

**SPECIFICATION  
FOR THE**

**UPGRADE OF GREENHOUSE TUNNELS 2 & 3**

**AT**

**CEDARA CAMPUS**

**RFQ FOR UPGRADE OF GREENHOUSE TUNNELS 2 & 3**

**at**

**ARC-PHP CEDARA CAMPUS**

**TUNNEL 2** MEASURING 30 METRES LONG AND 8 METRES WIDE, **TUNNEL 3** MEASURING 21 METRES LONG AND 10 METRES WIDE. BOTH TUNNELS HAVE THE SAME SPECTRUM OF WORK TO BE CARRIED OUT UNLESS OTHERWISE STATED.

Please see attached **ANNEXURE A** FOR A DETAILED COSTING METHOD TO BE DISPLAYED. An itemized pricing is to be given on the work to be carried out on Annexure A and if any additional elements are inserted and itemized, pricing is to be given together with the reasoning that such an item is to be added or subtracted from overall pricing. **ANNEXURE B** lists the SPECIFICATIONS AND PROCEDURES FOR THE CONCRETE WORKS ONLY.

A SITE MEETING IS REQUIRED TO ENSURE ACCURACY OF WORK TO BE CARRIED OUT. Any subtraction or addition of the above points shall be agreed upon, retyped there and then, and shall be deemed to be the new points of deliverable items, and a copy of any changes shall be given to each contractor once the attendance register is signed at the end of the site meeting.

**ANNEXURE B**

**CONCRETE WORK**

Work to be carried out pertaining to concrete work for both **greenhouse tunnels** which shall include the following:

Concrete works for **Tunnel 2** (30 x 8 metres) and **Tunnel 3** (21 x 10 metres plus 10sqm walkway).

Area: ±460sqm

Procedure and specifications required:

* Prepare existing floor for new concrete i.e. remove existing vegetation growth, scarify existing floor to form new bond, wash surface, drill and insert level dowels to new 70mm water flow fall over 8 metres (tunnel 2) and 10 metres (tunnel 3), shutter concrete around tunnels.
* Supply and fit 53 metres of plastic drains.
* Level, compact and shutter for walkway.
* Supply and apply Bonding agent for new concrete bond.
* Supply and lay 38 sheets of reference 100 reinforced mesh.
* Supply 30 mpa Readymix concrete @120mm thick at the highest point falling to 50mm thick at the lowest point for a 70mm fall for water flow.
* Aprons 500mm wide @70mm thick 110sqm.
* Discharge type-barrow concrete into tunnels.
* Place concrete.
* Vibrate concrete.
* Strike-off.
* Powerfloat concrete.
* Saw-cut expansion joints.
* Ream and seal expansion joints (backing cord and polyurethane sealer), to prevent vegetation growth due to water seepage as shown in existing concrete.

All Plant, Labour and Material.

See Annexure A for guideline pricing.