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EAST COAST RAILWAY
SAMBALPUR DIVISION

Sl. No. SWR/KMK/41

STATION WORKING RULES OF KOMAKHAN STATION (CODE: KMK)

BG/MG/NG- : BROAD GAUGE
Date of issue : 20.12.2011.
Date brought into force:

NOTE: - The Station Working Rule (SWR) must be read in conjunction with General and Subsidiary Rules and Block Working Manual. These rules do not in any way supersede any rule in the above books.

1. STATION WORKING RULE: -

1.1 **STATION WORKING RULE DIAGRAM NO.** SI-VSKP /20, ALT-'A'

1.2 **SIGNAL INTERLOCKING PLAN NO**: - SI -VSKP /20, ALT-'F'

The Station Working Rule diagram and Signal Interlocking Plan shows the complete lay out of the yard, siding, normal position of points, the Signalling and Interlocking arrangements, Gradients and Level Crossings within the station limits. This must be referred to for giving details of the point numbers and signals when reporting accidents.

2. DESCRIPTION OF STATION: **-**
KOMAKHAN (KMK) is a three-line station situated in Titlagarh – Raipur single line section at KM. 94.657 from Raipur. It is Standard – III interlocked, 'B' Class station with end cabins.

2.1 GENERAL LOCATION: -

2.1.1 **NAME OF STATION**: - KOMAKHAN (KMK)

2.1.2 **CLASSIFICATION OF STATION: -** 'B' class

2.1.3 **NAME OF THE SECTION: -** Titilagarh-Raipur, BG Single Line, Non-RE section

2.1.4 **ROUTE: -** **'**D' Spl.

2.1.5 **LOCATION: -** KM 94.657 from Raipur.

2.1.6 **NO OF CABINS: -** 2 Nos (East Cabin & West Cabin)

2.2 BLOCK STATIONS, IBH, IBS ON EITHER SIDE AND THEIR DISTANCE AND OUTLYING SIDINGS: -

i) Titlagarh end – KHARIAR ROAD (Code: KRAR) inter distance 10.429 K.M.
ii) Raipur end - BAGBAHARA (Code: BGBR) inter distance 10.163 K.M.
iii) Passenger halt : - Nil
iv) Flag station : - Nil
v) Outlying siding : - Nil
vi) D.K. station : - Nil.
vii) IBH : - Nil
viii) IBS : - Nil

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2.3 BLOCK SECTION LIMITS: -

Sl. No	Between Stations	The point from which "Block Section" commences	The point at which "Block Section" ends
1.	KMK-KRAR	UP Advanced starter signal No. 8 of KMK	DN Advanced starter signal of KRAR
2.	KMK-BGBR	DN Advanced starter signal No.8 of KMK	UP Advanced starter signal of BGBR

2.3.1 **STATION SECTION:** The portion between UP and DN Advanced Starters is the station section.

2.3.2 **STATION LIMIT:** The portion between UP and DN Outer signals is the station limit of this station.

2.4: GRADIENTS: -

i) Station section towards Titlagarh end.

From	To	Inter distance	Gradient
CSB	457.20 M.	457.20 M.	1 in 1000 F
457.20 M.	544.26 M.	87.06 M.	1 in 1000 F
544.26 M.	692.16 M.	147.90 m	1 in 100 F
692.16 M.	1005.84 M	313.68 m	1 in 150 F
1005.84 M	Block section	------	Level

ii) Station section towards Raipur end.

From	To	Inter distance	Gradient
CSB	82.4 M	82.4 M	1 in 1000 R
82.4 M	122.4 M.	40 M.	1 in 400 R
122.4 M.	1066.30 M.	943.90 M.	1 in 1000 F
1066.30 M.	Block Section	---	1 in 250 R

2.5 LAY OUT: -

i) No. of Running lines: - 3 (Three)

ii) No. of Sidings: - 1(One), Goods siding taking off from Line No.3

iii) No. of Passenger Platform: - 2 (Two) [Low Level Island Platform, 375 M]

iv) No. of Goods Platform: - 1 (One), 120 m Long.

v) FOB:- 1 (One) at CH 40.0M from CSB.

2.5.1 **RUNNING LINES, DIRECTION OF MOVEMENTS AND HOLDING CAPACITY IN CSL:-**

(i)

Sl.No	Line No.	Description	CSL	Isolation provided	
				BGBR end	KRAR end
1.	Line No.1	1st Loop	700.00 M	DS	Sand Hump
2.	Line No.2	Main line	712.00 M	-	-
3.	Line No.3	2nd Loop	701.00 M	ORL	DS

(II) **DIRECTION OF MOVEMENTS: -**

Trains arriving from BGBR end are UP trains.
Trains arriving from KRAR end are DN trains.

