

# Construction Schedule

Activities

Planning and preparation

Tenders

Civil works (increase in seating capacity)

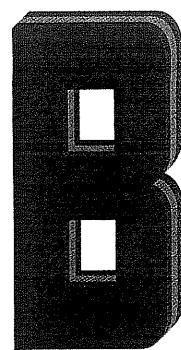
Building work (ablutions/catering/etc.)

Media requirements

Floodlights

General renovations

Johannesburg Ellis Park Stadium

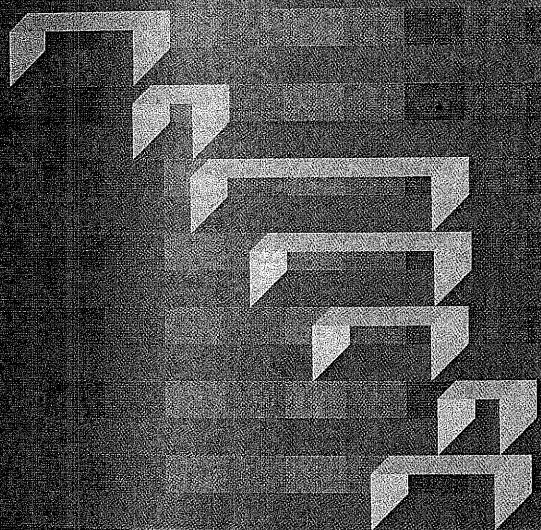


2004

2005

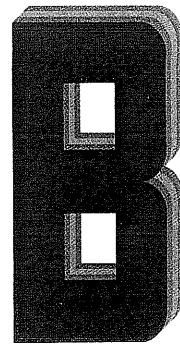
2006

2007



# Durban Kings Park Stadium





## Durban Kings Park Stadium

<b>Name of the Stadium</b>	<b>Kings Park Stadium</b>
<b>City</b>	<b>Durban</b>
<b>Owner</b>	<b>Natal Sharks (Pty.) Ltd.</b>
<b>Completion of construction</b>	<b>September 2007</b>
<b>Location</b>	<b>Durban North</b>
<b>Total lot size</b>	<b>42,000m<sup>2</sup></b>
<b>Number of levels</b>	<b>7</b>
<b>Seating capacity</b>	<b>60,000</b>

- B.3.1** Area Plan
- B.3.2** Ground Plan Level 1
- B.3.3** Ground Plan Level 2
- B.3.4** Ground Plan Level 3
- B.3.5** Ground Plan Level 4
- B.3.6** Ground Plan Level 5
- B.3.7** Ground Plan Level 6
- B.3.8** Ground Plan Level 7
- B.3.9** Stadium Section
- B.3.10** FIFA Questionnaire
- B.3.11** Declaration of Undertaking
- B.3.12** Safety Certificate
- B.3.13** Construction Schedule

## UPGRADING

Kings Park Stadium is the central focus of the primary sporting and recreational node of Durban, the biggest city in Kwa-Zulu Natal. It is located approximately 6 kilometres north-east of the Durban city centre and is serviced by road and rail.

The precinct also incorporates a field and track Stadium, archery, bowls and horse-riding facilities and a number of secondary football and rugby fields. An international cricket Stadium is also in close proximity to the precinct. A primary rail link abuts the entire north-western side of the inner perimeter of the Stadium.

The north and south stands will be upgraded to accommodate the additional spectators to bring the capacity to the required 60,000.

## TECHNICAL DESCRIPTION OF PROPOSED MEASURES

The following upgrades will be undertaken:

- ◆ Two new video display boards in northern and southern stands;
- ◆ Four dual line electronic scoreboards;
- ◆ The existing floodlight installation to 1,500 lux;
- ◆ The existing public address sound system; and
- ◆ The existing CCTV system.

## TECHNICAL AND ADMINISTRATIVE FACILITIES

The new venue operations centre will be situated on the same level as the technical control centre where the Stadium public address announcer, scoreboard operator, video replay screen producer and technical assistants will be seated.

## VIP AREAS

Specially secure and comfortable presidential suites and lounges are available for 500 VIPs and guests of honour ensuring the best service. The Presidential Suite, Tekweni Club Lounge and Umgeni Lounge are the Stadium's 3 principle VIP areas. Toilets and sanitary facilities are in the direct vicinity.

## CORPORATE/SPONSOR HOSPITALITY

There are 350 corporate hospitality suites that view the playing field and seat up to 8,400 guests. The function room in the Stadium can accommodate 150 seated guests.

## CORPORATE HOSPITALITY/SPONSOR VILLAGE

The hospitality areas for both corporate and sponsor villages are in the direct vicinity of the Stadium and can accommodate up to 6,000 guests.

## MEDIA AREAS

The Stadium will be able to accommodate the required number of Media representatives.

This will include for the following:

### Written Media:

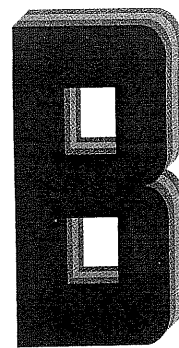
Desks/observer seats	2,000
Tribune photographers	100

### TV and Radio:

TV/radio positions	400
TV observer seats	150
Radio observer seats	200

All the above will be accommodated on the upper tier of the western stand.

The various studios will be constructed on the third level of the western grand stand.



## SECURITY

The existing layout of the outer precincts of the Stadium lends itself to the creation of an extensive secured application of the concentric rings of security theory which will be applied to Kings Park Stadium during the 2010 FIFA World Cup™.

The Stadium currently possesses a significant secured inner and a fenced outer perimeter. A three perimeter football spectator filtering and screening system is currently applied, in part, at the Stadium and within its precincts on match days.

There is an upgrade planned for the current concrete palisade inner perimeter and wire fence outer perimeter of the Stadium. The positioning of the temporary middle perimeter, secured by rigid 2.0 meter high steel fencing on match days, which is currently used to screen spectators, on the southern side of the Stadium, will be relocated and will be extended to include the entire circumference of the Stadium.

The waist high outer perimeter wire fence will be upgraded into a higher permanent barrier which will extend to the outer main arterial ring roads which service the precinct. The current inner perimeter will be upgraded to incorporate four banks of zoned electronic spectator and accreditation verification turnstiles, totalling approximately 70 in number.

Each spectator and accredited person is individually processed at the turnstiles. Two banks will be located on the eastern inner perimeter with one each on the northern and southern side of the Stadium.

The outer perimeter demarcating the traffic warning zone will range in distance between 300 -

400 meters from the Stadium and will be used to filter pedestrian and vehicular transported match ticket and accreditation holders from the general public.

The secured middle perimeter, demarcating the commencement of the traffic-free zone, ranging in distance between 100 - 200 meters from the inner perimeter of the Stadium, will comprise a minimum of seven primary spectator search points equipped with walk-through and hand-held magnetometers where strict screening for prohibited and restricted items will take place. A further visual match ticket check will take place at this point.

A secured VIP and service vehicle screening area ('remote search park') manned by State security services, equipped with magnetometers, X-ray machines and bomb detection and disposal equipment will also be located at an identified location, west of the Stadium, just inside the traffic warning zone.

Generic, clear and visible Stadium layout ('You are here'), restricted item and match ticket condition signage will be erected throughout the entire precinct within all three perimeters.

