



1. INFORMATION ON RAIL SIGNALLING SYSTEM AND ASSOCIATED COMPONENTS DESIGNATION

- 1.1 A rail signalling system is used to control the flow of railway traffic in safe, effective and reliable manner as a means of preventing trains from colliding with each other. Being guided by fixed rails, trains are uniquely susceptible to collision, furthermore trains cannot stop quickly, and frequently operate at speeds that do not allow stopping within sighting distance of the driver. Also, rail signalling systems are one of the key factors to assure the safety, punctuality, reliability and effectiveness (train speed and traffic density) of the railway operation.

Table 1: Rail signalling system

Types of systems	Local Content Thresholds
Rail Signalling System and associated components	65%

- 1.2 **Table 2** provides the stipulated minimum threshold for local content and production for rail signalling systems and associated components categorised by systems and components. To ensure that the minimum local content designated is applied on manufacturing activities, the components and conversion activities in the manufacturing of rail signalling system and associated components are further designated and must also be included in bid invitations:

Table 2: Local Content Designated on a Fully-Built Unit and Components and Conversion Activities against which the overall Local Content must be discharged, per rail signalling system and components

NO	Components and manufacturing processes	% local content
1	Centralised Traffic Control (CTC) Equipment	40%
2	Cabinets (Apparatus cases)	100%
3	LED Light Signal	95%
4	Level Crossing Components	90%
5	Auxiliary Power Suppliers	90%
6	Point Machines	90%
7	Cables & wire	90% (Cables)
8	Axle Counter	75%
9	Trach Circuits	90%
10	Electronic Interlocking	50%
11	Relay Interlocking	90%
12	Assembly and testing of the fully-built units	100%

Total minimum local content (per system) 65%



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- 1.3 The following primary input materials used in the manufacturing of railway signalling systems and associated components are deemed as local in this designation:
 - a) Raw copper rod;
 - b) Paper and boards for insulation;
 - c) Aluminium billets and rod;
 - d) Ceramics;
 - e) Porcelain;
 - f) Reinforced fibre glass;
 - g) Polymers; and
 - h) Epoxy
- 1.4 The designated local content thresholds (on the components / conversion processes and on the overall) apply to new purchases, refurbishments, replacements and general overhauls.
- 1.5 For further information, bidders and procuring state organs may contact the Metals Fabrication, Capital and Rail Transport Equipment unit within the Department of Trade Industry and Competition (**the dtic**) at telephone 012 394 1356/ 3138 or email Thandi Phele at tphele@thedtic.gov.za