LOCO KAVACH PARAMETERS BASED ON KAVACH VERSION 4.0 FROM ANNEXURE-C AND ANNEXURE-A2

S.NO	DEFINED NAME	VALUE	REMARK			
	Access Request Packet					
1.	PKT_TYPE_SIZE	4	It is a length of 4 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
2.	PKT_UNDEF	0	Undefined, It is a length of 4 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
3.	PKT_TYPE_RADIO_FOR_VER_3_2	5	Radio packets for KAVACH V4.0, It is a length of 4 bits. Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
4.	PKT_TYPE_RES1	8	Reserved for future use, It is a length of 4 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
5.	PKT_ONBOARD_STN_REGU	10	Onboard to Station Regular Packet, It is a length of 4 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
6.	PKT_ADTL_EMG_MSG	12	Additional Emergency Packet, It is a length of 4 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
7.	PKT_ONBOARD_ACSS_REQ	13	Onboard Access Request, It is a length of 4 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
8.	PKT_RES2	14	Reserved for future use, It is a length of 4 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
9.	PKT_RES3	15	Reserved for future use, It is a length of 4 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
10.	PKT_LENGTH_SIZE	7	Packet Length is in terms of bytes, It is a length of 7 bits, Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
11.	PKT_LENGTH	111	It is a length of 7 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
12.	PKT_LENGTH_MAX	127	It is a length of 7 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			
13.	PKT_LENGTH_MIN	0	It is a length of 7 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6			

14.	FRAME_NUM_SIZE	17	1 to 86400 ((hr * 3600 + mm * 60 + ss)+ 1), It is a length of 17 bits Reference: Annexure-C-Specification of Kavach,
15.	FRAME_NUM	111	page no: 64, C.5.6 It is a length of 17 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
16.	FRAME_NUM_MAX	86399	It is a length of 17 bits Example: 00:00:00 – Frame No 1 00:00:02 – Frame No. 3 23:59:58 – Frame No 86399, Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
17.	FRAME_NUM_MIN	1	It is a length of 17 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
18.	HOURS_MAX	23	Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
19.	HOURS_MIN	0	Reference: Annexure-C-Specification of Kavach, page no: 31, C.4.8
20.	MINUTES_MAX	59	Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
21.	MINUTES_MIN	0	Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
22.	SECONDS_MAX	59	Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
23.	SECONDS_MIN	0	Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
24.	SRC_LOCO_ID	111	It is a length of 20 bits Source loco id Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
25.	SRC_LOCO_ID_SIZE	20	It is a length of 20 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
26.	SRC_LOCO_ID_MIN	1	It is a length of 20 bits 1 to 999999 Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
27.	SRC_LOCO_ID_MAX	999999	It is a length of 20 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
28.	SRC_LOCO_VERSION_SIZE	3	It is a length of 3 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6

29.	SRC_LOCO_VERSION	5	It is a length of 3 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
30.	SRC_LOCO_VERSION_NOT_USED	0	It is a length of 3 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
31.	SRC_LOCO_VERSION_3_2	1	Kavach Specification 3.2 It is a length of 3 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
32.	SRC_LOCO_VERSION_4_0	2	It is a length of 3 bits Kavach Specification 4.0 Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
33.	ABS_LOCO_LOCATION_SIZE	23	It is a length of 23 bits Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
34.	ABS_LOCO_LOCATION	111	It is a length of 23 bits Absolute Location in meters, Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
35.	ABS_LOCO_LOCATION_MAX	8388607	It is a length of 23 bits. Absolute Location in meters, Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
36.	ABS_LOCO_LOCATION_MIN	0	It is a length of 23 bits. Absolute Location in meters, Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
37.	TRAIN_LENGTH_SIZE	11	It is a length of 11 bits. Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
38.	TRAIN_LENGTH	111	It is a length of 11 bits. Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
39.	TRAIN_LENGTH_UNIDENT	0	It is a length of 11 bits. Unidentified or invalid, Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
40.	TRAIN_LENGTH_MAX	2047	It is a length of 11 bits. Train length in meters, Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6
41.	TRAIN_LENGTH_MIN	1	It is a length of 11 bits. Train length in meters, Reference: Annexure-C-Specification of Kavach, page no: 64, C.5.6

42.	TRAIN_SPEED_SIZE	9	It is a length of 9 bits. Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
43.	TRAIN_SPEED	111	It is a length of 9 bits.
	_		Train Speed in km/h,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
44.	TRAIN_SPEED_MAX	510	It is a length of 9 bits.
			Train Speed in km/h,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
45.	TRAIN_SPEED_MIN	0	It is a length of 9 bits.
			Train Speed in km/h,
			Reference: Annexure-C-Specification of Kavach,
46.	TRAIN SPEED RESERVED FU		page no: 65, C.5.6 It is a length of 9 bits.
40.	TRAIN_SPEED_RESERVED_FO		Reserved for future use
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
47.	TRAIN_SPEED_UNIDENT	511	It is a length of 9 bits.
			Unidentified,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
48.	MOVEMENT_DIR_SIZE	2	It is a length of 2 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
49.	MOVEMENT_DIR	1	It is a length of 2 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
50.	MOVEMENT_DIR_UNIDENT	0	It is a length of 2 bits.
			Direction of Movement of Train not established / unidentified,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
51.	MOVEMENT_DIR_NOMINAL	1	It is a length of 2 bits.
51.	MOVEMENT_BIN_NOMINAL	_	Nominal (Normally Traffic Direction as UP),
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
52.	MOVEMENT_DIR_REVERSE	2	It is a length of 2 bits. Reverse (Normally Traffic
	_ _		Direction as DOWN),
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
53.	MOVEMENT_RESERVED_FU	3	It is a length of 2 bits.
			Reserved for future use,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6

ЕЛ	EMEDGENICY STATUS SIZE	3	It is a longth of 2 hits
54.	EMERGENCY_STATUS_SIZE	3	It is a length of 3 bits.
			Reference: Annexure-C-Specification of Kavach,
55.	ENAUDCENCY STATUS	0	page no: 65, C.5.6
55.	EMERGENCY_STATUS	U	It is a length of 3 bits.
			Reference: Annexure-C-Specification of Kavach,
F.C.	NO FAMEDOFALOV STATUS		page no: 65, C.5.6
56.	NO_EMERGENCY_STATUS	0	It is a length of 3 bits.
			No Emergency – Regular Packet,
			Reference: Annexure-C-Specification of Kavach,
	ENAFRCENCY STATUS SIRE COL	4	page no: 65, C.5.6
57.	EMERGENCY_STATUS_SIDE_COL	1	It is a length of 3 bits.
			Side Collision (Unusual Stoppage),
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
58.	EMERGENCY_STATUS_SOS	2	It is a length of 3 bits.SOS,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
59.	EMERGENCY_STATUS_ROLLBACK	3	It is a length of 3 bits.
			Roll Back Detected,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
60.	EMERGENCY_STATUS_HEADON_COL	4	It is a length of 3 bits.
			Head ON Collision,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
61.	EMERGENCY_STATUS_REAREND_COL	5	It is a length of 3 bits.
			Rear End Collision,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
62.	EMERGENCY_STATUS_PARTING_SOS	6	It is a length of 3 bits.
			Parting SOS
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
63.	EMERGENCY_STATUS_SPARE	7	It is a length of 3 bits.
			Spare,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
64.	LOCO_MODE_SIZE	4	It is a length of 4 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
65.	LOCO_MODE	4	It is a length of 4 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
66.	LOCO_MODE_STAND_BY	1	It is a length of 4 bits.
			STAND BY,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
			Page ::01 00) 0:0:0

67.	LOCO_MODE_STAFRESP	2	It is a length of 4 bits.
			STAFF RESPONSIBLE_MODE,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
68.	LOCO_MODE_LTD_SUPERVISION	3	It is a length of 4 bits.
			LIMITED SUPERVISION,
			Reference: Annexure-C-Specification of Kavach,
	LOCO MODE ELILL CURERVICION		page no: 65, C.5.6
69.	LOCO_MODE_FULL_SUPERVISION	4	It is a length of 4 bits.
			FULL SUPERVISION,
			Reference: Annexure-C-Specification of Kavach,
70.	LOCO_MODE_OVRD	5	page no: 65, C.5.6 It is a length of 4 bits.
70.	LOCO_MODE_OVRD	3	OVERRIDE,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
71.	LOCO_MODE_ON_SIGHT	6	It is a length of 4 bits.
, = .			ON SIGHT,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
72.	LOCO_MODE_TRIP	7	It is a length of 4 bits.
			TRIP,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
73.	LOCO_MODE_POST_TRIP	8	It is a length of 4 bits.
			POST TRIP,
			Reference: Annexure-C-Specification of Kavach,
			page no: 32, C.4.8
74.	LOCO_MODE_REVERSE	9	It is a length of 4 bits.
			REVERSE,
			Reference: Annexure-C-Specification of Kavach,
75	LOCO MODE CHINE	10	page no: 65, C.5.6
75.	LOCO_MODE_SHUNT	10	It is a length of 4 bits. SHUNTING,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
76.	LOCO MODE NON LEAD	11	It is a length of 4 bits.
70.	LOCO_MODE_NON_LEAD	11	NON LEADING,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
77.	LOCO_MODE_SYS_FAIL	12	It is a length of 4 bits. SYSTEM FAILURE,
'	== == <u></u> =		Reference: Annexure-C-Specification of Kavach,
			page no: 32, C.4.8
78.	LOCO_MODE_ISOLATION	13	It is a length of 4 bits.
			ISOLATION,
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6

70	ADDDOACH CTN ID CITE	1.0	It is a leastle of A leite
79.	APPROACH_STN_ID_SIZE	16	It is a length of 4 bits.
			Approaching Station ID as received from Tag
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
80.	APPROACH_STN_ID	111	It is a length of 16 bits.
			Approaching Station ID as received from Tag
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
81.	APPROACH_STN_ID_MAX	65535	It is a length of 16 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
82.	APPROACH_STN_ID_MIN	0	It is a length of 16 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 65, C.5.6
83.	LAST_RFID_TAG_SIZE	10	It is a length of 10 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
84.	LAST_RFID_TAG	111	It is a length of 10 bits.
			Tag ID of Last RFID Tag Read other than special
			tags like Banner Tag, Caution Tag,
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
85.	LAST_RFID_TAG_MIN	0	It is a length of 10 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
86.	LAST_RFID_TAG_MAX	1023	It is a length of 10 bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
87.	TIN_SIZE	9	It is a length of 9 bits.
	-		Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
88.	TIN_VALUE	111	It is a length of 9 bits.
	_		Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
89.	TIN_IGNORE	0	It is a length of 9 bits.
	_		Ignore/Don't care,
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
90.	TIN_MAX	250	It is a length of 9 bits.
			Track Identity Number as per Track Section
			occupied,
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
91.	TIN_MIN	1	It is a length of 9 bits.
		_	Track Identity Number as per Track Section
			occupied , Reference: Annexure-C-Specification of
			Kavach, page no: 66, C.5.6
			Kavacii, page 110. 00, C.J.0

92.	ONBOARD_SHED_TIN	251	It is a length of 9 bits. Onboard shed TIN, Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
93.	TIN_RESERVED_FU		It is a length of 9 bits. Reserved for future, Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
94.	LONGITUDE_SIZE	21	It is a length of 21 bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
95.	LONGITUDE	11	It is a length of 21 bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
96.	LONGITUDE_MIN	-180	It is a length of 21 bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
97.	LONGITUDE_MAX	+180	It is a length of 21 bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
98.	LONGITUDE_SIGNED		It is a length of 21 bits. Signed. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
99.	LONGITUDE_DEG		It is a length of 21 bits. Degrees: First nine bits Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
100.	LONGITUDE_MINUTES		It is a length of 21 bits. Minutes: six bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
101.	LONGITUDE_SECONDS		It is a length of 21 bits. Seconds: six bits Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
102.	LATITUDE_SIZE	20	It is a length of 20 bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
103.	LATITUDE	11	It is a length of 20 bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
104.	LATITUDE_MIN	-90	It is a length of 20 bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6
105.	LATITUDE_MAX	+90	It is a length of 20 bits. Reference: Annexure-C-Specification of Kavach, page no: 66, C.5.6

106.	LATITUDE_SIGNED		It is a length of 20 bits. Signed. Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
107.	LATITUDE_DEG		It is a length of 20 bits.
			Degrees: First eight bits.
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
108.	LATITUDE_MINUTES		It is a length of 20 bits.
			Minutes: six bits.
			Reference: Annexure-C-Specification of Kavach,
100			page no: 66, C.5.6
109.	LATITUDE_SECONDS		It is a length of 20 bits.
			Seconds: six bits
			Reference: Annexure-C-Specification of Kavach,
110.	LOCO BAND NUM DI SIZE	16	page no: 66, C.5.6 It is a length of 16 bits.
110.	LOCO_RAND_NUM_RL_SIZE	16	Onboard Random number for session request.
			Change of this value by Onboard KAVACH indicates
			that requesting a fresh session from onboard
			KAVACH
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
111.	LOCO_RAND_NUM_RL	111	It is a length of 16 bits.
			Onboard Random number for session request.
			Change of this value by Onboard KAVACH indicates
			that requesting a fresh session from onboard
			KAVACH
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
112.	LOCO_RAND_NUM_RL_MIN	0	It is a length of 16 bits.
			Onboard Random number for session request.
			Change of this value by Onboard KAVACH indicates
			that requesting a fresh session from onboard KAVACH
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
113.	LOCO RAND NUM RL MAX	65535	It is a length of 16 bits.
113.			Onboard Random number for session request.
			Change of this value by Onboard KAVACH indicates
			that requesting a fresh session from onboard
			KAVACH
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
114.	PADDING_BITS	111	It is a length of 5 bits. If required to make sub
			packet length as multiple of bytes
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6

115.	DADDING DITS SIZE	5	It is a length of 5 bits.
115.	PADDING_BITS_SIZE	Э	If required to make sub packet length as multiple
			of bytes
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
116.	PKT_CRC	111	It is a length of 5 bits.
110.	TRI_ene	111	Packet CRC,
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
117.	PKT_CRC_SIZE	32	It is a length of 5 bits.
			Packet CRC,
			Reference: Annexure-C-Specification of Kavach,
			page no: 66, C.5.6
	Access A	uthori	ty Packet
118.	SRC_STN_ILC_IBS_VERSION_SIZE	3	It is a length of 3 bits.
110.	3.1.6_3114_126_1B3_VE1\31614_312E	J	Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
119.	SRC STN ILC IBS VERSION	2	It is a length of 3 bits.
113.	3.KC_3.LC_1D3_VERSION	_	Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
120.	SRC_STN_ILC_IBS_VERSION_NOT	0	It is a length of 3 bits.
1201	_USE	Ū	Not used.
			Reference : Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
121.	SRC_STN_ILC_IBS_VERSION_3_2	1	It is a length of 3 bits.
			KAVACH specification 3.2
			Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
122.		2	It is a length of 3 bits.
	SRC_STN_ILC_IBS_VERSION_4_0		KAVACH specification 4.0
			Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
123.	SRC_STN_ILC_IBS_VERSION_MIN	1	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
124.	SRC_STN_ILC_IBS_VERSION_MAX	7	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
125.	ALOTD_UPLINK_FREQ_SIZE	12	It is a length of 12 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
126.	ALOTD_UPLINK_FREQ	111	It is a length of 12 bits.
			Reference: Annexure- C-Specification of KAVACH,
40-			page no:-61, C.5.4.
127.	ALOTO LIBURIY EDEO EDIA NOT III	•	It is a length of 12 bits.
	ALOTD_UPLINK_FREQ_FDMA_NOT_US	0	FDMA Not used
	ED		It is a length of 12 bits.

			Defenence: Approxima C Consideration of I/AV/ACII
			Reference : Annexure- C-Specification of KAVACH, page no:-61, C.5.4.
128.			It is a length of 12 bits.
120.	ALOTO LIDUNIK EDEO MAY	4095	
	ALOTD_UPLINK_FREQ_MAX	4095	Base Frequency: 406 MHz (Configurable) Allotted
			Channel Frequencies at 25kHz space.
			Reference : Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
129.			It is a length of 12 bits.
			Base Frequency: 406 MHz (Configurable) Allotted
	ALOTD_UPLINK_FREQ_MIN		Channel Frequencies at 25kHz space.
		0	Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
130.	ALOTD_UPLINK_FREQ_FUTURE_USE		It is a length of 12 bits.
			Reserved for future use.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
131.	ALOTD UPLINK FREQ RAD COM_SYS		It is a length of 12 bits.
		4094	Other Radio Communication systems used like Wi-
			Fi /LTE/4G/5G Networks
			Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
122	ALOTO LIDUAL EDEO FOR NOT LICE		
132.	ALOTD_UPLINK_FREQ_FOR_NOT_USE	4005	It is a length of 12 bits.
	D	4095	Not to be used.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-61, C.5.4.
	Onboard to S	tation l	Regular Packet
133.	L_DOUBTOVER_SIZE	9	It is a length of 9 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-55, C.5.3.
134.	L_DOUBTOVER	5	It is a length of 9 bits. Units in %.
	_		This is the over-reading amount plus the 5 m
			location accuracy of RFID Tag + 5% odometer error
			+ Reader Offset in front (ROF). This information
			shall be used for distance supervision of targets on
			safe side (e.g. PSR, TSR, Linking, etc.)
			Reference: Annexure- C-Specification of KAVACH,
			•
425	L DOUBTOVER MAN	10	page no:-55, C.5.3.
135.	L_DOUBTOVER_MAX	10	It is a length of 9 bits. Units in %.
			Reference: Annexure- A2-Specification of
			KAVACH, page no:-4, C.5.3.
136.	L_DOUBTOVER_MIN	2	It is a length of 9 bits. Units in %.
			Reference: Annexure- A2-Specification of
			KAVACH, page no:-4, C.5.3.
137.	L_DOUBTUNDER_SIZE	9	It is a length of 9 bits.
	_		Reference: Annexure- C-Specification of KAVACH,
			page no:-55, C.5.3.
		l	

138.	L_DOUBTUNDER	5	It is a length of 9 bits. Units in %.
150.	E_DOODTONDEN		This is the under-reading amount plus the 5 m
			location accuracy of RFID Tag + 5% odometer
			error+ Reader Offset from Rear (ROR). This
			information shall be used for distance supervision
			of targets on safe-side (e.g. PSR, TSR, Linking, etc.)
			Reference: Annexure- C-Specification of KAVACH,
			page no:-55, C.5.3.
139.	L_DOUBTUNDER_MAX	10	It is a length of 9 bits. Units in %.
			Reference: Annexure- A2-Specification of
			KAVACH, page no:-4, C.5.3.
140.	L_DOUBTUNDER_MIN	2	It is a length of bits. Units in %.
			Reference: Annexure- A2-Specification of
			KAVACH, page no:-4, C.5.3.
141.	TRAIN_INT_SIZE	2	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
142.	TDAIN INT	2	page no:-55, C.5.3.
142.	TRAIN_INT	2	It is a length of 2 bits. Reference: Annexure- C-Specification of KAVACH,
			page no:-55, C.5.3.
143.	TRAIN_INT_MAX	3	It is a length of 2 bits.
143.	TRAIN_INT_IVIAX	3	Reference: Annexure- C-Specification of KAVACH,
			page no:-55, C.5.3.
144.	TRAIN INT MIN	0	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-55, C.5.3.
145.	NO_TRAIN_INT_INFO	0	It is a length of 2 bits.
			Train Integrity status of the train 00: No Train
			Integrity information available.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-55, C.5.3.
146.	TRAIN_INT_CONF_BY_DEVICE	1	It is a length of 2 bits.01: Train integrity confirmed
			by integrity monitoring device.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-55, C.5.3.
147.	TRAIN_INT_CONF_BY_LP	2	It is a length of 2 bits.
			10: Train integrity confirmed by Loco Pilot
			Reference: Annexure- C-Specification of KAVACH,
4.40	TRAIN INT DECEDVED EIL	1 2	page no:-55, C.5.3.
148.	TRAIN_INT_RESERVED_FU	3	It is a length of 2 bits.
			11: Reserved.
			Reference: Annexure- C-Specification of KAVACH, page no:-55, C.5.3.
149.	TAG_DUP_SIZE	1	It is a length of 1 bits.
149.	IAG_DUP_SIZE		Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
150.	TAG_MAIN	0	It is a length of 1 bits.
150.	IVO_INIVIIA		it is a icligiti of 1 bits.

			0: Main Tag
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
151.	TAG_DUP	1	It is a length of 1 bits.
131.	TAG_DOF	1	1: Duplicate Tag
			Reference: Annexure- C-Specification of KAVACH,
452	TAC LINIK INICO CITE		page no:-57, C.5.3.
152.	TAG_LINK_INFO_SIZE	3	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
153.	TAG_LINK_INFO	4	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
154.	TAG_LINK_INFO_MAX	7	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
155.	TAG_LINK_INFO_MIN	0	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
156.	NO_TAG_LINK_INFO	0	It is a length of 3 bits.
			No Tag missing
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
157.	NO_DUP_TAG_LINK_INFO	1	It is a length of 3 bits.
			Duplicate Tag missing
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
158.	NO_MAIN_TAG_LINK_INFO	2	It is a length of 3 bits. Main Tag missing
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
159.	NO_BOTH_TAG_LINK_INFO	3	It is a length of 3 bits.
133.		J	Both Tag missing
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
160.	TAG LINK INFO POS INTERCHANGE	4	It is a length of 3 bits.
100.	TAG_ENVE_INTO_T OS_INTERCHANGE	7	Tag position interchanged
			Reference: Annexure- C-Specification of KAVACH,
			page no:-57, C.5.3.
161.	SAME TAG LINK INFO	5	It is a length of 3 bits.
101.	SAME_TAG_LINK_INFO	Э	Both Tags have same location info
			Reference: Annexure- C-Specification of KAVACH,
100	TAC LINK INTO LECCTUAN DOT		page no:-57, C.5.3.
162.	TAG_LINK_INFO_LESSTHAN_DDT	6	It is a length of 3 bits.
			Inter TAG distance less than DIST_DUP_TAG
			Reference: Annexure- C-Specification of KAVACH,
1.55	TAO 1101/ 10150 0051-55-5111		page no:-57, C.5.3.
163.	TAG_LINK_INFO_GREATERTHAN_DDT	7	It is a length of 3 bits.

