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MODEL CLAUSES FOR CIVIL ENGINEERING WORKS

SECTION 123

BRIDGE INSTALLATION USING SELF PROPELLED LIFTING VEHICLES

NOTES TO SPECIFIER:

These notes do not form part of the Specification.

General

123.1

This Section of the Model Clauses has been drafted to specify requirements for Self Propelled Lifting Vehicles (SPLVs) as available for hire from heavy haulage companies. Further advice may be obtained from but not limited to:

*Econofreight Heavy Transport Ltd
Merchants Wharf
Stockton on Tees
Cleveland
TS3 8BL
Tel. No:- 01642-661000*

SPLVs are specialised equipment and availability is therefore limited. Consequently several months notice may be required for the use of such vehicles. Where possession dates are known it may be prudent to make a reservation well in advance of the Contract.

Introduction

123.2

SPLVs were originally developed for the North Sea oil and gas industry to carry heavy platform modules around construction yards and on to barges. Each vehicle usually comprises a unit containing 12 pairs of hydraulically powered wheels, each of which can turn through 360 degrees and be jacked to a height of 600 mm. Typical units are 2.4 metres wide and 8.4 metres long with a lifting capacity of 96 tonnes, and can be bolted together to provide the required overall capacity.

Surface required

123.3

A SPLV requires a solid surface to manoeuvre and jack. Normal road surfacing or large steel plates are generally adequate. Properly compacted fill material may suffice for straight line travel. SPLVs can negotiate slopes of 2% and some can cope with unevenness of surface (even potholes).

Typical uses of SPLVs

123.4

For the reconstruction of rail over road bridges, the existing structure can also be taken out using SPLVs prior to the new structure being installed. Since no access is required above the bridge, the vehicles are particularly useful for working under a.c. electrification overhead line equipment or station buildings.