



## IT'S GOT A RING TO IT DON'T DESTROY IT, RESTORE IT...

When it comes to repairing concrete structures, like road barriers, the modifying of bridges, structural rehabilitation of historical and modern structures, it is crucial to engage with a specialist Structural Rehabilitation contractor.

The inability to rehabilitate or destroy a structure in

the initial stages of the project is quite conceivable, you only have one chance in the restoration process.

One such contractor that can boast a meticulous track record is the Port Elizabeth based **IBHAYI CONTRACTING**.

Renowned for their structural rehabilitation, civil and renewable energy prowess, **IBHAYI** specialises in concrete repairs and cutting, coring and drilling, joint sealing, water proofing, epoxy self-leveling as well as coating general structural repairs and photo-voltaic / solar construction. 



*Strengthening of Kaaimans bridge Road Barrier.*



*Ibhayi on site Cutting.*



*Ibhayi on site Coring.*



*Ibhayi Water Proofing.*



*Concrete Rehabilitation.*



*Ibhayi Epoxy Coating.*



# THE FUTURE OUTLOOK

**IBHAYI CONTRACTING** was established by Vernon Maybery and Tisman Tabeka in 1996. A few years later brothers Glen and Craig Maybery took ownership, both having diplomas, one in Building Surveying and the other in Construction Supervision respectively.

They were joined by Tseli Maliehe in 2006 who has a Bachelor of Engineering with Honours and a MSc Civil Engineering Degree. The trio have a philosophy of *hands on* in their business, which has contributed to their success, being awarded many complex restoration contracts, both nationally and locally in the Eastern Cape.

The development of Renewable Energy sites, in the Karoo at Kalkbult, Linde and Dreunberg in the Eastern Cape puts **IBHAYI** in league of their own. Their highly skilled project teams have been hand picked to ensure the successful completion of projects on time. 



*Dreunberg Solar Farm nearing completion.*



*Ibhayi leaders in Solar technology – a job well done!*



*Kalkbult Solar Farm - a massive footprint 312,584 panels covering 135 hectares.*

## Our working hands

When it comes to the repair and rehabilitation of the countries essential infrastructure like roads, bridges, dams, modern and historical structures – **IBHAYI** can boast just a little..... they are on the move, ensuring everything comes together.

Recent repair work to the Van der Kloof and Gariep

dams, on the Orange river where the flood gates levels were raised won them a Fulton gold award. The widening and lifting of the Sunday's River bridge on the N2 highway close to Colchester, near Port Elizabeth saw the bridge hydraulically lifted to a record 2.3 meters, well above the predicted flood water level. 



*The 80 metre high Gariep dam that holds back the mighty Orange River, with its 914 meter long doubleway road running on top of the structure.*



*Ibhayi engineers inspect the strengthening beams under the road at Gariiep dam.*

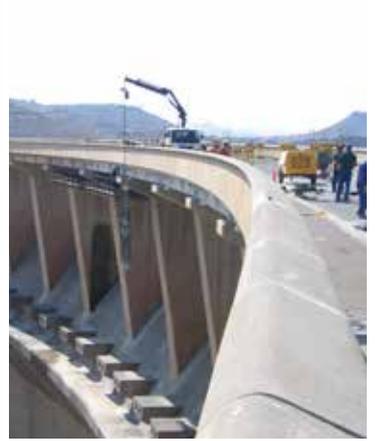
**Numerous other structural repairs have been awarded to IBHAYI, like the Bushmans and Swartkops River bridges which were widened**



*Ibhayi in the process of bridge jacking.*



*Scaffolding in place, in preparation to jack up the bridge.*



*Crane lowers steel bracing into position.*



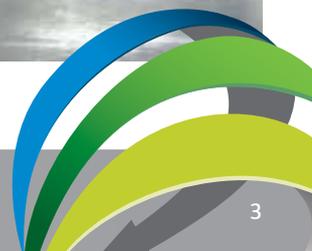
*Contractors work the underside of the Bushmans River bridge.*



*Bridge jacking at the Bushmans River outside Port Elizabeth.*



*Scaffolding in place, in preparation to jack up the bridge.*



# Restoration of the Campanile

One of the most challenging restoration projects that companies tendered for was the contract to completely restore the 52 metre high iconic Campanile, by Mandela Bay Development Agency (MBDA)

Interestingly the design of the Campanile was approved in early March 1922, this tall slim 170 foot tower has a footprint of 23 feet square. The red brick work was precisionally laid, with the tower having 8 floor levels and at the top an observation floor, at a height of 136 feet.