			Inter tag distance greater than DIST_DUP_TAG It is a length of 4 bits. Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
164.	BRAKE_APPLIED_SIZE	3	It is a length of 3 bits. Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
165.	BRAKE_APPLIED	4	It is a length of 3 bits. Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
166.	BRAKE_APPLIED_MAX	7	It is a length of 3 bits. Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
167.	BRAKE_APPLIED_MIN	0	It is a length of 3 bits. Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
168.	NOOVRSPD_NOBRKS_KAVACH	0	It is a length of 3 bits. No over speed, No brakes by KAVACH, Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
169.	OVRSPD_NOBRKS_KAVACH	1	It is a length of 3 bits. Over speed but no brakes by KAVACH, Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
170.	NORM_SVCBRKS_KAVACH	2	It is a length of 3 bits. Normal Service Brake by KAVACH, Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
171.	FULL_SVCBRKS_KAVACH	3	It is a length of 3 bits. Full Service Brake by KAVACH, Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
172.	EMERG_BRAKE_KAVACH	4	It is a length of 3 bits. Emergency Brake by KAVACH, Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
173.	BRAKE_APPLIED_SPARE1	5	It is a length of 3 bits. Spare, Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
174.	BRAKE_APPLIED_SPARE2	6	It is a length of 3 bits. Spare, Reference: Annexure- C-Specification of KAVACH, page no:-57, C.5.3.
175.	BRAKE_APPLIED_SPARE3	7	It is a length of 3 bits. Spare, Reference: Annexure- C-Specification of KAVACH,

			page no:-57, C.5.3.
176.	NEW_MA_REPLY_SIZE	2	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
177.	NEW_MA_REPLY_MAX	3	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
178.	NEW MA REPLY MIN	0	It is a length of 2 bits.
170.	MEW_IMA_KEI EI_IMIIN		Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
179.	NO NEW MA DEDLY	0	It is a length of 2 bits.
179.	NO_NEW_MA_REPLY	0	
			0: No request for Shorten MA from Station
			KAVACH
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
180.	REQ_SHORTEN_MA_GRANTED	1	It is a length of 2 bits.
			1: Request to Shorten MA granted
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
181.	REQ_SHORTEN_MA_REJECTED	2	It is a length of 2 bits.
			2: Request to Shorten MA rejected
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
182.	NEW_MA_REPLY_RESERVED	3	It is a length of 2 bits.
			3: reserved
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
183.	LAST_REF_PROFILE_NUM_SIZE	4	It is a length of 4 bits.
103.	E/31_KE/_/ KO//EE_/VO/VI_5/2E		Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
184.	LAST REF PROFILE NUM MAX	15	It is a length of 4 bits.
104.	LAST_REF_PROFILE_NOIVI_IVIAX	15	<u> </u>
			Reference: Annexure- C-Specification of KAVACH,
407	LACT DES DOCUMENTS AND A STORY	_	page no:-58, C.5.3.
185.	LAST_REF_PROFILE_NUM_MIN	0	It is a length of 4 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
186.	LAST_REF_PROFILE_NUM	0	It is a length of 4 bits.
			0: Indicates no track profile data with Onboard
			KAVACH in given MA. On receipt of Access
			Authority Packet, the onboard KAVACH shall send
			'0000' retraining the profile already available for
			speed supervision
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
187.	SIG_OVRD_SIZE	1	It is a length of 1 bit.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-58, C.5.3.
		1	page 11030, C.3.3.

189. SIG_OVRD_INACTIVE 0 It is 0: Si Reference page 190. SIG_OVRD_ACTIVE 1 It is 1: Si Reference page 191. INFO_ACK_SIZE 4 It is Reference page 192. INFO_ACK 3 It is Reference page 193. INFO_ACK_MAX 15 It is Reference page 194. INFO_ACK_MIN 0 It is Reference page 195. NO_INFO_ACK 0 It is Reference page 196. LOCOPILOT_SOS_INFO_ACK 1 It is 1: Locate Reference page 197. FS_LS_ACK_INFO_LP 2 It is Reference Reference Reference Page 198. LS_SR_ACK_INFO_LP 3 It is 3: LS_Reference Page 199. FS_SR_ACK_INFO_LP 4 It is Reference Page Pag	rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3. length of 1 bit. nal Override Inactive rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3. length of 1 bit. nal Override Active rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3. length of 4 bits.
189. SIG_OVRD_INACTIVE 0 It is 0: Si Reference page 190. SIG_OVRD_ACTIVE 1 It is 1: Si Reference page 191. INFO_ACK_SIZE 4 It is Reference page 192. INFO_ACK 3 It is Reference page 193. INFO_ACK_MAX 15 It is Reference page 194. INFO_ACK_MIN 0 It is Reference page 195. NO_INFO_ACK 0 It is Reference page 196. LOCOPILOT_SOS_INFO_ACK 1 It is 1: Local Reference page 197. FS_LS_ACK_INFO_LP 2 It is Reference Reference Reference Page 198. LS_SR_ACK_INFO_LP 3 It is 3: LS_Reference Page 199. FS_SR_ACK_INFO_LP 4 It is Reference Page P	length of 1 bit. nal Override Inactive rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3. length of 1 bit. nal Override Active rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3.
190. SIG_OVRD_ACTIVE 1 It is	nal Override Inactive rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3. length of 1 bit. nal Override Active rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3.
190. SIG_OVRD_ACTIVE 1 It is 1: Si Reference Page	rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3. length of 1 bit. nal Override Active rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3.
190. SIG_OVRD_ACTIVE 1 It is 1: Si Reference Page	no:-58, C.5.3. length of 1 bit. nal Override Active rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3.
190. SIG_OVRD_ACTIVE 1 It is 1: Si Reference 191. INFO_ACK_SIZE 4 It is Reference 192. INFO_ACK 3 It is Reference 193. INFO_ACK_MAX 15 It is Reference 194. INFO_ACK_MIN 0 It is Reference 195. NO_INFO_ACK 0 It is Reference 196. LOCOPILOT_SOS_INFO_ACK 1 It is Sit is Reference 197. FS_LS_ACK_INFO_LP 2 It is Reference 198. LS_SR_ACK_INFO_LP 3 It is Reference 199. FS_SR_ACK_INFO_LP 4 It is	length of 1 bit. nal Override Active rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3.
191. INFO_ACK_SIZE 4 It is Reference page 192. INFO_ACK 3 It is Reference page 193. INFO_ACK_MAX 15 It is Reference page 194. INFO_ACK_MIN 0 It is Reference page 195. NO_INFO_ACK 0 It is Reference page 196. LOCOPILOT_SOS_INFO_ACK 1 It is 1: Location page 197. FS_LS_ACK_INFO_LP 2 It is Reference page 198. LS_SR_ACK_INFO_LP 3 It is 3: LS_Reference page 199. FS_SR_ACK_INFO_LP 4 It is	nal Override Active rence: Annexure- C-Specification of KAVACH, no:-58, C.5.3.
191. INFO_ACK_SIZE	ence: Annexure- C-Specification of KAVACH, no:-58, C.5.3.
191. INFO_ACK_SIZE	no:-58, C.5.3.
191. INFO_ACK_SIZE 4 It is Reference page 192. INFO_ACK 3 It is Reference page 193. INFO_ACK_MAX 15 It is Reference page 194. INFO_ACK_MIN 0 It is Reference page 195. NO_INFO_ACK 0 It is Reference page 196. LOCOPILOT_SOS_INFO_ACK 1 It is Reference page 197. FS_LS_ACK_INFO_LP 2 It is Reference page 198. LS_SR_ACK_INFO_LP 3 It is Reference page 199. FS_SR_ACK_INFO_LP 4 It is	
192. INFO_ACK 3 It is Reference	length of 4 hits
192. INFO_ACK 3 It is Reference Reference	-
192. INFO_ACK 3 It is Reference 193. INFO_ACK_MAX 15 It is Reference 194. INFO_ACK_MIN 0 It is Reference 195. NO_INFO_ACK 0 It is Reference 196. LOCOPILOT_SOS_INFO_ACK 1 It is Reference 197. FS_LS_ACK_INFO_LP 2 It is Reference 198. LS_SR_ACK_INFO_LP 3 It is Reference 199. FS_SR_ACK_INFO_LP 4 It is	rence: Annexure- C-Specification of KAVACH,
193. INFO_ACK_MAX 15 It is Reference Page	no:-59, C.5.3.
193. INFO_ACK_MAX 15 It is Reference	length of 4 bits.
193. INFO_ACK_MAX 15 It is Reference 194. INFO_ACK_MIN 0 It is Reference 195. NO_INFO_ACK 0 It is Reference 196. LOCOPILOT_SOS_INFO_ACK 1 It is 1: Local Loca	rence: Annexure- C-Specification of KAVACH,
194. INFO_ACK_MIN 0 It is Reference Page	no:-59, C.5.3.
194. INFO_ACK_MIN 0 It is Reference	length of 4 bits.
194. INFO_ACK_MIN 0 It is Reference page 195. NO_INFO_ACK 0 It is Reference page 196. LOCOPILOT_SOS_INFO_ACK 1 It is 1: Location Location page 197. FS_LS_ACK_INFO_LP 2 It is Reference page 198. LS_SR_ACK_INFO_LP 3 It is 3: LS_Reference page 199. FS_SR_ACK_INFO_LP 4 It is	rence: Annexure- C-Specification of KAVACH,
NO_INFO_ACK	no:-59, C.5.3.
195. NO_INFO_ACK 0 It is Reference	length of 4 bits.
195. NO_INFO_ACK 0 It is Reference page 196. LOCOPILOT_SOS_INFO_ACK 1 It is 1: Low Reference page 197. FS_LS_ACK_INFO_LP 2 It is Reference page 198. LS_SR_ACK_INFO_LP 3 It is Reference page 199. FS_SR_ACK_INFO_LP 4 It is	ence: Annexure- C-Specification of KAVACH,
Reference Reference Reference Page	no:-59, C.5.3.
196. LOCOPILOT_SOS_INFO_ACK 1 It is 1: Loc Reference Page Page	length of 4 bits.0: No Ack
196. LOCOPILOT_SOS_INFO_ACK 1 It is 1: Loc Reference 197. FS_LS_ACK_INFO_LP 2 It is Reference 198. LS_SR_ACK_INFO_LP 3 It is 3: LS_Reference 199. FS_SR_ACK_INFO_LP 4 It is	ence: Annexure- C-Specification of KAVACH,
1: Lo Refe page 197. FS_LS_ACK_INFO_LP 2 It is Refe page 198. LS_SR_ACK_INFO_LP 3 It is 3: LS_Refe page 199. FS_SR_ACK_INFO_LP 4 It is	no:-59, C.5.3.
Reference Reference Reference Page	length of 4 bits.
page	co Specific SoS Ack by LP
197. FS_LS_ACK_INFO_LP 2 It is Reference 198. LS_SR_ACK_INFO_LP 3 It is 3: LS_Reference Reference page 199. FS_SR_ACK_INFO_LP 4 It is	ence: Annexure- C-Specification of KAVACH,
Reference Reference Reference Reference Reference Page Reference Reference	no:-59, C.5.3.
page	length of 4 bits. 2: FS to LS Ack by LP
198. LS_SR_ACK_INFO_LP 3 It is 3: LS_Refe page 199. FS_SR_ACK_INFO_LP 4 It is	ence: Annexure- C-Specification of KAVACH,
3: LS Reference page 199. FS_SR_ACK_INFO_LP 4 It is	no:-59, C.5.3.
3: LS Reference page 199. FS_SR_ACK_INFO_LP 4 It is	length of 4 bits.
Reference page 199. FS_SR_ACK_INFO_LP 4 It is	to SR Ack by LP
199. FS_SR_ACK_INFO_LP 4 It is	ence: Annexure- C-Specification of KAVACH,
199. FS_SR_ACK_INFO_LP 4 It is	FO C F 2
	no:-59, C.5.3.
4. F3	no:-59, C.5.3. length of 4 bits.
Refe	
	length of 4 bits.
200. OS_SR_ACK_INFO_LP 5 It is	length of 4 bits. to SR Ack by LP
	length of 4 bits. to SR Ack by LP rence: Annexure- C-Specification of KAVACH,
	length of 4 bits. to SR Ack by LP rence: Annexure- C-Specification of KAVACH, no:-59, C.5.3.
	length of 4 bits. to SR Ack by LP rence: Annexure- C-Specification of KAVACH, no:-59, C.5.3. length of 4 bits.
	length of 4 bits. to SR Ack by LP ence: Annexure- C-Specification of KAVACH, no:-59, C.5.3. length of 4 bits. to SR Ack by LP ence: Annexure- C-Specification of KAVACH,
6: O	length of 4 bits. to SR Ack by LP rence: Annexure- C-Specification of KAVACH, no:-59, C.5.3. length of 4 bits. to SR Ack by LP
Reference page 201. OV_SR_ACK_INFO_LP 6 It is	length of 4 bits. to SR Ack by LP rence: Annexure- C-Specification of KAVACH, no:-59, C.5.3. length of 4 bits.

			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.
202.	INFO_ACK_TRIP_LP	7	It is a length of 4 bits.
			7: Trip Ack by LP
			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.
203.	PTRIP_SR_ACK_INFO_LP	8	It is a length of 4 bits.
			8: PTRIP to SR Ack by LP
			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.
204.	INFO_ACK_AUTO_HORN	9	It is a length of 4 bits.
			9: Auto horn Ack by LP
			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.
205.	TLM_START_INFO_ACK	10	It is a length of 4 bits.
			10: Train Length Measurement (TLM) Start packet
			received Ack from Onboard KAVACH
			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.
206.	TLM_END_INFO_ACK	11	It is a length of 4 bits.
			11: TLM End packet received Ack from Onboard
			KAVACH
			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.
207.	UNUSUAL_STOP_INFO_ACK	12	It is a length of 4 bits.
			12: Unusual Stoppage Ack by LP
			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.
208.	MANUAL_SOS_INFO_ACK	13	It is a length of 4 bits.
			13: Manual SoS Ack by LP
			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.
209.	INFO_ACK_SPARE1	14	It is a length of 4 bits.
			14: Spare
			Reference: Annexure- C-Specification of KAVACH,
212		4=	page no:-59, C.5.3.
210.	INFO_ACK_SPARE2	15	It is a length of 4 bits.
			15: Spare
			Reference: Annexure- C-Specification of KAVACH,
244	CDADE FOR EUTURE 1105		page no:-59, C.5.3.
211.	SPARE_FOR_FUTURE_USE		It is a length of 2 bits.
			FUTURE USE Reference: Appayure C Specification of KAVACII
			Reference: Annexure- C-Specification of KAVACH,
242	LOCO HEALTH STATUS SIZE		page no:-59, C.5.3.
212.	LOCO_HEALTH_STATUS_SIZE	6	It is a length of 6 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-59, C.5.3.

213.	LOCO_HEALTH_STATUS_MIN	0	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-59, C.5.3.
214.	LOCO_HEALTH_STATUS_MAX	63	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-59, C.5.3.
215.	LOCO_HEALTH_STATUS		It is a length of 6 bits. Onboard Kavach health shall be prepared for length of 24bits and same to be included in each radio packet as per below procedure. Each bit indicates status of each sub system in the Onboard Kavach unit. (Only for NMS Logging and report generation) Reference: Annexure- C-Specification of KAVACH, page no:-59, C.5.3.
	Additional	Emerg	ency Packet
216.	GEN_SOS_CALL_SIZE	1	It is a length of 1 bit. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.5
217.	GEN_SOS_CALL	1	It is a length of 1 bit. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.5
218.	NO_GEN_SOS_CALL	0	It is a length of 1 bit. No Station Manual SoS Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.5.
219.	GEN_SOS_CALL_BY_STN	1	It is a length of 1 bit. General SoS Call generated by Stationary unit Conditions: Manual operation of SOS buttons provided on SOIP. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.5.
	Statio	Speed	Profile
220.	SUB_PKT_TYPE	11	It is a length of 4 bits. Reference: Annexure- C-Specification of KAVACH, page no:-44, C.5.2.
221.	SUB_PKT_TYPE_SIZE	4	It is a length of 4 bits. Reference: Annexure- C-Specification of KAVACH, page no:-44, C.5.2.
222.	SUB_PKT_TYPE_MIN	0	It is a length of 4 bits. Reference: Annexure- C-Specification of KAVACH, page no:-44, C.5.2.
223.	SUB_PKT_TYPE_MAX	15	It is a length of 4 bits. Reference: Annexure- C-Specification of KAVACH, page no:-44, C.5.2.

224.	SUB_PKT_TYPE_MA	0	It is a length of 4 bits.
			- 0000: Movement Authority
			Reference: Annexure- C-Specification of KAVACH,
			page no:-44, C.5.2.
225.	SUB_PKT_TYPE_SSP_PROF	1	It is a length of 4 bits.
			- 0001: Static Speed Profile
			Reference: Annexure- C-Specification of KAVACH,
			page no:-44, C.5.2.
226.	SUB_PKT_TYPE_GRAD_PROF	2	It is a length of 4 bits.
			- 0010: Gradient Profile
			Reference: Annexure- C-Specification of KAVACH,
			page no:-44, C.5.2.
227.	SUB_PKT_TYPE_LC_GATE_PROF	3	It is a length of 4 bits.
			- 0011: LC gate profile
			Reference: Annexure- C-Specification of KAVACH,
			page no:-44, C.5.2.
228.	SUB_PKT_TYPE_TURNOUT_SPD_PROF	4	It is a length of 4 bits.
			- 0100: Turnout Speed Profile
			Reference: Annexure- C-Specification of KAVACH,
			page no:-44, C.5.2.
229.	SUB_PKT_TYPE_TAG_LINK_INFO	5	It is a length of 4 bits.
			- 0101: Tag Linking Information
			Reference: Annexure- C-Specification of KAVACH,
			page no:-44, C.5.2.
230.	SUB_PKT_TYPE_TRACK_CONDITION	6	It is a length of 4 bits.
			- 0110: Track Condition data
			Reference: Annexure- C-Specification of KAVACH,
			page no:-44, C.5.2.
231.	SUB_PKT_TYPE_TEMP_SPD_RESTRICT	7	It is a length of 4 bits.
222			-0111:Temporary speed Restrictions Profile
232.	SUB_PKT_TYPE_RESERVED_FU		It is a length of 4 bits.
222	CUR RUT LENGTH CITE		- 1000 to 1111: Reserved for future use
233.	SUB_PKT_LENGTH_SIZE	7	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
224	CLID DET LENGTH CCD	111	page no:-44, C.5.2.
234.	SUB_PKT_LENGTH_SSP	111	It is a length of 7 bits.
			Length in bytes. Max 128 bytes (1024 bits Reference: Annexure- C-Specification of KAVACH,
			·
225	CLID DET LENGTH CCD MANY	120	page no:-44, C.5.2.
235.	SUB_PKT_LENGTH_SSP_MAX	128	It is a length of 7 bits.
			Length in bytes. Max 128 bytes (1024 bits.
			Reference: Annexure-C-Specification of KAVACH,
226	CLID DIZT LENGTH CCD AAIN	1	page no:-44, C.5.2.
236.	SUB_PKT_LENGTH_SSP_MIN	1	It is a length of 7 bits.
			Length in bytes. Max 128 bytes (1024 bits
			Reference: Annexure- C-Specification of KAVACH,
			page no:-44, C.5.2.

238. LM_SPD_INFO_CNT 11 239. LM_SPD_INFO_CNT_MIN 1 240. LM_SPD_INFO_CNT_MAX 31	page no:-44, C.5.2. It is a length of 5 bits. Reference: Annexure- C-Specification of KAVACH, page no:-44, C.5.2. It is a length of 5 bits. Reference: Annexure- C-Specification of KAVACH, page no:-44, C.5.2. It is a length of 5 bits. Reference: Annexure- C-Specification of KAVACH,
239. LM_SPD_INFO_CNT_MIN 1 240. LM_SPD_INFO_CNT_MAX 31	It is a length of 5 bits. Reference: Annexure- C-Specification of KAVACH, page no:-44, C.5.2. It is a length of 5 bits.
	<u> </u>
	page no:-44, C.5.2.
	It is a length of 15 bits. Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 15 bits. Value in meters i.e. ranging from 0 – 32.76 km Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 15 bits. Value in meters i.e. ranging from 0 – 32.76 km Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 15 bits. Value in meters i.e. ranging from 0 – 32.76 km Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 1 bits. Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 1 bits. 0 – Universal Speed will follow 1 – Classified Speeds A,B,C will follow Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 1 bits. 0 – Universal Speed will follow Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 1 bits. 1 – Classified Speeds A,B,C will follow Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 1 bits. Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
	It is a length of 1 bits.
249. LM_STATIC_SPD_CLASS_MIN 0	Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2. It is a length of 1 bits. Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.

