

PLASTIC DESIGN OF A PORTAL FRAME

by

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Project Report

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SUMMARY

The objectives of the project are to carry out an extensive theoretical study of the Plastic Design Theory of Structural steelwork and to carry out the Structural Analysis and design of a portal frame to be used for a large-span museum without using the internal space using Plastic theory, the construction of a perimetric corridor and one corridor leading from the one side of the frame to the other, to produce construction drawings and connection drawings for the particular frame.

All steel used is in accordance with BS:4360:1972, grade 43 steel and the design is in accordance with BS:449,BCSA and constredo publication.

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