



# **Precautions to Avoid Signal Passing at Danger (SPAD)**

**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005  
① : 0751-2470803, Fax: 0751-2470841  
Email: [direlcamtech@gmail.com](mailto:direlcamtech@gmail.com)

# QUALITY POLICY

*To develop safe, modern and cost effective Railway Technology complying with statutory and regulatory requirements, through excellence in Research, Designs and Standards and continual improvements in Quality Management system to cater to growing demand of passenger and freight traffic on the railways.*



## Disclaimer:

*It is clarified that this calendar does not supercede any existing instructions laid down by Railway Board/ Zonal Railways. This safety calendar is only for guidance and it is not a statutory document.*



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

- 1. Assistant Loco Pilot should call out the correct aspect of signals with hand gesture along with signal name/ number and train speed loudly and Loco Pilot should acknowledge the same.**



2.

**Assistant Loco Pilot should apply emergency brakes by opening of D-1 pilot/ RS valve in case Loco Pilot is not vigilant or not reacting according to signal aspect.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



**3. Always keep your train under perfect control. Keep a sharp look out for correct signals pertaining to your line.**



**Avoid over speeding & over confidence.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

**4.**

**Reduce speed proportionately in case signal aspect is restrictive.**



Caution



Attention



**Do not presume the aspect of next signal**

**5.**

**Loco pilot should stop the train at adequate distance before the foot of signal when it is at “ON”, so as to have clear view of signal from cab, subject to clearing of fouling mark.**



**DO NOT USE ELECTRICAL BRAKES FOR STOPPING  
AT SIGNALS**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



6.

**Don't use walkie-talkie to get information about signal aspect or other operational instructions from station staff during train operation.**



**Authority to proceed on walkie-talkie is not permitted.**



# 7. BE VIGILANT AND FOCUS ONLY ON SAFE TRAIN OPERATION



**Do not discuss personal problems/ un-necessary talk during train operation**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

**8.**

**Crew to ensure that proper signal(s) for their train is taken OFF/ authority received, before starting the train.**



**OBSERVE THE ASPECT TILL  
PASSING THE SIGNAL**

9.

**Breath analyser tests shall be conducted as prescribed.  
(GR 2.09)**



**Keep away from alcohol drink,  
narcotic, stimulant drugs.**



**INDIAN RAILWAYS  
Centre for Advanced Maintenance Technology**

Maharajpur, Gwalior - 474005  
☎ : 0751-2470803, Fax: 0751-2470841  
Email: edcamtech@gmail.com

**10. Loco Pilots should not use mobile phones while on run. Foot plating officers/ Supervisors should also not use mobile phone as this will distract the loco crew.**





**11.**

**During fog, when Loco Pilot feels that visibility is restricted due to fog, he shall run at a speed at which he can control the train so as to be prepared to stop short of any obstruction**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 12.

**Safety devices like VCD, AWS etc. should not be isolated on line by crew, which are otherwise in working condition.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 13.

**Loco Pilot should bring MP to '0' (zero) notch before applying of A9 & SA9 in case of any unusual incidence like train parting etc.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



14.

## **Railway should give proper Learning Road (LR) to running staff**



**Extend the LR period until staff is well  
conversant with the sections and  
confident to work independently**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



15.

**CLIs should be interacting with family member of crew for bringing about an awareness of the need for quality rest at the home station.**



**PERSONAL PROBLEMS OF CREW MAY  
BE GIVEN DUE ATTENTION**

# 16.



**Continuous night duty for running staff should be limited to 2 nights.**



**Crew who report after long leave/ sickness/ absent/ training should be booked after **6AM** in the morning next day. accompanied by LI. They should be counselled at lobby on all instructions etc. issued during the period of his absence.**



**Crew should be preferably booked for day duty hours, after availing short leave/ long rest.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 17.

**SPAD cases on the Zonal Railways should be discussed in the training centers for awareness.**



**Ensure that each and every crew is imparted adequate training to prevent SPAD. Aptitude tests as prescribed shall be conducted for crew.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



# 18.

**Pairing of newly promoted crew should be avoided. One crew should have sufficient learning road.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



# 19.

**SPAD cases usually occur when loco pilot stops for prolonged periods en-route and starts. Therefore crew should be continuously updated and informed about their likely departure time by control/ station staff.**



**Before starting, loco pilot should confirm that signal given is for his train.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 20.

**Loco pilot should exchange alright hand signal with guard/ station staff after confirming the correct signal aspect before starting the train.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 21.