			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
251.	LM_STATIC_SPD_VALUE_SIZE	6	It is a length of 6 bits.
231.	LIVI_STATIC_SFD_VALUE_SIZE	U	Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
252.	LM_STATIC_SPD_VALUE	19	It is a length of 6 bits.
252.	LIVI_STATIC_SPD_VALUE	19	
			Reference: Annexure- C-Specification of KAVACH,
252	INA CTATIC CDD VALLE MANY	C2	page no:-45, C.5.2.
253.	LM_STATIC_SPD_VALUE_MAX	63	It is a length of 6 bits.
			0: Reserved 1- 50: 5-250 Kmph, Speed in steps of
			5kmph. Max Speed = 250 kmph 5161 : Reserved
			for future use 62 – 8 Kmph 63 : Unknown
			Reference: Annexure- C-Specification of KAVACH,
25.4	LAA STATIO SEE WALLE ANN		page no:-45, C.5.2.
254.	LM_STATIC_SPD_VALUE_MIN	0	It is a length of 6 bits.
			0: Reserved 1- 50: 5-250 Kmph, Speed in steps of
			5kmph. Max Speed = 250 kmph 5161 : Reserved
			for future use 62 – 8 Kmph 63 : Unknown
			Reference: Annexure- C-Specification of KAVACH,
255	LAA CTATIC CDEED VALUE LINUVEDCA	0	page no:-45, C.5.2.
255.	LM_STATIC_SPEED_VALUE_UNIVERSA	0	It is a length of 6 bits.
	L		Universal Static Speed
			Reference: Annexure- C-Specification of KAVACH,
256	LAA CTATIC CREED WALLCAT A	4	page no:-45, C.5.2.
256.	LM_STATIC_SPEED_VAL_CAT_A	1	It is a length of 6 bits.
			Static Speed for Category A Trains (LE / Passenger
			Trains)
			Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
257.	INA STATIC SPEED VAL CAT P	1	It is a length of 6 bits.
257.	LM_STATIC_SPEED_VAL_CAT_B	1	Static Speed for Category B Trains (Loaded Goods
			Trains)
			•
			Reference: Annexure- C-Specification of KAVACH,
258.	INA STATIC SPEED VALUATIO	1	page no:-45, C.5.2. It is a length of 6 bits.
258.	LM_STATIC_SPEED_VAL_CAT_C	1	Static Speed for Category C Trains (Empty Goods
			Trains)
			Reference: Annexure- C-Specification of KAVACH, page no:-45, C.5.2.
		••	1
	Grad	dient P	rotile
259.	SUB_PKT_LENGTH_GRAD_SIZE	7	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
260.	SUB_PKT_LENGTH_GRAD	111	It is a length of 7 bits.
	_ _		Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
261.	SUB_PKT_LENGTH_GRAD_MIN	1	It is a length of 7 bits.
			- U

			Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
262.	SUB_PKT_LENGTH_GRAD_MAX	128	It is a length of 7 bits.
202.	30B_1 K1_EENGT11_GIVAB_IVAV	120	Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
263.	LM GRAD INFO CNT SIZE	5	It is a length of 5 bits.
203.	ENT_010/10_1111 0_0111_312E		Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
264.	LM_GRAD_INFO_CNT	11	It is a length of 5 bits. 1 to 31
201.	2W_6W_B_W 6_6W		Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
265.	LM_GRAD_INFO_CNT_MIN	1	It is a length of 5 bits.
203.	211_01015_1111 0_0111_111111	_	Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
266.	LM_GRAD_INFO_CNT_MAX	31	It is a length of 5 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
267.	LM_GRADENT_DIST_SIZE	15	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
268.	LM_GRADENT_DIST	111	It is a length of 15 bits.
			Value in meters i.e. ranging from 0 – 32.76 km
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
269.	LM_GRADENT_DIST_MIN	0	It is a length of 15 bits.
			Value in meters i.e. ranging from 0 – 32.76 km
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
270.	LM_GRADENT_DIST_MAX	32767	It is a length of 15 bits.
			Value in meters i.e. ranging from 0 – 32.76 km
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
271.	LM_GDIR_SIZE	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
272.	LM_GDIR	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
273.	LM_GDIR_MIN	0	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
274.	LM_GDIR_MAX	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
275.	LM_DOWNHILL_GDIR	0	It is a length of 1 bits.

			0 1 1 111
			0 = downhill
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
276.	LM_UPHILL_GDIR	1	It is a length of 1 bits.
			1 = uphill
			Reference: Annexure- C-Specification of KAVACH,
			page no:-45, C.5.2.
277.	LM_GRADIENT_VALUE_SIZE	5	It is a length of 5 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-46, C.5.2.
278.	LM GRADIENT VALUE	11	It is a length of 5 bits.
278.	LIVI_GNADILIVI_VALUE	11	This is the absolute value of the average gradient
			between two defined position as described in
			Annexure-I . Values lie between 0 to 30. Value 31:
			reserved.
			n : Gradient from "1 in (1000/n)" to not steeper
			than "1 in {1000/(n+1)}"
			Reference: Annexure- C-Specification of KAVACH,
			page no:-46, C.5.2.
279.	LM_GRADIENT_VALUE_MIN	0	It is a length of 5 bits.
			0: Gradient not steeper than "1 in 1000". Includes
			Level Gradient
			n : Gradient from "1 in (1000/n)" to not steeper
			than "1 in {1000/(n+1)}"
			Reference: Annexure- C-Specification of KAVACH,
			page no:-46, C.5.2.
280.	LM_GRADIENT_VALUE_MAX	31	It is a length of 5 bits.30:Gradient steeper than "1
			in 33" , 31: Reserved
			Reference: Annexure- C-Specification of KAVACH,
			page no:-46, C.5.2.
	ıc	Gate p	
204			
281.	SUB_PKT_LENGTH_LC_SIZE	7	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-46, C.5.2.
282.	SUB PKT LENGTH LC	111	It is a length of 7 bits.
-32.	<u> </u>		Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-46, C.5.2.
283.	SLIB DET LENGTH IC MIN	1	It is a length of 7 bits.
203.	SUB_PKT_LENGTH_LC_MIN	1	
			Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
		15-	page no:-46, C.5.2.
284.	SUB_PKT_LENGTH_LC_MAX	128	It is a length of 7 bits.
			Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-46, C.5.2.

285.	LM_LC_INFO_CNT_SIZE	5	It is a length of 5 bits. Reference: Annexure- C-Specification of KAVACH, page no:-46, C.5.2.
286.	LM_LC_INFO_CNT	11	It is a length of 5 bits. 0 to 31 Reference: Annexure- C-Specification of KAVACH, page no:-46, C.5.2.
287.	LM_LC_INFO_CNT_MIN	0	It is a length of 5 bits. Reference: Annexure- C-Specification of KAVACH, page no:-46, C.5.2.
288.	LM_LC_INFO_CNT_MAX	31	It is a length of 5 bits. Reference: Annexure- C-Specification of KAVACH, page no:-46, C.5.2.
289.	LM_LC_DISTANCE_SIZE	15	It is a length of 15 bits. Reference: Annexure- C-Specification of KAVACH, page no:-46, C.5.2.
290.	LM_LC_DISTANCE_MIN	0	It is a length of 15 bits. Value in meters i.e. ranging from 0 – 32.76 km Reference: Annexure- C-Specification of KAVACH, page no:-46, C.5.2.
291.	LM_LC_DISTANCE_MAX	32767	It is a length of 15 bits. Value in meters i.e. ranging from 0 – 32.76 km Reference: Annexure- C-Specification of KAVACH, page no:-46, C.5.2.
292.	LM_LC_DISTANCE	111	It is a length of 15 bits. Value in meters i.e. ranging from 0 – 32.76 km Reference: Annexure- C-Specification of KAVACH, page no:-46, C.5.2.
293.	LM_LC_ID_NUMERIC_SIZE	10	It is a length of 10 bits. Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
294.	LM_LC_ID_NUMERIC	111	It is a length of 10 bits. Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
295.	LM_LC_ID_INVALID_NUMERIC	0	It is a length of 10 bits. 0: Invalid Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
296.	LM_LC_ID_VALID_NUMERIC	111	It is a length of 10 bits. 1 – 1021: LC Gate Number Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
297. LN	M_LC_ID_NUMERIC_OUT_OF_RANGE	1022	It is a length of 10 bits. 1022: LC Gate Number other than 1 to 1022 - out of range Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
I I			

			1022: Cress
			1023: Spare
			Reference: Annexure- C-Specification of KAVACH,
200	104 10 10 41014 01514 017		page no:-47, C.5.2.
299.	LM_LC_ID_ALPHA_SUFIX_SIZE	3	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
300.	LM_LC_ID_ALPHA_NO_SUFIX	0	It is a length of 3 bits.
			No suffix
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
301.	LM_LC_ID_ALPHA_SUFIX_A	1	It is a length of 3 bits.
			a,
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
302.	LM_LC_ID_ALPHA_SUFIX_B	2	It is a length of 3 bits.
			b,
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
303.	LM LC ID ALPHA SUFIX C	3	It is a length of 3 bits.
303.	E.W26_18_3	J	C,
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
304.	LM_LC_ID_ALPHA_SUFIX_D	4	It is a length of 3 bits.
304.	LIVI_LC_ID_ALI TIA_301 IX_D	7	D
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
305.	IM IC ID AIDHA SHEIV E	5	It is a length of 3 bits.
303.	LM_LC_ID_ALPHA_SUFIX_E	5	9
			E, Reference : Annexure- C-Specification of
206	LAA LC ID ALDUA CHEW OUT OF DA		KAVACH, page no:-47, C.5.2.
306.	LM_LC_ID_ALPHA_SUFIX_OUT_OF_RA	6	It is a length of 3 bits.
	NGE		Out of Range (Display xx on DMI)
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
307.	LM_LC_ID_ALPHA_SUFIX_SPARE	7	It is a length of 3 bits.
			Spare
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
308.	LM_LC_MANNING_TYPE_SIZE	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
309.	LM_LC_MANNING_TYPE	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
310.	LM_LC_MANNED_TYPE	0	It is a length of 1 bits.
			0 : Manned,
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
			F=0= / 5

311.	LM_LC_MANNING_TYPE_MIN	0	It is a length of 1 bits. Reference: Annexure- C-Specification of KAVACH,
312.	LM_LC_MANNING_TYPE_MAX	1	page no:-47, C.5.2. It is a length of 1 bits. Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
313.	LM_LC_CLASS_SIZE	3	It is a length of 3 bits. Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
314.	LM_LC_CLASS	4	It is a length of 3 bits. Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
315.	LM_LC_CLASS_MIN	0	It is a length of 3 bits. Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
316.	LM_LC_CLASS_MAX	7	It is a length of 3 bits. Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
317.	LM_LC_UNMANNED_TYPE	1	It is a length of 1 bits. 1: Unmanned Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
318.	LM_LC_SPL_CLASS	0	It is a length of 3 bits. Special Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
319.	LM_LC_CLASS_A	1	It is a length of 3 bits. A Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
320.	LM_LC_CLASS_B1	2	It is a length of 3 bits, B1 Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
321.	LM_LC_CLASS_B2	3	It is a length of 3 bits. B2 Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
322.	LM_LC_CLASS_B	4	It is a length of 3 bits. B Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
323.	LM_LC_CLASS_C	5	It is a length of 3 bits. C Reference: Annexure- C-Specification of KAVACH, page no:-47, C.5.2.
324.	LM_LC_CLASS_D	6	It is a length of 3 bits. D Reference: Annexure- C-Specification of KAVACH,

			page no:-47, C.5.2.
325.	LM LC CLASS SPARE	7	It is a length of 3 bits.
		-	SPARE
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
326.	LM_LC_AUTO_WHISTLING_ENABLED_	1	It is a length of 1 bits.
	SIZE		Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
327.	LM_LC_AUTO_WHISTLING_ENABLED	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
328.	LM_LC_AUTO_WHISTLING_NOT_ENAB	0	It is a length of 1 bits.
	LED		0 : No, 1 : Yes
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
329.	LM_LC_AUTO_WHISTLING_ENABLED	1	It is a length of 1 bits.
			0 : No, 1 : Yes
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
330.	LM_LC_AUTO_WHISTLING_DIST_TYPE	2	It is a length of 2 bits.
	_SIZE		Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
331.	LM_LC_AUTO_WHISTLING_DIST_TYPE	3	It is a length of 2 bits.
	_MAX		Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
332.	LM_LC_AUTO_WHISTLING_DIST_TYPE	0	It is a length of 2 bits. Reference : Annexure- C-
222	_MIN		Specification of KAVACH, page no:-47, C.5.2.
333.	LM_LC_AUTO_WHISTLING_DIST_TYPE	0	It is a length of 2 bits. OD Distance Based
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
334.	LM_LC_AUTO_WHISTLING_TIMBASED	1	It is a length of 2 bits.
334.	LIVI_LC_AOTO_WINSTEING_INVIDASED	1	01 Time Based (Not Used)
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
335.	LM_LC_AUTO_WHISTLING_COFIG_PA	2	It is a length of 2 bits.
	TTERN_BASED	_	10 Configured Pattern Based (Not Used)
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
336.	LM_LC_AUTO_WHISTLING_SPARE	3	It is a length of 2 bits.
	 _		11 Spare
			Reference: Annexure- C-Specification of KAVACH,
			page no:-47, C.5.2.
	Turnou	t Speed	d Profile
337.	SUB_PKT_LENGTH_TSP_SIZE	7	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-48, C.5.2.

338.	SUB_PKT_LENGTH_TSP	111	It is a length of 7 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
339.	SUB_PKT_LENGTH_TSP_MAX	128	It is a length of 7 bits. Length in bytes. Max 128 bytes (1024 bits) Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
340.	SUB_PKT_LENGTH_TSP_MIN	1	It is a length of 7 bits. Length in bytes. Max 128 bytes (1024 bits) Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
341.	TO_CNT_SIZE	2	It is a length of 2 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
342.	TO_CNT	3	It is a length of 2 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
343.	NO_TO_CNT	0	It is a length of 2 bits.0: No turnouts Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
344.	TO_CNT_MAX	3	It is a length of 2 bits. 1-3: No of turnouts follow Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
345.	TO_CNT_MIN	1	It is a length of 2 bits. 1-3: No of turnouts follow Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
346.	TO_SPEED_SIZE	5	It is a length of 5 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
347.	TO_SPEED_MIN	0	It is a length of 5 bits. Not Used Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
348.	TO_SPEED_MAX	32	It is a length of 5 bits. Unrestricted Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
349.	TO_SPEED_5KMPH	1	It is a length of 5 bits. Up to 5 kmph Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
350.	TO_SPEED_10KMPH	2	It is a length of 5 bits. Up to 10 kmph Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.

351.	TO_SPEED_15KMPH	3	It is a length of 5 bits. Up to 15 kmph Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
352.	TO_SPEED_RESERVED_FU		It is a length of 5 bits. 10011- 11110 Reserved for future use Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
353.	DIFF_DIST_TO_SIZE	15	It is a length of 15 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
354.	DIFF_DIST_TO	111	It is a length of 15 bits. Only If TO_SPEED = restricted, DIFF_DIST_TO variable follow. Starting Distance of the turnout from last reference RFID. Value in meters i.e. ranging from 0 – 32.76 km Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
355.	DIFF_DIST_TO_MIN	0	It is a length of 15 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
356.	DIFF_DIST_TO_MAX	32767	It is a length of 15 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
357.	TO_SPEED_REL_DIST_SIZE	12	It is a length of 12 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
358.	TO_SPEED_REL_DIST	111	It is a length of 12 bits. Only If TO_SPEED = restricted, DIFF_DIST_TO variable follow. Turnout release distance. Value in meters i.e. ranging from 0 - 4095 m. Value to be given up to end of turnout or up to other location will be defined by railways Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
359.	TO_SPEED_REL_DIST_MAX	4095	It is a length of 12 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
360.	TO_SPEED_REL_DIST_MIN	0	It is a length of 12 bits. Reference: Annexure- C-Specification of KAVACH, page no:-48, C.5.2.
	Tag Link	king Inf	ormation
361.	SUB_PKT_LENGTH_TLI_SIZE	7	It is a length of 7 bits. Reference: Annexure- C-Specification of KAVACH, page no:-49, C.5.2.
362.	SUB_PKT_LENGTH_TLI	111	It is a length of 7 bits. Length in bytes. Max 128 bytes (1024 bits).

			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
363.	SUB_PKT_LENGTH_TLI_MIN	1	It is a length of 7 bits.
			Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
364.	SUB_PKT_LENGTH_TLI_MAX	128	It is a length of 7 bits.
			Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
365.	DIST_DUP_TAG_SIZE	4	It is a length of 4 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
366.	DIST_DUP_TAG	11	It is a length of 4 bits.
			Distance between Main and duplicate tag.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
367.	DIST_DUP_TAG_MIN	0	It is a length of 4 bits. Reference: Annexure- C-
			Specification of KAVACH, page no:-49, C.5.2.
368.	DIST_DUP_TAG_MAX	15	It is a length of 4 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
369.	DIST_DUP_TAG_LESSTHAN_1MTR	0	It is a length of 4 bits.
			0000 shall be sent when the tags are placed closer
			than 1 meter.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
370.	DIST_DUP_TAG_INVALID	15	It is a length of 4 bits. 1111 is invalid
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
371.	ROUTE_RFID_CNT_SIZE	6	It is a length of 6 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
372.	ROUTE_RFID_CNT	11	It is a length of 6 bits.
			List of expected approaching RFID tags from
			reference position up to the End of Authority.
			Station updates the new list only when required.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
373.	ROUTE_RFID_CNT_MIN	0	It is a length of 6 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
374.	ROUTE_RFID_CNT_MAX	63	It is a length of 6 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
375.	NO_ROUTE_RFID_CNT	0	It is a length of 6 bits.
			0: No tag shall be crossed by Onboard KAVACH.
			or the tag strain be disseasely official to to term

			e.g.: In approach of danger signal.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
376.	EXPECTED_ROUTE_RFID_CNT	11	It is a length of 6 bits.
			1-62: expected route RFID count. Only If RFID_CNT
			= 1 to 62, RFID_TAG and LINK_REACTION variables
			follow. Reference: Annexure- C-Specification of
			KAVACH, page no:-49, C.5.2.
377.	UNKNOWN ROUTE RFID CNT	63	It is a length of 6 bits.
	00000		63 unknown route (15 Kmph speed restriction in
			OS mode).Only If RFID_CNT = 1 to 62, RFID_TAG
			and LINK_REACTION variables follow
			Reference: Annexure- C-Specification of KAVACH,
			page no:-49, C.5.2.
378.	DICT NIVE DEID CIZE	11	It is a length of 11 bits.
376.	DIST_NXT_RFID_SIZE	11	
			Reference: Annexure- C-Specification of KAVACH,
270	DICT ANYT DEID	444	page no:-50, C.5.2.
379.	DIST_NXT_RFID	111	It is a length of 11 bits.
			Distance of next RFID from previous RFID (first tag
			will be from last reference RFID) in meters i.e.
			2047 meter.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
380.	DIST_NXT_RFID_MAX	2047	It is a length of 11 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
381.	DIST_NXT_RFID_MIN	0	It is a length of 11 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
382.	NXT_RFID_TAG_ID_SIZE	10	It is a length of 10 bits.
			Next RFID Tag ID
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
383.	NXT RFID TAG ID	111	It is a length of 10 bits.
			Next RFID Tag ID
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
384.	NXT_RFID_TAG_ID_MIN	0	It is a length of 10 bits.
301.	10X1_III ID_IX6_ID_IVIII1		Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
385.	NXT_RFID_TAG_ID_MAX	1023	It is a length of 10 bits.
365.	INVI_VLID_LAG_ID_INIAV	1023	_
			Reference: Annexure- C-Specification of KAVACH,
200	DUD TAC DID CITE	1	page no:-50, C.5.2.
386.	DUP_TAG_DIR_SIZE	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.