The general spectator viewing areas of Kings Park will be divided into four well secured quadrants ('zones'), which will be separated by a FIFA approved crowd control barrier. A temporary physical field perimeter security system comprised of a collapsible rigid wire fence is currently used on match days. There are plans to erect a new permanent, aesthetically pleasing field perimeter security system, which will meet FIFA safety specifications, prior to the event.

A physically secured participating player and match official field of play access route is already in place.

The Stadium's current venue operations centre, from where the safety and security operations at the Stadium are currently directed, will be relocated to the southeastern corner of the inner bowl of the Stadium. It will be upgraded into a world class facility, which will direct the entire on-site safety and security operation, on a 24-hour basis, throughout the tournament.

The venue operations centre will be equipped with the current digital control system of the Stadium and Stadium precinct's CCTV surveillance and recording system, computer equipment and peripherals, computer linked projector, electronic public address cut-in, dedicated multiple telecommunications lines and real-time data links to the electronic ticket/accreditation verification system and links to the Durban Metro disaster management centre.

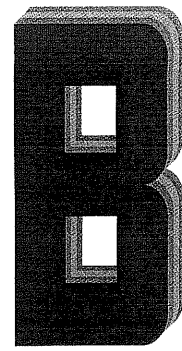
Kings Park currently possesses a modern 19 camera, 8 colour monitor, single controller, digital surveillance and recording system which monitors the entire perimeter of the Stadium and certain access routes to the Stadium. 4 of the 19 cameras have pan, tilt and zoom capabilities. The system will be upgraded to cover the entire precinct and all primary pedestrian and vehicular access routes to the Stadium.

The seven spectator search points will be an area of particular focus. The number of cameras will be increased by a minimum of 13, the number of monitors by 2 and the number of remote-controllers by 4. The system will have a real-time video/audio link to the Durban Metro disaster management centre.

Finally biometric face recognition software will be loaded and integrated into the Stadium's planned CCTV system to enhance the proactive surveillance capabilities of the safety and security personnel.

Each checkpoint will have an electronic ticket and monitoring system ensuring that only spectators entitled to admission can pass through.

After modernisation, the entire Stadium and its immediate surroundings will be monitored by remote-controlled cameras. Eight cameras will be placed inside the Stadium and 25 cameras will be placed outside the Stadium in order to monitor the surrounding areas. These cameras will be operated from and monitored by the security and police operations centre. Selected frames can be printed. All games will be recorded on tape and will be stored in an archive system.



## Durban Kings Park Stadium

### STADIUM EQUIPMENT

#### Public Address Sound System

After modernisation the Kings Park Stadium will be equipped with a distributed, zoned public address system for all public address announcements including voice evacuation. It will be possible to select individual and/or combinations of zones. Master control units will be installed in the Stadium managers' office, the technical operation centre and the venue operations centre.

The master control unit in the venue operations centre will take priority at all times enabling non-delayed over-ride. To ensure uninterrupted operation, the master control unit will be placed on an uninterrupted power supply.

The public address system will be linked to the broadcast compound area as well as the video replay screen to enable both the audio and visual aspect of flash/field interviews and advertisements. The public address sound system will also cover the gating perimeter of the Stadium.

#### Electronic Scoreboard and Video Replay Screen

As part of the upgrading, Kings Park Stadium will be equipped with two new combination high-resolution LED video replay screens and LED full matrix information boards. These boards will be utilised as a real time multimedia communication system, displaying text, graphics and video material. Team details, player profiles, electronic advertising videos, match replay action, highlight packages of previous matches and safety and security information will be some of the information relayed to the spectators. In addition four

dual line LED scoreboards will be installed to cover the match score. The new installation will also include the software and all video production equipment. The production team and technical assistants will be situated in the technical operation centre.

#### Floodlights

The floodlighting system will be upgraded to a light intensity of 1,500 lux.

#### Emergency Power

Kings Park Stadium will be equipped with a distributed emergency power system in order to ensure that all essential systems will remain functional in the event of a power failure. Essential systems include the venue operations centre, the technical operations centre, the fire detection and protection systems, security and access control systems, voice evacuation systems, closed circuit video surveillance systems, floodlighting system and general emergency lighting for safe evacuation purposes.

### PUBLIC CONVENIENCES/REFRESHMENT STALLS/FIRST AID POSTS

The public conveniences and concessions facilities will be upgraded to conform to the highest standards of international best practice.

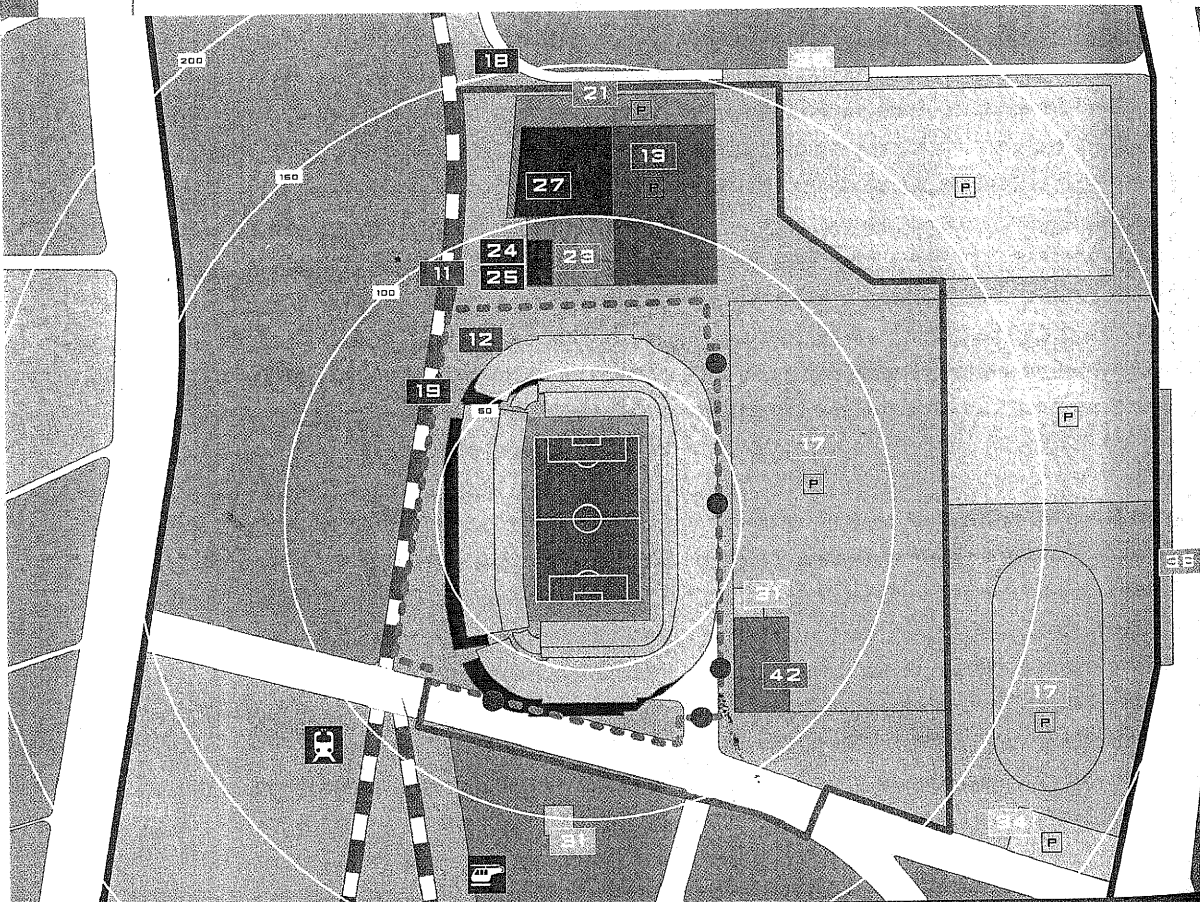
#### FINANCING

The total cost of upgrading Kings Park Stadium is CHF 22.4m (USD 8.6m); and the South African Football Association has undertaken to fund this project.





