

**DESIGN, CONSTRUCTION AND  
OPERATION OF THE KAI TAK SPORTS  
PARK AT KAI TAK, KOWLOON CITY  
DISTRICT, HONG KONG**  
**Contract No.: HAB/KTSP/01**

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**AIR QUALITY  
MANAGEMENT  
PLAN**  
(Rev 0)

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# 1 Introduction

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## 1.1 Background

- 1.1.1.1** The Environmental Permit (EP) (i.e. EP-544/2017) for the approved Environmental Impact Assessment Report (EIA) for Kai Tak Multi-purpose Sports Complex (AEIAR-204/2017) was issued on 8 September 2017. The location of the Project is given in Figure 1 of EP-544/2017.
- 1.1.1.2** As stipulated in the Condition 2.16 of the EP-544/2017, the Permit Holder shall, no later than one month before the commencement of construction of the Project or otherwise approved by the Director of Environmental Protection Department (DEP), deposit with the DEP with three hard copies and one electronic copy of Air Quality Management Plan (AQMP) Part 1 and AQMP Part 2 to the DEP for approval.
- 1.1.1.3** The AQMP Part 1 shall include details, implementation programme, maintenance and management schedules of the required air quality mitigation measures for the Project. The AQMP Part 2 shall include details on the application and implementation of the best practicable means (BPM) for enhancing air quality for the venue users of the Kai Tak Sports Park.
- 1.1.1.4** In addition, as stipulated in the Condition 2.17 and Condition 2.18 of the EP-544/2017, if there are any change(s) to the AQMP, the Permit Holder shall, no later than one month before implementation of such change(s), deposit with the DEP three hard copies and one electronic copy of an update to the AQMP Part 1 and AQMP Part 2.
- 1.1.1.5** For the Kai Tak Sport Pak project, Hip Hing Engineering Co. Ltd. (HHE), as nominated first tier subcontractor under Kai Tak Sport Park Ltd. (KTSP), will be responsible for carrying out construction works for whole development as well as associated environmental impact mitigation measures.

## 1.2 Purpose of the AQMP

**1.2.1.1** The AQMP is prepared to comply with Condition 2.16 to Condition 2.18 of the EP-544/2017. The Part 1 of AQMP contains details, implementation programme, maintenance and management schedules of the required air quality mitigation measures for the Project. Whereas, the Part 2 of AQMP includes details on the application and implementation of the BPM for enhancing air quality for the venue users of Kai Tak Sports Park (KTSP).

## 2 Air Quality Mitigation Measures – AQMP Part 1

### 2.1 Construction Phase

2.1.1.1 The following air quality mitigation measures and good site practices for construction phase have been considered:

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
<b><i>Controls for Exposed Surface and Haul Roads</i></b>				
<ul style="list-style-type: none"> <li>Adopt good practices and ensure that all haul routes are paved, even if routes are temporary;</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSP	As required
<ul style="list-style-type: none"> <li>Regular watering once per hour on haul roads shall be carried out and regular inspection and necessary repairing/re-surfacing is required to ensure the integrity of the haul roads;</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSP	As required
<ul style="list-style-type: none"> <li>Earthworks shall be temporarily covered if possible;</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSP	As required
<ul style="list-style-type: none"> <li>A hoarding of not less than 2.4 m high from ground level along the site boundary shall be provided as a wind barrier; and</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSP	As required
<ul style="list-style-type: none"> <li>Scaffolding shall be erected around the perimeter of a building under construction.</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSP	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
Effective dust screens, sheeting or netting shall be provided to enclose the scaffolding from the ground floor level of the building.				
<ul style="list-style-type: none"> <li>All onsite unpaved roads should be compacted and kept free of loose materials as possible</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>The vehicle washing and the road between washing area and site exit should be paved with concrete, bituminous or other hardcores</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Exposed earth should be properly treated by compaction, turfing, hydro-seeding, vegetation planting, or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on</li> </ul>	HHE	Q1/2019 Q4/2022	– HHE, KTSPL	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
the construction site or part of the construction site where the exposed earth lies				
<b>Controls for Stockpiles</b>				
<ul style="list-style-type: none"> <li>Any stockpile of dusty materials shall be entirely covered by impervious sheeting;</li> </ul>	HHE	Q1/2019 Q4/2020	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Regular water spraying once per hour shall be conducted on any dusty materials before loading and unloading, and stockpile of dusty materials;</li> </ul>	HHE	Q1/2019 Q4/2020	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>The stockpile shall be sprayed with water or a dust suppression chemical so as to maintain the entire surface wet;</li> </ul>	HHE	Q1/2019 Q4/2020	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>The stockpile should not be extended beyond the pedestrian barriers, fencing or traffic cones;</li> </ul>	HHE	Q1/2019 Q4/2020	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Fences of similar height and size to the stockpile shall be erected to act as wind barriers; and</li> </ul>	HHE	Q1/2019 Q4/2020	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Long-term stockpiles</li> </ul>	HHE	Q1/2019	– HHE, KTSPL	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
on site shall be avoided and stockpiles shall be sited away from the sensitive receptors, watercourses and surface drains wherever possible.		Q4/2020		
<b>Control for Vehicles and Machines</b>				
<ul style="list-style-type: none"> <li>Effective vehicle cleaning and specific wheel-washing facilities including a high-pressure water jet shall be provided at every discernible or designated vehicle exit point;</li> </ul>	HHE	Q1/2019 Q1/2023	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Vehicles carrying dusty materials shall be securely covered before leaving the site;</li> </ul>	HHE	Q1/2019 Q1/2023	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Speed of trunks within the site should be limited to 10kph;</li> </ul>	HHE	Q1/2019 Q1/2023	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Haulage and delivery vehicles shall be confined to designated roads;</li> </ul>	HHE	Q1/2019 Q1/2023	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Adopt best practicable means of reducing vehicle and machine emissions;</li> </ul>	HHE	Q1/2019 Q1/2023	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>All plant equipment should be provided with regular</li> </ul>	HHE	Q1/2019 Q1/2023	– HHE, KTSPL	As required



Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
maintenance; and				
<ul style="list-style-type: none"> <li>Unused machines shall be throttled down or switched off.</li> </ul>	HHE	Q1/2019 Q1/2023	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Properly fitted side and tail boards are necessary for any vehicle with open load area</li> </ul>	HHE	Q1/2019 Q1/2023	– HHE, KTSPL	As required
•				
<b>Controls for Dusty Activities</b>				
<ul style="list-style-type: none"> <li>Excavation area should be minimized as far as practicable;</li> </ul>	HHE	Q1/2019 Q1/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Regular water spraying once per hour shall be conducted on any area where demolition work, excavation or earthwork activities are carried out;</li> </ul>	HHE	Q1/2019 Q1/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>All dusty activities should be damped down, especially during dry weather; and</li> </ul>	HHE	Q1/2019 Q1/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Dropping heights shall be minimized to control the fall of materials.</li> </ul>	HHE	Q1/2019 Q1/2022	– HHE, KTSPL	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
<ul style="list-style-type: none"> <li>Any skip hoist for material transport should be fully enclosed by impervious sheeting</li> </ul>	HHE	Q1/2019 Q1/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously</li> </ul>	HHE	Q1/2019 Q1/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Dusty materials on every vehicles body and wheels should be removed in washing area before leaving the site</li> </ul>	HHE	Q1/2019 Q1/2022	– HHE, KTSPL	As required
<b>Cement Storage</b>				
<ul style="list-style-type: none"> <li>Cement should be properly stored in shelters with 3 sides and the top covered by impervious materials if the stack exceeds 20 bags;</li> </ul>	HHE	Q3/2020 Q3/2022	– HHE, KTSPL	As required
<ul style="list-style-type: none"> <li>Loading, unloading, transfer, handling or storage of bulk cement should be carried out in a totally enclosed system or facility, and</li> </ul>	HHE	Q3/2020 Q3/2022	– HHE, KTSPL	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system				
<ul style="list-style-type: none"> <li>Cement delivered in bulk should be stored in a close silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed</li> </ul>	HHE	Q2/2019-Q3/2020	HHE, KTSPL	As required

**Environmental Monitoring and Audit**

<ul style="list-style-type: none"> <li>Environmental monitoring and auditing shall be carried out in accordance with EP and the EM&amp;A manual; and</li> </ul>	Environmental Team	Q1/2019 Q1/2023	– Independent Environmental Checker	As required
<ul style="list-style-type: none"> <li>Regular site inspection will be carried out to audit the implementation of the mitigation measures.</li> </ul>	Environmental Team/ Independent Environmental Checker	Q1/2019 Q1/2023	– Environmental Team/ Independent Environmental Checker	As required

Notes:

[1] Construction works will be carried out between 2019 and 2023.

