

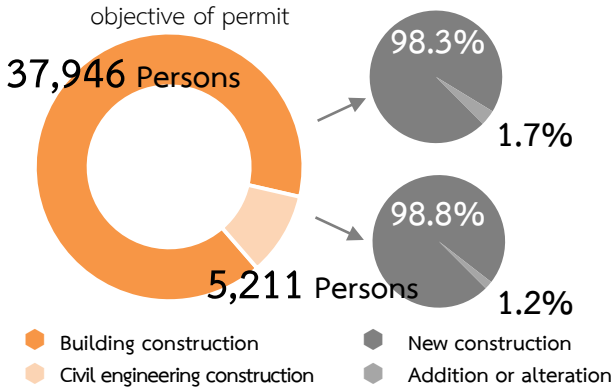
PRELIMINARY REPORT

THE CONSTRUCTION AREA

Quarter 3/2019

The construction area is the data collected on construction permitted of both new construction and addition or alteration for building construction and civil engineering construction of private sector. The major findings of **quarter 3/2019 (July – September)** are as follows;

Figure 1 The number and percentage of permits in Q3/2019 by type of construction and objective of permit



In Q3/2019, there were 43,157 permit persons permitted for construction. In this number, 37,946 persons permitted to construct the building that 98.3% for new construction and 1.7% for addition or alteration. The rest number of permits 5,211 persons permitted to construct the civil engineering construction that 98.8% for new construction and 1.2% for addition or alteration (Figure 1).

1. Building construction

An analysis comparing with the previous quarter shows that the number of permit who permitted to construct the building construction increased 1.0% from Q2/2019 but decreased 1.9% from Q3/2018 and the area of building construction increased 8.1% from Q2/2019 but decreased 7.0% from Q3/2018 (Figure 2)

Figure 2 Comparing the number of permit, number of building and area of building construction permitted in the last 5 quarters

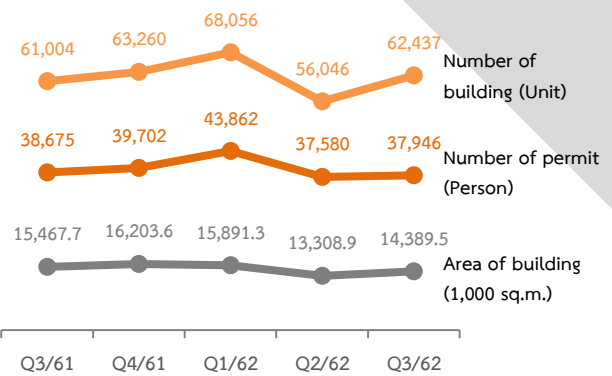
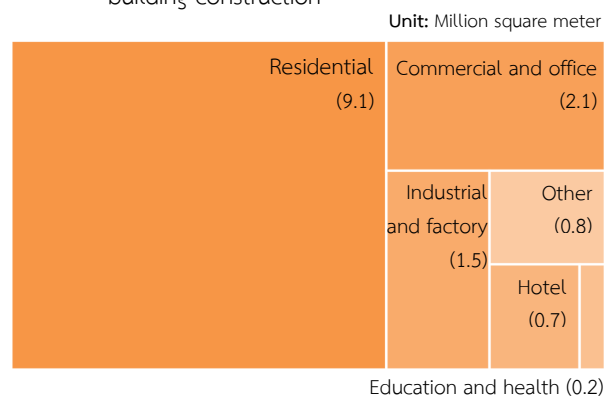


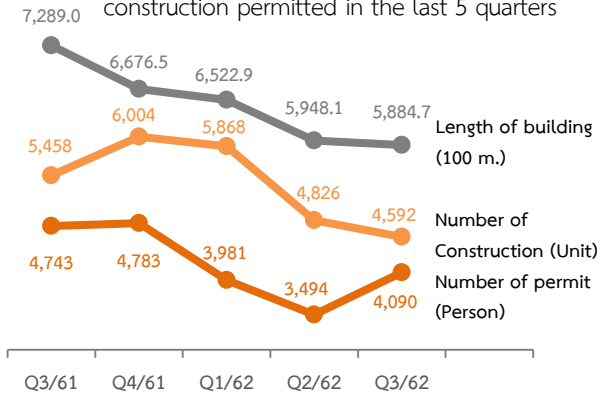
Figure 3 The area of permitted building by type of building construction



The total area of building construction permitted in Q3/2019 were 14.4 million sq.m. that compose by residential building 9.1 million sq.m., commercial and office building 2.1 million sq.m., industry and factory building 1.5 million sq.m. and other type of building construction were permitted less than 1.0 million sq.m. (Figure 3).