- |           |                               |           |                              |
|-----------|-------------------------------|-----------|------------------------------|
| <b>11</b> | Drop-off                      | <b>21</b> | Parking                      |
| <b>12</b> | Entrance                      | <b>23</b> | Media workroom               |
| <b>13</b> | Parking                       | <b>24</b> | Photographer workroom        |
| <b>17</b> | Corporate/sponsor hospitality | <b>25</b> | Dark room                    |
| <b>18</b> | Drop-off                      | <b>27</b> | Broadcast compound           |
| <b>19</b> | Entrance                      |           | Medical                      |
|           |                               |           | Parking                      |
|           |                               |           | Transportation drop-off zone |
|           |                               | <b>42</b> | Emergency vehicle pool       |

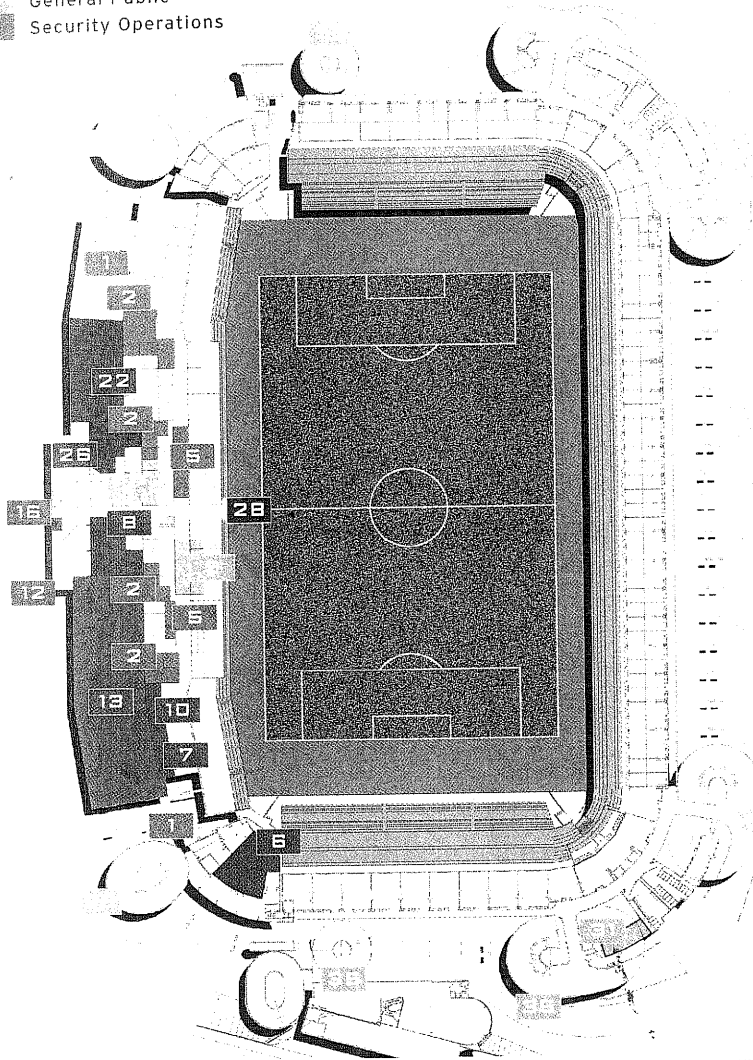
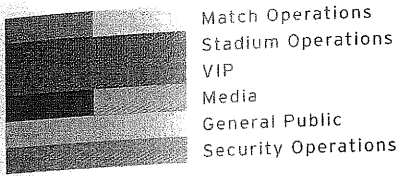


NOTE: MATCH OPERATIONS STADIUM OPERATIONS VIP MEDIA GENERAL PUBLIC SECURITY OPERATIONS

- Internal perimeter (turnstiles)
- Middle perimeter (search points)
- Outer perimeter (traffic warning zone)
- Security gates

- Match Operations
- Stadium Operations
- VIP
- Media
- General Public
- Security Operations






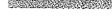
## Queen's Park Stadium

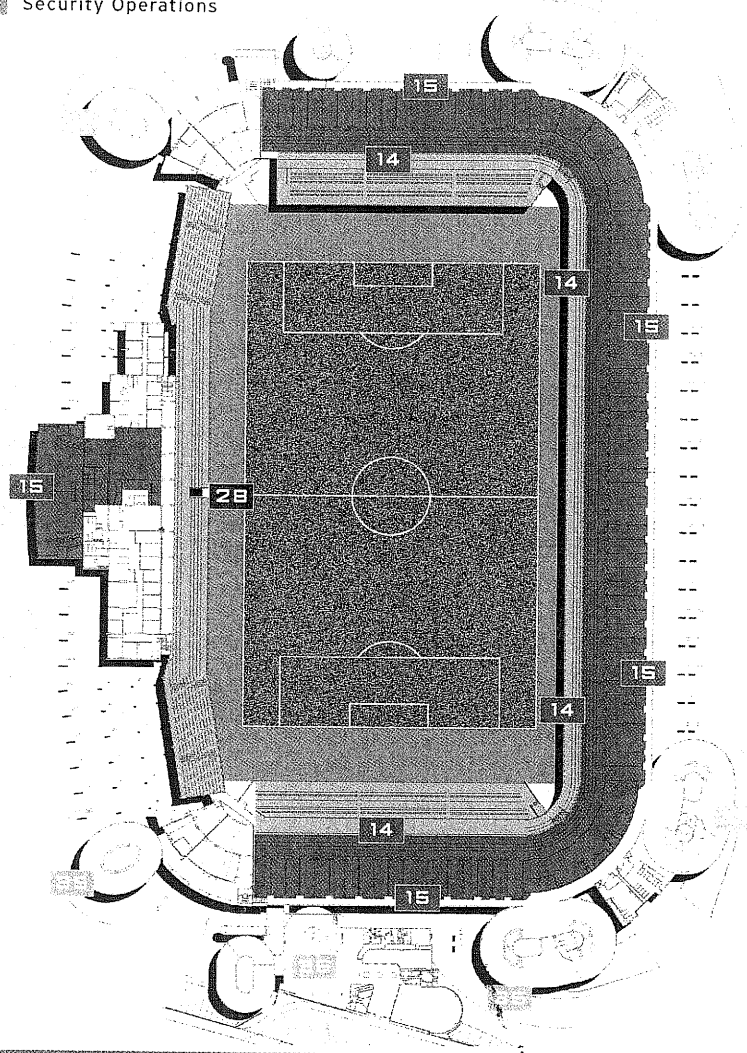


### LEVEL 1





- 1 Team entrances
- 2 Team dressing rooms
- 3 Medical care centre
- 4 Doping control room
- 5 Match official dressing room
- 6 FIFA administration rooms
- 7 Meeting room
- 8 Stadium management office
- 10 Storage room