The tower also has decorative windows at different levels, which are enhanced by precast concrete grilles and a belfry that would eventually house the carillon of 23 bells, with support columns and capping the structure, a pyramid shaped tiled roof.

The Campanile was completed in late 1923, a unique monument built to acknowledge the British Settlers landing in Algoa Bay in 1820. But it was only in 1936 when enough funds had been raised by descendants of the Settlers and

the City Council, that the bells were hoisted into the belfry to form one of the largest and finest carillon of bells in the world.

The 23 bells, that weigh over 16 tons, each have the names of 23 families that raised the funds, embossed on them – there names also appears on a brass plate at the ground level reception area.



*Family names embossed on the bells.*



*The largest bell being installed.*

Over the next 75 years the Bells rang out over the Bay, but air pollution soon took its toll, the steam trains and ships operating in close proximity to the Campanile's open belfry, where the bells are housed slowly deteriorated. Layers of thick black carbon built-up on the bells surfaces causing them to loose there crisp resounding ring.

The carillon structure rusted and the overall brick work needed attention – in fact the

carillon of bells last rang out over the Bay in 2011 .... restoration was imminent.

It was in 2015 that Mandela Bay Development Agency awarded the tender to IBHAYI CONTRACTING to completely, restore the Campanile. The restoration of the 23 bells, their steel housing structure, the mechanism, the LED lights and the new innovation, a custom built lift, would all be contracted out by IBHAYI.....

Restoration started in earnest in March 2016 – scaffolding erected around and to the top of the tower, the bells lowered, stored and cleaned.

Work continued for the rest of the year – the structure repaired and cleaned and at the same time a specialized computerised purpose built electro-mechanical bell ringing system was connected to LED lights and the clocks were both installed.



*Scaffolding being erected around the 52m high Campanile in preparation for phase 1 of the restoration process.*



*Rusted after 80 years of exposure to the elements.*





*One of the restored bells being hoisted to the belfry.*



*The black carbon removed the bell looks as good as new after 80 years.*

Compressed air is used to shoot the clapper against the bells to make them ring, a much faster system, which ensures a complete melodious ring that chimes out across the Bay.

The original 23 bells were hoisted back into position in August 2016, the smaller ones first and then the larger ones. The massive 'C' Bell, weighing 4.2 tons, was the last bell to be installed after the restoration process.

But there is more - another two bells will be hoisted into position, No. 24 and No. 25!

This historical iconic monument, built in honour of the 1820 Settlers landing in Algoa Bay will now have a direct connection to the 616 South African troops that perished during World War I, when the 4,200 ton steamer SS Mendi was rammed in the English Channel on its way to France.

A 24th bell has been cast in brass and will ring out 100 years after the disaster of the English Channel honouring our World War I heroes.

By the end of April 2017 the two new bells will

have been installed, the new lift placed in the shaft and the LED lighting will flash in time to the crisp smooth ringing of the carillon of 25 bells.

A page of history has been restored – the Campanile stands tall to Honour the brave ...those who sailed the unpredictable seas and those who perished at sea.

The Campanile is alive, ring out across The Bay, a constant reminder of our historic past. 

### The Bell has the following words embossed on it:

*"isikhumbuzo samagorha azika no S.S. Mendi"*



*In honour to the heroes who went down with the SS Mendi.*

### The 25<sup>th</sup> Bell was funded by the citizens of Nelson Mandela Bay – the following wording appears on this one:

*"isuka kubemi base – Nelson Mandela Bay"*



*From the citizens of Nelson Mandela Bay.*

