Alpha
Consulting Engineers Pte Ltd

FEEDBACK REPORT FORM

Ref No: 159-060514

To: CCG From: LFY

Job No./Project: Master Specification
Swimming Pool Filtration Plant Installation (NSC & DSC)
Section 2 – Filters, Air Blower, Flow Meter & Underwater Lighting
(where applicable)

Source of feedback:

Scope of Feedback: * [ ]Quality [ ]Environmental [ ]Administrative [ ]Contractual
[✓]Technical [X]Specification [ ]Others

Section A : Problem & Cause

Specifications lacking in details such as grade of stainless steel for the housing, IP rating. LED lights not mentioned. 3m long cord missing; for practical purpose i.e changing of bulb without draining of water.

Section B : Mitigating Action Taken, if any

NIL.

Section C : Suggested Corrective Action

Revised specifications to include missing details, include LED lights & bring it up-to-date.

Section D : Approved Corrective Action

Document Affected * : [✓]Yes [ ]No Affected Document : Section 2 of Spec.

Approved By : CLM Date : 5/5/2014.

Section E : Action

Action By : LFY / NA

Targeted Completion : May 2014

Actual Completion : 6 May 2014 Verified By : CLM

* *Mark [X] where appropriate*

Distribution:

↳ To all staff via e-mail dated 6 May 2014

2.4 Underwater Lighting

The Sub-Contractor shall supply and fix the number of underwater lights as indicated on the Specification Drawings. ~~The underwater lights shall be suitable for low voltage 12 or 24 volt 50Hz operation. Light housing shall be of heavy gauge spun copper or stainless steel held in place to the face rim by means of a cast brass back-up ring. Face rim shall be of high polish chrome plate encircled with a one piece moulded rubber gasket to ensure a water tight seal. Light units shall be held in place by means of a positive locking screw and shall have interior electrical connections epoxy capsulate. The light shall include a 3 wire waterproof cord of the specified length and forming shell with 20mm I.P.S. conduit connection. All other necessary accessories shall be included in this Tender and the installation to conform with Local Authority requirements.~~

The underwater lights shall be either 12V or 24V halogen or LED lights. It shall be constructed entirely of 316 grade stainless steel, IP68 rating complete with a niche for recessed flush mounting with the swimming pool wall. The cover screws shall be Teflon coated or made of rust free material. A magnetic transformer shall be provided to step-down the mains voltage to the operating voltage of the lamp to comply with code requirements. LED lights where provided shall be provided with constant current LED drivers so that the lumen output of the light will not be compromised.

All light fittings shall be provided with 3m of underwater cord so that the light can be brought up to the pool deck for lamp replacement.

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