- 12 Entrance
- 13 Parking
- 18 Elevator
- 22 Mixed zone
- 28 Interview room
- 28 Flash interview area
- Medical
- Public entrances







-  Match Operations
-  Stadium Operations
-  VIP
-  Media
-  General Public
-  Security Operations

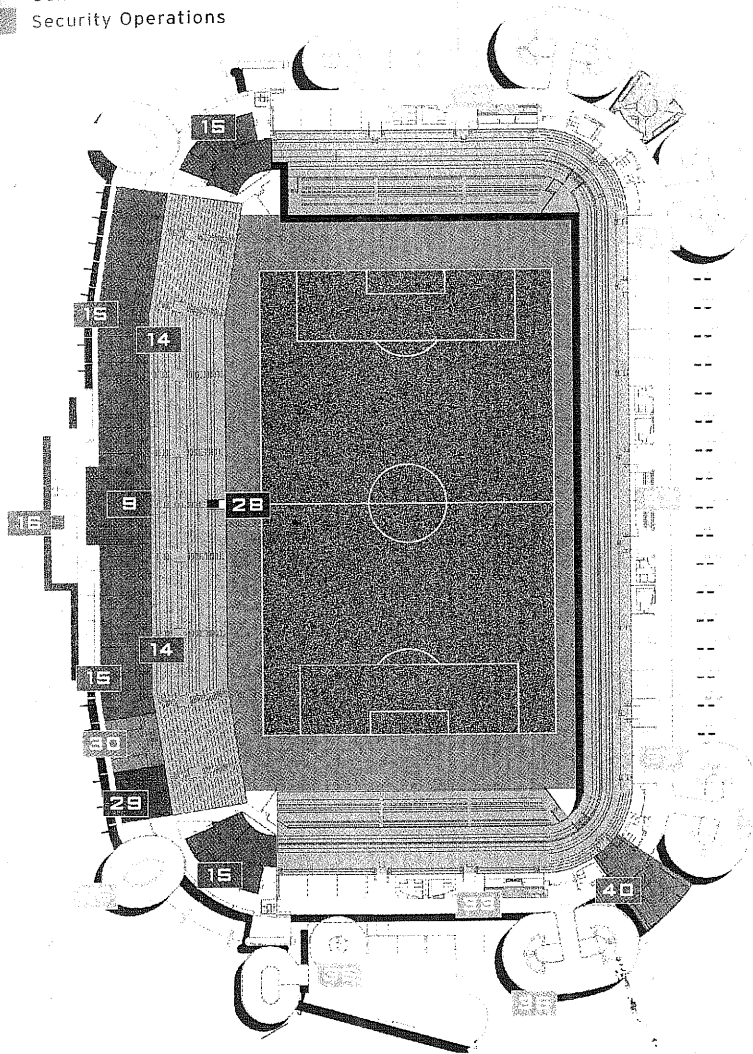


## LEVEL 2

-  14 Seating
-  15 Hospitality
-  2B Flash interview area
-  2B Public entrances







## Jordan Kings Park Stadium

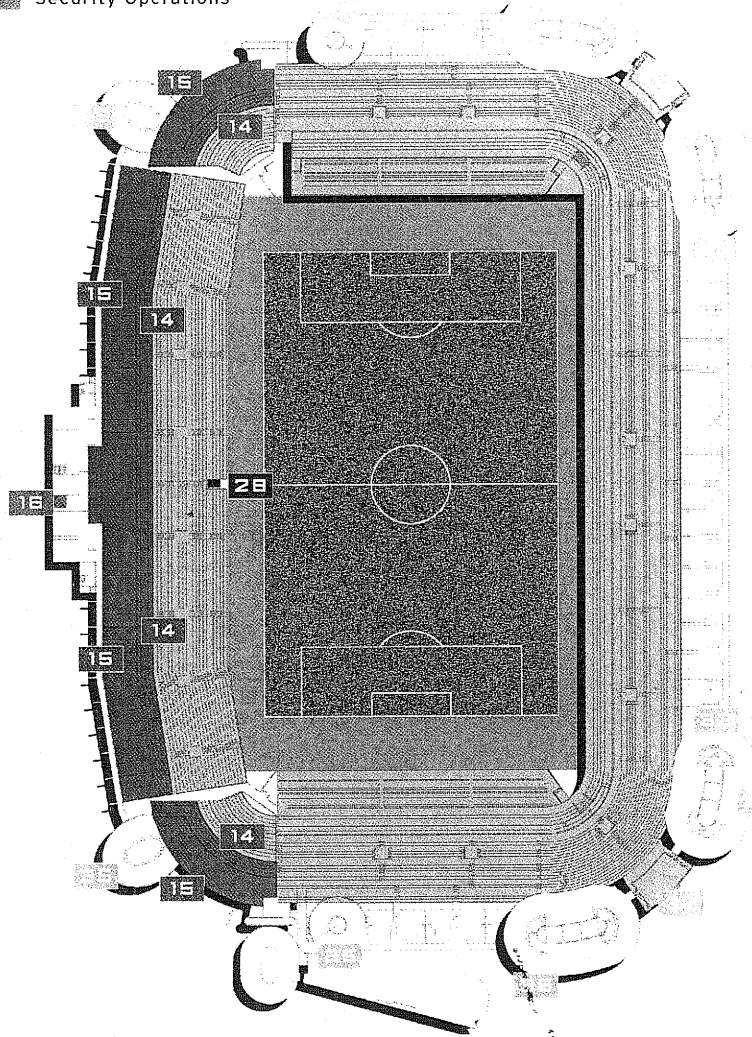
-  Match Operations
-  Stadium Operations
-  VIP
-  Media
-  General Public
-  Security Operations



### LEVEL 3







- 8** World Cup operations offices
- 14** Seating
- 15** Hospitality
- 16** Elevator
- 28** Flash interview area
- 29** Presentation studios
- 30** TV studios
- 35** Concessions
- 36** Public entrances
- 40** Venue operations centre