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2.5.2) i) **NON-RUNNING LINES AND CSL:-**

Srl No	Description	CSL	Takes off from line No.	Exit	Operation
1.	Goods loop	300 M (BJ-BJ)	2nd Loop	Both way	Key extracted from lever No. 9 of East Cabin for entry at KRAR end & lever No.10 of West Cabin for entry at BGBR end.

2.5.3 **ANY SPECIAL FEATURES IN THE LAYOUT: -** NIL

2.6. i) **LEVEL CROSSINGS** :- (**STATION SECTION**): -

Sl. No.	Location	Km.	Normal position	Class	Type	Operation	Communication
1.	DN Home signal and DN outermost facing point No.13	95.172 (RV-53)	Open to road traffic	C	Inter locked	Winch Operation from cabin	Telephone connection between station and East cabin.

ii) **LEVEL CROSSING: - (IN BLOCK SECTION):**

Sl. No	Location Between	Km	Normal position	Class	Type	Operation	Communication
1	KMK -KRAR	103/9-10 (RV-71)	Open to road traffic	B-I	Interlocked	Winch Operated Lifting barrier	Telephone connection with SM Office /KRAR .
2.	KMK -BGBR	85/10-11 (RV-54)	Open to road traffic	C	Non-Interlocked	Winch Operated Lifting barrier	Telephone connection with SM Office/BGBR.
3.	KMK -BGBR	93/10 (RV-62)	-	C, Un manned	-	-	-
4.	KMK -BGBR	92/11 (RV-61)	Closed to road traffic	C	Non-Interlocked	Winch Operated Lifting barrier	Telephone connection with SM Office/KMK.
5.	KMK -KRAR	99/4-5 (RV-67)	Closed to road traffic	C	Non-Interlocked	Winch Operated Lifting barrier	Telephone connection with SM Office/KMK.

Train Actuated Warning Device has not been provided at above Level Crossing Gates.
(Working of level crossing Gate is detailed in Appendix-'A'.)

3. SYSTEM AND MEANS OF WORKING: -

(Rule No., Chapter - xiv of GR & SR, Chapter - IV of BWM)
Absolute Block System GR 8.01 (1) (a & c), 8.01(2) (a) 8.03 (2).

i) **System of working**: - Absolute block working on single line.
ii) **Type of block instruments**: - Token-less block instruments connected with adjacent stations.
iii) **Instrument**: - Non-cooperative.
iv) **Block Telephone:** - Provided with block instrument of KMK-KRAR & KMK-BGBR sections.
iv) **Staff responsible for their operation**: - SM on duty.
v) **Custodian of keys**: - SM on duty.

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4. SYSTEM OF SIGNALLING AND INTERLOCKING: -

4.1 STANDARD OF INTERLOCKING AND TYPE OF SIGNALLING:

i) **Interlocking**: -
The station is provided with Standard-III interlocking. All the points and signals are operated from end cabins. Advanced Starter signals are interlocked with respective Tokenless Block Instruments.

ii) **SM's Control**: -
A slide control machine with 12 Nos. of slides is provided in station master's office to control UP and DN Home signals, Warner signals and last stop signals. The slide control machine is provided with SMs lock up key, which shall be in the personal custody of the SM on duty. The slide control machine can be locked with either all the slides in normal position or one or more slides in operated position. But in emergency SM on duty can put back the slide to normal without unlocking the slide control machine vide SR 3.36.03 (a).

iii) **Type of Signalling**: -
Two Aspect Lower Quadrant Semaphore signals with end cabin operation.

iv) **Maximum equipment of Signal**: -
Outer, Home, Starter, Adv. Starter and Warner below outer in either direction.

4.1.1 **TRACK CIRCUIT–**
The station is provided with track circuits on Main line between UP & DN Main line starters i.e. MLT1 & MLT2 in advance of UP & DN main line starters i.e. 5 T (W & E) at either end on main line. Track circuits are provided on each loop line i.e.L1T1 & L1T2 on loop line No-1 & L2T1,L2T2 & L2T3 on loop line No-2. Track circuits are also provided from last trailing point to Advanced Starter on both side of the yard i.e. 8T, 8AT, 14T, 14T1(East end) and 8T, 8AT , 15T1 & 15T (West end) of the yard. Starter signals and Advanced Starter signals of both ends are replaced to 'ON' through the respective track circuits on both sides of the yard. 5T, 14T on west side and 5T,6T on East side are point zone Track circuits. Starter signals, Advanced starter signals & Outer signals at both ends are replaced to "ON" through the respective track circuits on both sides

4.1.2 **POSITION AND OPERATION OF POINTS:** -
All points, Lock Bars & Signals are operated through levers from end cabins.