207	DUD TAC DID	1	It is a longth of 1 hits
387.	DUP_TAG_DIR	1	It is a length of 1 bits.
			Linking Direction of Duplicate Tag w.r.t Main Tag
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
388.	DUP_TAG_DIR_NOM	0	It is a length of 1 bits.
			0: Duplicate Tag in Nominal Direction (+)/No
			Linking distance correction is required for T-Tag
			and A-Tag
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
389.	DUP_TAG_DIR_REVERSE	1	It is a length of 1 bits.
			1: Duplicate Tag in Reverse Direction (-)
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
390.	DUP_TAG_DIR_MAX	1	It is a length of 1 bits. Reference: Annexure- C-
330.	DOF_IAG_DIN_IVIAX	1	
201	DUD TAC DID AMAI		Specification of KAVACH, page no:-50, C.5.2.
391.	DUP_TAG_DIR_MIN	0	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
		_	page no:-50, C.5.2.
392.	ABS_LOC_RESET_SIZE	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
393.	ABS_LOC_RESET_MAX	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
394.	ABS_LOC_RESET_MIN	0	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
395.	ABS_LOC_RESET	1	It is a length of 1 bits.
		_	0 – No Location Error (The following bits will not
			be padded)
			1 – Location Correction (New Section) Location
			shall get corrected in block section after 100m from Advance Starter.
			Reference: Annexure- C-Specification of KAVACH,
200	NO 100 100 77777		page no:-50, C.5.2.
396.	NO_ABS_LOC_ERROR	0	It is a length of 1 bits.
			0 – No Location Error (The following bits will not
			be padded)
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
397.	ABS_LOC_RESET_NEEDED	1	It is a length of 1 bits.
	_		1 – Location Correction (New Section) Location
			shall get corrected in block section after 100m
			from Advance Starter. Onboard shall not apply
			brakes due to any of these reasons. When this
			information is not available, linking distance given
			I mormation is not available, linking distance given

398.	START_DIST_TO_ LOC_RESET_SIZE	15	in N-tag shall be used to avoid abnormal train trip due to location correction. Station shall able to transmit MA, SSP, and TSR and maintain radio communication even after location reset. Only If ABS_LOC_RESET>0, below variables follow. In Given MA, single location reset is considered. Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2. It is a length of 15 bits. Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
399.	START_DIST_TO_ LOC_RESET_MIN	0	It is a length of 15 bits. Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
400.	START_DIST_TO_LOC_RESET_MAX	32767	It is a length of 15 bits. Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
401.	START_DIST_TO_LOC_RESET	111	It is a length of 15 bits. This is the start distance of the Normal tag (from the Onboard current location) in which location correction is done. Value in meters. Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
402.	ADJ_LOCO_DIR_SIZE	2	It is a length of 2 bits. Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
403.	ADJ_LOCO_DIR	3	It is a length of 2 bits. This is expected Onboard direction after passing location correction N-tag Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
404.	ADJ_LOCO_DIR_MAX	3	It is a length of 2 bits. Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
405.	ADJ_LOCO_DIR_MIN	0	It is a length of 2 bits. Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
406.	ADJ_LOCO_DIR_UNKNOWN	0	It is a length of 2 bits, 00 – Not Known Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
407.	ADJ_LOCO_DIR_NOM	1	It is a length of 2 bits. 01 – Nominal Reference: Annexure- C-Specification of KAVACH, page no:-50, C.5.2.
408.	ADJ_LOCO_DIR_REVERSE	2	It is a length of 2 bits. 10 – Reverse Reference: Annexure- C-Specification of KAVACH,

			page no:-50, C.5.2.
409.	ADJ_LOCO_DIR_DEDUCE_FROM_TAGS	3	It is a length of 2 bits.
			11 – Deduce from Tags
			Reference: Annexure- C-Specification of KAVACH,
			page no:-50, C.5.2.
410.	ABS_LOC_CORRECTION_SIZE	23	It is a length of 23 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
411.	ABS_LOC_CORRECTION_MAX	8388607	It is a length of 23 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
412.	ABS_LOC_CORRECTION_MIN	0	It is a length of 23 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
413.	ABS_LOC_CORRECTION	111	It is a length of 23 bits.
			This is the new absolute location from
			Adjustment/Junction Tag location correction
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
414.	ADJ_LINE_CNT_SIZE	3	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
415.	ADJ_LINE_CNT_MAX	7	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
416.	ADJ_LINE_CNT_MIN	0	It is a length of 3 bits.
			Reference: Annexure- C-Specification of KAVACH,
		_	page no:-51, C.5.2.
417.	ADJ_LINE_CNT	3	It is a length of 3 bits. Adjacent line TINs along the
			MA for unusual stoppage detection.
			Reference: Annexure- C-Specification of KAVACH,
440	NO ADJUNE OUT	0	page no:-51, C.5.2.
418.	NO_ADJ_LINE_CNT	0	It is a length of 3 bits. 0: No adjacent lines, Self
			block section TIN will follow.
			Reference: Annexure- C-Specification of KAVACH,
410	ADI LINE CNT INC BLOCK SEC	1	page no:-51, C.5.2.
419.	ADJ_LINE_CNT_INC_BLOCK_SEC	T	It is a length of 3 bits. 1-5: Number of Adjacent lines including occupied
			self block section TIN.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
420.	ADJ_LINE_CNT_RESERVED	6	It is a length of 3 bits. 6: Reserved
420.	ADJ_LINE_CIAL_I/ESEI/AFD	J	Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
421.	ADJ_LINE_CNT_UNKNOWN	7	It is a length of 3 bits. 7: unknown
721.	7.03_E.14E_C.41_O.44K14O.4414	,	Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
			Puge 110. 31, 6.3.2.

422	ADI LINE TIN CIZE		It is a laweth of O hits
422.	ADJ_LINE_TIN_SIZE	9	It is a length of 9 bits.
			Reference: Annexure- C-Specification of KAVACH,
422	ADL LINE TIN MAN	F11	page no:-51, C.5.2.
423.	ADJ_LINE_TIN_MAX	511	It is a length of 9 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
424.	ADJ_LINE_TIN_MIN	0	It is a length of 9 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
425.	SELF_ADJ_LINE_TIN	111	It is a length of 9 bits.
			Self and Adjacent Line TIN Only If ADJ_LINE_CNT =
			0 to 5, LINE_TIN variable will follow
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
	Track	Conditi	ion Data
426.	SUB_PKT_LENGTH_TC_SIZE	7	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
427.	SUB_PKT_LENGTH_TC_MAX	128	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
428.	SUB_PKT_LENGTH_TC_MIN	1	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
429.	SUB_PKT_LENGTH_TC	111	It is a length of 7 bits.
			Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
430.	TRACKCOND_CNT_SIZE	4	It is a length of 4 bits.
			Track condition in MA region from reference RFID
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
431.	TRACKCOND CNT MAX	15	It is a length of 4 bits.
			Track condition in MA region from reference RFID
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
432.	TRACKCOND CNT MIN	0	It is a length of 4 bits.
			Track condition in MA region from reference RFID
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
433.	TRACKCOND_CNT	11	It is a length of 4 bits.
	· · · · · · · · · · · · · · · · · · ·		Track condition in MA region from reference RFID
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
434.	TRACK_COND_TYPE_SIZE	4	It is a length of 4 bits.
.5			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
		1	Page 110. 31, C.3.2.

435.	TRACK_COND_TYPE	11	It is a length of 4 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
436.	TRACK_COND_TYPE_MAX	15	It is a length of 4 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2.
437.	TRACK_COND_TYPE_MIN	0	It is a length of 4 bits.
			Reference: Annexure- C-Specification of KAVACH,
400	TRACK COMP. TVPF MOT LIGER	•	page no:-51, C.5.2.
438.	TRACK_COND_TYPE_NOT_USED	0	It is a length of 4 bits.
			0000: Not used
			Reference: Annexure- C-Specification of KAVACH,
439.	TRACK_COND_TYPE_ DEAD_STOP	1	page no:-51, C.5.2. It is a length of 4 bits.
439.	TRACK_COND_TTPE_ DEAD_STOP	1	0001: Dead Stop
			Reference: Annexure- C-Specification of KAVACH,
			page no:-51, C.5.2
440.	TRACK COND TYPE RADIO HOLE	2	It is a length of 4 bits.
140.	TWICK_COND_TTT E_IVIDIO_TTOLE	2	0010: Radio hole (MA is valid up to Comm. fail
			time out)
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
441.	TRACK_COND_TYPE_NON_STOP	3	It is a length of 4 bits.
			0011: Non stopping area
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
442.	TRACK_COND_TYPE_TUNNEL	4	It is a length of 4 bits.
			0100: Tunnel stopping area
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
443.	TRACK_COND_TYPE_NEUTRAL	5	It is a length of 4 bits.
			0101: Powerless section (Neutral section)
			Reference: Annexure- C-Specification of KAVACH,
	TRACK COMP. TVCT. COMM. VICTOR	•	page no:-52, C.5.2.
444.	TRACK_COND_TYPE_SOUND_HORN	6	It is a length of 4 bits. 0110: Sound horn
			Reference: Annexure- C-Specification of KAVACH,
4.45	TRACK COMP TYPE BEY ABEA	7	page no:-52, C.5.2.
445.	TRACK_COND_TYPE_REV_AREA	7	It is a length of 4 bits. 0111: Reversing area
			Reference: Annexure- C-Specification of KAVACH,
110	TRACK COND TYPE FOLLOWS	8	page no:-52, C.5.2.
446.	TRACK_COND_TYPE_FOULING	δ	It is a length of 4 bits.
			1000: Fouling Mark location Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
447.	TRACK_COND_TYPE_TERR_EXIT	9	It is a length of 4 bits.
	INACK_COND_ITEL_ILIKK_LAIT	3	1001: KAVACH Territory Exit. (Not to validate RFID
			linking beyond this location).
			mining beyond this locations.

			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
448.	TRACK_COND_TYPE_RESERVED_FU		It is a length of 4 bits.
			1010 to 1111: Reserved for future use
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
449.	START_DIST_TRACKCOND_SIZE	15	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
450.	START_DIST_TRACKCOND_MAX	32767	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
451.	START_DIST_TRACKCOND_MIN	0	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
452.	START DIST TRACKCOND	111	It is a length of 15 bits. Start distance to Track
.52.	on an _biol_material		condition from reference RFID.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
453.	LENGTH_TRACKCOND_SIZE	15	It is a length of 15 bits. Length of the Track
755.	EENGTII_TIVACACOND_SIZE		condition. Value in meters i.e. ranging from 0 –
			New 32.76 km.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
454.	LENGTH_TRACKCOND_MIN	0	It is a length of 15 bits, Length of the Track
13	zzivern_nviencenz_wwv		condition. Value in meters i.e. ranging from 0 –
			New 32.76 km. Reference : Annexure- C-
			Specification of KAVACH, page no:-52, C.5.2.
455.	LENGTH_TRACKCOND_MAX	32767	It is a length of 15 bits.
755.	LENGTH_HATCHCOND_IVI/A	32707	Length of the Track condition. Value in meters i.e.
			ranging from 0 – New 32.76 km.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
456.	LENGTH_TRACKCOND	111	It is a length of 15 bits.
750.	LENGTH_HAVERCOND	111	Length of the Track condition. Value in meters i.e.
			ranging from 0 – New 32.76 km.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
	T		
			striction Profile
457.	SUB_PKT_LENGTH_TSR_SIZE	7	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
458.	SUB_PKT_LENGTH_TSR_MAX	128	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
459.	SUB_PKT_LENGTH_TSR_MIN	1	It is a length of 7 bits.
			Reference: Annexure- C-Specification of KAVACH,

			page no:-52, C.5.2.
460.	SUB_PKT_LENGTH_TSR	111	It is a length of 7 bits.
			Length in bytes. Max 128 bytes (1024 bits).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
461.	TSR_STATUS_SIZE	2	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
462.	TSR_STATUS_MIN	0	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
463.	TSR_STATUS_MAX	3	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
464.	TSR_STATUS	1	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
465.	NO_TSR_STATUS	0	It is a length of 2 bits.
			00 – No applicable TSR for the current MA.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
466.	NO_LATEST_TSR_STATUS	1	It is a length of 2 bits.
			01 – No Latest TSR Information (Onboard KAVACH
			shall transit to SR Mode, No MA to be extended by
			Stationary KAVACH).
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
467.	TSR_STATUS_LATEST	2	It is a length of 2 bits.
			10 – Latest TSR Information
			Reference: Annexure- C-Specification of KAVACH,
			page no:-52, C.5.2.
468.	TSR_STATUS_RESERVED	3	It is a length of 2 bits.
			11 – Reserved
			Reference: Annexure- C-Specification of KAVACH,
150			page no:-52, C.5.2.
469.	TSR_INFO_CNT_SIZE	5	It is a length of 5 bits.
			Reference: Annexure- C-Specification of KAVACH,
170		-	page no:-53, C.5.2.
470.	TSR_INFO_CNT_MAX	31	It is a length of 5 bits.
			Reference: Annexure- C-Specification of KAVACH,
474	TCD INITO COLT AND		page no:-53, C.5.2.
471.	TSR_INFO_CNT_MIN	0	It is a length of 5 bits.
			Reference: Annexure- C-Specification of KAVACH,
4=0	TCD 14150 0115		page no:-53, C.5.2.
472.	TSR_INFO_CNT	11	It is a length of 5 bits. Reference: Annexure- C-
470	TCD 1D 0177		Specification of KAVACH, page no:-53, C.5.2.
473.	TSR_ID_SIZE	8	It is a length of 8 bits.

			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
474.	TSR_ID_MAX	255	It is a length of 8 bits. Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
475.	TSR_ID_MIN	0	It is a length of 8 bits.
.,5.	19.115111		Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
476.	TSR_ID	111	It is a length of 8 bits.
	_		This is the ID of TSR received from TSR
			management system.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
477.	TSR_DISTANCE_SIZE	15	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
478.	TSR_DISTANCE_MAX	32767	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
479.	TSR_DISTANCE_MIN	0	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
480.	TSR_DISTANCE	111	It is a length of 15 bits.
			This is the distance to TSR starting point from
			reference RFID. Value in meters i.e. ranging from 0 – 32.76 km.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
481.	TSR_LENGTH_SIZE	15	It is a length of 15 bits.
101.	1311_22113111_3122	13	Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
482.	TSR_LENGTH_MAX	32767	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
483.	TSR LENGTH MIN	0	It is a length of 15 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
484.	TSR_LENGTH	111	It is a length of 15 bits.
			Length of TSR. Value in meters i.e. ranging from 0
			– 32.76km.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.
485.	TSR_CLASS_SIZE	1	It is a length of 1 bits. Reference: Annexure- C-
			Specification of KAVACH, page no:-53, C.5.2.
486.	TSR_CLASS_MAX	1	It is a length of 1 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-53, C.5.2.

487.	TSR_CLASS_MIN	0	It is a length of 1 bits. Reference: Annexure- C-Specification of KAVACH,
488.	TSR_CLASS_UNIVERSAL	0	page no:-53, C.5.2. It is a length of 1 bits. 0 – Universal Speed Reference: Annexure- C-Specification of KAVACH,
489.	TSR_CLASS_CLASSIFIED	1	page no:-53, C.5.2. It is a length of 1 bits.
			1 – Classified Speed Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
490.	TSR_UNIVERSAL_SPEED_SIZE	6	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
491.	TSR_UNIVERSAL_SPEED	11	It is a length of 6 bits. only if Q_TSR_CLASS = 0, LM_TSR_Universal_Speed variable follow Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
492.	TSR_UNIVERSAL_SPEED_MIN	0	It is a length of 6 bits. only if Q_TSR_CLASS = 0, LM_TSR_Universal_Speed variable follow Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
493.	TSR_UNIVERSAL_SPEED_MAX	63	It is a length of 6 bits. only if Q_TSR_CLASS = 0, LM_TSR_Universal_Speed variable follow Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
494.	TSR_UNIVERSAL_SPEED_DEAD_STOP	0	It is a length of 6 bits. Dead stop Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
495.	TSR_UNIVERSAL_SPEED_RESERVED_F U		It is a length of 6 bits. Reserved for future use Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
496.	TSR_UNIVERSAL_SPEED_8	62	It is a length of 6 bits. 8 kmph Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
497.	TSR_UNIVERSAL_SPEED_UNKNOWN	3	It is a length of 6 bits. Unknown Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
498.	TSR_CLASSA_SPEED_SIZE	6	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH,

			page no:-53, C.5.2.
499.	TSR_CLASSA_SPEED_MAX	63	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
500.	TSR_CLASSA_SPEED_MIN	0	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
501.	TSR_CLASSA_SPEED	11	It is a length of 6 bits. Only if LM_TSR_Class = 1, LM_TSR_ClassA_Speed variable follow. Values are Same as LM_TSR_Universal_Speed Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
502.	TSR_CLASSB_SPEED_SIZE	6	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
503.	TSR_CLASSB_SPEED_MAX	63	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
504.	TSR_CLASSB_SPEED_MIN	0	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
505.	TSR_CLASSB_SPEED	11	It is a length of 6 bits. Only if LM_TSR_Class = 1, LM_TSR_ClassB_Speed variable follow. Values are Same as LM_TSR_Universal_Speed. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
506.	TSR_CLASSC_SPEED_SIZE	6	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
507.	TSR_CLASSC_SPEED_MAX	63	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
508.	TSR_CLASSC_SPEED_MIN	0	It is a length of 6 bits. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
509.	TSR_CLASSC_SPEED	11	It is a length of 6 bits. Only if LM_TSR_Class = 1, LM_TSR_ClassC_Speed variable follow. Values are Same as LM_TSR_Universal_Speed. Reference: Annexure- C-Specification of KAVACH, page no:-53, C.5.2.
510.	TSR_WHISTLE_SIZE	2	It is a length of 2 bits. Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2.
511.	TSR_WHISTLE_MAX	3	It is a length of 2 bits. Reference: Annexure- C-Specification of KAVACH,

			page no:-54, C.5.2.
512.	TSR_WHISTLE_MIN	0	It is a length of 2 bits.
			Reference: Annexure- C-Specification of KAVACH,
			page no:-54, C.5.2.
513.	TSR_WHISTLE	3	It is a length of 2 bits.
	_		Reference: Annexure- C-Specification of KAVACH,
			page no:-54, C.5.2.
514.	NO_TSR_WHISTLE	0	It is a length of 2 bits.
			00: No Whistle,
			Reference: Annexure- C-Specification of KAVACH,
			page no:-54, C.5.2.
515.	TSR_ WHISTLE_BLOW	1	It is a length of 2 bits.
			01: Whistle blow,
			Reference: Annexure- C-Specification of KAVACH,
			page no:-54, C.5.2.
516.	TSR_ WHISTLE_SPARE1	2	It is a length of 2 bits.
			10-11: Spare
			Reference: Annexure- C-Specification of KAVACH,
			page no:-54, C.5.2.
517.	TSR_ WHISTLE_SPARE2	3	It is a length of 2 bits. 10-11: Spare
			Reference: Annexure- C-Specification of KAVACH,
			page no:-54, C.5.2.
	End Of ⁻	The Sub	Packets Packets
518.	LOCO_SPECIFIC_MAC_CODE_SIZE	32	It is a length of 32 bits. Reference: Annexure- C-
			Specification of KAVACH, page no:-54, C.5.2.
519.	LOCO_SPECIFIC_MAC_CODE	111	It is a length of 32 bits.
			Calculated from starting field PACKET_TYPE to last
			Sub-Packet padding bit.
			Reference: Annexure- C-Specification of KAVACH,
		4004067	page no:-54, C.5.2.
520.	LOCO_SPECIFIC_MAC_CODE_MAX	4294967	It is a length of 32 bits.
		295	Calculated from starting field PACKET_TYPE to last
			Code De aloration adultion a late
			Sub-Packet padding bit.
			Reference: Annexure- C-Specification of KAVACH,
521	LOCO SPECIEIC MAC CODE MIN	0	Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2.
521.	LOCO_SPECIFIC_MAC_CODE_MIN	0	Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits.
521.	LOCO_SPECIFIC_MAC_CODE_MIN	0	Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits. Calculated from starting field PACKET_TYPE to last
521.	LOCO_SPECIFIC_MAC_CODE_MIN	0	Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits. Calculated from starting field PACKET_TYPE to last Sub-Packet padding bit.
521.	LOCO_SPECIFIC_MAC_CODE_MIN	0	Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits. Calculated from starting field PACKET_TYPE to last Sub-Packet padding bit. Reference: Annexure- C-Specification of KAVACH,
521.			Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits. Calculated from starting field PACKET_TYPE to last Sub-Packet padding bit. Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2.
	Movemen		Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits. Calculated from starting field PACKET_TYPE to last Sub-Packet padding bit. Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. Prity Packet
521.		t Autho	Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits. Calculated from starting field PACKET_TYPE to last Sub-Packet padding bit. Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. Prity Packet It is a length of 4 bits.
	Movemen	t Autho	Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits. Calculated from starting field PACKET_TYPE to last Sub-Packet padding bit. Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. Prity Packet It is a length of 4 bits. Reference: Annexure-C-Specification of KAVACH,
	Movemen	t Autho	Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. It is a length of 32 bits. Calculated from starting field PACKET_TYPE to last Sub-Packet padding bit. Reference: Annexure- C-Specification of KAVACH, page no:-54, C.5.2. Prity Packet It is a length of 4 bits.

			page no:35,C.5.2
524.	NO_REF_PROF_ID	0	It is a length of 4 bits. No profile information. On receipt of Access Authority Packet, the onboard KAVACH shall send '0000' retaining the profile already available for speed supervision. Reference: Annexure-C-Specification of KAVACH, page no:35,C.5.2
525.	REF_PROF_ID_MAX	15	It is a length of 4 bits. Valid profile information. Reference : Annexure-C-Specification of KAVACH, page no:35,C.5.2
526.	REF_PROF_ID_MIN	1	It is a length of 4 bits. Valid profile information. Reference: Annexure-C-Specification of KAVACH, page no:35,C.5.2
527.	LAST_REF_RFID_SIZE	10	It is a length of 10 bits. Reference : Annexure-C-Specification of KAVACH, page no:36,C.5.2
528.	LAST_REF_RFID_MAX	1023	It is a length of 10 bits. Reference : Annexure-C-Specification of KAVACH, page no:36,C.5.2
529.	LAST_REF_RFID_MIN	0	It is a length of 10 bits. Reference : Annexure-C-Specification of KAVACH, page no:36,C.5.2
530.	LAST_REF_RFID	111	It is a length of 10 bits. Below track profile data is given from last RFID as a reference position. This RFID shall be one of the last ten tags read by Onboard KAVACH. Onboard KA-VACH shall retain last 11 RFID Tags along with their location. From the last 10 RFID Tags reported by Onboard KAVACH, Stationary KAVACH shall send the profile with respect to the most recently received tag. Stationary KAVACH shall send the actual distances of start and end locations of each element in the profile with respect to LAST_REF_RFID. Stationary and Onboard KAVACH shall not consider Foreign tags and wrong line tags as LAST_REF_RFID. Reference: Annexure-C-Specification of KAVACH, page no:36,C.5.2
531.	DIST_PKT_START_SIZE	15	It is a length of 15 bits. Reference : Annexure-C-Specification of KAVACH, page no:36,C.5.2
532.	DIST_PKT_START	111	It is a length of 15 bits. Reference: Annexure-C-Specification of KAVACH, page no:36,C.5.2

533.	DIST_PKT_START_MAX	+16383	It is a length of 15 bits.
			When the value is positive, the onboard KAVACH
			shall merge with the existing profile, if available
			and supervise MRSP. Positive correction shall be
			sent by Stationary KAVACH in exceptional cases.
			Reference: Annexure-C-Specification of KAVACH,
			page no:36,C.5.2
534.	DIST PKT START MIN	-16383	It is a length of 15 bits.
			When the value is negative, the onboard KAVACH
			shall supervise the profile from the REAR end of
			the train.
			Reference: Annexure-C-Specification of KAVACH,
			page no:36,C.5.2
535.	PKT_DIR_SIZE	2	It is a length of 2 bits.
			Reference : Annexure-C-Specification of KAVACH,
			page no:36,C.5.2
536.	PKT_DIR _UN_IDENT	0	It is a length of 2 bits.
			Unidentified.
			Reference: Annexure-C-Specification of KAVACH,
			page no:36,C.5.2
537.	PKT_DIR _NOMINAL	1	It is a length of 2 bits.
			Nominal
			Reference: Annexure-C-Specification of KAVACH,
			page no:36,C.5.2
538.	PKT_DIR _REV	2	It is a length of 2 bits.
			Reverse
			Reference: Annexure-C-Specification of KAVACH,
			page no:36,C.5.2
539.	PKT_DIR _SPARE	3	It is a length of 2 bits.
			Spare
			Reference: Annexure-C-Specification of KAVACH,
			page no:36,C.5.2
540.	SUB_PKT_LENGTH_MA_SIZE	7	It is a length of 7 bits.
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
541.	SUB_PKT_LENGTH_MA	111	It is a length of 7 bits.
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
542.	SUB_PKT_LENGTH_MA_MAX	128	It is a length of 7 bits.
			Length in bytes. Max 128 bytes
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
543.	SUB_PKT_LENGTH_MA_MIN	1	It is a length of 7 bits.
			Length in bytes.
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
544.	FRAME_OFFSET_SIZE	4	It is a length of 4 bits.

