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Subject : *Bisi Pedestrian Bridge*

Location : Umzimkhulu

Project team

<i>Developer/Owner</i>	<i>Province of KZN (DOT)</i>
<i>Project Manager</i>	<i>Junaid Kathrada</i>
<i>Architect</i>	<i>VNA Construction (Pty) Ltd</i>
<i>Main Contractor</i>	<i>Erbacon Construction (Pty) Ltd</i>
<i>Steel Fabricator</i>	<i>Steelcon</i>

Hot Dip Galvanizer : Bay Galvanizers

Type of Steel : Structural Steel

Tonnes of Steel : 30 Tons

Project Inspection date : 10/10/2007

Project Value : R4.3 mil

Bisi Pedestrian Bridge

The province of KZN is continuously looking at cost effective ways to improve the lives of their community. In the same process they create work and expand knowledge throughout the province.

The Bisi Pedestrian Bridge was created to establish a safe and simple crossing for the people from the local villages. This specific point over the river was chosen due to the unfortunate fact that many children had drowned here as this was the closest crossing to their school.



Bisi Pedestrian Bridge after completion, beautiful nestled into its surroundings.

One of the characteristics of this area is the natural, unspoiled beauty of the milieu.

Innovation and the promotion of benefits

- Hot dip galvanizing was selected as the corrosion protection system due to the fact that the bridge will be continuously exposed to the elements as there are no mountains, trees or any sort of protection from wind and rain.
- This bridge is located in an area that it is not easily accessible with an ordinary vehicle and therefore has to be maintenance free.
- It has to be safe as hundreds of school children, elderly and other locals will be using it to reach their local town and schools.
- By using hot dip galvanizing, both goals were realised - maintenance free and safe!

- Hot dip galvanizing is being specified more frequently on these Pedestrian Bridges, to the point that it is almost a standard feature, thereby leading to enormous growth potential.

Improved Technology

- By using hot dip galvanizing as the corrosion protection, we are witnessing improved technology in action.
- This bridge and all other hot dip galvanized bridges to follow is quietly making history. Already we have seen the benefits of Hot Dip Galvanizing on similar projects country wide.
- Bisi Pedestrian Bridge in its corrosive environment furthers the benefits of using hot dip galvanized steel. Although the bridge was erected in the "less rainy" season, which is when most of these pictures were taken, the river pushes high up on the banks, causing potential corrosion issues. This is one of the main reasons for erecting a hot dip galvanized bridge as after a heavy rainfall, the water runs down the mountains and accumulates around the site. Furthermore, the rainfall in this particular area is heavy.
- The soil around the site is a clay soil, which under normal circumstances can be very acidic.

Promote Professionalism & Dissemination of Knowledge



The crew finishing up after a successful day on site at the almost completed Bisi Pedestrian Bridge.

- Erecting this bridge was a combined effort of an established contractor in joint venture with an emerging BEE contractor.
- This matter involves other up coming contractors and exploits the characteristics of hot dip galvanizing.

- This bridge can be used to promote hot dip galvanizing by emphasizing the safety of crossing non corroded bridges in dangerous areas and to generate more bridges in the rural areas.

Provide service

- The Bisi Pedestrian Bridge creates awareness and serves the interests of the local villages, schools and provides a service to their safety.
- This bridge will be an asset to the community and the province of KZN.

Celebration of Superiority

- The Bisi Pedestrian Bridge will be acknowledged throughout the community and become part of the adjacent establishments.
- This bridge will become one of the links in establishing continuous use of hot dip galvanizing on similar projects and, more importantly, ensure the safety of similar communities.



Market Growth

- The establishing market for Hot Dip Galvanized bridges, like the Bisi Pedestrian Bridge are already showing the demand for this product.



A close-up view of the bridge on the one side of the river. Displaying the strength and reliability of this 200m stretch of bridge

- The market growth on these bridges should be nurtured and rewarded by close awareness.
- This bridge will not only benefit the growth of hot dip galvanizing in all parts of the world but also the lives of the people using the product unknowingly.

Sustainable Resources

- The long term benefits of hot dip galvanizing being the choice of corrosion protection on this bridge will be noticeable now and for years to come.
- The bridge will be corrosion and maintenance free. Creating a cost effective and safe bridge.
- By using hot dip galvanizing there is no risk of a corroding bridge that could harm the environment by polluting it with unsafe chemicals as the lifespan progresses.
- Most of the villagers using this bridge are under-privileged and shoes and similar luxuries are not affordable to them. The hot dip galvanized steel will ensure that their chances of being injured on corroding steel, thereby suffering from blood poisoning, are decreased.



This project should win as it will help to develop the necessity of a reliable, predictable and dependable corrosion protection coating on every aspect of the steel industry. This bridge is a safe haven and is the "N1 freeway" for the people using it.

If we as the industry and the creators of a safe bridge can further this knowledge and promote this coating we will not only be benefiting ourselves but improving the lives of countless others.

"Adding Value to Hot Dip Galvanizing"