4.1.3 **IBS**:- :- NIL

4.1.4 **POINT & TRAP INDICATOR** : - NIL

4.1.5 **REPEATER (Banner Type)** :- NIL

4.1.6 **CALLING ON SIGNALS** :- NIL

4.1.7 **SHUNT SIGNALS** **:-** NIL

4.1.8 **ANTI COLLISION DEVICE: -** NIL

NOTE: Details of signalling and interlocking are given in Appendix 'B' of the SWR.

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4.2 **CUSTODY OF CABIN BASEMENT KEY AND PROCEDURE FOR ITS HANDING OVER AND TAKING OVER BETWEEN STATION MASTER AND S&T MAINTENANCE STAFF: -**

The cabin basement room should be kept locked with two separate locks; the arrangement should be such that one is kept with the on duty stationmaster and the other key with signal maintainer. Whenever required, the key in the custody of Station Master shall be handed over to the maintainer with proper acknowledgement in the basement room register. The maintainer on receipt of key from the stationmaster may use the same and the key in his custody to open the basement room by inserting the keys one after another separately in to the earmarked locks. After completion of work, the basement room is to be locked using both the keys separately & the designated key should be handed over to the stationmaster. The details of the transaction should be properly recorded in the basement room key register at the Station duly signed by SM on duty and the signal staff concerned according to SR 3.51.05.

4.3 **POWER SUPPLY: -**

Normally for signalling and interlocking installation, power supply is drawn from State Electricity Board (230V, 50Hz). The electro – mechanical signal installations at this station work with banks of primary / secondary cells installed at several places.

The secondary cells are charged from the local power supply source at 230 V – single phase. The batteries once charged will normally last for about three days. There is no standby power supply at this station.

The Station Master must however, maintain the record of the power failures and must promptly report the failure immediately to the controller and to the concerned Elect and S & T staff.

5.0 **TELECOMMUNICATION FACILITIES: -**

i) Telephone attached with single line token less Block Instrument for either side Block Section.

ii) Station to Station fixed telephone (hot line) is provided

iii) Station is provided with Auto telephone connected with Railway Exchange

iv) BSNL telephone is provided.

v) The station is connected to Raipur-Titlagarh control circuit by a control telephone.

vi) Station to station 25 Watt VHF communication is provided.

vii) Magneto Telephone connection is provided with Station & both end Cabins.

viii) Magneto Telephone connection is provided with Station & Engg. L.C.Gates at KM 91/2.

Note: (i) For obtaining line clear, VHF should be used as a last alternative and not as a sole means of communication.

(ii) VHF and Walkie Talkie sets should not be used for unnecessary discussions with Drivers, Guards or any other staff.

(iii) The on duty SM shall use the above electrical communication instruments stated in Para-5.0 from item No. (i) to (vi) strictly in order of preference for obtaining / granting line clear vide SR 14.01.01. In case of failure of any of the above means of communication the SM on duty shall work vide SR 6.02.06

(*For details refer Appendix 'B')*

6.0 **SYSTEM OF TRAIN WORKING: -**

The movement of trains is controlled by Section Controller on duty whose orders shall be complied with, provided they do not contravene any General Rules, Subsidiary Rules, Station Working Rules, Block Working Manual and other safe working instructions issued from time to time. In the event of suspension of control working, the Station Master on duty shall work independently in conjunction with the Station Master of adjoining block stations and shall be responsible to ensure that there is no undue delay to train operation in general.

6.1 **DUTIES OF TRAIN WORKING STAFF:** -

Details of duties of operating staff are mentioned in Appendix 'D' of the SWR.

6.1.1 **TRAIN WORKING STAFF IN EACH SHIFT: -**

The following are the complement of train working and operating staff provided at this station to work in each shift.

SL. No.	Designation	Roster	No. of staff in each shift	Hrs. of Duty
1.	SS (In-charge)----- Dy. SS/SM/ASM----	Continuous	01	---09 hrs. ---08 hrs.
2.	CLM /LM 'A'/ TPM 'A'	Continuous	01	08 hrs
3.	Sr. TP/TPM-A/TPM-B	Continuous	01	08 hrs.

