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WORKING OF
IBP
(INTERMEDIATE BLOCK
POST)

WORKING OF INTERMEDIATE BLOCK POST



- **Intermediate block signalling means an arrangement of signals both on double line & single in which a long block section is split into two portions each is constituting a separate block section by providing intermediate block post.**
- **The Intermediate block post is unmanned station remotely controlled from the block station in rear.**

WORKING OF INTERMEDIATE BLOCK POST



- **It is provided to increase section capacity, to reduce the detentions, to reduce the staff, to secure economy and efficiency in the operation.**
- **By providing IB post; lengthy block section is divided into two block section.**

WORKING OF INTERMEDIATE BLOCK POST



- **First section controlled by Axle counters/Track circuit. One set of A/C provided in advance of LSS and other set provided 400m in advance of IB Home signal. In case of T/C, it is provided throughout LSS to 400m ahead of IB Home Signal.**
- **LSS is interlocked with AC/TC and IB signal is interlocked with block instrument.**

WORKING OF INTERMEDIATE BLOCK POST



NORMAL WORKING :

- If a SM has to despatch a train first of all he ensure that Axle counter/Track circuit section is free and take off LSS of his station.
- He then enquire the SM of other end about the line clear of said train. If granted, he will take OFF IB stop signal.
- When train passes IB signal and block overlap the AC/TC section again show clear.

WORKING OF INTERMEDIATE BLOCK POST



NORMAL WORKING

- **Now, if the SM has any train to despatch, he can despatch it upto IB home signal by despatching LSS and without taking line clear from other end SM.**
- **By the time second train reaches IB signal, first train may clear into advance station and SM will get Line number for second train.**
- **Then the SM can take off IB signal for second train.**

WORKING OF INTERMEDIATE BLOCK POST



IB SIGNAL DEFECTIVE: **BEFORE DESPATCHING TRAIN :**

When SM is aware when the IB stop signal is defective (A/C or T/C) failed or LSS failed or Block Instrument failed before dispatching a train,

- a) Treat two sections i.e. A/C or T/C section and IB section as one block section and suspend the IB working.**
- a) First he ensures the clearance of A/C or T/C section by asking the complete arrival of last despatch train under exchange of P.No.(section clear)**

WORKING OF INTERMEDIATE BLOCK POST



IB SIGNAL DEFECTIVE (S.R.3.75)

BEFORE DESPATCHING TRAIN :

- c) Again he obtain line clear for the despatching train under exchange of P.No. (Line clear)
- c) Issue one T/369[3b] for LSS with section clear P.No. and another T/369[3b] with line clear P.No.to pass IB stop signal at 'ON'.
- c) LP can proceed with normal speed.

NOTE- Speed must be kept 15 kmph while passing LSS and IB stop signal as mentioned in T/369[3b].

WORKING OF INTERMEDIATE BLOCK POST



IB SIGNAL DEFECTIVE:

AFTER DESPATCHING TRAIN :

When Loco Pilot finds an IB signal is at 'ON' -

- a) He shall stop the train and contact immediately SM of rear station on telephone.
- b) If block section is free and line clear is obtained, SM shall authorize the Loco Pilot to pass IB signal at 'ON' by Giving P.No which was obtained from advance SM.
- c) LP shall record this P.No. in the LP's memo book.
- d) Pass the IB signal at ON and proceed with normal speed. (Whistle code: )

WORKING OF INTERMEDIATE BLOCK POST



IB SIGNAL DEFECTIVE:

AFTER DESPATCHING TRAIN :

If the signal post telephone is out of order -

- a) Then loco pilot contact SM of advance station with SPT provided on the IB signal of adjacent line.
- a) If block section is free and line clear has been already granted, SM shall authorize the Loco Pilot to pass IB signal at 'ON' by Giving P.No which was given to SM of rear station.
- a) LP shall record this P.No in the LP's memo book.
- a) Pass the IB signal at ON and proceed with normal speed.
(Whistle code:  — )

WORKING OF INTERMEDIATE BLOCK POST



IB SIGNAL DEFECTIVE:

AFTER DESPATCHING TRAIN :

If both telephones are out of order -

- a) **Wait for 5 minutes, still signal is at ON, exchange signals with Guard. (Whistle code: ———)**
- a) **Proceed with a restricted speed of 15 kmph when view is clear and 8 kmph when view is not clear up to the FSS of next station even if that signals and intervening signals if any display off aspect.**
- a) **LP shall continue to look for any obstruction short of the FSS.**
- a) **The Loco Pilot must report the failure to the SM of the next block station.**

WORKING OF INTERMEDIATE BLOCK POST



**THANK
YOU!**

