COMMENTS/SUGGESTIONS RECEIVED FROM FIRMS ON DRAFT AMENDMENT SLIP NO. 1 OF SPECIFICATION No. IS/RDSO/CG/S/22001 UPLOADED ON RDSO WEBSITE (04.06.2024 TO 06.07.2024)

Clause No. of RDSO Draft	STR No. IS/RDSO/CG/S/22001	M/s Sanrok Enterprises NDLS (S. No. 589)	RDSO Remarks
The System designed shapped repute National/ Internation proof of supply and sate	I and shall be read as under: all be a proven and established technology/system on onal Railway systems. Documentary evidence along with tisfactory performance certificate (minimum 3 months om user Railway(s)/Rolling Stock manufacturer shall be DEM.	The Trial Period of 3 months is too small and needs to be sufficient so as to cover all weathers and environmental conditions i.e. 1 year.	Not agreed. IR has gained the experience of more than 5 years of FDSS, hence trial period of 03 months is considered
International Railway an technical and functional resultability of system for trial in India program. The systemmissioning on IR systemmi	offering product which has not been fitted by any repute d product prima facie appears suitable and meeting equirements, the same can be referred to RDSO to judge all order to encourage the indigenous sources as per Make ystem will be subjected to a 3 months' field trial after em on minimum 2 coaches for checking and verifying the ements as specified in this specification		adequate.
2. Clause No. 4.2 table	modified and shall be read as under:	Noted & agreed.	Agreed.
Documents Name/No	Description		
ARGE Guideline Part 1	Fire Detection in Rolling Stock		
ARGE Guideline Part-2	Fire Fighting in Rolling Stock		
EN 50 121-3-2 2007	Railway applications – Electromagnetic compatibility – Rolling stock – Apparatus		
EN 50 125-1 – 2014	Railway applications – Environmental conditions for equipment – Equipment on board rolling stock		
EN 50 126 - 2017	Railway applications – The specification and demonstration of reliability, availability, maintainability and safety (RAMS);		
EN 50 128 – 2012	Railway applications – Communications, signalling and processing systems – Software for railway control and protection systems;		
EN 50 153 – 2014	Railway applications – Rolling stock – Protective provisions relating to electrical hazards		

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EN 50 155 – 2017	Railway applications – Electronic equipment used on rolling stock		
IEC 61373-2010	Railway applications – Rolling stock equipment – Shock vibration tests		
EN 50159-1 2010	Railway applications – Communication, signaling and processing systems – Part 1: Safety-related communication in closed transmission systems;		
BS EN 45545-6 :2013	Railway applications – Fire protection on railway vehicles – Part 6: Fire control and management systems		
NFPA 750	Standard on Water Mist Fire Protection Systems		
IS/ISO 7240-5 or EN 54-5	Point - type heat detectors		
IS/ISO 7240-7 or EN 54-7	Point-type smoke detectors using scattered light, transmitted light or ionization		
3. Clause No. 4.3.3 mod	ified and shall be read as under:	Noted & agreed.	Agreed.
pressure gauges. Furtl	diness for working, the reservoirs shall be provided with ner, there should be provision also for audio indication on solenoid coil of solenoid valve is connected with Nitrogen		
4. Clause No. 4.3.4(viii)	modified and shall be read as under	Noted & agreed.	Agreed.
Detector (LHD) cable (The system should be compartment, the bus Activation of suppressi portion whenever fire installation/protection luggage loading/unloa suppression system a valves, nozzles etc. in	ment of power car will be protected with Linear Heat UL or EN approved, 105-110 deg C, approx. 20 meters). so designed that on receiving a fire signal from luggage zzer should sound and DG set(s) should shutdown. on system should not take place automatically in luggage signal is received from luggage compartment. Sensor should be robust enough to prevent damage during ding. Provision of High pressure water mist based fire long with associated piping, solenoid valves, sectioning luggage area of Power car. The similar material which is concerned OEM during fitment of suppression system in car should be used.		

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5. (Claus	lause No. 4.3.4 (x) (new clause) added.			Noted & complied	Agreed.	
r c t	associ provid detect he es systen section	ated piping, soler ed in escorting state or in escorting staff area on should have the ning valves should	re water mist based firmoid valves, sectioning aff area. On activation of area, the fire suppressionly after automatic should be so programmed from where fire alarm is	y valves, nozing of smoke alasion is to be accurrent of the location of the that suppress	zles is also to be irm through smoke ctivated manually in f DG set. Thus the n of fire alarm and		
6. Clause No. 4.3.11 (New clause) added. Two-digit Error code for FDSS system should be as per following format:				Noted Alerts due to Smoke and heat are Alarms and not Errors. This is the	Agreed and clause is modified accordingly.		
S.	Fo	For FSDS System Error codes are as per below				primary function of the system. The	
No					Error Code	same may classified accordingly as Alarm 1 (A1) and Alarm 2 (A2).	
1.	. Wi	Wiring Break/Electrical discontinuity within the system			E1		
2.	. Ne	, ,			E2		
3.	Alert due to Smoke detector with location E3			E3			
4.	. Alert due to Heat detector or LHD with location E4						
5.	5. Nitrogen cylinder Solenoid coil disconnected E5						
6.	5. System functional without any error 00			00			
7.	Data as p	use No. 4.3.12 (New clause) added. a downloaded from Fire Detection cum Suppression System (FDSS) shall be per following format:			Noted The system will record only the events such as Alarms, or any fault according to the Error codes as per Clause 1 of this Amendment. Control Panel Id will be pre-	clause is modified	
1	S. No.	Control Panel ID along with make	Date and time of activation of suppression	Trouble /Error id	Message address etc.	established and will appear on the report prominently, however this may not be required to be displayed	
	l. 					in every row as it will be the same entry every time. The table may be corrected accordingly.	

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8.	Clause No. 5.3 of (New clause) added. USB 2.0 output port for data downloading on Fire Detection cum Suppression System (FDSS) Control Panel at suitable location to be available for configuration, status monitoring, command input, event log extraction & software up-gradation during service & maintenance.	USB output port can be used only for Data Downloading. No input function like command, software upgradation etc can be done. Firmware and Software are embedded and need other methods of updating.	Accepted and clause is modified accordingly.
9.	Clause No. – 8.3.1 (New clause) added.	Noted & agreed	Agreed.
	The price proposal for refilling of Nitrogen cylinder, water cylinder and recertification-cum-refilling of Nitrogen cylinder should be quoted along with the tender. PUs to advise these details to Zonal Railways along with coach details.		
10.	Clause No. 10.1 modified and shall be read as under:	Noted & agreed	Clause is modified in view of Railway
	The prototype approval of the complete system will be done by PUs/RDSO. Prototype approval shall be done by actual fitment on a coach and successful functional test as per this specification.		Board's letter no. 2020/M©/142/4 pt VI dated 25.06.2024 for Vendor controlling by RDSO.
11.	Clause No. 10.4 modified and shall be read as under: For supplier whose prototype approval is not done by any of the PUs/RDSO and are supplying to Zonal Railways, the prototype approval will be conducted by Zonal railways PUs/RDSO and the prototype approval by that Zonal Railways PUs/RDSO will be considered for future references by other Zonal Railways.		Clause is modified in view of Railway Board's letter no. 2020/M©/142/4 pt VI dated 25.06.2024 for Vendor controlling by RDSO.

Note:

- 1. There should be provision of protection covering of manual activation switch to avoid any no intentional activation of suppression system.
- 2. STR is also added as annexure-A in the specification for infrastructural requirement.