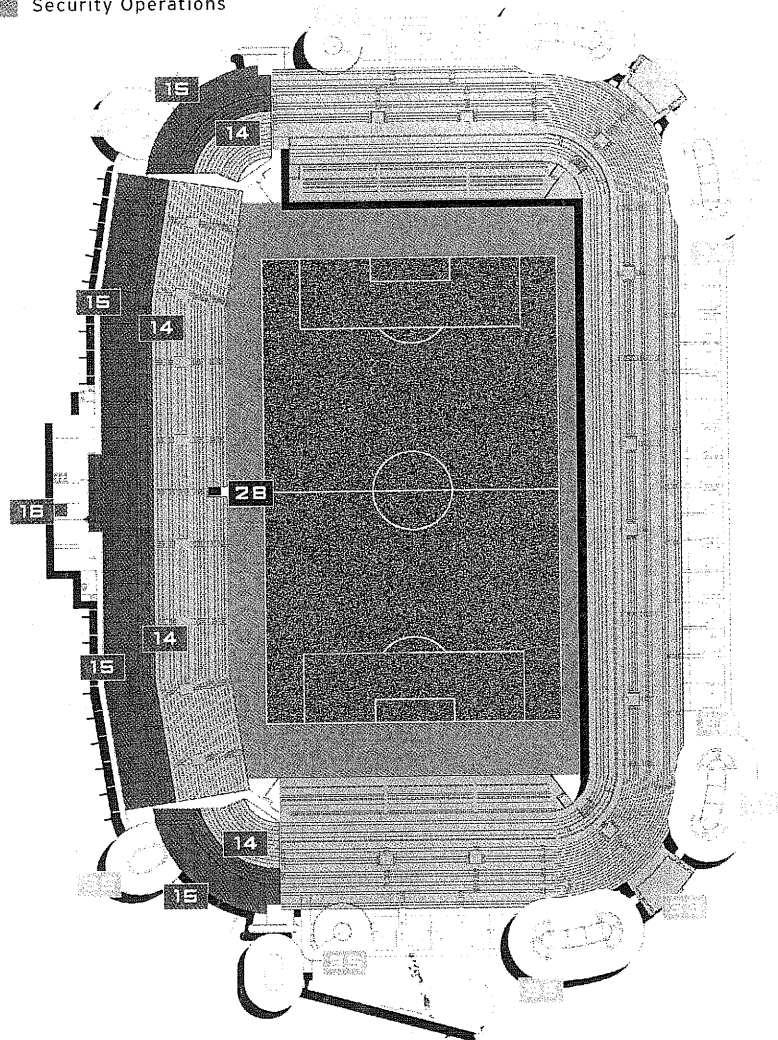
-  Match Operations
-  Stadium Operations
-  VIP
-  Media
-  General Public
-  Security Operations







## LEVEL 4

-  14 Seating
-  15 Hospitality
-  16 Elevator
-  2B Flash interview area
-  Concessions
-  Public entrances







-  Match Operations
-  Stadium Operations
-  VIP
-  Media
-  General Public
-  Security Operations

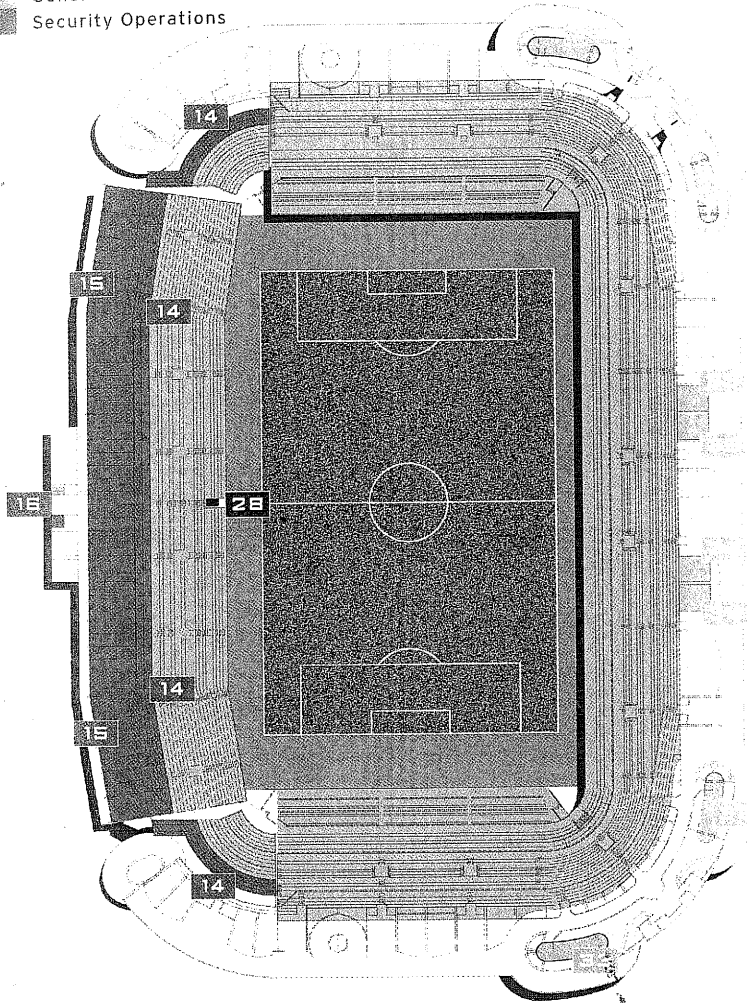


#### LEVEL 4






-  Seating
-  Hospitality
-  Elevator
-  Flash interview area
-  Concessions
-  Public entrances







## Durban Kings Park Stadium

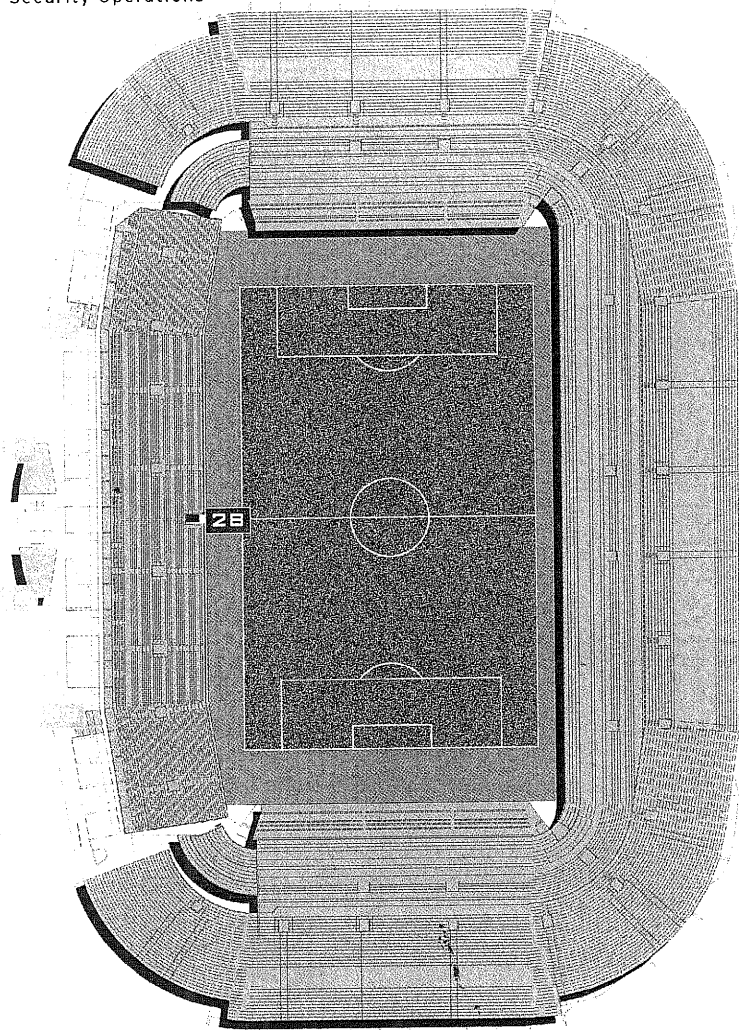
-  Match Operations
-  Stadium Operations
-  VIP
-  Media
-  General Public
-  Security Operations





