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Subject : **Eshowe Taxi Rank**

Location : Eshowe

Project team : *Developer/Owner* Umlalazi Municipality
Project Manager UWP
Architect UWP
Main Contractor Matriarch Contractors cc
Steel Fabricator Steelcon

Hot Dip Galvanizer : Bay Galvanizers

Type of Steel : Structural Steel

Tonnes of Steel : 20 Tons

Project Inspection date : 01/02/2007

Project Value : R3 mil

Eshowe Taxi Rank

The Eshowe Taxi Rank was completed at the end of 2007. It is an immense aid to commuters as their lives got a lot simpler. The previous taxi rank was exposed to the elements and to a great amount of inconvenience. Therefore having a more organized, clean and functional Taxi Rank is an added bonus!

The rank is easy on the eye and “fades” into its surroundings. Not only is it a lovely piece of architecture but with the purpose it serves, it will most definitely become a land mark in Eshowe.

Innovation and the Promotion of Benefits

- The rank will be operating 24 hours per day, seven days a week.
- For the town of Eshowe to stop the operations of the rank will inconvenience the commuters.
- The idea was to create this functional operation to simplify the lives of the commuters’ using the facility.
- In order for them to achieve this goal, it has to be maintenance free.
- By using hot dip galvanizing this goal will be achieved and used for generations to come.
- When a paint specification was initially considered, it became quite clear that hot dip galvanizing would be more cost effective and add value to the steel.
- Reasons being: The highly corrosive atmospheric conditions of the KZN coast.
 High exposure to carbon emissions.
 Exposure to or vandalism by the commuters.



- All of the above proves that hot dip galvanizing was the preferred coating and that this will carry through for similar facilities.

Improved Technology

- This project represents improved application of the use of hot dip galvanized steel as a material of construction aimed at sustainable longevity of the Eshowe Taxi Rank.
- The structure offered further opportunity to utilise the significant benefits of hot dip galvanized steel in the high caustic environment.
- The initiative used by Hot Dip Galvanizing the steel for the taxi rank can become a norm and celebrate the superiority of the coating.

Promote Professionalism

- The project has already promoted professionalism by portraying a visible symbol to the commuters' as a place of safety and orderly day by day operations.
- The new taxi rank can well serve as a reference point in terms of illustrating long term corrosion protection and durability.

Provide service

- The new rank serves the interest of the local and surrounding communities and is now an asset and benefit for the town of Eshowe and Umlalazi Municipality.

Celebration of Superiority



- The new rank is a highly visible feature within the Eshowe community.
- This rank could very well become the influence to use hot dip galvanizing as the preferred corrosion protection to the surrounding Municipalities and their rank operations.

Dissemination of Knowledge

- The trusses appear curved or rolled into an arch form but are in fact made up in straight pieces and assembled in such a manner that it displays itself as arched.
- The trusses were spliced for easy transportation and facilitated efficient galvanizing.
- All these challenges resulted in extensive communication between the project team members and knowledge transference.
- The client was educated on various issues such as using the correct product to repair welds and coating damages and using hot dip galvanized bolts on the joints of the trusses rather than electroplated bolts.

Market Growth

- The project represents potential for expanding; specifically in this particular category, which is such an important part of South African day-to-day life. Demanding and promoting the use of hot dip galvanized steel as a primary material of construction for this type of rank projects.



Sustainable Resources

The project team has effectively exploited the characteristics of hot dip galvanized steel in terms of corrosion protection and improved aesthetics within the given circumstances.

In view that the rank is a government project and for the commuters' to

effectively get the full lifespan from the money spent on the community, the economics of employing hot dip galvanized steel was essential.

- R3 million Rand was spent on this project - the use of hot dip galvanized steel was found to be a cost effective corrosion control system that has the potential to make this project maintenance free in the long term.



Looking at this bountiful piece of artwork, how does this project really portray itself to be different from any other project?

The fact that it is easy on the eye for the thousands of people that will be using it all year round or the fact that it will keep them safe from the elements?

Maybe it is the fact that it will become a part of the community for many generations to come?

My conclusion is that this Taxi rank is no ordinary rank, but a maintenance free, safe facility to make a big difference through a small change, hot dip galvanize!

