



PERIMETER FENCE UPGRADE EAST LONDON

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1. INTRODUCTION

- 1.1 The SABS requested the supply and installation of a concrete palisade fence as per specifications.
- 1.2 The SABS prefers a supplier based in either East London or PE.
- 1.3 Work to be conducted at the SABS branch in East London.
- 1.4 When planning installation of a new or replacement of an existing perimeter/ boundary wall it is compulsory to ensure consideration is taken of the National Building Regulations and Building Standards Act no 103 of 1977 and the latest applicable SANS standards, with all relevant by-laws for the city within which the premises are located.
- 1.5 Where applicable, SABS approved material must be used. Proof needs to be submitted as part of the response
- 1.6 Engineering certificates (where applicable), will be submitted as part of the response.
- 1.7 No payment will be done until the installations are tested, approved and signed off.

2. CONCRETE PALISADE

2.1 Ideally the boundary wall will be constructed to the height of 2.4 meters, to the following basic specifications:-

- 2.1.1 Length new fence = **790 m** – Suppliers to measure during the briefing session.
- 2.1.2 Pales must be at least 100mm wide on the inner facing surface with an outer surface of at least 80mm and a depth of 70mm.
- 2.1.3 The Posts be at least 150mm wide on the inner facing surface with an outer surface of at least 80mm and a depth of 70mm.
- 2.1.4 The Posts should be spaced no more than 2m apart and be mounted into a foundation.
- 2.1.5 There should be at least two crossbars, which should be at least 75mm by 150mm with 10mm holes for mounting of the Pales
- 2.1.6 Bolts must be of **stainless steel material** and sized as per manufacturer specifications.
- 2.1.7 The foundation for each Post should be at least 500mm x 500mm and 600mm deep to ensure effective anchoring of the posts.
- 2.1.8 Foundation and Foundation concrete must be in line with the latest SANS standards
- 2.1.9 The distance between Pales should be no more than 90mm
- 2.1.10 **REINFORCEMENT:** All steel used for reinforcements in prefabricated elements shall be high yield steel with a minimum characteristic strength of 410 Mpa, and shall be free of rust, loose scale, flux, grease, or oil substances and shall in general comply with SABS 920 and BS 4482.
- 2.1.11 **PRESTRESSING STEEL:** All wires shall be of the crimped variety and shall be free of rust, loose scale, flux, grease, or oil substances and shall in general comply with BS 5896.
- 2.1.12 **PERFORMANCE REQUIREMENTS (STRENGTH):** The required concrete compressive strength in all prefabricated prestressed elements shall be a minimum of 40 Mpa at 28 days, determined in accordance with the SABS method 863.
- 2.1.13 **CURING:** All concrete elements shall be cured in accordance with the recommendations given in SABS method 863.
- 2.1.14 Detailed installation specifications must be submitted as part of the vendor response.
- 2.1.15 The supplier **MUST** provide evidence of compliance with the specifications.

3. CLEANING OF VEGETATION

3.1 All vegetation along the perimeter fence will be cut to a maximum height of 5cm

- 3.1.1 3 meters of the new perimeter fence inside must be cleared.

- 3.1.2 3 meters of the outside of the new perimeter fence must be cleared.
- 3.1.3 Total length 790 M.
- 3.2 In an area of 161 meters x 335 metres (approximately 53 935 square meters), the following work must be done:
 - 3.2.1 Grass must be cut to the length of 5 cm.
 - 3.2.2 All shrubs must be removed from this area.
 - 3.2.3 All tree stems must be cleared of any leaves to the minimum height of 1.5 meters from ground level.
 - 3.2.4 All rubble must be removed from this area.
- 3.3 Building rubble and other waste material at the dead-end of "airport bypass road" to the eastern part of the property must be removed.
- 3.4 All material will be disposed of in line with council regulations.
- 3.5 Appropriated weed killer must be sprayed, 500mm on the inside and 500mm on the outside.
 - 3.5.1 Only certified technicians to be used for this function
 - 3.5.2 All the relevant certificates to be issued.