			Reference : Annexure-C-Specification of KAVACH, page no:37,C.5.2
545.	FRAME_OFFSET	11	It is a length of 4 bits. Reference : Annexure-C-Specification of KAVACH, page no:37,C.5.2
546.	FRAME_OFFSET_MAX	14	It is a length of 4 bits. Frame offset = (Stationary Kavach frame number - last received Onboard Kavach frame number)/2 Cyclic subtraction to be ensured at 00:00 hours. Reference: Annexure-C-Specification of KAVACH, page no:37,C.5.2
547.	FRAME_OFFSET_MIN	1	It is a length of 4 bits. Frame offset = (Stationary Kavach frame number - last received Onboard Kavach frame number)/2 Cyclic subtraction to be ensured at 00:00 hours. Reference: Annexure-C-Specification of KAVACH, page no:37,C.5.2
548.	DEST_LOCO_SOS_SIZE	4	It is a length of 4 bits. Reference : Annexure-C-Specification of KAVACH, page no:37,C.5.2
549.	DEST_LOCO_SOS	11	It is a length of 4 bits. Reference : Annexure-C-Specification of KAVACH, page no:37,C.5.2
550.	DEST_LOCO_SOS_MAX	15	It is a length of 4 bits. Reference : Annexure-C-Specification of KAVACH, page no:37,C.5.2
551.	DEST_LOCO_SOS_MIN	0	It is a length of 4 bits. Reference : Annexure-C-Specification of KAVACH, page no:37,C.5.2
552.	NO_DEST_LOCO_SOS	0	It is a length of 4 bits. No SoS /Emergency Reference: Annexure-C-Specification of KAVACH, page no:37,C.5.2
553.	FOREIGN_RFID_DEST_LOCO_SOS	1	It is a length of 4 bits. Foreign RFID Reference: Annexure-C-Specification of KAVACH, page no:37,C.5.2
554.	RES_DEST_LOCO_SOS	2	It is a length of 4 bits. Reserved. Reference: Annexure-C-Specification of KAVACH, page no:37,C.5.2
555.	ONBOARD_ODO_ERR_ DEST_LOCO_SOS	3	It is a length of 4 bits. Onboard Odo error is >= 120m Reference: Annexure-C-Specification of KAVACH, page no:37,C.5.2
556.	DEST_LOCO_SOS_ SPAD_DETECTION	4	It is a length of 4 bits. Detection of SPAD

			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
557.		5	It is a length of 4 bits.
	DEST_LOCO_SOS_ REAREND_COL		Rear-end collision
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
558.		6	It is a length of 4 bits.
	DEST_LOCO_SOS_ HEADON_COL		Head-On collision
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
559.	DEST_LOCO_SOS_ VIOL_SHUNT_LMT	7	It is a length of 4 bits.
			Violation of Shunting limits in shunt mode
			Reference : Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
560.	RES_DEST_LOCO_SOS_MAX	15	It is a length of 4 bits.
300.	NES_DEST_EGGG_5GS_W//W	13	Reserved
			Reference : Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
561.	RES DEST LOCO SOS MIN	9	It is a length of 4 bits.
301.	NES_DEST_EGGG_505_WIIV	,	Reserved
			Reference : Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
562.	TRAIN SEC TYPE SIZE	2	
502.	TRAIN_SEC_TYPE_SIZE	Z	It is a length of 2 bits.
			Reference : Annexure-C-Specification of KAVACH,
F.C.2	TRAIN CEC TVDE		page no:37,C.5.2
563.	TRAIN_SEC_TYPE	1	It is a length of 2 bits.
			Reference: Annexure-C-Specification of KAVACH,
564	TRAIN SEC TYPE STN SEC		page no:37,C.5.2
564.	TRAIN_SEC_TYPE_STN_SEC	0	It is a length of 2 bits.
			Station Section
			Reference : Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
565.	TRAIN_SEC_TYPE_ABS_BLOCK	1	It is a length of 2 bits.
			Absolute Block
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
566.	TRAIN_SEC_TYPE_AUTO_BLOCK	2	It is a length of 2 bits.
			Auto block
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
567.	TRAIN_SEC_TYPE_RES	3	It is a length of 2 bits.
			Reserved
			Reference: Annexure-C-Specification of KAVACH,
			page no:37,C.5.2
568.	TRAIN_SEC_TYPE_MAX	3	It is a length of 2 bits.
			Reference : Annexure-C-Specification of KAVACH,
			page no:37,C.5.2

569.	TRAIN_SEC_TYPE_MIN	0	It is a length of 2 bits. Reference : Annexure-C-Specification of KAVACH, page no:37,C.5.2
570.	CUR_SIG_INFO_SIZE	17	It is a length of 17 bits. Reference: Annexure-C-Specification of KAVACH, page no:38,C.5.2
571.	CUR_SIG_INFO	111	It is a length of 17 bits. Reference: Annexure-C-Specification of KAVACH, page no:38,C.5.2
572.	CUR_SIG_INFO_MIN	0	It is a length of 17 bits. Reference : Annexure-C-Specification of KAVACH, page no:38,C.5.2
573.	CUR_SIG_INFO_MAX	131071	It is a length of 17 bits. Reference : Annexure-C-Specification of KAVACH, page no:38,C.5.2
574.	CUR_SIG_INFO_LINE_NUM_NA	0	It is a length of 17bits. a4 to a0 : (to be defined and displayed only for applicable Home / Routing Home / Starter / Intermediate Starter). To be sent when line number information is not applicable Reference : Annexure-C-Specification of KAVACH, page no:38,C.5.2
575.	CUR_SIG_INFO_NOLINE _NUM_DISP_ON_DMI	31	It is a length of 17 bits. a4 to a0 : (to be defined and displayed only for applicable Home / Routing Home / Starter / Intermediate Starter). Line Number in excess of 30 Decimal, in this case, no line number to be displayed on DMI. Reference : Annexure-C-Specification of KAVACH, page no:38,C.5.2
576.	CUR_SIG_INFO_GOOD_LINE	30	It is a length of 17 bits. a4 to a0: (to be defined and displayed only for applicable Home / Routing Home / Starter / Intermediate Starter). Goods Lines (in case of any Goods Line > 30 Decimal, no need to display Line Number on DMI, however, and the information to be displayed on DMI that the Train is going to Goods Line). It is clarified that even for multiple Goods Lines, Line Number shall not be communicated to Onboard KAVACH Unit and distinction among Goods Line would not be available through DMI to Onboard Pilot. Reference: Annexure-C-Specification of KAVACH, page no:38,C.5.2
577.	CUR_SIG_INFO _UP_SIG	0	It is a length of 17 bits. a8 to a5: Line Name Up Signal

			Reference: Annexure-C-Specification of KAVACH,
			page no:38,C.5.2
578.	CUR_SIG_INFO_DWN_SIG	1	It is a length of 17 bits.
			a8 to a5: Line Name
			Down Signal
			Reference: Annexure-C-Specification of KAVACH,
			page no:38,C.5.2
579.	CUR_SIG_INFO_UPFAST_SIG	2	It is a length of 17 bits.
			a8 to a5: Line Name
			Up Fast Signal
			Reference: Annexure-C-Specification of KAVACH,
			page no:38,C.5.2
580.	CUR_SIG_INFO_DWNFAST_SIG	3	It is a length of 17 bits.
			a8 to a5: Line Name Down Fast Signal
			Reference : Annexure-C-Specification of KAVACH,
			page no:38,C.5.2
581.	CUR_SIG_INFO_UPSLW_SIG	8	It is a length of 17 bits.
			a8 to a5: Line Name
			Up Slow Signal
			Reference : Annexure-C-Specification of KAVACH,
			page no:38,C.5.2
582.	CUR_SIG_INFO_DWNSLW_SIG	9	It is a length of 17 bits.
			a8 to a5: Line Name
			Down Slow Signal
			Reference : Annexure-C-Specification of KAVACH,
			page no:38,C.5.2
583.	CUR_SIG_INFO_UPMAIN_SIG	10	It is a length of 17 bits.
			a8 to a5: Line Name Up Main Signal
			Reference : Annexure-C-Specification of KAVACH,
			page no:38,C.5.2
584.	CUR_SIG_INFO_DWNMAIN_SIG	11	It is a length of 17 bits.
			a8 to a5: Line Name Down Main Signal
			Reference: Annexure-C-Specification of KAVACH,
505	CLID CIC INITO LIDCUID CIC	12	page no:38,C.5.2
585.	CUR_SIG_INFO_UPSUB_SIG	12	It is a length of 17 bits.
			a8 to a5: Line Name Up Sub Signal
			Reference : Annexure-C-Specification of KAVACH,
506	CLID CIC INTO DWAIGHD CIC	12	page no:38,C.5.2
586.	CUR_SIG_INFO_DWNSUB_SIG	13	It is a length of 17 bits.
			a8 to a5: Line Name
			Down Sub Signal
			Reference: Annexure-C-Specification of KAVACH,
F07	CLID SIC INEO DESERVED ELL		page no:38,C.5.2
587.	CUR_SIG_INFO_RESERVED_FU		It is a length of 17 bits. a8 to a5 : Line Name 11xx-Future Use.
			Reference: Annexure-C-Specification of KAVACH,
			page no:38,C.5.2

588.	CUR_SIG_INFO_UNDEF	0	It is a length of 17 bits. a14 to a9:type of signal Undefined - nothing to be displayed on DMI. Reference: Annexure-C-Specification of KAVACH, page no:39,C.5.2
589.	CUR_SIG_INFO_DISTNT	16	It is a length of 17 bits. a14 to a9:type of signal Distant Reference: Annexure-C-Specification of KAVACH, page no:39,C.5.2
590.	CUR_SIG_INFO_INN_DISTNT	17	It is a length of 17 bits. a14 to a9:type of signal Inner Distant Reference: Annexure-C-Specification of KAVACH, page no:39,C.5.2
591.	CUR_SIG_INFO_GAT_DISTNT	18	It is a length of 17 bits. a14 to a9:type of signal Gate Distant Reference: Annexure-C-Specification of KAVACH, page no:39,C.5.2
592.	CUR_SIG_INFO_GAT_INN_DISTNT	19	It is a length of 17 bits. a14 to a9 :type of signal Gate Inner Distant Reference : Annexure-C-Specification of KAVACH, page no:39,C.5.2
593.	CUR_SIG_INFO_IB_DISTNT	20	It is a length of 17 bits. a14 to a9 :type of signal IB Distant Reference : Annexure-C-Specification of KAVACH, page no:39,C.5.2
594.	CUR_SIG_INFO_IB_INN_DISTNT	21	It is a length of 17 bits. a14 to a9:type of signal IB Inner Distant Reference: Annexure-C-Specification of KAVACH, page no:39,C.5.2
595.	CUR_SIG_INFO_AUTO_SIG	22	It is a length of 17 bits. a14 to a9:type of signal Auto Signal (Excludes Gate Stop Signal in Auto Territory) Reference: Annexure-C-Specification of KAVACH, page no:39,C.5.2
596.	CUR_SIG_INFO_ SEMI_AUTO_SIG	23	It is a length of 17 bits. a14 to a9:type of signal Semi-Automatic Signal with A-marker lit Reference: Annexure-C-Specification of KAVACH, page no:39,C.5.2
597.	CUR_SIG_INFO_MAIN_HOME_ WO_JUN_RT_IND	24	It is a length of 17 bits. Main Home without Junction Route Indicator Reference: Annexure-C-Specification of KAVACH, page no:39,C.5.2

598.	CUR_SIG_INFO_MAIN_HOME_WO_JU	25	It is a length of 17 bits.
	N_RT_IND		a14 to a9:type of signal
			Main Home with Junction Route Indicator
			Reference: Annexure-C-Specification of KAVACH,
			page no:39,C.5.2
599.	CUR_SIG_INFO_RT_HOME_WO_JUN_	26	It is a length of 17 bits.
333.	RT_IND	20	a14 to a9:type of signal
	KI_IND		Routing Home without Junction Type Route
			Indicator.
			Reference: Annexure-C-Specification of KAVACH,
			page no:39,C.5.2
600.	CUR_SIG_INFO_RT_HOME_WITH_JUN	27	It is a length of 17 bits.
000.	_RT_IND	21	a14 to a9:type of signal
	_K1_IND		Routing Home with Junction Type Route Indicator
			Reference : Annexure-C-Specification of KAVACH,
			page no:39,C.5.2
601.	CLIP SIG INEO MAINLINE	28	1 3
001.	CUR_SIG_INFO_MAINLINE _STARTER	20	It is a length of 17 bits. a14 to a9 :type of signal, Mainline Starter
	_STANTEN		,,
			Reference : Annexure-C-Specification of KAVACH,
602	CLID CIC INFO LOODUNE	20	page no:39,C.5.2
602.	CUR_SIG_INFO_LOOPLINE	29	It is a length of 17 bits.
	_STARTER		a14 to a9:type of signal
			Loop line Starter
			Reference : Annexure-C-Specification of KAVACH,
602	CLID CIC INICO INITO MED CTARTER	20	page no:39,C.5.2
603.	CUR_SIG_INFO_INTR_MED_STARTER	30	It is a length of 17 bits.
			a14 to a9:type of signal
			Intermediate Starter
			Reference : Annexure-C-Specification of KAVACH,
CO4	CLID CIC INICO ADV CTARTER	1	page no:39,C.5.2
604.	CUR_SIG_INFO_ADV_STARTER	1	It is a length of 17 bits.
			a14 to a9:type of signal Advanced Starter
			Reference : Annexure-C-Specification of KAVACH,
605	CLID CIC INTO ID CIC		page no:39,C.5.2
605.	CUR_SIG_INFO_IB_SIG	2	It is a length of 17 bits.
			a14 to a9:type of signal IB Signal
			Reference : Annexure-C-Specification of KAVACH,
505	CLID CIC INICO CATE CTD CIC		page no:39,C.5.2
606.	CUR_SIG_INFO_GATE_STP_SIG	3	It is a length of 17 bits.
			a14 to a9:type of signal Gate Stop Signal
			Reference : Annexure-C-Specification of KAVACH,
			page no:40,C.5.2
607.	CUR_SIG_INFO_CALLON_SIG	4	It is a length of 17 bits.
			a14 to a9:type of signal Calling-on Signal
			Reference: Annexure-C-Specification of KAVACH,
			page no:35,C.5.2

608.	CUR_SIG_INFO_ADVSTARTER_CUM_G ATESIG	5	It is a length of 17 bits. a14 to a9:type of signal Advanced Starter-cum- Gate Signal Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
609.	CUR_SIG_INFO_GATE_ CUM_DISTNT	6	It is a length of 17 bits. a14 to a9:type of signal Gate-cum-Distant It is a length of 17 bits. Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
610.	CUR_SIG_INFO_ADVSTARTER_CUM_DI STNTSIG	7	It is a length of 17 bits. a14 to a9:type of signal Advanced Starter-cum- Distant Signal Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
611.	CUR_SIG_INFO_AUTO_TERR _GATSTP_SIG	35	It is a length of 17 bits. a14 to a9:type of signal Gate Stop Signal in Auto Territory Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
612.	CUR_SIG_INFO_ SEMIAUTOMAT_SIG_1	36	It is a length of 17 bits. a14 to a9:type of signal Semi Automatic Signal without A marker lit. Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
613.	CUR_SIG_INFO_ADVSTARTER_CUM_ GATINN_DISTNT_SIG	37	It is a length of 17 bits. a14 to a9:type of signal Advance Starter-cum-Gate Inner Distant Signal Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
614.	CUR_SIG_INFO_GAT_ CUM_INN_DISTNT	38	It is a length of 17 bits. a14 to a9:type of signal Gate-cum-Inner Distant Signal. Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
615.	CUR_SIG_INFO_GATINN_DISNT_CUM_ DISTNT_SIG	39	It is a length of 17 bits. a14 to a9:type of signal Gate Inner Distant-cum-Distant Signal Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
616.	CUR_SIG_INFO_IBSIG_CUM_GATDIST NT	40	It is a length of 17 bits. a14 to a9 :type of signal IB Signal-cum-Gate Distant Reference : Annexure-C-Specification of KAVACH, page no:40,C.5.2
617.	CUR_SIG_INFO_IBSIG_CUM_GATINN_ DISTNT	41	It is a length of 17 bits. a14 to a9:type of signal IB Signal-cum-Gate Inner Distant

			Reference : Annexure-C-Specification of KAVACH, page no:40,C.5.2
618.	CUR_SIG_INFO_IB_SIG_CUM_DISTNTS IG	42	It is a length of 17 bits. a14 to a9:type of signal IB Signal-cum-Distant Signal Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
619.	CUR_SIG_INFO_ADVSTARTR_ CUM_IBDISTNT	43	It is a length of 17 bits. a14 to a9:type of signal Advanced Starter-cum- IB Distant Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
620.	CUR_SIG_INFO_STARTR_CUM_IBDIST NT	44	It is a length of 17 bits. a14 to a9 :type of signal Starter-cum- IB Distant Signal , Reference : Annexure-C-Specification of KAVACH, page no:40,C.5.2
621.	CUR_SIG_INFO_STP_BOARD	45	It is a length of 17 bits. a14 to a9:type of signal Stop Board/Buffer Stop Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
622.	CUR_SIG_INFO_GAT_CUM_IBDISTNT	46	It is a length of 17 bits. a14 to a9:type of signal Gate cum IB Distant Signal Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
623.	CUR_SIG_INFO_GAT_CUM_IBINN_DIS TNT	47	It is a length of 17 bits. a14 to a9 :type of signal Gate cum IB Inner Distant Signal Reference : Annexure-C-Specification of KAVACH, page no:40,C.5.2
624.	CUR_SIG_INFO_TAGRFID_NOT_IN_RA DIO_PKT	8	It is a length of 17 bits. a14 to a9:type of signal Only in RFID Tag, not in Radio Packet. Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
625.	CUR_SIG_ASPT_SIZE	6	It is a length of 6 bits. Reference : Annexure-C-Specification of KAVACH, page no:40,C.5.2
626.	CUR_SIG_ASPT_MAX	127	It is a length of 6 bits. Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
627.	CUR_SIG_ASPT_MIN	0	It is a length of 6 bits. Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2
628.	CUR_SIG_ASPT_UNIDEN	0	It is a length of 6 bits. Unidentified. Reference: Annexure-C-Specification of KAVACH, page no:40,C.5.2

629.	CUR_SIG_ASPT_RED	1	It is a length of 6 bits. Red Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
630.	CUR_SIG_ASPT_YELLOW_WTO_DISP_ RT_IND	2	It is a length of 6 bits. Yellow without Display of Route Indication, Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2.
631.	CUR_SIG_ASPT_YELLOW_POS1_JUN_T	3	It is a length of 6 bits. Yellow with Pos1 Junction Type Route Indication (left) Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
632.	CUR_SIG_ASPT_YELLOW_POS2_JUN_T	4	It is a length of 6 bits. Yellow with Pos2 Junction Type Route Indication (left) Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
633.	CUR_SIG_ASPT_YELLOW_POS3_JUN_T	5	It is a length of 6 bits. Yellow with Pos3 Junction Type Route Indication (left) Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
634.	CUR_SIG_ASPT_YELLOW_POS4_JUN_T	6	It is a length of 6 bits. Yellow with Pos4 Junction Type Route Indication (right) Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
635.	CUR_SIG_ASPT_YELLOW_POS5_JUN_T YPE_RT_IND	7	It is a length of 6 bits. Yellow with Pos5 Junction Type Route Indication (right) Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
636.	CUR_SIG_ASPT_YELLOW_POS6_JUN_T	8	It is a length of 6 bits. Yellow with Pos6 Junction Type Route Indication (right) Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
637.	CUR_SIG_ASPT_SPARE	9	It is a length of 6 bits. Spare, Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
638.	CUR_SIG_ASPT_DOUBYELLOW	10	It is a length of 6 bits. Double Yellow. Reference : Annexure-C-Specification of KAVACH, page no:41,C.5.2
639.	CUR_SIG_ASPT_GREEN	11	It is a length of 6 bits. Green.

