

Role of Mild Steel in Civil Engineering Constructions - Life of People and National Economy

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Abstract- The mild steel is more ductile which gives better performance in earthquakes and even its production cost is less. So use of mild steel in country up to its maximum extent can save life of people and improves the national economy up to great extent.

Key words- Mild steel, ductility, earthquake performance, economy

I INTRODUCTION

The various grades of steels are recommended by Indian standard for civil engineering constructions. In India the use of tor steel (Fe415 and Fe500) is more than the use of mild steel (Fe250), almost use of mild steel is stopped. Now there is a big question that why the use of mild steel is becoming less and less, which is almost stopped? Is it because of its less characteristic strength? The answer is no. Then is it uneconomical? Again the answer is no because its production cost is also less.

The mild steel is more ductile than the tor steel (Fe415 and Fe500) and gives better performance in earthquakes also and which is accepted by whole world.

II COST ECONOMICS

If we design any civil engineering structure by tor steel and mild steel, definitely because of less strength of mild steel total area or weight of steel is more than the tor steel. But the overall production cost (not the current market cost) required for that particular area or weight of mild steel and tor steel are compared, then definitely it will prove that economy in the structure which is designed by mild steel. Not only economy, but mild steel also gives better performance even in earthquakes.

So it saves life of the peoples and improves the national economy up to a great extent.

III SALIENT FEATURES

Salient features of use of mild steel than the tor ((Fe415 and Fe500) are.

1. More ductile behavior
2. Better earthquake performance
3. Save life of peoples even in earthquakes and dynamic loading
4. Save millions/billions of Rs of nation
5. Serves nation in better way.

III CONCLUSION

So it save life of the people and improves the national economy up to a great extent.

So all civil engineers and govt. are requested to look in this matter. As it really save the life of people and improves the overall economy.