[2] Exact maintenance and management schedule will be confirmed in the implementation stage.

## 2.2 Operational Phase

2.2.1.1 The following air quality mitigation measures and good site practices for operational phase have been considered:

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
<b><i>Traffic Design and Management</i></b>				
<ul style="list-style-type: none"> <li>The traffic design shall avoid traffic congestion within the precinct and the surrounding public roads;</li> </ul>	Designer (Arup)	Design (Q1/2019 Q4/2022)	HHE and future operator	As required
<ul style="list-style-type: none"> <li>The number of car parking spaces for the venues and facilities shall follow the HKPSG as appropriate;</li> </ul>	Designer (Arup)	Design (Q1/2019 Q4/2022)	HHE and future operator	As required
<ul style="list-style-type: none"> <li>The loading/unloading zones shall be designed to avoid interference with the car parking areas;</li> </ul>	Designer (Arup)	Design (Q1/2019 Q4/2022)	HHE and future operator	As required
<ul style="list-style-type: none"> <li>Loading and unloading of heavy vehicles shall be restricted to off-peak hours; and</li> </ul>	Operator	Operation	Operator	As required
<ul style="list-style-type: none"> <li>Entry of heavy goods vehicles to KTSP should avoid peak hours, weekdays from 7 am to 10 am and from 4 pm to 7 pm as far as</li> </ul>	Operator	Operation	Operator	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
practicable, except for major events.				
<b>Promotion of Electric Vehicles</b>				
<ul style="list-style-type: none"> <li>Provision of electrical vehicle (EV) charging facilities in at least one-third of the car parking spaces for private cars, Provision of EV charging enabling facilities in all car parking spaces provided for private cars.</li> </ul>	HHE	Design (Q1/2019 Q4/2022)	Operator –	As required
<ul style="list-style-type: none"> <li>The EV charging management and payment system for EV charging facilities in the car park shall be provided;</li> </ul>	HHE	Design (Q1/2019 Q4/2022)	Operator –	As required
<ul style="list-style-type: none"> <li>The car parking information sharing system shall be provided and free for public access for obtaining real-time parking availability data of car parks and information of EV charging facilities;</li> </ul>	Operator	Operation	Operator	As required
<ul style="list-style-type: none"> <li>All car parking information and EV charging facilities information shall also be shared with the smart parking mobile</li> </ul>	Operator	Operation	Operator	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
<p>app and the my Kowloon East apps, which is being developed by the Energizing Kowloon East Office, Development Bureau, the HKSAR Government; and</p> <ul style="list-style-type: none"> <li>• Give priority to EV to use the car parking spaces as far as practicable</li> <li>• Electric vehicles (EV) should be used under normal operation for vehicles such as electric saloon cars/coaches, if the operator provides transport services for the staff and/or guest</li> </ul>	Operator	Operation	Operator	As required
<p><b>Park Design</b></p> <ul style="list-style-type: none"> <li>• The proposed walkway is designed with cover for weather protection, providing a safe, enjoyable and comfortable walking environment. The walkability improvements would promote wider use of environmentally friendly transport;</li> </ul>	Designer (Arup)	Design (Q1/2019 Q4/2022)	HHE and future operator	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
and				
<ul style="list-style-type: none"> <li>The fresh air intakes should be located outside the exceedance zone of air pollutant NO<sub>2</sub> in accordance with the approved EIA report as far as practicable.</li> </ul>	Designer (Arup)	Design (Q1/2019 Q4/2022)	HHE and future operator	As required
<b>Greening and Landscaping</b>				
<ul style="list-style-type: none"> <li>Tree planting shall be done for improving the urban air quality;</li> </ul>	HHE	Q1/2019-Q1/2023	Operator	As required
<ul style="list-style-type: none"> <li>Greening infrastructure such as vertical greening and green roofs shall be adopted where practicable to maximise the greening opportunities; and</li> </ul>	HHE	Q1/2019-Q1/2023	Operator	As required
<ul style="list-style-type: none"> <li>Heavy standard size, well-branched trees and bushy shrubs/groundcover shall be provided.</li> </ul>	HHE	Q1/2019-Q1/2023	Operator	As required
<b>Pollutant Degradation</b>				
<ul style="list-style-type: none"> <li>Use of de-NOx paints shall be considered for the removal of atmospheric pollutants;</li> </ul>	HHE	Q1/2019-Q1/2023	Operator	As required
<ul style="list-style-type: none"> <li>Air purification and air filtration system shall be installed in</li> </ul>	Designer (Arup), HHE	Q1/2019-Q1/2023	Operator	As required