The above staff shall work as per the rosters issued by DPO/SBP from time to time and these rosters shall be displayed in the SM office.

6.1.2 **RESPONSIBILITY OF ASCERTAINING CLEARANCE OF THE LINE AND ZONE OF RESPONSIBILITY: -**

	Staff Responsible	Clearance of Zone
a)	SM on duty	Between outermost fouling mark of concerned nominated line.
b)	Cabin Man	Between the fouling mark and Advanced Starter / home signal as the case may be at the respective end.

(The PN Book should be under the personal custody of on duty train passing staff.)

c) Occupation/clearance of track circuit from Fouling Mark to Fouling Mark on Main line and loop lines can be ascertained by indications provided in Station Masters' room. In case failure of the said track circuit, SM on duty is responsible to ascertain clearance of the said line and point Zones by physical verification.

6.1.3 **ASSURANCE OF STAFF IN ASSURANCE REGISTER: -**

All staff before taking up independent charge of their duties at this station, shall make a written declaration in the assurance register that they have read and thoroughly understood the working system in force and must sign in Assurance Register.

No Railway servant shall be entrusted with any duty involving safety of the public unless the station in-charge is satisfied that the concerned staff is competent for the post. No Railway servant unless duly examined and certified shall be allowed to work the points and signals.

The SS is responsible to see that all the staff are conversant with the Station Working Rules and their signature obtained in the Assurance register in Form 'A' after he is satisfied that they have thoroughly understood the working rules of the station. In case of Group 'D' staff, their signature/thumb impression in Form 'B' must be obtained after explaining fully about their duties and responsibilities.

The Station superintendent is responsible personally for maintaining the Assurance Register and for obtaining declaration of the staff working under him. The Assurance Register must be maintained in two parts, one for Group 'C' and the other for Group 'D' staff. A duplicate copy of the Assurance Register must be maintained and kept in personal custody of the Station Superintendent.

The declaration shall be renewed in the following cases: -

(i) Whenever there is a change in the Station Working Rules.
(ii) For any staff who have not worked at the station or were away from the station for a period of 15 days or more.

6.2 (a) **CONDITIONS FOR GRANTING LINE CLEAR: -**

The conditions laid down in GR 8.01 (1) (a) & (c), 8.01 (2) (a), 8.03 (2) (a) (b) (c) (I), BWM 2.07 (3) & (4) shall be complied with by the SM on duty before granting line clear. He shall ensure: -

i) The whole of the last preceding train has arrived complete.
ii) All necessary signals are put back to 'ON' behind the said train.
iii) Block section is clear of trains running in the direction towards the block station to which such line clear is being given.
iv) The line is clear up to the advanced starter at the end of the station nearest to expected train. (Up advanced starter signal No. 8 for a DN train and DN advanced starter signal No. 8 for an UP train).

(b) **OUTLYING SIDING**: - **Nil.**

6.2.1 **ANY SPECIAL CONDITION TO BE OBSERVED WHILE RECEIVING OR DESPATCHING A TRAIN: -** Nil

6.2.1.1 **SETTING OF POINTS AGAINST BLOCKED LINE:-**

All Points shall normally be set for the straight except when otherwise authorized by special instruction. When a running line is blocked by stabled load/wagon/vehicle or by a train which is to cross or give precedence to another train or immediately after arrival of a train at the station, the points at either end should immediately be set against the blocked line except when shunting or for any other movement towards the blocked line is required to be done vide 3.51.06(a). If all the lines at the station happen to be blocked then SR.3.51.06 (b) will be followed. During crossing of passenger and goods trains, the rules laid down in SR 3.47.01, 3.47.02 & 3.51.06 shall be followed.

6.2.1.2 **RECEPTION OF TRAIN ON BLOCKED LINE:** - In case reception of a train on an obstructed line, the SMs shall follow GR 5.09 & SR 5.09.01.

6.2.1.3 **RECEPTION OF TRAIN ON NON-SIGNAL LINE**: - In case reception of a train on a non-signal line, the SMs shall follow GR 5.10 & SR thereto.

6.2.1.4 **DESPATCH OF TRAINS ON NON-SIGNALLED LINE**: - In case despatch of a train on a non-signal line, the SMs shall follow GR 5.11 & SR thereto.