			Reference: Annexure-C-Specification of KAVACH,
			page no:41,C.5.2
640.	CUR_SIG_ASPT_DOUBYELLOW_POS1_ JUN_TYPE_RT_IND	12	It is a length of 6 bits. Double Yellow with Pos1 Junction Type Route Indication (left) Reference: Annexure-C-Specification of KAVACH,
			page no:41,C.5.2
641.	CUR_SIG_ASPT_DOUBYELLOW_POS4_ JUN_TYPE_RT_IND	13	It is a length of 6 bits. Double Yellow with Pos4 Junction Type Route Indication (right) Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
642.	CUR_SIG_ASPT_AG_MARKER_OFF	14	It is a length of 6 bits. AG Marker OFF Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
643.	CUR_SIG_ASPT_REDCALLON_OFF	15	It is a length of 6 bits. Red with Calling-on at OFF Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
644.	CUR_SIG_ASPT_SPARE1		It is a length of 6 bits. Current signal aspect spare1 Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
645.	CUR_SIG_ASPT_STP_BOARD	24	It is a length of 6 bits. Stop Board / Buffer Stop Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
646.	CUR_SIG_ASPT_SPARE2		It is a length of 6 bits. Current signal aspect Spare2 Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
647.	CUR_SIG_ASPT_YELLOW_STENCIL_MA X	63	It is a length of 6 bits. Yellow with Stencil route 1 to 32 Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
648.	CUR_SIG_ASPT_YELLOW_STENCIL_MI N	32	It is a length of 6 bits. Yellow with Stencil route 1 to 32 Reference: Annexure-C-Specification of KAVACH, page no:41,C.5.2
649.	CUR_SIG_ASPT _SIG_OVRD_PERM_STANDSTILL	0	It is a length of 1 bits. Reference : Annexure-C-Specification of KAVACH, page no:42,C.5.2
650.	CUR_SIG_ASPT _SIG_OVRD_PERM_RUNING	1	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:42,C.5.2
651.	CUR_SIG_ASPT_STP_SIG_NO	0	It is a length of 1 bit.

			Characteristic National V
			Stop Signal (0: No, 1: Yes)
			Reference: Annexure-C-Specification of KAVACH,
650	CUID CIC ACOT CTT CIC VITC		page no:42,C.5.2
652.	CUR_SIG_ASPT_STP_SIG_YES	1	It is a length of 1 bit.
			Stop Signal (0: No, 1: Yes)
			Reference: Annexure-C-Specification of KAVACH,
			page no:42,C.5.2
653.	NXT_SIG_ASPT_SIZE	6	It is a length of 6 bits.
			Reference : Annexure-C-Specification of KAVACH,
			page no:42,C.5.2
654.	NXT_SIG_ASPT_MAX	127	It is a length of 6 bits.
			Reference : Annexure-C-Specification of KAVACH,
			page no:42,C.5.2
655.	NXT_SIG_ASPT_MIN	0	It is a length of 6 bits.
			Reference: Annexure-C-Specification of KAVACH,
			page no:42,C.5.2
656.	NXT_SIG_ASPT_UNDEF	0	It is a length of 6 bits.
			In case current Signal Aspect is RED (Un-defined)
			Reference: Annexure-C-Specification of KAVACH,
			page no:42,C.5.2
657.	APPR_SIG_DIST_SIZE	15	It is a length of 15 bits.
			Reference : Annexure-C-Specification of KAVACH,
650	ABDD 610 5107	444	page no:42,C.5.2
658.	APPR_SIG_DIST	111	It is a length of 15 bits.
			Approaching signal distance in meter from the last
			reference RFID Tag (valid up to 32767m)
			Reference : Annexure-C-Specification of KAVACH,
CEO	ADDD CIC DIST MAN	22767	page no:42,C.5.2
659.	APPR_SIG_DIST_MAX	32767	It is a length of 15 bits.
			Reference : Annexure-C-Specification of KAVACH,
660	ADDD CIC DICT AMA		page no:42,C.5.2
660.	APPR_SIG_DIST_MIN	0	It is a length of 15 bits.
			Reference: Annexure-C-Specification of KAVACH,
CC4	ALITH TYPE CITE	1	page no:42,C.5.2
661.	AUTH_TYPE_SIZE	2	It is a length of 2 bits.
			Reference : Annexure-C-Specification of KAVACH,
663	ALITH TYPE AMAI		page no:42,C.5.2
662.	AUTH_TYPE_MIN	0	It is a length of 2 bits.
			Reference : Annexure-C-Specification of KAVACH,
663	ALITH TYPE AAAY	1	page no:42,C.5.2
663.	AUTH_TYPE_MAX	3	It is a length of 2 bits.
			Reference : Annexure-C-Specification of KAVACH,
CC 4	ALITH TYPE NOT USE		page no:42,C.5.2
664.	AUTH_TYPE_NOT_USE	0	It is a length of 2 bits.
			Not to be used
			Reference : Annexure-C-Specification of KAVACH,
			page no:42,C.5.2

665.	AUTH_TYPE_OS_AUTH	1	It is a length of 2 bits. OS Authority (Distance allowed in OS mode with speed restriction) Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
666.	AUTH_TYPE_FS_AUTH	2	It is a length of 2 bits. FS Authority (Distance allowed in FS mode) Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
667.	AUTH_TYPE_SR_AUTH	3	It is a length of 2 bits. SR Authority. When MA is required to be extended beyond border signal and adjacent S-KAVACH communication failed, Authorized speed shall be un-known (63). Onboard KAVACH shall ignore APPR_SIG_DIST and MA_W_R_T_SIG. Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
668.	AUTHORIZED_SPD_SIZE	6	It is a length of 6 bits. Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
669.	AUTHORIZED_SPD	11	It is a length of 6 bits. Only If AUTHORITY_TYPE = '01', AUTHORIZED_SPEED variables follows. Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
670.	AUTHORIZED_SPD_MAX	63	It is a length of 6 bits. Only If AUTHORITY_TYPE = '01', AUTHORIZED_SPEED variables follows. Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
671.	AUTHORIZED_SPD_MIN	0	It is a length of 6 bits. Only If AUTHORITY_TYPE = '01', AUTHORIZED_SPEED variables follows. Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
672.	AUTHORIZED_SPD_RES_FU		It is a length of 6 bits. Reserved for future use, Reference : Annexure-C-Specification of KAVACH, page no:42,C.5.2
673.	AUTHORIZED_SPD_AUTO_SIG_OVRD_ DURING_NYT	62	It is a length of 6 bits. 8 Kmph (Configurable) for auto signal override during night Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
674.	AUTHORIZED_SPD_UNKNOWN	63	It is a length of 6 bits. Unknown Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2

675.	MA_W_R_T_SIG_SIZE	16	It is a length of 16 bits. Reference : Annexure-C-Specification of KAVACH, page no:42,C.5.2
676.	MA_W_R_T_SIG	111	It is a length of 16 bits. 0 to 65534 in meters. Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
677.	MA_W_R_T_SIG_MAX	65534	It is a length of 16 bits. Reference: Annexure-C-Specification of KAVACH, page no:42,C.5.2
678.	MA_W_R_T_SIG_MIN	0	It is a length of 16 bits. Reference : Annexure-C-Specification of KAVACH, page no:42,C.5.2
679.	MA_W_R_T_SIG_UNKNOWN	65535	It is a length of 16 bits. Unknown (Onboard Kavach continues in SR Mode). Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
680.	REQ_SHORTEN_MA_SIZE	1	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
681.	REQ_SHORTEN_MA_MAX	1	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
682.	REQ_SHORTEN_MA_MIN	0	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
683.	NO_REQ_SHORTEN_ MA	0	It is a length of 1 bit. No request from trackside for shortening MA Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
684.	NEW_REQ_SHORTEN_ MA	1	It is a length of 1 bit. New request from trackside for shortening MA Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
685.	NEW_MA_SIZE	16	It is a length of 16 bits. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
686.	NEW_MA_MAX	65535	It is a length of 16 bits. Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
687.	NEW_MA_MIN	0	It is a length of 16 bits. Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
688.	NEW_MA	111	It is a length of 16 bits. Only If REQ_SHORTEN_MA = 1, NEW_MA variables follow. New MA due to signal cancellation request from El.

			Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
689.	TRN_LEN_INFO_STS_SIZE	1	It is a length of 1 bit. Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
690.	TRN_LEN_INFO_STS_MAX	1	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
691.	TRN_LEN_INFO_STS_MIN	0	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
692.	NO_TRAIN_LEN_INFO_STS	0	It is a length of 1 bit. No Train Length Info, Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
693.	TRN_LEN_INFO_STS_FOLLOW	1	It is a length of 1 bit. Train Length Info follows Only If TRAIN_LEN_INFO_STS = 1, TRAINN_LEN_INFO_TYPE and remaining variables follow. Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
694.	TRN_LEN_INFO_TYPE_SIZE	1	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
695.	TRN_LEN_INFO_TYPE_MAX	1	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
696.	TRN_LEN_INFO_TYPE_MIN	0	It is a length of 1 bit. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
697.	TRN_LEN_INFO_TYPE_START	0	It is a length of 1 bit. REF_FRAME_NUM_TL and REF_OFFSET_INT_TL pertain to "Start" frame and offset. Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
698.	TRN_LEN_INFO_TYPE_END	1	It is a length of 1 bit. REF_FRAME_NUM_TL and REF_OFFSET_INT_TL pertain to "END" frame and offset. Reference: Annexure-C-Specification of KAVACH, page no:43,C.5.2
699.	REF_FRAME_NUM_TLM_SIZE	17	It is a length of 17 bits. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
700.	REF_FRAME_NUM_TLM	111	It is a length of 17 bits. 1 to 86400 ((hr * 3600 + mm * 60 + ss) + 1) Example: 00:00:00 - Frame No 1 00:00:02 - Frame No. 3

			23:59:58 - Frame No 86399
			Reference: Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
701.	REF_FRAME_NUM_TLM_MAX	86400	It is a length of 17 bits.
			Reference: Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
702.	REF_FRAME_NUM_TLM_MIN	1	It is a length of 17 bits.
			Reference : Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
703.	REF_OFFSET_INT_TLM_SIZE	8	It is a length of 8 bits.
			Reference : Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
704.	REF_OFFSET_INT_TLM	111	It is a length of 8 bits.
			0 to 200 (10ms resolution)
			Reference : Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
705.	REF_OFFSET_INT_ TLM_MAX	200	It is a length of 8 bits.
			Reference : Annexure-C-Specification of KAVACH,
706	DEE OFFICET INT. TIME AND		page no:43,C.5.2
706.	REF_OFFSET_INT_ TLM_MIN	0	It is a length of 8 bits.
			Reference : Annexure-C-Specification of KAVACH,
707.	NO_NEXT_STN_COMM_SIZE	1	page no:43,C.5.2 It is a length of 1 bit.
707.	NO_NEXT_STN_COMM_SIZE	1	Reference: Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
708.	NO_NEXT_STN_COMM_MAX	1	It is a length of 1 bit.
700.			Reference: Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
709.	NO_NEXT_STN_COMM_MIN	0	It is a length of 1 bit.
			Reference: Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
710.	NO_NEXT_STN_COMM	0	It is a length of 1 bit.
			No next station handover
			Reference : Annexure-C-Specification of KAVACH,
			page no:43,C.5.2
711.	REQ_NEXT_STN_COMM	1	It is a length of 1 bit.
			Requires next station handover
			Reference: Annexure-C-Specification of KAVACH,
710	ADDD 6TN H 6 155 15 615-	10	page no:43,C.5.2
712.	APPR_STN_ILC_IBS_ID_SIZE	16	It is a length of 16 bits.
			Reference : Annexure-C-Specification of KAVACH,
712	ADDD CTALLIC UPC ID	111	page no:43,C.5.2
713.	APPR_STN_ILC_IBS_ID	111	It is a length of 16bits. Approaching next stationary Kavach ID.
			Only If NEXT_STION_COMM = 1,
			APPR_STN_ILC_IBS_ID variables follow.
			LALLY 2114 TEC TOS TO AGLIGNICS TOHOM:

			Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
714.	APPR_STN_ILC_IBS_ID_MAX	65535	It is a length of 16 bits. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
715.	APPR_STN_ILC_IBS_ID_MIN	1	It is a length of 16 bits. Reference : Annexure-C-Specification of KAVACH, page no:43,C.5.2
	Onboard KAVACH	Config	urable Parameters
716.	LOCO_SPEED	LD	UNITS IN KMPH Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
717.	LOCO_SPEED_MIN	0	UNITS IN KMPH Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
718.	LOCO_SPEED_MAX	510	UNITS IN KMPH Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
719.	LOCO_WHEEL_DIA_D1	LD	UNITS IN MM Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
720.	LOCO_WHEEL_DIA_D1_MIN	640	UNITS IN MM Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
721.	LOCO_WHEEL_DIA_D1_MAX	1220	UNITS IN MM Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
722.	LOCO_WHEEL_DIA_D2	LD	UNITS IN MM Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
723.	LOCO_WHEEL_DIA_D2_MIN	640	UNITS IN MM Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
724.	LOCO_WHEEL_DIA_D2_MAX	1220	UNITS IN MM Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
725.	RFID_READER_1_OFFSET_FRONT	3	UNITS IN METERS Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
726.	RFID_READER_1_OFFSET_FRONT_MIN	0	UNITS IN METERS Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
727.	RFID_READER_1_OFFSET_FRONT_MA X	20	UNITS IN METERS Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:3,A2.3.1
728.	RFID_READER_1_OFFSET_REAR	3	UNITS IN METERS

			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:3,A2.3.1
729.	RFID_READER_1_OFFSET_REAR_MIN	0	UNITS IN METERS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
730.	RFID_READER_1_OFFSET_REAR_MAX	20	UNITS IN METERS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
731.	RFID_READER_2_OFFSET_FRONT	3	UNITS IN METERS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
732.	RFID_READER_2_OFFSET_FRONT_MIN	0	UNITS IN METERS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
733.	RFID_READER_2_OFFSET_FRONT_MA	20	UNITS IN METERS
	X		Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
734.	RFID_READER_2_OFFSET_REAR	3	UNITS IN METERS
			Reference: Annexure-A2- Onboard KAVACH
725	DEID DEADED 2 OFFCET DEAD MIN	0	Configurable Parameters, page no:4,A2.3.1
735.	RFID_READER_2_OFFSET_REAR_MIN	U	UNITS IN METERS Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
736.	RFID_READER_2_OFFSET_REAR_MAX	20	UNITS IN METERS
750.	MID_READER_2_OFFSET_REAR_WAX	20	Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
737.	ACCUUR_LOC_OF_RFIDTAG	5	UNITS IN METERS
			This is difference between the location read from
			the Tag & its actual location
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
738.	ACCUUR_LOC_OF_RFIDTAG_MIN	2	UNITS IN METERS
			This is difference between the location read from
			the Tag & its actual location.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
739.	ACCUUR_LOC_OF_RFIDTAG_MAX	10	UNITS IN METERS
			This is difference between the location read from
			the Tag & its actual location.
			Reference: Annexure-A2- Onboard KAVACH
740	1000 4005 5047 001	- 15	Configurable Parameters, page no:4,A2.3.1
740.	LOCO_ACCELERATION	LD	UNITS IN /S^2
			Reference: Annexure-A2- Onboard KAVACH
7/11	LOCO ACCELEDATION MAIN	0.1	Configurable Parameters, page no:4,A2.3.1
741.	LOCO_ACCELERATION_MIN	0.1	UNITS IN /S^2 Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1

742.	LOCO_ACCELERATION_MAX	0.2	UNITS IN /S^2 Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:4,A2.3.1				
	SPEED SENSOR 1						
743.	TACHO_PULSE_PER_REVOL_SEN_1	LD	UNITS IN NUMBER				
, 13.	1716110_1 0131_1 11_11_11_11_11_1	LD	Tacho output of pulses per Revolution				
			UNITS IN NUMBER				
			Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
744.	TACHO_PULSE_PER_REVOL_MIN_SEN	30	UNITS IN NUMBER				
			Tacho output of pulses per Revolution				
	_		Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
745.	TACHO_PULSE_PER_REVOL_MAX_SEN	700	UNITS IN NUMBER				
	_1		Tacho output of pulses per Revolution				
			Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
746.	TACHO_TYPE_SEN_1	LD	UNITS IN NUMBER				
			Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
747.	TACHO_TYPE_0_SEN_1	0	UNITS IN NUMBER				
			Single pulse(0),				
			Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
748.	TACHO_TYPE_1_SEN_1	1	UNITS IN NUMBER				
			Quadrate e out(1),				
			Reference: Annexure-A2- Onboard KAVACH				
740	TACHO TVDE 2 CEN 4		Configurable Parameters, page no:4,A2.3.1				
749.	TACHO_TYPE_2_SEN_1	2	UNITS IN NUMBER				
			Redundant Quad output(2) Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
750	TACHO TYPE MINI SENI 1	0	UNITS IN NUMBER				
750.	TACHO_TYPE_MIN_SEN_1	U	Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
751.	TACHO TYPE MAX SEN 1	3	UNITS IN NUMBER				
751.	1/16110_111	3	Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
752.	TACHO_MOV_DIR_SEN_1	LD	UNITS IN NUMBER				
'			Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
753.	TACHO_MOV_DIR_0_SEN_1	0	UNITS IN NUMBER				
			Left side(0)				
			Reference: Annexure-A2- Onboard KAVACH				
			Configurable Parameters, page no:4,A2.3.1				
754.	TACHO_MOV_DIR_1_SEN_1	1	UNITS IN NUMBER				
			Right side(1)				

	1		Before A A A A A A A A A A A A A A A A A A A
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
755.	TACHO_MOV_DIR_MIN_SEN_1	0	UNITS IN NUMBER
			Left side(0)/ Right side(1) mount wrt CAB1/ Short
			Hood cab(Based on this Onboard KAVACH may
			complement Feedback Direction)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
756.	TACHO_MOV_DIR_MAX_SEN_1	1	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
	SPEE	D SEN	SOR 2
757.	TACHO PULSE PER REVOL SEN 2	LD	UNITS IN NUMBER
757.	TACHO_FOLSE_FER_REVOL_SEN_2	LD	Tacho output of pulses per Revolution
			Reference: Annexure-A2- Onboard KAVACH
750	TACHO DINCE DED DEVOL MAIN CEN	20	Configurable Parameters, page no:4,A2.3.1
758.	TACHO_PULSE_PER_REVOL_MIN_SEN	30	UNITS IN NUMBER
	_2		Tacho output of pulses per Revolution
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
759.	TACHO_PULSE_PER_REVOL_MAX_SEN	700	UNITS IN NUMBER
	_2		Tacho output of pulses per Revolution
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
760.	TACHO_TYPE_SEN_2	LD	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
761.	TACHO_TYPE_0_SEN_2	0	UNITS IN NUMBER
			Single pulse(0),
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
762.	TACHO_TYPE_1_SEN_2	1	UNITS IN NUMBER
			Quadrate e out(1),
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
763.	TACHO_TYPE_2_SEN_2	2	UNITS IN NUMBER
			Redundant Quad output(2)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
764.	TACHO_TYPE_MIN_SEN_2	0	UNITS IN NUMBER
		-	Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
765.	TACHO_TYPE_MAX_SEN_2	2	UNITS IN NUMBER
		_	Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
766.	TACHO MOV DIR SEN 2	LD	UNITS IN NUMBER
, 00.	17.0.10_1010 V_DIN_3EIV_2	LU	Reference: Annexure-A2- Onboard KAVACH
			Reference. Afficacie-Az- Officiala NAVACII

			Configurable Parameters, page no:4,A2.3.1
767.	TACHO_MOV_DIR_0_SEN_2	0	UNITS IN NUMBER
707.	TACHO_MOV_DIK_0_3EN_2		Left side(0)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
768.	TACHO MOV DIR 1 SEN 3	1	UNITS IN NUMBER
700.	TACHO_MOV_DIR_1_SEN_2	1	
			Right side(1) Reference: Annexure-A2- Onboard KAVACH
769.	TACLIO MOV DID MINI SENI 2	0	Configurable Parameters, page no:4,A2.3.1 UNITS IN NUMBER
769.	TACHO_MOV_DIR_MIN_SEN_2		
			Left side(0)/ Right side(1) mount wrt CAB1/ Short
			Hood cab(Based on this Onboard KAVACH may
			complement Feedback Direction)
			Reference: Annexure-A2- Onboard KAVACH
770	TACHO MAOV DID MANY CENT 2	1	Configurable Parameters, page no:4,A2.3.1
770.	TACHO_MOV_DIR_MAX_SEN_2	1	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:4,A2.3.1
	SPE	ED MA	RGIN
771.	SPEED_MARGIN_WARNING	2	UNITS IN KMPH
			Warning Speed beyond permitted speed after
			which warning is to be displayed on DMI
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
772.	SPEED_MARGIN_WARNING_MIN	0	UNITS IN KMPH
			Warning Speed beyond permitted speed after
			which warning is to be displayed on DMI
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
773.	SPEED_MARGIN_WARNING_MAX	10	UNITS IN KMPH
			Warning Speed beyond permitted speed after
			which warning is to be displayed on DMI
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
774.	SPEED_MARGIN_NB	5	UNITS IN KMPH
	_		Speed beyond permitted speed after which NSB to
			be applied
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
775.	SPEED_MARGIN_NB_MIN	5	UNITS IN KMPH
			Speed beyond permitted speed after which NSB to
			be applied
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
776.	SPEED_MARGIN_NB_MAX	10	UNITS IN KMPH
			Speed beyond permitted speed after which NSB to
			be applied
		<u>i</u>	ac applica