Mitigation Measures	Implementation Agent	Implementation Programme <sup>[1]</sup>	Maintenance and Management Parties	Maintenance and Management Schedule <sup>[2]</sup>
MVAC system to improve the air quality; and				
<ul style="list-style-type: none"> <li>Low VOC sealant, paints, coating, and adhesive will be used on site as a minimum provision.</li> </ul>	HHE	Q1/2019-Q1/2023	Operator	As required
<b>Ventilation Enhancement</b>				
<ul style="list-style-type: none"> <li>Air Ventilation Assessment will be performed to ensure no adverse ventilation impact compared to the reference scheme; and</li> </ul>	Designer (Arup),	Q1/2019-Q1/2023	Operator	As required
<ul style="list-style-type: none"> <li>Adequate ventilation will be provided for all area (e.g. enclosed common area and significant indoor pollution sources are generated).</li> </ul>	Designer (Arup),	Q1/2019-Q1/2023	Operator	As required

Notes:

[1] Design works will be carried out between 2019 and 2022.

[2] Exact maintenance and management schedule will be confirmed in the implementation stage.



## 3 Best Practicable Means for Enhancing Air Quality – AQMP – Part 2

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**3.1.1.1** According to the Conditions of Approval under Section 8(3) of the EIAO for the Kai Tak Multi-purpose Sports Complex, the application and implementation of the best practicable means have been explored. These include:

- large scale planting;
- use of de-NO<sub>x</sub> paints; and
- devices to actively filter air pollutants.

### 3.2 Large Scale Planting

**3.2.1.1** Large scale planting has been proposed in the Project to enhance the air quality. Greening and planting will be offered at roadsides, roofs, walkways, ramps and decks within the site wherever applicable. Vertical greening will also be considered at the external facades to further raise the coverage of greenery. Evergreen board leaf plants are recommended in order to achieve a better NO<sub>x</sub> removal efficiency from air. In conjunction with the landscaping and greening works to enhance the visual amenity, the Landscape Architect of the Project will determine the most suitable locations for planting to enhance the air quality during the detailed design stage. The planting locations will be detailed in Landscape and Visual Mitigation Plan.

### 3.3 Use of De-NO<sub>x</sub> Paints

**3.3.1.1** Provision of outdoor photocatalytic surfaces for reducing the concentration of NO<sub>x</sub> have been explored. Paints containing titanium dioxide (TiO<sub>2</sub>) are the most common type of de-NO<sub>x</sub> paints available in the market. Applicability of photocatalyst to a large surface and free of extra energy input are the major advantages of the de-NO<sub>x</sub> paints. However, major implementation concerns will be the supply of the de-NO<sub>x</sub> paints and weathering of catalysts after years. The Project Architect will determine the external facades to

be applied with the de-NO<sub>x</sub> paint, whilst the Contractor will select a proper de-NO<sub>x</sub> paint available in the market during the construction of the Project, in consideration of the performance, compatibility of the de-NO<sub>x</sub> paints with the facade textures and resistivity to weathering.