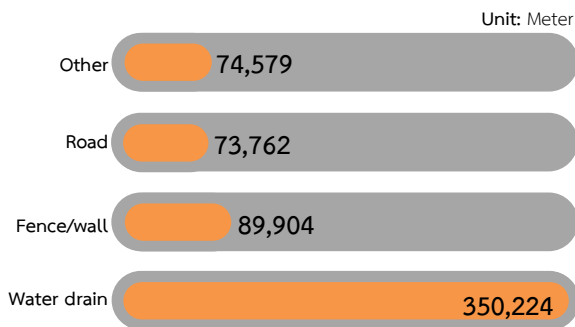
2. Civil engineering construction measured in length

Figure 4 Comparing the number of permit, number of construction and length of civil engineering construction permitted in the last 5 quarters



An analysis comparing about civil engineering construction measured in length with the previous quarter shows that the number of permit increased 17.1% from Q2/2019 but decreased 13.8% from Q3/2018 and the length of civil engineering construction were permitted decreased 1.1% and 19.3% from Q2/2019 and Q3/2018 respectively (Figure 4)

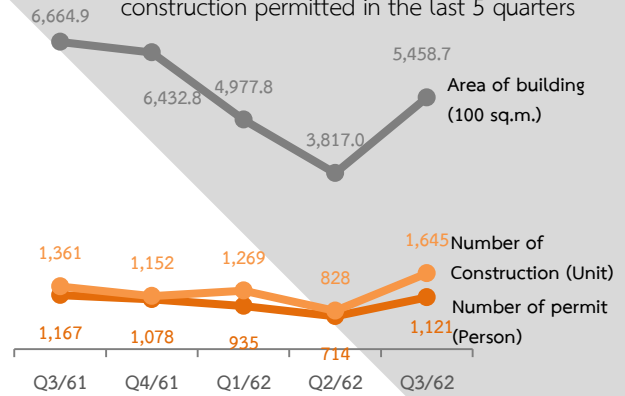
Figure 5 The length of construction by type of civil engineering construction



The total length of civil engineering construction permitted in Q3/2019 were 588,469 m. that compose by water drain 350,224 m., fence/wall 89,904 m., road 73,762 m. and other type of civil engineering construction measured in length were permitted 74,579 m. (Figure 5)

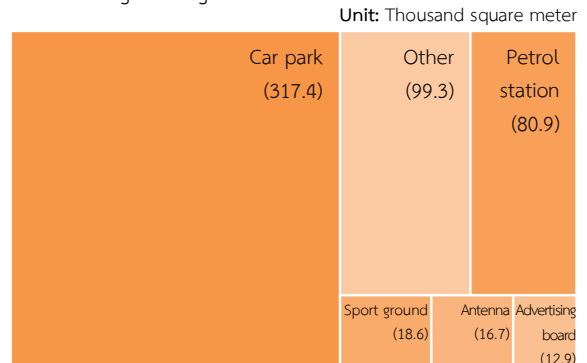
3. Civil engineering construction measured in area

Figure 6 Comparing the number of permit, number of construction and area of civil engineering construction permitted in the last 5 quarters



An analysis comparing about civil engineering construction measured in area with the previous quarter shows that the number of permit increased 57.0% from Q2/2019 but decreased 3.9% from Q3/2018, same as the area of civil engineering construction were permitted also increased 43.0% from Q2/2019 but decreased 18.1% from Q3/2018 (Figure 6)

Figure 7 The area of construction by type of civil engineering construction



The total area of civil engineering construction permitted in Q3/2019 were 545,866 sq.m. that compose by car park 317,364 sq.m., petrol station 80,948 sq.m., sport ground 18,622 sq.m., antenna 16,697 sq.m., advertising board 12,937 sq.m., and other type of civil engineering construction measured in area were permitted 99,298 sq.m. (Figure 7)