6.2.1.5 **DESPATCH OF TRAINS FROM LINE PROVIDED WITH COMMON STARTER SIGNAL:-** N/A

6.2.1.6 **SPECIAL RESTRICTIONS** -

i) Shunting in the face of an approaching train is prohibited
ii) Hand shunting & Fly shunting is prohibited at both ends of the yard.
iii) The ORL/SH must not be used for stabling of vehicles or harbouring an Engine with or without vehicles.
iv) Shunting shall not be permitted at KRAR end of the yard unless the engine is leading towards the falling gradient.
v) Material train shall not be allowed to be pushed into block section KMK - KRAR.

6.3 **CONDITIONS FOR TAKING 'OFF' APPROACH SIGNALS** : -
(*Rule No. GR 3.40 & SRs, SR 3.38.01, 3.38.03 to be followed*).

At this station approach signals cannot be taken 'OFF' unless: -

i) The nominated line is clear of all obstructions for an adequate distance beyond starter upto the end of sand hump / Over-run line/Advanced Starter as the case may be.
ii) To take off the Home signal for admission of a train ,the adequate distance (signal overlap) as mentioned below shall be kept clear vide GR 3.40 (1) (b): -

Sl. No	Line No.	UP Train		DN Train	
		From	To	From	To
1.	Line No.1	Up Starter No.6	End of Sand Hump or UP Adv. Starter No.8	DN Starter No.6	DN Adv. Starter signal No. 8
2.	Line No.2	Up Starter No.5	Up Adv. Starter No.8	Dn Starter No. 5	DN Adv .Starter Signal No 8
3.	Line No.3	Up Starter Signal No.7	UP Adv. Starter No.8	Dn Starter Signal No.7	DN Adv. Starter Signal No. 8 / End of ORL.

6.3.1 **RESPONSIBILITY OF SM FOR RESTORATION OF SIGNALS TO ON: -**
For replacing signals to on, the SM on duty shall follow Rule No. SR 3.36.02.

6.4 SIMULTANEOUS RECEPTION, DESPATCH, CROSSING & PRECEDENCE OF TRAINS:
(I) According to the existing interlocking at this station, the simultaneous reception and despatch of trains are permitted as stipulated below (GR 3.47):

Reception of a DN train on Line No.3 by setting Over run line	AND	Reception of an UP train on line No.1 by setting line to Sand Hump or despatch of another DN train from Main line or Line No.1.
Reception of an UP train on line No.1 by setting Sand Hump.	AND	Reception of a DN train on line No.3 by setting line to ORL or despatch of another UP train from line No.2 or 3.

(II) Setting of points during crossing of trains shall be done as per relevant provisions in SR 3.47.01 & 3.51.06.

6.5 **COMPLETE ARRIVAL OF TRAINS :** - (*Rule No. GR 4.16 & SR 4.17.01 GR 14.10*)

a) i)	*Staff responsible to verify complete arrival*	-	For stopping train Cabin Man at the facing end is responsible.
ii)	*Mode of verification*	-	The facing end Cabin Man shall see that the train arrived complete within fouling mark at the facing end with tail lamp / tail board / last vehicle indicator.

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Cabin Man of facing end cabin concerned will give intact private number to SM on duty as a token of complete arrival after physical verification of last vehicle indicator and setting route against the occupied line.

b) For through passing trains, both SM on duty and the Cabin Man shall see that the last vehicle of every train passing through the station is provided with a tail board or tail lamp or such other device in accordance with the provisions of rule GR. 4.16.

c) For through passing trains, both SM on duty and the Cabin Man shall see that the last vehicle of every train passing through the station is provided with a tail board or tail lamp or such other device in accordance with the provisions of rule GR. 4.16.

d) In case of trains arriving with last vehicle number, the last vehicle number shall be repeated vide BWM 2.07 (6)(b).

6.6 **DESPATCH OF TRAINS:** -

Despatch of trains is governed by GR 3.36 to 3.39, 3.42, 3.43, 5.11, 8.01(a), SRs 3.36.01,3.36.02(b), 3.36.03,3.36.04(b), 3.42.01(b), 3.42.02(a)(i), 3.42.04, 5.11.01 and BWM 2.07(5) (b) (e) (f) & (g) and other provisions of GR & SR, BWM, Operating Manual and SWR.

6.7 **TRAINS RUNNING THROUGH** : -

a) In addition to the rules laid down for reception and despatch of trains, the rules laid down in GR 4.17, 4.42 with relevant SRs thereto and SRs 3.36.04 (b)(i), 3.42.02 (a) (i) shall be followed.

b) In every case in which trains are permitted to run through on a non-isolated line, all shunting shall be stopped and no vehicle un-attached to an engine or not properly secured in accordance with GR 5.23 may be kept standing on a connected line which is not isolated from the through line as per GR 4.11(2).