### LEVEL 5

-  Seating
-  Hospitality
-  Elevator
-  Flash interview area
-  Concessions

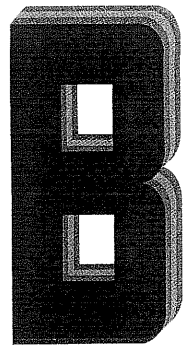
-  Match Operations
-  Stadium Operations
-  VIP
-  Media
-  General Public
-  Security Operations



**LEVEL 6**

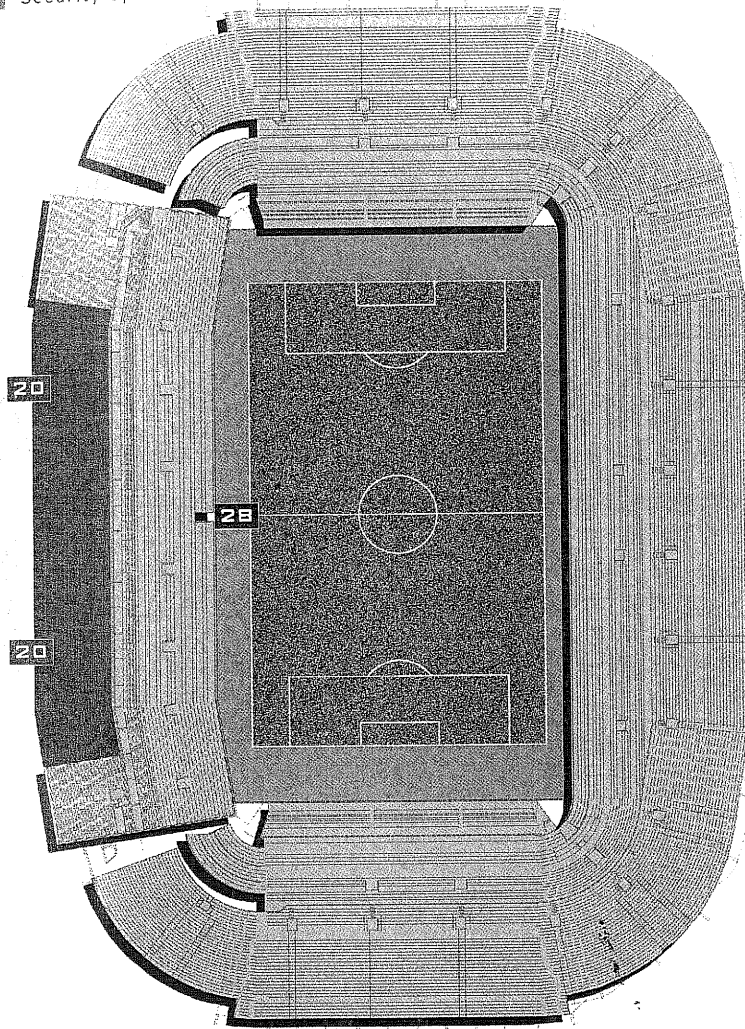
-  Flash interview area
-  Concessions





# Durban Kings Park Stadium

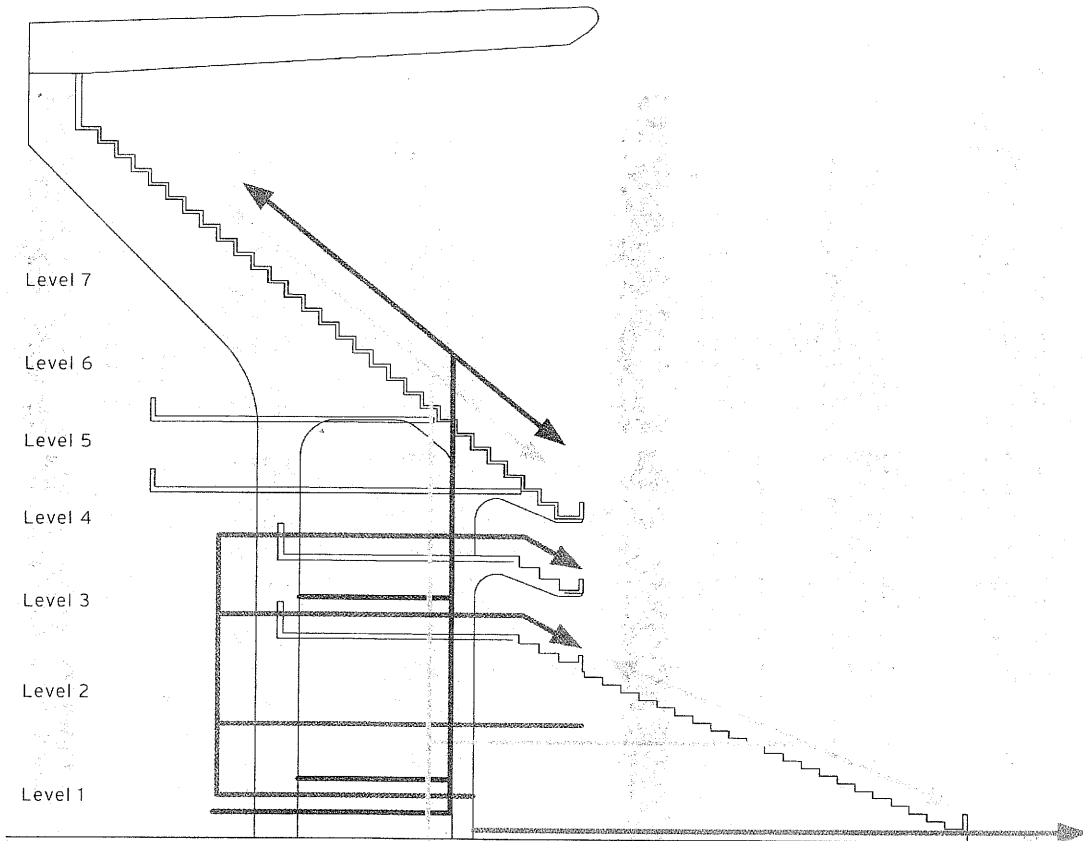
- Match Operations
- Stadium Operations
- VIP
- Media
- General Public
- Security Operations



