

ANNEXURE 7-2: PHYSICAL INTERFACE BETWEEN RS P-7 & ST P-5: SPECIFIC ISSUES

1. INTERFACES

Interfaces between RS P-7 and ST P-5 Contracts shall include but shall not be limited to the items included in interface matrix below.

S.No.	ITEM OF WORK	ST P-5	ST P-5A	RS P-7
1.	Track side Signalling and interlocking system	<p>(i) Shall install Signalling and interlocking system upto Ch. 14.449 (i.e up to main entry / exit point of the ELMD) and up to Ch. 15.320 on the DFC Main Line where the emergency entry / exit of ELMD meets the DFC Main Line.</p> <p>(ii) Furnish information on vendors of Signalling equipment to RS P-7.</p> <p>(iii) Interface with RS P-7 for Entry/Exit signals at both the entry / exits of ELMD.</p> <p>(iv) Provide interference current limits to RS P-7 and test the same.</p>	<p>(i) Provide details of power supply requirements for TPWS on Test Track to RS P-7.</p> <p>(ii) Provide TPWS on the test track.</p> <p>(iii) Interface with RS P-7 for Entry/Exit signals at both the entry / exits of ELMD.</p> <p>(iv) Provide interference current limits to RS P-7 and test the same.</p>	<p>(i) Design and Build signalling and interlocking system in the depot as per Particular Specification of Signals and interlocking system.</p> <p>(ii) All the Signalling equipment shall be obtained from vendors approved for ST P-5 contractor.</p> <p>(iii) Provide detailed track layout plan of Depot entry track at locations of entry / exits of ELMD to ST P-5 Contractor.</p> <p>(iv) Provide detailed track layout plan of Depot entry track at both the locations of entry / exits of ELMD & Test Track to ST P-5A Contractor.</p> <p>(v) Provide rooms for TPWS maintenance and store room including lights, fans, Air Conditioning, computer table, tables, chairs, cupboards etc.</p> <p>(vi) Interface with ST P-5 for ELMD Entry/Exit signals at both the locations of entry / exit.</p> <p>(vii) Ensure that interference currents are within limits. Associate in its measurement by ST P-5 and ST P-5A.</p> <p>(viii) Provide Depot Radio and EPABX communication to TPWS maintenance staff.</p>
2.	On Board - Signalling and interlocking system	xx	<p>(i) Provide space requirements to RS P-7 for fixing On-Board TPWS equipment (cabinet, DMI, Antenna, Axle mounted odometer etc.) in the Locomotive.</p> <p>(ii) Supply all On-Board TPWS equipment and those special electrical cables and the</p>	<p>(i) Provide required space to ST P-5A for fixing On-Board TPWS equipment in the Locomotive.</p> <p>(ii) Except connections to the On Board equipment supplied by ST P-5A, all cables and associated terminals and electrical connections for the On Board equipment shall be provided by RS P-7.</p>

S.No.	ITEM OF WORK	ST P-5	ST P-5A	RS P-7
			<p>associated terminals, including plugs and sockets that are directly connected.</p> <p>(iii) Provide details of power supply requirements for On-Board TPWS equipment to RS P-7.</p> <p>(iv) Train RS P-7 staff for fitting and carrying out preliminary testing of On-Board TPWS equipment during Loco manufacturing.</p> <p>(v) Provide Braking interface from TPWS to Locos.</p> <p>(vi) Carry out compatibility testing of TPWS with IR's TPWS.</p> <p>(vii) Carry out full testing of On-Board TPWS equipment provided on every Loco jointly with RS P-7.</p> <p>(viii) Provide TPWS data input to ST P-7 for Driver's simulator.</p>	<p>(iii) Fix and wire all On-Board TPWS equipment in the Locos in accordance with the requirement of ST P-5A.</p> <p>(iv) Provide required power supply for On-Board TPWS equipment to ST P5A.</p> <p>(v) Provide Braking interface to TPWS.</p> <p>(vi) Associate with ST P-5A for carrying out compatibility testing of WDFC TPWS with IR's TPWS.</p> <p>(vii) Associate with ST P5A for carrying out full testing of On-Board WDFC TPWS equipment provided on every loco.</p> <p>(viii) Ensure that the locomotives data communications protocols are fully compatible with RS P-5A supplied on-board equipment.</p>

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