		1	Reference: Annexure-A2- Onboard KAVACH
777	CDEED MADCINI ECD	0	Configurable Parameters, page no:5,A2.3.1
777.	SPEED_MARGIN_FSB	8	UNITS IN KMPH
			Speed beyond permitted speed after which FSB to
			be applied
			Reference: Annexure-A2- Onboard KAVACH
770	CREED AAA ROOM, ECR. AANA		Configurable Parameters, page no:5,A2.3.1
778.	SPEED_MARGIN_FSB_MIN	5	UNITS IN KMPH
			Speed beyond permitted speed after which FSB to
			be applied
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
779.	SPEED_MARGIN_FSB_MAX	10	UNITS IN KMPH
			Speed beyond permitted speed after which FSB to
			be applied
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
780.	SPEED_MARGIN_EB	10	UNITS IN KMPH
			Speed beyond permitted speed after which EB to
			be applied
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
781.	SPEED_MARGIN_EB_MIN	5	UNITS IN KMPH
			Speed beyond permitted speed after which EB to
			be applied
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
782.	SPEED_MARGIN_EB_MAX	15	UNITS IN KMPH
			Speed beyond permitted speed after which EB to
			be applied
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
	REST	TRICTED	SPEED
783.	SOS_SPEED_LIMIT	30	UNITS IN KMPH
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
784.	SOS_SPEED_LIMIT_MIN	5	UNITS IN KMPH
	_ _		Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
785.	SOS_SPEED_LIMIT_MAX	60	UNITS IN KMPH
	_		Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
786.	SOS_STOP_SPEED	0	UNITS IN KMPH
			Speed to maintain while reaching SOS originated
			loco. Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
787.	SOS_STOP_SPEED_MIN	0	UNITS IN KMPH
	<u> </u>		

			Speed to maintain while reaching SOS originated
			loco. Reference : Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
788.	SOS_STOP_SPEED_MAX	30	UNITS IN KMPH
700.	303_3101_31 EED_WAX	30	Speed to maintain while reaching SOS originated
			loco. Reference : Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:5,A2.3.1
789.	REVERSE_MODE_SPEED	25	UNITS IN KMPH
765.	NEVENSE_WODE_SI EED	23	RV mode speed limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
790.	REVERSE_MODE_SPEED_MIN	15	UNITS IN KMPH
750.	NEVERSE_WODE_SI EED_WIIN	13	RV mode speed limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
791.	REVERSE_MODE_SPEED_MAX	60	UNITS IN KMPH
, , ,			RV mode speed limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
792.	SHUNT_SPEED	15	UNITS IN KMPH
	_		SH mode speed Limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
793.	SHUNT_SPEED_MIN	5	UNITS IN KMPH
			SH mode speed Limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
794.	SHUNT_SPEED_MAX	50	UNITS IN KMPH
			SH mode speed Limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
795.	WHEEL_SEN_DIR_DISCRIMINATION_S	5	UNITS IN KMPH
	PEED		Wheel Sensor direction discrimination speed
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
796.	WHEEL_SEN_DIR_DISCRIMINATION_S	1	UNITS IN KMPH
	PEED_MIN		Wheel Sensor direction discrimination speed
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
797.	WHEEL_SEN_DIR_DISCRIMINATION_S	10	UNITS IN KMPH
	PEED_MAX		Wheel Sensor direction discrimination speed
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
798.	BRK_INTERVENTION_WITH_DRAWAL_	5	UNITS IN KMPH
	SPEED		When target speed is non Zero, the brake
			command is released when actual speed is within
			this limit above permitted speed

			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
799.	BRK_INTERVENTION_WITH_DRAWAL_	2	UNITS IN KMPH
, 55.	SPEED_MIN	-	When target speed is non Zero, the brake
	5. 225_iviiiv		command is released when actual speed is within
			this limit above permitted speed
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
800.	BRK INTERVENTION WITH DRAWAL	10	UNITS IN KMPH
800.	SPEED MAX	10	When target speed is non Zero, the brake
	SFEED_IVIAA		command is released when actual speed is within
			this limit above permitted speed
			Reference: Annexure-A2- Onboard KAVACH
001	CLIDDING ACCELEDATION LIAMT	1.0	Configurable Parameters, page no:6,A2.3.1
801.	SLIPPING_ACCELERATION_LIMIT	LD	UNITS IN KMPH
			Slipping acceleration Limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
802.	SLIPPING_ACCELERATION_LIMIT_MAX	0.5	UNITS IN KMPH
			Slipping acceleration Limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
803.	SLIPPING_ACCELERATION_LIMIT_MIN	2.5	UNITS IN KMPH
			Slipping acceleration Limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
804.	SLIPPING_DURATION	90	UNITS IN KMPH
			Duration of slipping time
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
805.	SLIPPING_DURATION_MIN	60	UNITS IN KMPH
			Duration of slipping time
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
806.	SLIPPING_DURATION_MAX	180	UNITS IN KMPH
			Duration of slipping time
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
807.	SLIPPING_PERCENTAGE	5	UNITS IN KMPH
			Duration of slipping time
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
808.	SLIPPING_PERCENTAGE_MIN	2	UNITS IN KMPH
	_ _		Duration of slipping time
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
809.	SLIPPING_PERCENTAGE_MAX	10	UNITS IN KMPH
		_~	1

			Duration of slipping time
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
810.	SLIP_LIMIT_1	4	UNITS IN KMPH
010.	3LII _LIIVIII _1		To detect slip in Kmph (PG1)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
811.	SLIP_LIMIT_1_MIN	2	UNITS IN KMPH
	3EII _EIIVII I _ I _ IVIII V		To detect slip in Kmph (PG1)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
812.	SLIP_LIMIT_1_MAX	10	UNITS IN KMPH
			To detect slip in Kmph (PG2)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
813.	SLIP_LIMIT_2	4	UNITS IN KMPH
			To detect slip in Kmph (PG1)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
814.	SLIP_LIMIT_2_MIN	2	UNITS IN KMPH
			To detect slip in Kmph (PG2)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
815.	SLIP_LIMIT_2_MAX	10	UNITS IN KMPH
			To detect slip in Kmph (PG2)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
816.	SKID_LIMIT_1	6	UNITS IN KMPH
			To detect SKID in Kmph (PG1)
			Reference: Annexure-A2- Onboard KAVACH
0.1=	0.005 1.000 1.000		Configurable Parameters, page no:6,A2.3.1
817.	SKID_LIMIT_1_MIN	2	UNITS IN KMPH
			To detect SKID in Kmph (PG1)
			Reference: Annexure-A2- Onboard KAVACH
818.	CIVID LIBAIT 1 BAAV	10	Configurable Parameters, page no:6,A2.3.1 UNITS IN KMPH
818.	SKID_LIMIT_1_MAX	10	To detect SKID in Kmph (PG2)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
819.	SKID_LIMIT_2	6	UNITS IN KMPH
019.	SKID_LIIVIII_Z	0	To detect SKID in Kmph (PG1)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
820.	SKID_LIMIT_2_MIN	2	UNITS IN KMPH
520.	51115_E114111_2_141114		To detect SKID in Kmph (PG2)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1

821.	SKID_LIMIT_2_MAX	10	UNITS IN KMPH
			To detect SKID in Kmph (PG2)
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
	\A/ai.a a Tia		
		ne mar	gin in second
822.	INTERVENTION_WARNING_INDICATIO	2	UNITS IN SECOND
	N		Warning indication before KAVACH brake
			intervention
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
823.	INTERVENTION_WARNING_INDICATIO	0	UNITS IN SECOND
	N_MIN		Warning indication before KAVACH brake
			intervention
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
824.	INTERVENTION_WARNING_INDICATIO	20	UNITS IN SECOND
	N_MAX		Warning indication before KAVACH brake
			intervention
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
825.	LP_TIME_MERGIN_IN_SECONDS	4	UNITS IN SECOND
			After warning indication, the LP reaction time
			margin before KAVACH brake intervention
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
826.	LP_TIME_MERGIN_IN_SECONDS_MIN	0	UNITS IN SECOND
			After warning indication, the LP reaction time
			margin before KAVACH brake intervention
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
827.	LP_TIME_MERGIN_IN_SECONDS_MAX	30	UNITS IN SECOND
			After warning indication, the LP reaction time
			margin before KAVACH brake intervention
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:6,A2.3.1
	7	Time O	ut
828.	TRACTION_CUTOFF_TIME	LD	UNITS IN SECOND
020.	TRACTION_COTOTT_TIME		The time delay between command to Traction
			cutoff
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
829.	TRACTION_CUTOFF_TIME_MIN	0	UNITS IN SECOND
023.	TRACTION_COTOTT_THRE_IVIIIV		The time delay between command to Traction
			cutoff
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1

830.	TRACTION_CUTOFF_TIME_MAX	30	UNITS IN SECOND The time delay between command to Traction
			cutoff
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
831.	SOS_TIMEOUT	180	UNITS IN SECOND
			SoS clears after this time if SoS source not
			transmitting SoS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
832.	SOS_TIMEOUT_MIN	30	UNITS IN SECOND
			SoS clears after this time if SoS source not
			transmitting SoS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
833.	SOS_TIMEOUT_MAX	300	UNITS IN SECOND
			SoS clears after this time if SoS source not
			transmitting SoS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
834.	REVERSE_MODE_TIMEOUT	600	UNITS IN SECOND
			Reverse mode will be exited after this time out.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
835.	REVERSE_MODE_TIMEOUT_MIN	60	UNITS IN SECOND
			Reverse mode will be exited after this time out.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
836.	REVERSE_MODE_TIMEOUT_MAX	900	UNITS IN SECOND
			Reverse mode will be exited after this time out.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
837.	OVRD_TIMEOUT	120	UNITS IN SECOND
			Override mode will be exited after this time out
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
838.	OVRD_TIMEOUT_MIN	60	UNITS IN SECOND
			Override mode will be exited after this time out
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
839.	OVRD_TIMEOUT_MAX	600	UNITS IN SECOND
			Override mode will be exited after this time out
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
840.	ONSIGHT_MA_EXPIRY_TIMOUT	240	UNITS IN SECOND
			On sight movement authority expires, if
			communication is not available for this time in

			communication mandatory zone.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
841.	ONSIGHT MA EXPIRY TIMOUT MIN	30	UNITS IN SECOND
041.	ONSIGHT_WA_EXTRICT_HWOOT_WIN	30	On sight movement authority expires, if
			communication is not available for this time in
			communication mandatory zone.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
842.	ONSIGHT_MA_EXPIRY_TIMOUT_MAX	600	UNITS IN SECOND
042.	ONSIGITI_IVIA_EXFIRT_TIMOOT_IVIAX	000	On sight movement authority expires, if
			communication is not available for this time in
			communication mandatory zone.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
843.	COMM TIMOUT ABS	30	UNITS IN SECOND
013.	COMM_11111001_7.23	30	The time up to which the loco shall remain in Full
			Supervision Mode when valid Radio packets are
			not received
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
844.	COMM_TIMOUT_ABS_MIN	6	UNITS IN SECOND
			The time up to which the loco shall remain in Full
			Supervision Mode when valid Radio packets are
			not received
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
845.	COMM_TIMOUT_ABS_MAX	120	UNITS IN SECOND
			The time up to which the loco shall remain in Full
			Supervision Mode when valid Radio packets are
			not received
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
846.	COMM_TIMOUT_AUTOMATIC_BLK	10	UNITS IN SECOND
			The time up to which the loco shall remain in Full
			Supervision Mode when valid Radio packets are
			not received
			Reference: Annexure-A2- Onboard KAVACH
0.17	COMMA TIMOUT AUTOMATIC CUI		Configurable Parameters, page no:7,A2.3.1
847.	COMM_TIMOUT_AUTOMATIC_BLK_M	6	UNITS IN SECOND
	IN		The time up to which the loco shall remain in Full
			Supervision Mode when valid Radio packets are
			not received Reference: Annexure-A2- Onboard KAVACH
848.	COMM_TIMOUT_AUTOMATIC_BLK_M	120	Configurable Parameters, page no:7,A2.3.1 UNITS IN SECOND
040.		120	The time up to which the loco shall remain in Full
	AX		The time up to which the loco shall remain in Full

			Supervision Mode when valid Radio packets are
			not received
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
849.	RAND_NUM_TIMOUT	30	UNITS IN SECOND
649.	KAND_NOW_HWOOT	30	
			Resetting the secured communication after
			communication failure
			Reference: Annexure-A2- Onboard KAVACH
0.50			Configurable Parameters, page no:7,A2.3.1
850.	RAND_NUM_TIMOUT_MAX	6	UNITS IN SECOND
			Resetting the secured communication after
			communication failure
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
851.	RAND_NUM_TIMOUT_MIN	120	UNITS IN SECOND
			Resetting the secured communication after
			communication failure
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
852.	BLK_STOP_ANNONCE_TIMOUT	15	UNITS IN SECOND
			Time allowed for generating block stop SoS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
853.	BLK_STOP_ANNONCE_TIMOUT_MIN	0	UNITS IN SECOND
			Time allowed for generating block stop SoS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
854.	BLK_STOP_ANNONCE_TIMOUT_MAX	60	UNITS IN SECOND
			Time allowed for generating block stop SoS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
855.	TIMOUT_FOR_SIG_DISPLAY	8	UNITS IN SECOND
			Time out to display of signal aspect after previous
			signal foot tag/location crossed
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
856.	TIMOUT FOR SIG DISPLAY MIN	2	UNITS IN SECOND
050.	1110001_1011_310_513151111111111	_	Time out to display of signal aspect after previous
			signal foot tag/location crossed
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:7,A2.3.1
857.	TIMOUT FOR SIG DISPLAY MAX	20	UNITS IN SECOND
657.	TIMOUT_FOR_SIG_DISPLAT_IMAX	20	
			Time out to display of signal aspect after previous
			signal foot tag/location crossed
			Reference: Annexure-A2- Onboard KAVACH
050	CLID CUID TIMOUT		Configurable Parameters, page no:7,A2.3.1
858.	SLIP_SKID_TIMOUT	90	UNITS IN SECOND

			To detect slip/skid time out
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
859.	SLIP_SKID_TIMOUT_MIN	10	UNITS IN SECOND
			To detect slip/skid time out
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
860.	SLIP_SKID_TIMOUT_MAX	180	UNITS IN SECOND
			To detect slip/skid time out
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
861.	ACK_TIMOUT_SR_MODE_TRANS	15	UNITS IN SECOND
			Time out for SR mode transition when train move
			KAVACH area to Non KAVACH area.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
862.	ACK_TIMOUT_SR_MODE_TRANS_MIN	5	UNITS IN SECOND
			Time out for SR mode transition when train move
			KAVACH area to Non KAVACH area.
			Reference: Annexure-A2- Onboard KAVACH
000	ACK TIMOLIT OF MODE TRANS MANY	20	Configurable Parameters, page no:8,A2.3.1
863.	ACK_TIMOUT_SR_MODE_TRANS_MAX	30	UNITS IN SECOND Time out for SR mode transition when train move
			KAVACH area to Non KAVACH area.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
864.	TIMOUT DISPLAY DMI_MSG	2	UNITS IN SECOND
		_	First and second targets (for Head ON/Rear End
			Collision, Turnout PSR. TSRLC Gate Approach
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
865.	TIMOUT_DISPLAY_DMI_MSG	1	UNITS IN SECOND
			First and second targets (for Head ON/Rear End
			Collision, Turnout PSR. TSRLC Gate Approach
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
866.	TIMOUT_DISPLAY_DMI_MSG	10	UNITS IN SECOND
			First and second targets (for Head ON/Rear End
			Collision, Turnout PSR. TSRLC Gate Approach
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
867.	GPS_FAIL_RTC_TIMOUT	30	UNITS IN MINUTE
			Post GPS/GNSS failure the time out Real Time
			Clock (RTC)
			Reference: Annexure-A2- Onboard KAVACH
000	CDC FAIL DTC TIMACUT MAIN	10	Configurable Parameters, page no:8,A2.3.1
868.	GPS_FAIL_RTC_TIMOUT_MIN	10	UNITS IN MINUTE

			Post GPS/GNSS failure the time out Real Time Clock (RTC) Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
869.	GPS_FAIL_RTC_TIMOUT_MAX	60	UNITS IN MINUTE Post GPS/GNSS failure the time out Real Time Clock (RTC) Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
870.	REQ_KMS_PERIODICITY	5	UNITS IN MINUTE Request for Key Management System (Not having any key) Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
871.	REQ_KMS_PERIODICITY	1	UNITS IN MINUTE Request for Key Management System (Not having any key) Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
872.	REQ_KMS_PERIODICITY	30	UNITS IN MINUTE Request for Key Management System (Not having any key) Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
873.	REQ_KMS_VALID_CHECK	30	UNITS IN MINUTE Request for KMS (having any key) Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
874.	REQ_KMS_VALID_CHECK_MIN	10	UNITS IN MINUTE Request for KMS (having any key) Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
875.	REQ_KMS_VALID_CHECK_MAX	30	UNITS IN MINUTE Request for KMS (having any key) Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
876.	RAND_REQ_MODE_VAL	120	UNITS IN MINUTE Randomized request mode value for Key Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
877.	RAND_REQ_MODE_VAL_MIN	30	UNITS IN MINUTE Randomized request mode value for Key Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:8,A2.3.1
878.	RAND_REQ_MODE_VAL_MAX	240	UNITS IN MINUTE Randomized request mode value for Key Reference: Annexure-A2- Onboard KAVACH

			Configurable Parameters, page no:8,A2.3.1
	R	eaction	· -
	110	action	
879.	LP_REACT_TIME	15	UNITS IN SECOND
			Loco pilot Time margin before KAVACH
			Intervention during mode change or unusual stop
			SoS in block section.
			Reference: Annexure-A2- Onboard KAVACH
880.	ID DEACT TIME MAIN	4	Configurable Parameters, page no:8,A2.3.1 UNITS IN SECOND
880.	LP_REACT_TIME_MIN	4	Loco pilot Time margin before KAVACH
			Intervention during mode change or unusual stop
			SoS in block section.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
881.	LP REACT TIME MAX	30	UNITS IN SECOND
001.			Loco pilot Time margin before KAVACH
			Intervention during mode change or unusual stop
			SoS in block section.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:8,A2.3.1
	Ma	rgin Dis	·
882.	OVRLAP_DIST	80	UNITS IN METER
002.	O V N.D. (1D131		Overlap in addition to MA control
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
883.	OVRLAP_DIST_MIN	0	UNITS IN METER
			Overlap in addition to MA control
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
884.	OVRLAP_DIST_MAX	400	UNITS IN METER
			Overlap in addition to MA control
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
885.	COLL_MARGIN_DIST	300	UNITS IN METER
			For Rear End Collisions
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
886.	COLL_MARGIN_DIST_MIN	100	UNITS IN METER
			For Rear End Collisions
			Reference: Annexure-A2- Onboard KAVACH
007	COLL MARCINI DICT MANY	500	Configurable Parameters, page no:9,A2.3.1
887.	COLL_MARGIN_DIST_MAX	500	UNITS IN METER
			For Rear End Collisions
			Reference: Annexure-A2- Onboard KAVACH
000	COC TRIC DICT	2000	Configurable Parameters, page no:9,A2.3.1
888.	SOS_TRIG_DIST	3000	UNITS IN METER

			Distance for Acceptance of SOS from Station or other Loco Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
889.	SOS_TRIG_DIST_MIN	500	UNITS IN METER Distance for Acceptance of SOS from Station or other Loco Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
890.	SOS_TRIG_DIST_MAX	6000	UNITS IN METER Distance for Acceptance of SOS from Station or other Loco Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
891.	SOS_CANCEL_DIST	1500	UNITS IN METER Distance for Clear of SOS from Station or other Loco Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
892.	SOS_CANCEL_DIST_MIN	500	UNITS IN METER Distance for Clear of SOS from Station or other Loco Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
893.	SOS_CANCEL_DIST_MAX	5000	UNITS IN METER Distance for Clear of SOS from Station or other Loco Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
894.	SOS_HOLD_DIST	1500	UNITS IN METER Distance to clear SOS from the point of occurrence Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
895.	SOS_HOLD_DIST_MIN	0	UNITS IN METER Distance to clear SOS from the point of occurrence Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
896.	SOS_HOLD_DIST_MAX	3000	UNITS IN METER Distance to clear SOS from the point of occurrence Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
897.	ROL_AWAY_ROL_BACK_TRIG_DIST	5	UNITS IN METER Roll away or Roll Back Trigger Distance Reference: Annexure-A2- Onboard KAVACH Configurable Parameters, page no:9,A2.3.1
898.	ROL_AWAY_ROL_BACK_TRIG_DIST	5	UNITS IN METER Roll away or Roll Back Trigger Distance