For through passing train on Main line the concerned Warner signal shall be taken off. For all through passing trains, SM on duty shall exchange all right signal with driver and guard of the train and observe the last vehicle indicator of the train as well as look out for any dangerous conditions on the train. For this purpose, he shall depute a station TP/TPM at the other side of the station to exchange all right signal**.**

6.8 WORKING IN CASE OF FAILURE: -

In case of failure of S&T equipments, the on duty SM shall work in accordance with GR 3.68, 3.69, 3.70 and SR thereto.

6.8.1 PROCEDURE TO BE FOLLOWED IN CASE OF FAILURE OF A SIGNAL & INTERLOCKING INSTALLATIONS: -

Whenever there is a failure of points, signals, track circuits or any other interlocking gear at the station that includes level crossing gate (s) if any etc., the SM on duty shall follow the procedure detailed in GR 3.68, 3.72, 3.74 and SRs thereto. In case of defective approach signals, the trains will be piloted in vide SR 3.69.02, 3.69.03 & 3.69.05. In case of defective departure signals, trains will be piloted out vide GR 3.70 & SR 3.70.01. & 3.70.02.

6.8.2 **TRACK CIRCUIT**

In the event of failure of track circuit in the yard concerned signal shall be suspended and trains shall be piloting ‘IN’ or ‘OUT’. Before piloting a train in to the yard the clearance of the track must be ensured by physical verification

6.8.3 **AXLE COUNTER-** Not Applicable.

6.8.4 **DEFECTIVE SIGNALS:**

When signals become defective, the procedure laid down in GR & SR shall be followed. A signal in the OFF position is the final indication that the points are correctly set for the route for which it applies. If it is found impossible to take OFF a signal, the setting of points on the route to which it applies shall be inspected by the Station Master on duty before the signal is declared as defective irrespective of what is indicated by the position of the route, [Refer GR 3.68 to 3.46, 3.52 to 3.56, 3.71, 3.80 and SR 3.68.01 (c)].

If the semaphore motor operated signal getting stuck up in "off" position, it should be treated as defective and SM shall follow the procedure vide SR 3.68.02 and 3.68.04.

In case of disconnection of signal and interlocking for repair and maintenance, procedure laid down in GR and relevant SRs shall be followed.

In the event of signal showing no lights, Station Master on duty shall before giving line clear, initiate action in accordance with the procedure prescribed in GR and the relevant SRs. [Refer GR 3.51, 3.69, 3.49 (4), 3.68 to 3.77]

6.8.5 **BLOCK INSTRUMENT**

In the event of partial / total failure of token less Block instrument the concerned block instrument shall be suspended till its rectification, trains shall be worked as per GR 14.01, 14.08 & SRs there to and SR 6.02.06 & BMW Rule No. 4.04, 4.02 & 4.43.

Both UP and DN advanced starters are electrically interlocked with respective Tokenless block instruments so that the same cannot be taken off unless the concerned block instrument is in line clear position (TGT). When the block instrument is suspended in 'Line Clear' position, the concerned advanced starter must also be treated as suspended. When the block instrument is under suspension, the authority to proceed will be paper line clear ticket.

UP and DN Home signals are electrically interlocked with respective block instruments. Block instrument can be normalized from 'TRAIN ON LINE' to LINE CLOSED' position, when the corresponding home signals are in the ON position. However, the Home signals can be taken off in case of failure of the block instruments.

6.8.6 **DEFFECTIVE INTERLOCKING**

In the event of interlocking becoming defective, the points will be treated as defective. The SM on duty on receipt of this information will immediately introduce non-interlocking system of working at the station. Trains will be Piloted In or Out as the case may be. The SM on duty shall be responsible for correct setting, clamping and padlocking of points for admission of train.

6.8.7 **DEFFECTIVE/DAMAGED POINTS**

When any point fails to operate normally by the route setting operation through panel it is inevitable to operate the points with crank handle. The SM on duty shall personally ensure clamping and padlocking of all facing and trailing points on the route. Crank handles are interlocked with signals and interlocking system. When points become defective, the signals controlling these points shall be considered defective and vice-versa and the procedure for use of crank handle for motor operated points shall be followed as per operating manual para-20.06. The responsibility of correct setting of points, clamping and padlocking the points for reception and despatch of trains at the station, rests with SM on duty himself.