## LEVEL 7

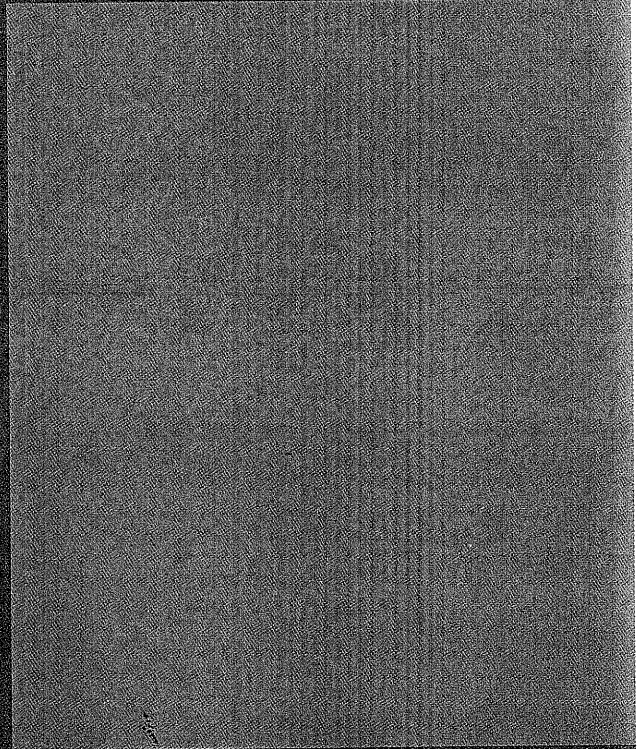
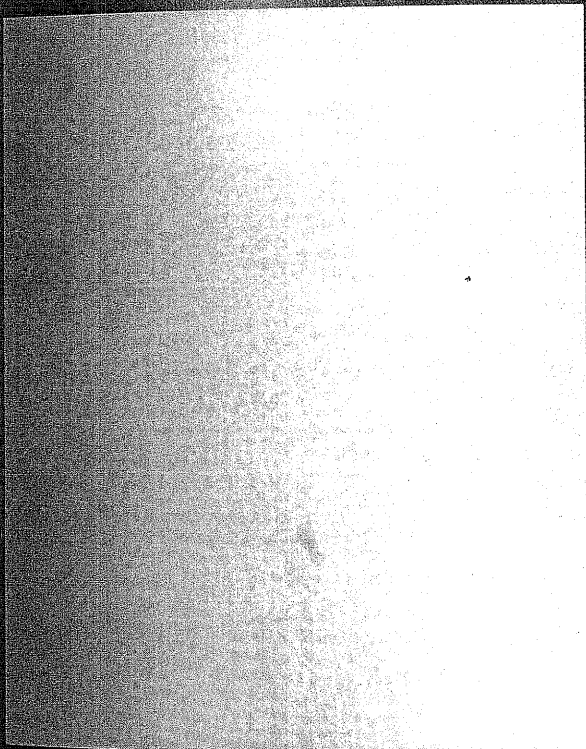
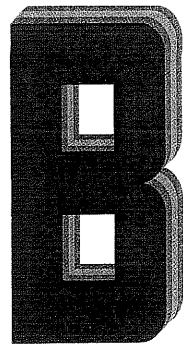
- 20 Seating
- 2B Flash interview area

VIP  
Media  
General Public



SECTION - WEST TRIBUNE

Durban Kings Park Stadium



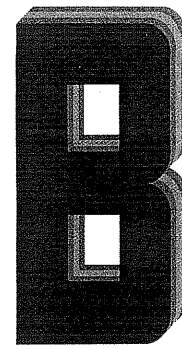
# Technical Description

## 1. The Stadium

Name	Kings Park Stadium	
City	Durban	
Number of inhabitants	3.1 million	
Owner	Natal Sharks (Pty.) Ltd.	
Name of club using the Stadium	Golden Arrows	
Contact person	P J van Zyl	
	Phone No	+27 31 308-8400
	Fax No	+27 31 312-9840
	E-mail Address	brian@natal-sharks.co.za
	Web-Site	www.sharksrugby.co.za

## 2. Distance and Duration of Journey by Car/Bus to the Stadium

From Durban International airport	29km	20min
From the team hotel	4km	6min
From the FIFA hotel	18km	20min
From the city centre	6km	8min



## Durban Kings Park Stadium

### 3. Capacity

Total number of seats	60,000
Number of seats under cover	22,886
VIP seats	500
Media representatives	3,650
Seats for disabled persons	100
VIP boxes	350
VIP reception area/lounge	900m <sup>2</sup>

### 4. Playing Surface

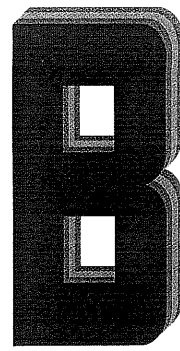
Dimensions of the playing surface	Length 105m, width 68m
Type of playing surface	Grass
Separation of spectators from playing field	Fence
Place for substitutes	Seating for 50 persons
Place for match officials	Seating for 4 persons
Substitute goals	Yes
Running track around field	No
Space between field of play and edge of spectator seating area	
♦ To goalline	15m
♦ To touchline	6m
Type of surface of space between field of play and edge of spectator seating area to the goalline	Grass

### 5. Technical Installations

Lighting lux power	1,500 lux
Reliable time-keeping system with a pertinent electronic scoreboard	Yes
Video capability on electronic scoreboard (giant screen)	Yes



CCTV installation (closed circuit television)	Yes	
Loudspeaker system	Yes	
Emergency generator	Yes	
<b>6. Team Facilities</b>		
Dressing rooms for players		4
Dressing Room No. 1		
◆ Size of dressing room		150m <sup>2</sup>
◆ Lockers	Yes	25
◆ Massage tables	Yes	3
◆ Power points	Yes	8
◆ Refrigerator	Yes	
◆ Number of showers		10
◆ Hot water	Yes	
◆ Number of toilets		3
◆ Toilets with seats	Yes	
◆ Air conditioning	Yes	
◆ Room for team technicians	Yes	30m <sup>2</sup>
◆ Room for kit managers	Yes	30m <sup>2</sup>
Dressing Room No. 2		
◆ Size of dressing room		150m <sup>2</sup>
◆ Lockers	Yes	25
◆ Massage tables	Yes	3
◆ Power points	Yes	8
◆ Refrigerator	Yes	
◆ Number of showers		10
◆ Hot water	Yes	



Durban Kings Park Stadium

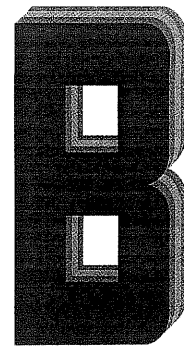
◆ Number of toilets	3
◆ Toilets with seats	Yes
◆ Air conditioning	Yes
◆ Room for team technicians	Yes 30m <sup>2</sup>
◆ Room for kit managers	Yes 30m <sup>2</sup>
Dressing Room No. 3	
◆ Size of dressing room	50m <sup>2</sup>
◆ Lockers	Yes 25
◆ Massage tables	Yes 1
◆ Power points	Yes 4
◆ Refrigerator	Yes
◆ Number of showers	4
◆ Hot water	Yes
◆ Number of toilets	2
◆ Toilets with seats	Yes
◆ Air conditioning	Yes
◆ Room for team technicians	No
◆ Room for kit managers	No
Dressing Room No. 4	
◆ Size of dressing room	50m <sup>2</sup>
◆ Lockers	Yes 25
◆ Massage tables	Yes 1
◆ Power points	Yes 4
◆ Refrigerator	Yes
◆ Number of showers	4
◆ Hot water	Yes
◆ Number of toilets	2
◆ Toilets with seats	Yes

◆ Air conditioning	Yes
◆ Room for team technicians	No
◆ Room for kit managers	No

### 7. Referees' Facilities

Dressing Rooms for Referees and Assistant Referees	2
Dressing Room No. 1	
◆ Size of dressing room	50m <sup>2</sup>
◆ Lockers	Yes 4
◆ Massage tables	Yes 1
◆ Power points	Yes 4
◆ Refrigerator	Yes
◆ Number of showers	2
◆ Hot water	Yes
◆ Number of toilets	1
◆ Toilets with seats	Yes
◆ Air conditioning	Yes
Dressing Room No. 2	
◆ Size of dressing room	50m <sup>2</sup>
◆ Lockers	Yes 4
◆ Massage tables	Yes 1
◆ Power points	Yes 4
◆ Refrigerator	Yes
◆ Number of showers	2
◆ Hot water	Yes
◆ Number of toilets	1
◆ Toilets with seats	Yes
◆ Air conditioning	Yes