			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
899.	ROL_AWAY_ROL_BACK_TRIG_DIST	30	UNITS IN METER
			Roll away or Roll Back Trigger Distance
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
900.	OVRD_PERMIT_DIST	200	UNITS IN METER
			Override Permitted only when MA is Less than this
			limit. Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
901.	OVRD_PERMIT_DIST_MIN	50	UNITS IN METER
			Override Permitted only when MA is Less than this
			limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
902.	OVRD_PERMIT_DIST_MAX	500	UNITS IN METER
			Override Permitted only when MA is Less than this
			limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
903.	UNUSUAL_STOP_BYPASS_MA_LIMIT	300	UNITS IN METER
			SoS will not generate even if train stops in block
			section, If MA is less than this Distance limit
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
904.	UNUSUAL_STOP_BYPASS_MA_LIMIT_	100	UNITS IN METER
	MIN		SoS will not generate even if train stops in block
			section, If MA is less than this Distance limit
			Reference: Annexure-A2- Onboard KAVACH
005	LINUICUAL CTOR DVDACC NAA LINAIT	1000	Configurable Parameters, page no:9,A2.3.1
905.	UNUSUAL_STOP_BYPASS_MA_LIMIT_ MAX	1000	UNITS IN METER
	IVIAX		SoS will not generate even if train stops in block
			section, If MA is less than this Distance limit Reference : Annexure-A2- Onboard KAVACH
906.	SIG_FOOT_TAG_MIS_DIST	30	Configurable Parameters, page no:9,A2.3.1 UNITS IN METER
906.	SIG_FOOT_TAG_MIS_DIST	30	
			Distance to declare signal foot crossed in case of tag missed.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
907.	SIG_FOOT_TAG_MIS_DIST_MIN	10	UNITS IN METER
307.	310_1 001_1A0_W13_D131_W11W	10	Distance to declare signal foot crossed in case of
			tag missed.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
908.	SIG_FOOT_TAG_MIS_DIST_MAX	100	UNITS IN METER
500.	3.6_1.661_1/(6_14115_b151_141/A/	100	Distance to declare signal foot crossed in case of
			Distance to accidite signal foot crossed in case of

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			Minimum MA required to declare Block stop SOS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:9,A2.3.1
919.	BLOCK STOP TRIG MA DIST MIN	100	UNITS IN METER
			Minimum MA required to declare Block stop SOS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
920.	BLOCK_STOP_TRIG_MA_DIST_MAX	1000	UNITS IN METER
			Minimum MA required to declare Block stop SOS
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
921.	LC_HORN_ENABLE_DIST	600	UNITS IN METER
			Distance at which Horn to be enable at LC gate
			Reference: Annexure-A2- Onboard KAVACH
022	LC LIONN SNARIS DICT MAN	0	Configurable Parameters, page no:9,A2.3.1
922.	LC_HORN_ENABLE_DIST_MIN	0	UNITS IN METER
			Distance at which Horn to be enable at LC gate Reference : Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
923.	LC_HORN_ENABLE_DIST_MAX	1000	UNITS IN METER
<i>J</i> 23.	LC_HORN_ENABLE_DIST_WAX	1000	Distance at which Horn to be enable at LC gate
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
924.	GRAD_SCAN_DIST	3000	UNITS IN METER
			Distance up to which gradient is to be scanned
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
925.	GRAD_SCAN_DIST_MIN	1000	UNITS IN METER
			Distance up to which gradient is to be scanned
			Reference: Annexure-A2- Onboard KAVACH
006	CDAD COAN DIST MAN	40000	Configurable Parameters, page no:10,A2.3.1
926.	GRAD_SCAN_DIST_MAX	10000	UNITS IN METER
			Distance up to which gradient is to be scanned Reference : Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
927.	PSP_SCAN_DIST	3000	UNITS IN METER
327.	131_36/114_5131	3000	Distance up to which PSR to be scanned
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
928.	PSP_SCAN_DIST_MIN	1000	UNITS IN METER
			Distance up to which PSR to be scanned
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:1,A2.3.1
929.	PSP_SCAN_DIST_MAX	10000	UNITS IN METER
			Distance up to which PSR to be scanned
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1

930.	MIN_TRACK_PROF_REQ_DIST	3000	UNITS IN METER Minimum Track Profile distance required to go to LS/FS mode Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
931.	MIN TRACK PROF REQ DIST MIN	1000	UNITS IN METER
331.	wiint_riviteit_riter_itteg_eisr_iviiit	1000	Minimum Track Profile distance required to go to LS/FS mode
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:1,A2.3.1
932.	MIN_TRACK_PROF_REQ_DIST_MAX	10000	UNITS IN METER
			Minimum Track Profile distance required to go to LS/FS mode
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
933.	RV_MODE_DIST_MARGIN	500	UNITS IN METER
			RV mode distance to move the Train in reverse direction
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
934.	RV_MODE_DIST_MARGIN_MIN	100	UNITS IN METER
			RV mode distance to move the Train in reverse
			direction
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
935.	RV_MODE_DIST_MARGIN_MAX	1000	UNITS IN METERRV mode distance to move the
			Train in reverse direction Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
		606	Configurable Farameters, page 10.10,A2.3.1
		SOS	
936.	SIGNAL_LINKING_OS_MODE	100	UNITS IN METER
			Speed to maintain while reaching SOS originated location
			Reference: Annexure-A2- Onboard KAVACH
		_	Configurable Parameters, page no:10,A2.3.1
937.	SIGNAL_LINKING_OS_MODE_MIN	50	UNITS IN METER
			Speed to maintain while reaching SOS originated
			location
			Reference: Annexure-A2- Onboard KAVACH
020	CICNIAL LINIVING OF MADDE MANY	20	Configurable Parameters, page no:10,A2.3.1 UNITS IN METER
938.	SIGNAL_LINKING_OS_MODE_MAX	30	
			Speed to maintain while reaching SOS originated
			location. Reference : Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
939.	MISSED VALID ABS RADIO PKT	14	UNITS IN CYCLE
333.	WIIJSED_VALID_ADS_NADIO_FKI	14	For Mode transition from FS t or OS/OV to SR in
			TO MICHE GRADICION HOME TO COLOS/OV LOSK III

			Absolute Block
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
940.	MISSED VALID ABS RADIO PKT MIN	5	UNITS IN CYCLE
540.	WIISSED_VALID_ABS_IADIO_FK1_WIIIV	3	For Mode transition from FS t or OS/OV to SR in
			Absolute Block
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
941.	MISSED_VALID_ABS_RADIO_PKT_MAX	30	UNITS IN CYCLE
341.	WII33EB_V/KEIB_/KB3_IV/KBIG_I K1_IVI/K	30	For Mode transition from FS t or OS/OV to SR in
			Absolute Block
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:10,A2.3.1
942.	MISSED_VALID_AUTO_BLK_RADIO_PK	5	UNITS IN CYCLE
	T		For Mode transition from FS to LS or OS/OV to SR
			in Automatic Block
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
943.	MISSED_VALID_AUTO_BLK_RADIO_PK	1	UNITS IN CYCLE
	T_MIN		For Mode transition from FS to LS or OS/OV to SR
			in Automatic Block
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
944.	MISSED_VALID_AUTO_BLK_RADIO_PK	30	UNITS IN CYCLE
	T_MAX		For Mode transition from FS to LS or OS/OV to SR
			in Automatic Block
			Reference: Annexure-A2- Onboard KAVACH
0.45	AMESSED MANUE MURTINAL BUY BARIO		Configurable Parameters, page no:11,A2.3.1
945.	MISSED_VALID_VIRTUAL_BLK_RADIO_	5	UNITS IN CYCLE
	PKT		For Mode transition from FS to LS or OS/OV to SR in Virtual Block
			Reference: Annexure-A2- Onboard KAVACH
946.	MISSED_VALID_	1	Configurable Parameters, page no:11,A2.3.1 UNITS IN CYCLE
340.	VIRTUAL_BLK_RADIO_PKT_MIN	1	For Mode transition from FS to LS or OS/OV to SR
	VINTOAL_BER_NADIO_FRI_WIIV		in Virtual Block
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
947.	MISSED_VALID_	30	UNITS IN CYCLE
	VIRTUAL_BLK_RADIO_PKT_MAX		For Mode transition from FS to LS or OS/OV to SR
			in Virtual Block
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
948.	REVERSE_MOV_TRIG_DIST	2	UNITS IN METER
			Cab input and wheel sensor direction
			discrimination distance
			Reference: Annexure-A2- Onboard KAVACH

			Configurable Parameters, page no:11,A2.3.1
949.	REVERSE MOV TRIG_DIST_MIN	2	UNITS IN METER
343.	KEVEKSE_IVIOV_TKIO_DIST_IVIIIV	۷	Cab input and wheel sensor direction
			discrimination distance
			Reference: Annexure-A2- Onboard KAVACH
		10	Configurable Parameters, page no:11,A2.3.1
950.	REVERSE_MOV_TRIG_DIST_MAX	10	UNITS IN METER
			Cab input and wheel sensor direction
			discrimination distance
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
	Periodicity of	Packet	Transmission
951.	ONBOARD_STN_RADIO_PKT_NON_LE	120	UNITS IN SECOND
	AD_MODE		Onboard-to- Stationary Radio Packet in Non
			Leading mode.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
952.	ONBOARD STN RADIO PKT NON LE	30	UNITS IN SECOND
332.	AD_MODE_MIN	30	Onboard-to- Stationary Radio Packet in Non
	NO_INIODE_IVIIIV		Leading mode.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
953.	ONBOARD STN RADIO PKT NON LE	240	UNITS IN SECOND
955.	AD_MODE_MAX	240	Onboard-to- Stationary Radio Packet in Non
	AD_INIODE_INIAX		Leading mode.
			Reference: Annexure-A2- Onboard KAVACH
054	CNIDGARD CTNI DADIG DIZT NON ICO	120	Configurable Parameters, page no:11,A2.3.1 UNITS IN SECOND
954.	ONBOARD_STN_RADIO_PKT_NON_ISO	120	
	LATION_MODE		Onboard-to- Stationary Radio Packet in Isolation
			mode.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
955.	ONBOARD_STN_RADIO_PKT_NON_ISO	30	UNITS IN SECOND
	LATION_MODE_MIN		Onboard-to- Stationary Radio Packet in Isolation
			mode.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
956.	ONBOARD_STN_RADIO_PKT_NON_ISO	240	UNITS IN SECOND
	LATION_MODE_MAX		Onboard-to- Stationary Radio Packet in Isolation
			mode.
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
957.	THRESHOLD_UPDATE_TRAIN_LEN_AFT	25	UNITS IN METER
	ER_TLM		Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
958.	THRESHOLD_UPDATE_TRAIN_LEN_AFT	10	UNITS IN METER
	ER_TLM_MIN		Reference: Annexure-A2- Onboard KAVACH
L			

			Configurable Parameters, page no:11,A2.3.1
959.	THRESHOLD_UPDATE_TRAIN_LEN_AFT	100	UNITS IN METER
	ER_TLM_MAX		Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
	LC Gate	Auto \	Whistling
960.	LC_HORN_ON_TIME	2	UNITS IN SECOND
			Horn on time for whistling at LC gate
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
961.	LC HORN ON TIME MIN	0	UNITS IN SECOND
			Horn on time for whistling at LC gate
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
962.	LC_HORN_ON_TIME_MAX	10	UNITS IN SECOND
			Horn on time for whistling at LC gate
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
963.	LC HORN OFF TIME	3	UNITS IN SECOND
	2000		Horn OFF time for whistling at LC gate
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
964.	LC_HORN_OFF_TIME_MIN	0	UNITS IN SECOND
301.	26_1101111_011_1111112_1111111	Ü	Horn OFF time for whistling at LC gate
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
965.	LC_HORN_OFF_TIME_MAX	10	UNITS IN SECOND
			Horn OFF time for whistling at LC gate
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
	UHF Radio m	odem	configuration
966.	POWER	10	UNITS IN WATT
300.	1000210	10	Radio Transmission Power
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
967.	POWER MIN	1	UNITS IN WATT
307.	1 OWEN_IIIII	-	Radio Transmission Power
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
968.	POWER_MAX	20	UNITS IN WATT
500.	TOWEN_IVIAX	20	Radio Transmission Power
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
969.	FREQ_RESOLUTION	1000	UNITS IN HZ
303.	TREQ_RESOLUTION	1000	Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
070	EDEO DESOLUTION MAIN	1	UNITS IN HZ
970.	FREQ_RESOLUTION_MIN	1	UNITS IN TL

			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
971.	FREQ RESOLUTION MAX	100000	UNITS IN HZ
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
972.	BASE_FREQ	406	UNITS IN MHZ
			Base Frequency
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
973.	BASE_FREQ_MIN	100	UNITS IN MHZ
			Base Frequency
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
974.	BASE_FREQ_MAX	999	UNITS IN MHZ
			Base Frequency
			Reference: Annexure-A2- Onboard KAVACH
075	50 5050	407.605	Configurable Parameters, page no:11,A2.3.1
975.	F0_FREQ	427.625	UNITS IN MHZ
			Centre frequency Tx & Rx Reference: Annexure-A2- Onboard KAVACH
976.	FO FREQ MIN	100	Configurable Parameters, page no:11,A2.3.1 UNITS IN MHZ
976.	FO_FREQ_IVIIN	100	Centre frequency Tx & Rx
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
977.	FO_FREQ_MAX	999	UNITS IN MHZ
	10_11120_1111111	333	Centre frequency Tx & Rx
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
978.	CHANNEL_BAND_WIDTH	25	UNITS IN KHZ
			Channel Bandwidth
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
979.	CHANNEL_BAND_WIDTH_MIN	25	UNITS IN KHZ
			Channel Bandwidth
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
980.	CHANNEL_BAND_WIDTH_MAX	100	UNITS IN KHZ
			Channel Bandwidth
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:11,A2.3.1
981.	CHANNEL_SWITCHING_TIME	3	UNITS IN MILLI SEC
			Transmitter Turn-on time (Tx. Freq. stable)/
			Channel Switching time
			Reference: Annexure-A2- Onboard KAVACH
		_	Configurable Parameters, page no:12,A2.3.1
982.	CHANNEL_SWITCHING_TIME_MIN	1	UNITS IN MILLI SEC

			Transmitter Turn-on time (Tx. Freq. stable)/
			Channel Switching time
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
983.	CHANNEL_SWITCHING_TIME_MAX	15	UNITS IN MILLI SEC
			Transmitter Turn-on time (Tx. Freq. stable)/
			Channel Switching time
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
	Time slo	ot Man	agement
984.	FRAME_CYCLE	2	UNITS IN SECOND
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
985.	FRAME_CYCLE_MIN	0.5	UNITS IN SECOND
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
986.	FRAME_CYCLE_MAX	2	UNITS IN SECOND
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
987.	NO_OF_SLOTS_CENTRE_FREQ	16	UNITS IN NUMBER
			Slot required for Access request packet and
			additional emergency packet
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
988. I	NO_OF_SLOTS_CENTRE_FREQ_MIN	1	UNITS IN NUMBER
			Slot required for Access request packet and
			additional emergency packet
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
989. 1	NO_OF_SLOTS_CENTRE_FREQ_MAX	100	UNITS IN NUMBER
			Slot required for Access request packet and
			additional emergency packet
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
990.	TIME_SLOT_ACC_REQ_PKT	P52	12 time slot are catered
		_	Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
991.	TIME SLOT ACC REQ PKT MIN	P47	12 time slot are catered
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
992.	TIME_SLOT_ACC_REQ_PKT_MAX	P70	12 time slot are catered
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
993.	TIME_SLOT_ADD_EMERG_PKT	P53	4 time slot are catered
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1

994.	TIME_SLOT_ ADD_EMERG_PKT_MIN	P47	4 time slot are catered Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
995.	TIME_SLOT_ ADD_EMERG_PKT_MAX	P70	4 time slot are catered
			Reference: Annexure-A2- Onboard KAVACH
000	TIME CLOT WIDTH	22.5	Configurable Parameters, page no:12,A2.3.1
996.	TIME_SLOT_WIDTH	22.5	UNITS IN MILLI SEC Time slot width
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
997.	TIME SLOT WIDTH MIN	15	UNITS IN MILLI SEC
	111112_3231_1113111_1111111	13	Time slot width
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
998.	TIME_SLOT_WIDTH_MAX	40	UNITS IN MILLI SEC, Time slot width
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
999.	TIME_SLOT_SPACING	5	UNITS IN MILLI SEC
			Spacing between the time slot
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
1000.	TIME_SLOT_SPACING_MIN	5	UNITS IN MILLI SEC
			Spacing between the time slot
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:12,A2.3.1
1001.	TIME_SLOT_SPACING_MAX	20	UNITS IN MILLI SEC
			Spacing between the time slot
			Reference: Annexure-A2- Onboard KAVACH
1002.	CTART TIME DO	45	Configurable Parameters, page no:12,A2.3.1 UNITS IN MILLI SEC
1002.	START_TIME_P2	45	Start time of P2 slot in radio transmission
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1003.	START_TIME_P2_MIN	45	UNITS IN MILLI SEC
	5 <u>-</u> <u>-</u>	.5	Start time of P2 slot in radio transmission
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1004.	START_TIME_P2_MAX	100	UNITS IN MILLI SEC
			Start time of P2 slot in radio transmission
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1005.	START_TIME_P47	1320	UNITS IN MILLI SEC
			Start time of P47 slot in radio transmission
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1006.	START_TIME_P47_MIN	1200	UNITS IN MILLI SEC
			Start time of P47 slot in radio transmission

			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1007.	START_TIME_P47_MAX	1400	UNITS IN MILLI SEC
1007.	START_TIME_T 47_WAX	1400	Start time of P47 slot in radio transmission
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
	GSM	Configu	uration
1008.	GSM_1_APN_NAME		Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1009.	GSM_2_APN_NAME		Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
	II II	P Addre	ess
1010.	NMS_OCTET_IP_ADDRESS_1	127	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1011.	NMS_OCTET_IP_ADDRESS_1_MIN	1	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1012.	NMS_OCTET_IP_ADDRESS_1_MAX	255	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1013.	NMS_OCTET_IP_ADDRESS_2	168	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1014.	NMS_OCTET_IP_ADDRESS_2_MIN	1	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1015.	NMS_OCTET_IP_ADDRESS_2_MAX	255	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1016.	NMS_PORT_1	60901	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1017.	NMS_PORT_1_MIN	1	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1018.	NMS_PORT_1_MAX	65535	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1019.	NMS_PORT_2	60902	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1020.	NMS_PORT_2_MIN	1	UNITS IN NUMBER
			Reference: Annexure-A2- Onboard KAVACH
			Configurable Parameters, page no:13,A2.3.1
1021.	NMS_PORT_2_MAX	65535	UNITS IN NUMBER

			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1022.	KMS_OCTET_IP_ADDRESS_1	127	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1023.	KMS_OCTET_IP_ADDRESS_1_MIN	1	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1024.	KMS_OCTET_IP_ADDRESS_1_MAX	255	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1025.	KMS_OCTET_IP_ADDRESS_2	168	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1026.	KMS_OCTET_IP_ADDRESS_2_MIN	1	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1027.	KMS_OCTET_IP_ADDRESS_2_MAX	255	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
1020	VAAC DODT 4	60001	Configurable Parameters, page no:13,A2.3.1	
1028.	KMS_PORT_1	60901	UNITS IN NUMBER Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1029.	KMS_PORT_1_MIN	1	UNITS IN NUMBER	
1023.	KW3_FORT_1_WIIV	_	Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1030.	KMS_PORT_1_MAX	65535	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1031.	KMS PORT 2	60902	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1032.	KMS_PORT_2_MIN	1	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1033.	KMS_PORT_2_MAX	65535	UNITS IN NUMBER	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
	Data Logging			
1034.	DETAILED_DATA_LOGGING	72	UNITS IN HOUR	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1035.	DETAILED_DATA_LOGGING_MIN	24	UNITS IN HOUR	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1036.	DETAILED_DATA_LOGGING_MAX	240	UNITS IN HOUR	

			Reference: Annexure-A2- Onboard KAVACH	
1027	MAINTENEE DATA LOCCING	15	Configurable Parameters, page no:13,A2.3.1 UNITS IN DAYS	
1037.	MAINTENCE_DATA_LOGGING	15		
			Reference: Annexure-A2- Onboard KAVACH	
1000	AAAAATTENGE BATA LOOGING AAAA	_	Configurable Parameters, page no:13,A2.3.1	
1038.	MAINTENCE_DATA_LOGGING_MIN	5	UNITS IN DAYS	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1039.	MAINTENCE_DATA_LOGGING_MAX	90	UNITS IN DAYS	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1040.	CRITICAL_FAULT_DATA	90	UNITS IN DAYS	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1041.	CRITICAL_FAULT_DATA_MIN	10	UNITS IN DAYS	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1042.	CRITICAL_FAULT_DATA_MAX	180	UNITS IN DAYS	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
	LP OCIP			
1043.	MIN_BUTTON_PRESS_TIME	500	UNITS IN MILLI SEC	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1044.	MIN_BUTTON_PRESS_TIME_MIN	100	UNITS IN MILLI SEC	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1045.	MIN_BUTTON_PRESS_TIME_MAX	10000	UNITS IN MILLI SEC	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1046.	MAX_BUTTON_PRESS_TIME	6000	UNITS IN MILLI SEC	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1047.	MAX_BUTTON_PRESS_TIME_MIN	100	UNITS IN MILLI SEC	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1048.	MAX_BUTTON_PRESS_TIME_MAX	10000	UNITS IN MILLI SEC	
			Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
	RFIC	Misse		
1049.	MAX_CONSECUTIVE_MISS_CNT	3	Reference: Annexure-A2- Onboard KAVACH	
			Configurable Parameters, page no:13,A2.3.1	
1050.	MAX_CONSECUTIVE_MISS_CNT_MIN	1	Reference: Annexure-A2- Onboard KAVACH	
1000.			Configurable Parameters, page no:13,A2.3.1	
1051.	MAX CONSECUTIVE MISS CNT MAX	10	Reference: Annexure-A2- Onboard KAVACH	
1031.			Configurable Parameters, page no:13,A2.3.1	
		i	Comparable Farameters, page 110.13,72.3.1	