6.8.8 **RECEPTION OF A TRAIN ON BLOCKED LINE**

Whenever trains are to be admitted on an obstructed line the SM on duty shall authorize the on duty TPM with form T/509 indicating the reason for such admission the line number and the nature of obstruction on that line.

Before handing over the authority the SM on duty shall ensure the correct setting clamping and padlocking of both facing and trailing end of the concerned route vide SR 3.69.03.

A stop hand signal shall be exhibited by the SM on duty at a distance of not less 45mts. from the point of obstruction to indicate to the Driver as to where the train shall be brought to a stand.

6.8.9 **INSPECTION OF POINTS BEFORE DECLARING THEM DEFECTIVE**:

However, before declaring a signal is defective, the setting of the point on the route to which it applies shall be inspected by the Station Superintendent/Station Master irrespective of the position of the switches point laid down in GR with relevant SRs shall be followed. [Refer GR 3.68, 3.70 & SR 3.77.01(b)]. Initiate action in accordance with the procedure prescribed in GR and relevant Subsidiary Rules there to. [Refer GR 3.49(4) and 3.68, 3.77]

6.8.10. **ISSUE OF CAUTION ORDER: -**

Whenever in consequence of the line being under repair or for any other reason special precautions are necessary, a caution order detailing the kilometers and speed at which a train shall travel and the reasons for taking such precautions shall be handed over to the driver in terms of GR 4.09 and SR thereto.

6.9 **WORKING OF MOTOR TROLLEY, MATERIAL LORRIES ETC: -**

(a) Motor Trolleys are run in accordance with Subsidiary Rules 15.25.03 to 15.25.07.

(b) Material Trolleys will work in accordance with Subsidiary Rules 15.27.05 to 15.27.08

(c) Rail Dolleys will work in accordance with Subsidiary Rules 15.27.10.

The following precaution must be taken:

In all other respects, the working of a light Motor trolley shall conform to the rules laid down for ordinary trolleys while running without block protection and to those laid down for motor trolleys while running under block protection or following another light motor trolley or a motor trolley.

7.0 **BLOCKING OF LINES : -** Whenever a running line is blocked either by loose vehicles or by stabling train or by a train which is to cross or give precedence to another train, the points at either end should immediately be set against the blocked line except during shunting movement and slide collars must be placed on the slides concerned of the SM's electric slide frame for a line on which a train, an engine or vehicle is standing or if the line is otherwise obstructed vide SR 3.36.03(b). Whenever a running line is blocked, a clear remark in 'RED' ink shall be made immediately in Train Signal register indicating time and number of running line and a record shall be made in the Station Master's diary vide SR 5.23.01 (a) (c) & (d). Stable load register is also to be maintained. The stable loads/ vehicles are to be secured as per General Rules 5.23 and Subsidiary Rules 5.23.01 to prevent rolling down of vehicles.

7.1 **USE OF SLIDE / LEVER COLLARS**: - Slide collars and lever collars must be placed on the concerned SM's slides and levers in the cabin respectively controlling the blocked line vide SR 3.36.03 and 5.04.01 (a). Points of the blocked line shall be set against vide Rule no. SR 3.51.06.

7.2 **SECURING OF VEHICLES: -** As far as practicable loose vehicles shall not be allowed to stand on the running line. However, under unavoidable circumstances, if it is necessary to detach vehicles from a train or to stable a train and leave them standing on running line, SM on duty shall be responsible to secure vehicles/stable loads in accordance with GR 5.23 and SR 5.23.01 to prevent rolling down of vehicles and arrest obstruction of fouling.

NOTE: Special care shall be taken to secure special type vehicles fitted with roller bearings while standing in siding or on running lines A stabled load register to be maintained shift wise as per FORMAT given in Operating Manual.

7.3 ALTERING OF POINTS TO A CLEAR LINE WHEN RUNNING LINE IS BLOCKED:-

a) When a running line is blocked by stable load e.g., wagons, vehicles or by a train which is to cross or give precedence to another train or immediately after arrival of a train at the station etc. the points should immediately be set against the blocked line except when shunting or another movement is required to be performed in that direction on the same line.

b) If all the lines at a station happens to be blocked when line clear has been granted to a train, the points should be set for the line occupied by a stable load or a goods train in that order so that in case of a mishap, the chances of casualties are minimized.

c) In case all the lines are occupied by passenger carrying trains, points should be set for a loop line, to negotiate which the speed of the incoming train would be reduced, which in turn would minimize the consequences of casualties. While doing so, points shall be set for a loop, occupied by a train if any, whose engine is facing the direction of approach of the incoming train rather than a loop line , occupied by a train whose passenger coach will receive the impact in case of a collision.

