

Installation of four floodlights, sub station and associated infrastructure to

Ekufeni Cricket Ground



Recommendation:

For readers to the content of the report and to provide comment/feedback on the questions raised.

Introduction:

- . 1.1 This report is brought to Ministry of Youth & Sport for information. This planning application relates only to Ekuveni Cricket Ground.
- . 1.2 Maldives Cricket would benefit from staging cricket matches and cricket training during early evening and into the nighttime. Playing cricket at these times enables semi-professional players to maximise the time available for cricket outside of normal working hours. Playing cricket during these hours also creates potential revenue from sponsorship, as the number of spectators would increase. Finally, International Cricket Matches can be played in accordance with International Cricket Council (ICC) requirements to host matches under artificial lighting.
- . 1.3 Ekuveni Cricket Ground is one of the few remaining venues, which does not have the benefit of permanent floodlighting – the installation of which is soon to be a mandatory ICC requirement for grounds staging international matches.
- . 1.4 This report seeks to outline the benefits associated with the development.

. **2.0 PROPOSAL**

- . 2.1 The proposal seeks permission and funding for the erection of 4 floodlights and an electricity sub station.
- . 2.2 The overall height of each floodlight would be 35 metres. The column would be 32 metres in height and the lighting element would be 3 metres in height. The floodlight frames would be 5 metres in width and would be illuminated to a level of 640 Lux each. The mast structure will be formed of steel construction with a galvanised finish. The mast foundations will be formed of reinforced concrete construction of a sufficient depth to resist the applied dead and wind loading.
- . 2.3 The four masts would be located to the rear of the pavilion, the corner of tennis courts, the corner of Marine Drive and side road and corner of futsal ground and Ekuveni Cricket Ground.

- . 2.4 The existing infrastructure at the ground is insufficient to power the 640 luminaires proposed in this scheme as such there is a requirement for the installation of a new sub-station. It is proposed to locate this adjacent to the pavilion in the north east corner of the ground.
- . 2.5 The floodlights would be used daily from 6pm until 10pm and only used for cricket matches (full power) and practice sessions (reduced power).
- . 2.6 The installation of the lights should take place as soon as possible with the aim to have the lights in place by January 2016.

. **3.0 SITE AND SURROUNDINGS:**

- . 3.1 Ekuveni Cricket Ground is bound by mixed sports grounds to the north and west, with public access roads to the south and north.
- . 3.2 The ground is also shared with Athletics Association and many members of the public

. **4.0 MAIN ISSUES:**

- Principle of the development
 - Mast design and Siting
 - Traffic Management issues
 - Other issues including benefits of the scheme
- . 4.1 The site is an international sporting arena that has been part of cricket in Malé for over 20 years. There is a strong possibility that playing cricket here outside of day light hours would bring benefits to cricket, Malé and to the wider area.
 - . 4.2 As well as the economic benefits the Ground brings to Malé and the wider region, the Cricket Ground also provides a key cultural asset to the city and the wider region attracting international visitors to view the second most watched sport in the world.

. **5.0 CONCLUSION**

- . 5.1 The benefits to the City and the Region of playing international cricket are well established and acknowledged.
- . 5.2 It is considered the scheme needs to be thoroughly appraised in relation to the siting and light spill associated with floodlights.

6.0 SUPPLIER

6.1 Musco Sports Lighting:

Some rough preliminary estimates are as follows:

- * 24-30m poles (4-6 in quantity)

- * 100-120 quantity 1500w lights

- * 500 lux

- * \$150,000-\$175,000 USD CIF all equipment delivered to port in the Maldives (assuming there is a port to take delivery, if not it would be to nearest port of call).

- * The price would include supply/deliver of Musco's 5 Easy Pieces: poles; foundations; lights; ECE's; wiring from pole top to pole bottom (see attachment)

- * Mechanical install of the above system including foundations would cost around \$16,000-\$25,000 USD (depending on local prices).

- * Electrical supply and install is hard to say without knowing the power location and if the supply is adequate. We can do design for you and estimates if you can tell us where the supply is.

7.0 QUOTE

What is the commercial voltage in the Maldives? Do you have a 3 phase supply? 3 phase 380v? 415v? Once I know this I can calculate rough amperage requirements for the 120 x 1500w lights (about 204 max kw would be a safe assumption).

The pricing estimate above is very rough as the field is a bit oddly shaped: more than a football field but less than a cricket. I will do a design to get a more accurate price to you shortly.

8.0 FIELD LIGHT STRENGTH



