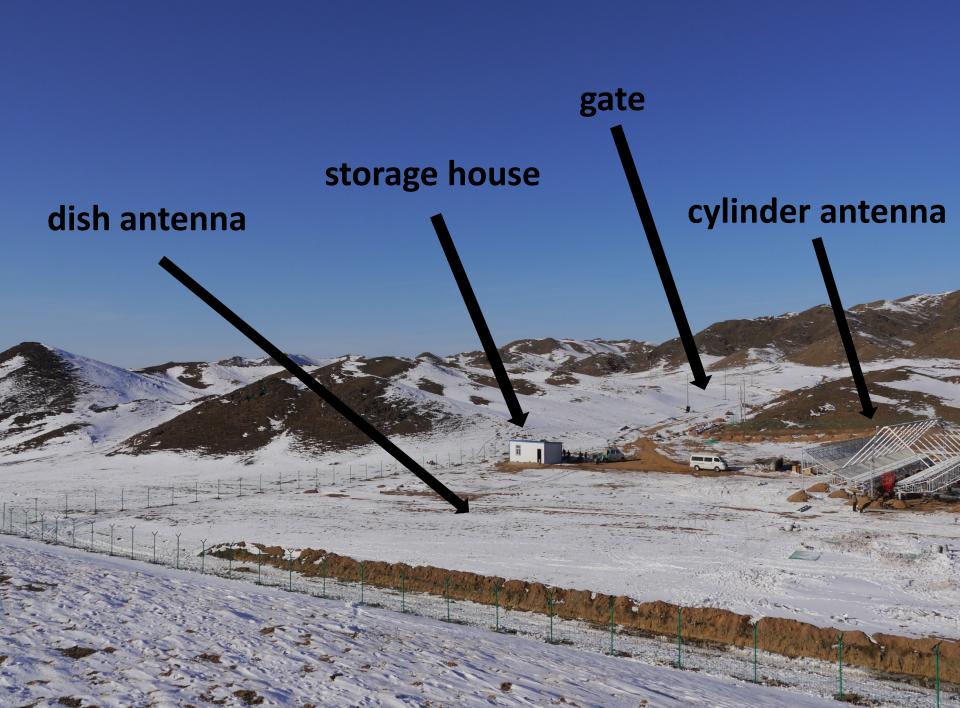
Two feeds per cylinder antenna



To do work

- Calibrate the panel
- Fasten the panel
- Calibrate the feed slot
- Install the remaining feed
- Calibrate the feed

Others





ADSS optical fiber hanging on the telegraph pole





Tianlai house



Thanks