



PART C4: SITE INFORMATION

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DESCRIPTION OF THE SERVICES: FOR THE PROVISION OF SPECIALIST CONSULTING SERVICES FOR THE FUEL IMPORT TERMINAL PROJECT FOR THE CONCEPT AND PREFEASIBILITY PHASE FOR TRANSNET PIPELINES

C4.1 SITE INFORMATION

Location

The TFIT site is located within the Island View complex at Durban harbour.

Below is an aerial photo of the Lot 108 and 109 site within the Cutler Complex. The Contractor will enter and exit site from the "Hatch Gate" shown in the aerial photo below.



C4.2 WEATHER RECORDS

Air Temperature

Mechanical Design Basis of equipment Ambient Temperature (dry bulb)	min. 0 °C	max. 40 °C
Design Basis of air conditioning / ventilation Outdoor temperature Indoor temperature Relative humidity (for design)	Summer 35 °C 25 °C 90%	Winter 5 °C 20 °C 50%
Design Basis of:	min	max



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Tanks	0 °C	65 °C
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Rainfall

Month	Average Number of days with $\geq 1\text{mm}$	Average (mm)	24 h max (mm)
January	15	134	110
February	13	113	197
March	13	120	160
April	9	73	106
May	7	59	111
June	5	28	109
July	5	39	69
August	7	62	91
September	11	73	132
October	15	98	105
November	16	108	94
December	15	102	163
Year	121	1009	197

Maximum rainfall in 24 hours	:	197 mm
Monthly average rainfall	:	85 mm
Annual average / maximum rainfall	:	1 009 mm / 1 284 mm
Season average (summer) Sept - Mar	:	106 mm/month

Wind

SANS 10160 Wind load

Design wind velocity (at a height of + 14.00 m) : 44 m/s

Design wind pressure is specific to a particular equipment or building (refer to parameters used in design wind pressure calculations).

Barometric Pressure

Max. barometric pressure : 1 025 mbar a



Min. barometric pressure	:	1 010 mbar a
Design barometric pressure	:	1 017 mbar a

Seismic Factor

Not in seismic zone.

Other Data

Air has to be considered as corrosive and saline.

Sea atmosphere to be considered.

Sandy storms do not occur.

Thunder and Lightning to be considered.

Tropicalisation prevails.

Lighting

This will be done according to the Electrical Design Criteria, and the requirements of TPL Specification PL727

Site Elevation

Site elevation (above sea level)	:	3.18 m
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Soil Conditions

The geological formation dominating the Island View and surrounding areas comprises Quaternary age Harbour Beds deposited in an estuarine and lagoonal type environment.

Thick beds of dark grey, soft, normally consolidated silty clay are intercalated with fine to medium grained silty sands. Under the Maydon Wharf, Island View, Bayhead and Jacobs areas these dark grey clays, locally termed the "Black Mud Stratum", thicken significantly.

The layer may vary considerably in thickness (possibly due to presence of buried channels in the underlying Cretaceous bedrock) or may be absent altogether. Depth to bedrock may vary from 14m to 40m below existing ground level.