### 3.4 Devices to Actively Filter Air Pollutants

**3.4.1.1** High efficiency particulate arrestance (HEPA) filters and activated carbons gas filters (ACGF) are suggested for indoor venues to remove particulate matter and gaseous pollutants respectively. They are commercially available and commonly integrated with Heating, Ventilation and Air Conditioning (HVAC) system to filter the inlet air from the fresh air intakes. In Hong Kong, Architectural Services Department (ArchSD) has promulgated the “*General Specification for Air-Conditioning, Refrigeration, Ventilation and Central Monitoring & Control System Installation in Government Buildings of The Hong Kong Special Administrative Region (2017 Edition)*” to provide the standards for HEPA filters and ACGF. The HVAC and filtering devices of the indoor venues of the Project shall meet the standards of the General Specification. The Project Architect/MEP Consultant/ MEP Contractor will incorporate the filtering devices into the building design. Regular maintenance would be provided by the Operator/Building Management Unit to ensure the performance of filtering devices.

## 4 Conclusion

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- 4.1.1.1** According to Condition 2.16 of the EP-544/2017, Air Quality Management Plan (AQMP) Part 1 including details, implementation programme, maintenance and management schedules of the required air quality mitigation measures for the Project and AQMP Part 2 containing details on the application and implementation of the best practicable means (BPM) for enhancing air quality for the venue users of Kai Tak Sports Park (KTSP) have been prepared to DEP for approval no later than one month before commencement of construction.
- 4.1.1.2** In addition, as stipulated in the Condition 2.17 and Condition 2.18 of the EP-544/2017, if there are any change(s) to the AQMP Part 1 and Part 2, the Permit Holder shall, no later than one month before the implementation of such change(s), deposit with the DEP three hard copies and one electronic copy of an update to the AQMP.



**Home Affairs Bureau**  
The Government of the Hong Kong Special Administrative Region



Environmental Permit No. EP- 544/2017

Kai Tak Sport Part – Investigation

Environmental Team Leader Certification

Reference Document /Plan

Document/Plan to be Certified:	Air Quality Management Plan
Date of Report:	March 2019 (Rev. 0)
Date received by ETL:	8 March 2019

Reference EP Condition

Environmental Permit Condition:	2.16
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The Permit Holder shall, no later than one month before the commencement of construction of the Project or otherwise approved by the Director, submit three hard copies and one electronic copy of Air Quality Management Plan (the AQMP) Part 1 and AQMP Part 2 to the Director for approval. The AQMP Part 1 shall include details, implementation programme, maintenance and management schedules of the required air quality mitigation measures for the Project. The AQMP Part 2 shall include details on the application and implementation of the best practicable means (BPM) for enhancing air quality for the venue users of the Kai Tak Sports Park.

ETL Certification

I hereby certify that the above reference plan complies with the above referenced condition of EP-544/2017.

A handwritten signature in black ink that reads 'Sunny Chan'.

Mr Sunny Chan  
Environmental Team Leader

Date: 8 March 2019



## Environmental Permit No. EP-544/2017

### Kai Tak Sports Park - Investigation

### Independent Environmental Checker Verification

#### Reference Document/Plan

Document/Plan to be <del>Certified</del> / Verified:	Air Quality Management Plan
Date of Report:	March 2019 (Rev. 0)
Date received by IEC:	8 March 2019

#### Reference EP Condition

Environmental Permit Condition: 2.16

The Permit Holder shall, no later than one month before the commencement of construction of the Project or otherwise approved by the Director, submit three hard copies and one electronic copy of Air Quality Management Plan (the AQMP) Part 1 and AQMP Part 2 to the Director for approval. The AQMP Part 1 shall include details, implementation programme, maintenance and management schedules of the required air quality mitigation measures for the Project. The AQMP Part 2 shall include details on the application and implementation of the best practicable means (BPM) for enhancing air quality for the venue users of the Kai Tak Sports Park.

#### IEC Verification

I hereby verify that the above referenced ~~document~~/plan complies with the above referenced condition of EP-544/2017.

A handwritten signature in black ink, appearing to read 'Mandy To'.

Ms Mandy To

Independent Environmental Checker

Date: 8 March 2019