

# Central Kowloon Route - Central Tunnel

## Lok Man and Ma Tau Wai Community Liaison Group



September 2020

### Central Kowloon Route (CKR)

CKR is a 4.7km long dual 3-lane trunk road linking Yau Ma Tei Interchange in West Kowloon and the road network at Kai Tak Development and Kowloon Bay in East Kowloon, forming a trunk route through Central Kowloon. CKR will provide an alternative express route to relieve the traffic congestions on the major east-west corridors. After the completion of CKR, the journey time between West Kowloon and Kowloon Bay would take around 5 minutes, representing a reduction of about 25 minutes in comparison to that without CKR.

Apart from alleviating the existing traffic congestions, CKR also yields economic, social and environmental benefits. Reduction in journey time will facilitate connection between districts and support the sustainable economic and social developments. On environmental aspect, CKR will divert traffic flow from major East Kowloon corridors reducing traffic at surface level. Thus, CKR can mitigate the pollution due to traffic congestions and hence improving the environment.



### Central Tunnel (CT) of CKR

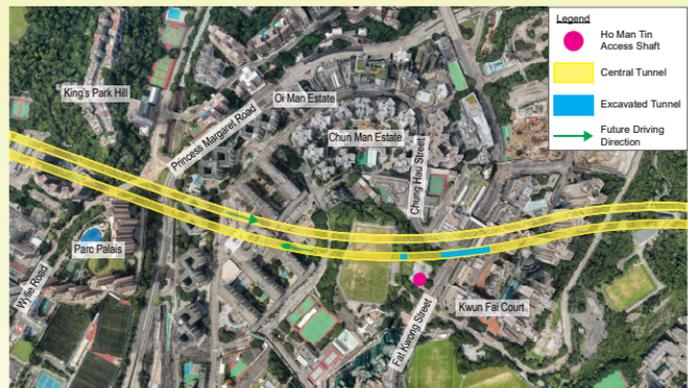
- CKR-CT Contract commenced in July 2019. The works include:
- Construction of an approximately 2.8km long dual-3 lane tunnel
  - Construction of an approximately 41m long cut-and-cover tunnel in Yau Ma Tei
  - Construction of an approximately 33m long cut-and-cover tunnel in Ma Tau Wai
  - Construction of access shaft and foundation of ventilation building in Ho Man Tin
  - Other related works

The tunnel from Shanghai Street to Ma Tau Wai of CKR-CT is located in the bedrock with about 26 to 140m below ground level (i.e. about 10 to 30-stories high). Considerable distance will be kept between the tunnel and the foundation of the buildings to ensure that the structural integrity and the use of buildings along the tunnel alignment will not be affected during the construction and operation phases.

### Works Progress

The blasting works in Ho Man Tin Access Shaft for CKT-CT Contract commenced in December 2019. The tunnel blasting works are currently being carried out at Ho Man Tin works site.

The blasting works in Lok Man and Ma Tau Wai are anticipated to commence in the end of 2020 at soonest.



Tunnelling Works Progress

### Blasting Works Sequence Arrangements

- The blasting works sequence arrangements include:-
- 1 blast is anticipated to be carried out on each working day at 14:00-18:00, and each blast will last for less than a minute.
  - Close liaison with the nearby residents and stakeholders, and notices with blasting schedule will be distributed to the stakeholders a week prior to the blasting works.
  - On the day of blasting, notice boards indicating the on-day blasting schedule will be erected outside the works site.
  - Before carrying out the blasting works, site staff will hit the gong within the site and area that may be affected by the blasting works as a warning signal.
  - The blasting works progress will be reported to the members of Community Liaison Group regularly, ad hoc meetings will be arranged to explain the details of the blasting works, when necessary.



Notice with on-day blasting schedule



Site staff is hitting the gong as a warning sign

### Environmental Protection and Mitigation Measures

The CKR-CT Contract has always been committed to environmental protection and related mitigation measures, including covering noise enclosure to reduce noise level, spraying water on works site to reduce dust generation, washing the wheels of dump trucks, removing weeds and stagnant water regularly, and spraying mosquito larvicidal to avoid mosquito breeding.



### Building Condition Survey

In order to facilitate the construction of CKR-CT Contract, building condition survey is being carried out at the buildings and structures located along the tunnel alignment in stages based on the blasting works progress.

**The importance of building condition survey**  
The building condition survey aims at recording the existing condition of the building structures along the tunnel alignment before the commencement of the works, thereby helping the contractor to adopt the most appropriate construction methods and protective measures to protect the buildings.

**Liaison with incorporated owners' committees and management offices**  
The project team will send letters to the incorporated owners' committees or management offices to obtain their consent for carrying out building condition survey. After obtaining approval, the project team will conduct building condition survey at the time agreed by both parties. Surveyors of the contractor will also carry identification documents to prove their identity.

**Working procedure**  
Surveyors of the contractor will generally conduct visual inspections and make use of suitable instruments such as measuring tape and hammer percussion during inspection. Surveyors will also take photos, measure and record the condition of internal and external structures of the building. All works will be conducted in a safe manner and there will be no disturbances to the residents.



Surveyors conducted visual inspection, measured the length of the cracks on structures and assessed the structural integrity by suitable instruments

Lok Man and Ma Tau Wai