

Context

Colt Data Centre Services as owner of the site at Beaconsfield Road Hayes are requesting on behalf of ISG, the contractor executing the construction of the Data Centre on Colt's behalf as per planning permission number 38421/APP/20214045, that the said contractor can continue to work on site from 6am to 12pm during weekdays to facilitate the power floating of the concrete. The reason for this request is that the concrete can only be poured in small quantities without this approval, as the concrete has to semi set before it can be floated and at this time of the year that takes considerably longer. To not do this would have significant program implications for Colt and mean that target handover to their hyperscale client will not be met. The work consists of two operatives from the concrete laying company [Galldris], who are employed on a sub contract basis by ISG as main contractor on this project, traversing two polishing machines across the surface of the concrete to produce a smooth finish. These machines are similar to a sit on lawn mower but instead of having a cutting head, they have polishing heads. All equipment will be in place on the required floor before 6 pm and will not be removed until 8am the following morning to minimise plant movements during the late hours working. No additional materials or plant are required to carry out the work. It is an absolute maximum of two operatives with 2 assistants [H and S requirement] running over the concrete on a sit on polishing machine. The additional noise is only the machines because nothing additional is required.

Details of the request

Extend working hours to 2am Monday to Friday. 12 weeks. [Commencing on approval]

Works will also not be carried out on all 5 days due to the rest periods required for the operatives. It is likely that work will only take place on three days a week, but due to the nature of the work we are unable at this time to guarantee which nights or how many nights in each week.

Lighting: Normal lighting includes perimeter fencing and staircase lighting for security, additional task lighting in place for works include 3no with generators, all to be directionally faced inwards to avoid potential external lighting pollution. Details of these machines are included at the end of this note. We are unable to provide zoning as this will be moved dependant on the concrete pours but we can confirm it will all be internally facing as to reduce any light over spill at the site boundary.

Deliveries: All deliveries will be within normal working hours.

Parking: All parking will be on site.

Workforce: maximum 4no workers + 1no Supervisor.

Security: No additional security to that already in place at night.

Plant: See extract from works methodology, at no point will there be more than 2 machines working.

Plant list

Please note 2no machines expected to be used at any one time.]

Plant Description, make and model	Number of machines	Sound Power Level (SPL)
Multiquip Power Float – Whiteman HTN-27/28K-TCL	2	27K - 90dB 28K - 93dB
Power Float - M-B-W F36/4 and F46/4	2	F36/4 – 85-105dB F46/4 – 85-105dB
Masterrac Power Float –PMT 24/30	2	PMT 24 – 85-100dB F46/4 – 85-100dB
Power Float, Ride-on Trowel, Wacker Neuson CRT36	2	100dB
Power Float, Ride-on Trowel, Wacker Neuson CRT48	2	109dB

A range of machines will be used to achieve the best finish for the floors as different machines/manufacturers perform better for different tasks (panning, edging, combination, polishing, etc.).

Noise: Sound power level calculated on the assumption of max noise 2no power floaters at 109dB power at one time equal to 101dB sound pressure level, with a distance of 190m to nearest Cherry Avenue receptor (Not accounting for building or vegetation impact, works on the floors is partially shielded by trees and adjacent industrial buildings which have not been modelled) this equates to at 55.4 dB level at nearest receptor and would be expected to be less given the existing shielding. Also please note this noise level was calculated at 190m which is the closest distance to residents much of the work will take place at great distances as we move from east to west and therefore the noise level will reduce further for some pours.

Plant details

X-ECO
6x160W - 48V LED - 8.5M



ENGINE POWERED Line

Features

- Multi-directional adjustable and tiltable floodlights
- 6x160W, 48V LED lights
- 48V power between the generator and the lights
- 7 section hydraulic vertical tower 8.5 m, 340° rotatable
- Amoss safety system
- Galvanised metalworks
- 80 µm powder coating
- Compact dimensions for easy handling & transportability
- Central lifting eye, longitudinal and transversal forklift pockets for effective handling
- Plug & play, colour coded cables and connectors
- Light heads certified protection level IP67
- Guided main coiled cable to avoid damage during tower operation
- Control panel alarms for engine protection and fuel level indicator
- Circuit breaker for electrical protection against overload
- External emergency stop button
- Fully bunded tank, 110%
- Certified wind stability up tp 110 km/h
- 4 height adjustable stabilisers
- On board levels for guidance during stabilisation

Reduce your CARBON FOOTPRINT by using **TRIME Lighting Towers**

Dimensions and Weight

Dimensions min (mm) LxWxH	2540 x 1390 x 2420
Dimensions max (mm) LxWxH	2540 x 1550 x 8500
Weight (kg)	920

Floodlights

Type	Led
Power (each)	160W
Floodlights number	6
Options	Timer
Illuminated area (sqm)	4200

Mast

Lifting Method	Hydraulic
Maximum Height (m)	8.5 m
Maximum Wind Speed (km/h)	110 km/h
Rotation (°)	340°

Alternator

Model	Synchronous
Frequency (Hz)	50
Insulation class	H
Degree of protection	IP 23
Single phase voltage	3.5kWA - 230V
Auxiliary outlets	1.2 kVA

Engine

Model	Kubota Z482
Fuel	Diesel
r.p.m.	1500
Tank capacity (l)	110
Consumption (l/h)	0.55
Running time	200 h
Noise level (dBA) at 7m	65

X-ECO

6x160W 48V LED - 9M

Our engineers know that the market needs a lighting tower that is rugged, long lasting and safe. The X-ECO has been created beginning from these characteristics. It is the best solution to your needs and guarantees 4200 sqm of illuminated area. 14 units can be loaded on a standard truck. To all of this, we added the technology that allows for maximum fuel efficiency and reliability.



8,5m



920Kg



340°



4200 sqm



110(l) - 0,55 (l/h)

- Multi-directionally adjustable and tiltable floodlights
- 6x160W, 48V LED lights
- 48V power between the generator and the lights
- 7 sections hydraulic vertical tower 8,5 m, 340° rotatable
- Galvanized metalworks
- 80 µm powder coating
- Very compact dimensions for easy handling & transportability, up to 14 units per truck
- Central lifting eye, longitudinal and transversal forklift pockets for effective handling
- Plug & play, colour coded cables and connectors
- IP67 level protection certified
- Guided main coiled cable to avoid damage during tower operation
- Control panel alarms for engine protection and fuel level indicator
- Circuit breaker for electrical protection against overload
- External emergency stop button
- Fully bunded tank, 110%
- Certified wind stability up to 110 km/h
- 4 height adjustable stabilizers
- On board levels for guidance during stabilization
- Amoss safety break

✓ *Kubota 1500 rpm 2 cyl water cooled diesel engine c/w 2 years warranty*

✓ *LED lamps mean NO replacement of*

- *bulbs*
- *lamp glass*
- *ballast*
- *capacitors*

Reducing Call Out Costs

✓ *LED Flood Light guaranteed for 50.000 hours*

✓ *Vertical mast with Life time warranty*



Illuminated area
4200 sqm



Ease of transport and handling