## Durban Kings Park Stadium

### 8. FIFA Administration Rooms

Storeroom with direct access to the pitch	Yes	20m <sup>2</sup>
FIFA Office 1	Yes	16m <sup>2</sup>
FIFA Office 2	Yes	16m <sup>2</sup>
FIFA Office 3	Yes	16m <sup>2</sup>
FIFA Office 4	Yes	16m <sup>2</sup>
FIFA Office 5	Yes	16m <sup>2</sup>
FIFA Office 6	Yes	16m <sup>2</sup>
FIFA Office 7	Yes	16m <sup>2</sup>
Office infrastructure (tables/chairs/telephone/fax/copier)	Yes	
Meeting room for at least 25 people	Yes	

### 9. Medical Service

Facilities in the Stadium to give first aid to spectators	Yes	
Number of first aid posts		12
Equipment	Yes	
Location		On site
Infirmaries for teams/referees	Yes	86m <sup>2</sup>
◆ Examination bed	Yes	
◆ Wash basins	Yes	
◆ First aid kit	Yes	
◆ Air conditioning	Yes	
◆ Stretchers	Yes	15
Doping control room	Yes	40m <sup>2</sup>
◆ Number of toilets		2
◆ Number of showers		8

◆ Air conditioning	Yes
◆ Refrigerator	Yes
◆ Television	Yes

**10. Signposting in the Stadium (Coding and Signposting, etc. of the various sectors)**

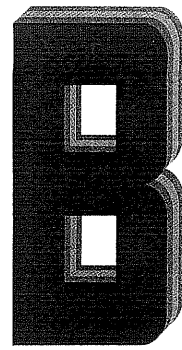
Sectors clearly indicated and segregated	Yes
Entrances, corridors, gangways and public amenities clearly signposted	Yes

**11. Telephone Installations**

Reliable telephone links with	
◆ Security service control post	Yes
◆ Room of the medical staff	Yes
◆ Ticket booth	Yes
◆ Ground staff room and Stadium announcer	Yes

**12. Safety Measures**

Video surveillance facilities	Yes
Number of cameras in total	33
◆ Number of cameras : inside area	8
◆ Number of cameras : adjacent area	25
Second security cordon before entrance	Yes
Exit doors inside playing surface	10



## Durban Kings Park Stadium

### 13. Security Forces and Fire Brigade

Central command post for the security forces and fire brigade

Yes

Security operational team

Yes

Emergency operational plan

Yes

### 14. Stadium Entrances

Number of gates

11

Number of turnstiles

70

Other means of access (type and number)

◆ Vehicular/emergency gates

11

### 15. Stadium Exits

Number and size proportionate to the capacity of the Stadium

Yes

Number of gates

11

### 16. Parking Space (with separate Entrances)

For team buses

◆ Location

South

◆ Distance from dressing rooms

50m

For referees' vehicles

◆ Location

South

◆ Distance from dressing rooms

50m

For the vehicles of officials and guests

◆ Location

Northeast

◆ Number

250

◆ Distance from VIP entrance

50 - 150m

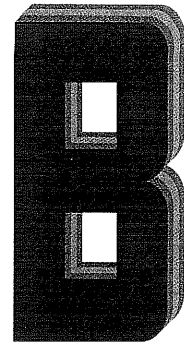
For Media vehicles	
◆ Location	North
◆ Number	200
◆ Distance from the Stadium	150m
For spectators' vehicles	
◆ Location	East and South
◆ Number	4,000
◆ Distance from the Stadium	150 - 500m
For police and security vehicles	
◆ Location	Southeast
◆ Number	10
◆ Distance from the Stadium	50m
For the ambulances	
◆ Location	Southeast
◆ Number	10
◆ Distance from the Stadium	50m

**17. Public Conveniences**

Sufficient public toilets available	Yes
Number of ladies' toilets	680
Number of gentlemen's toilets	600

**18. Refreshment Stands**

Number of stands (food)	18
Number of stands (drink)	12
Storeroom on each level	Yes 20m <sup>2</sup>



**19. Ticket Booths**

Number of ticket booths

18

**20. Media**

Media centre (equipment/phones/power points)

◆ Location

North Ground Level

◆ Size of Media centre

1,850m<sup>2</sup>

Mixed zone

◆ Location

West - Level 1

◆ Size of mixed zone

750m<sup>2</sup>

Television commentary cabins

◆ Location

West Upper Level

◆ Number of cabins

260

Radio commentary cabins

◆ Location

West Upper Level

◆ Number of cabins

140

Press seats

◆ Location

West - Level 7

◆ Number of seats

2,000

Press seats with desks/table tops

2,000

Seats equipped with power points/phone points

1,200

Storeroom

Yes

20m<sup>2</sup>

Number of offices

9/25m<sup>2</sup> each

Office infrastructure (tables/chairs/telephones/  
fax/copier)

Yes

Meeting room

Yes

Briefing room

Yes

### 21. Other Rooms in the Stadium on Pitch Level

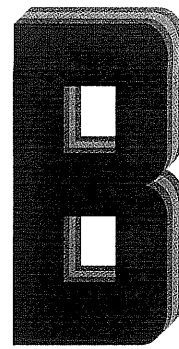
Storeroom with direct access to pitch (boards)	Yes	650m <sup>2</sup>
Rooms for FIFA's youth programme	Yes	25m <sup>2</sup>
Other Room 1	Yes	20m <sup>2</sup>
Other Room 2	Yes	20m <sup>2</sup>
Other Room 3	Yes	20m <sup>2</sup>
Other Room 4	Yes	20m <sup>2</sup>
Office infrastructure (tables/chairs/telephones/ fax/copier)	Yes	
Storeroom 1	Yes	50m <sup>2</sup>
Storeroom 2	Yes	50m <sup>2</sup>
Storeroom 3	Yes	50m <sup>2</sup>
Storeroom 4	Yes	50m <sup>2</sup>

### 22. VIP/Hospitality Area

VIP lounge 1	Yes	600m <sup>2</sup>
VIP lounge 2	Yes	490m <sup>2</sup>
VVIP lounge	Yes	215m <sup>2</sup>
Office 1	Yes	25m <sup>2</sup>
Office 2	Yes	25m <sup>2</sup>

### 23. Training Stadium

Dimensions of the playing surface	Length 105m, width 68m
Distance from the Stadium	15km
Distance from the team hotel	12km
Type of playing surface	Grass
Number of dressing rooms	4



## Durban Kings Park Stadium

Fixed/removable goals	Yes
Substitute goals	Yes
Separation of spectators/Media from field	Yes
Running track around field	No
<b>24. Other</b>	
Advertising inside Stadium	Yes
Flagpoles	Yes
Communication system in the Stadium	
◆ Head-set walkie-talkies	Yes
◆ Mobiles	Yes
Helipad	Yes
<b>25. Timetable</b>	
Detailed plans of the construction and/or renovations	Yes
Exact date of the completely functional Stadium	September 2007