**Observe all permanent & temporary speed restrictions rigidly.**



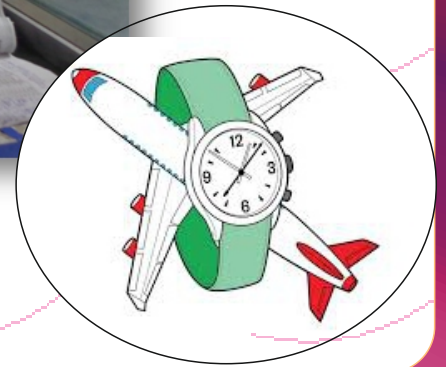
**Assistant Loco Pilot shall inform Loco Pilot about each speed restriction.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 22.

**Appear right time on duty and read all latest circulars, caution order and notifications before signing ON.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



**23.**

**Keep in mind the load of your train  
for controlling the speed and making  
appropriate halt.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 24.

**Use front cab driving during shunting.  
Do not leave locomotive un-manned  
after taking charge**



**To be more careful while driving Light Engines  
since the brake power of Light Engines may not  
be as good as train brakes.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

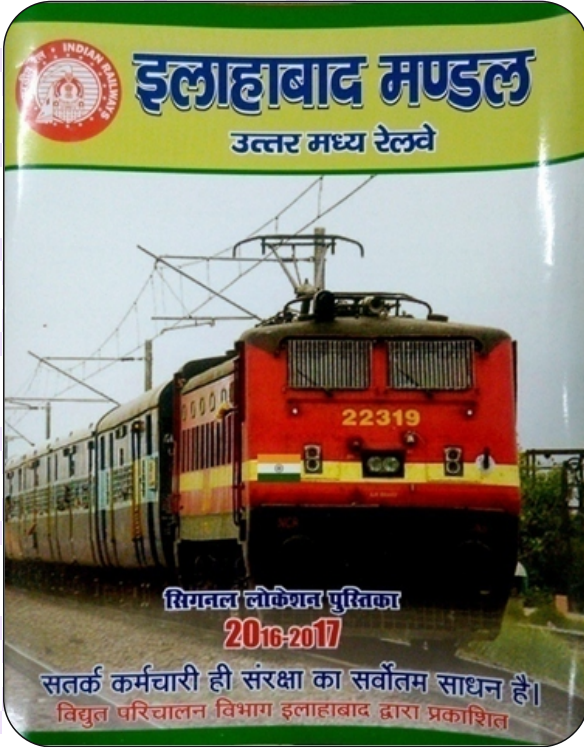
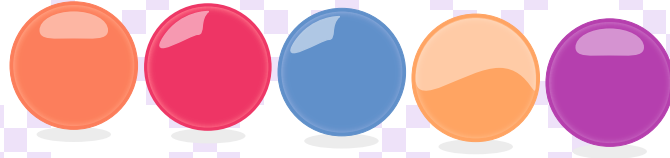
**25.**

**Ensure the train is not in fully released condition while approaching engine halt board, but always keep your train in braked condition with the help of brake controller LAP position.**





# 26.



**If signal are located at right side or at any other critical location, Railways shall prepare printed pocket sized signal location books/ cards and distribute the same amongst the running staff.**





27.

**Railways should ensure that signal sighting committees go on line regularly and ensure that there is no obstruction to the visibility of signal during day or night.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 28.

**Loco pilot of tower car shall be given PILOT DRIVER (loco pilot having LR) while movement in other divisions.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005

# 29. Loco pilot should conduct brake continuity, brake feel and brake power test of the train as prescribed.



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



**30.**

**Close monitoring of duty hours and periodical rest must be ensured. Ensure that all loco running staff booked to work trains have availed full rest as prescribed at home station and out station.**



**No under rest crew shall be booked for working trains except in emergency conditions.**



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



# 31. Running staff should avoid the tendency of packing of their personal belongings while approaching the terminating station/ completion of journey.



**INDIAN RAILWAYS**  
**Centre for Advanced Maintenance Technology**  
Maharajpur, Gwalior - 474005



**Indian Railways**  
Life Line To The Nation



**अअमा संRDS**  
रेल अग्रदूत Transforming Railways



**Indian Railways**  
Centre for Advanced Maintenance Technology

**TAKE OATH**



**“NO” SPAD**

**INDIAN RAILWAYS**

**Centre for Advanced Maintenance Technology**

Maharajpur, Gwalior - 474005

☎ : 0751-2470803, Fax: 0751-2470841