7.4 **LOADING AND UNLOADING OF VEHICLES ON RUNNING LINE**:-

Loading and unloading from vehicles on running line is prohibited unless permitted by Sr. DOM / SBP vide SR 5.19.01. At stations where loading and unloading of goods is permitted whether full rake or part thereof, the station master shall ensure that no goods are left fouling any line before and after clearance of the rake from the line. The railway servant supervising loading and unloading shall also ensure that consignment does not foul any line vide SR 5.19.001: (a).

If the stations are on gradients, the rake should be properly secured as detailed in SR 5.23.01.

During the time of loading / unloading, the station master shall ensure isolation of the lines(s) as detailed in SR 3.51.06.

8.0 **SHUNTING: -**

8.1 **GENERAL PRECAUTIONS :-** Shunting shall be performed in terms of General Rules 3.46, 3.52 to 3.56, 5.13, 5.14, 5.16, 5.17, 5.19, 5.20 to 5.23, 8.09, 8.10, 8.13, 8.14, 8.15 and Subsidiary Rules thereto. The Guard/Asst. Guard/SS/SM/TPM on duty is authorized to supervise shunting operation. The authority for shunting is a shunting order (T-806) to be issued by the SS/SM on duty, which shall be withdrawn after completion of shunting, or in need when train movement is involved to receive/despatch trains on the adjacent line. The same shall be cancelled and pasted to its record foil. The staff supervising shunting shall ensure correct setting of points, clamping and pad locking of points.

8.2 **SHUNTING IN THE FACE OF APPROACHING TRAIN: -**

Shunting in the face of approaching train is prohibited

8.3 PROHIBITION OF SHUNTING, SPECIAL FEATURES IF ANY: -

Hand Fly & Loose shunting is not permitted at both end of the yard.

8.4 SHUNTING ON SINGLE LINE:-

SHUNTING ZONE	BLOCK SECTION IS CLEAR	BLOCK SECTION IS OCCUPIED
Shunting within Station section	Permitted.	Permitted provided the provisions of GR 8.09 are complied with.
Between Last Stop Signal and opposite First Stop Signal	Permitted vide GR 8.11 (a).	Permitted provided the provisions of GR 8.11 (b) are complied with.
Beyond opposite First Stop Signal	The concerned section shall be blocked back vide GR 8.13	Not permitted in face of an approaching train

DURING FAILURE OF BLOCK INSTRUMENT ON SINGLE LINE :-
The SM on duty shall ensure that there is no train in the block section and the last train has arrived complete clearing the fouling mark while conducting shunting at that end of the block section of which block instrument has been suspended and all necessary precautions have been taken as per rules laid down in GR.

8.5 **SHUNTING ON DOUBLE LINE:-N /A**

8.6 **SHUNTING IN THE SIDING TAKING OFF FROM STATION YARD/GOODS YARD : -**
When shunting in the station yard proper shunting authority on T/806 to be issued to the train staff with clear instruction and limit up to which shunting is to be performed. While performing shunting, relevant GR 5.14 and SRs thereto to be followed.

9.0 ABNORMAL CONDITIONS: -

(A) THE RULES TO BE OBSERVED IN THE EVENT OF ABNORMAL CONDITION: -

[I] **PARTIAL FAILURE OF COMMUNICATION: -**
In the event of suspension of single line Block Instrument and during partial failure of other available means of communications, trains will be worked in terms of Subsidiary Rule 6.02.06 and Chapter-III Part–I of Block Working Manual.

[II] **THE AUTHORITY TO PROCEED IN THE OCCUPIED BLOCK SECTION IN CASE OF OBSTRUCTION OF LINE OR ACCIDENT ETC: -**

In case, it is necessary to allow a train into an obstructed block section due to engine failure, obstruction or accident, a Block ticket shall be issued in terms of SR 6.02.05 Absolute Block System on the affected block section shall be suspended and concurrence of the SS/SM at other end shall be obtained and recorded in caution order register and train signal register.

On the block ticket (T/A 602), it shall be mentioned in detail the place of obstruction i.e. Engine Km., B/Van Km., whether the train is to return or to wait at the place of obstruction for the arrival and return of another following train(s) or to proceed to the next station.

A caution order shall be issued restricting the speed to 15 KMPH. in day light hours when the visibility is good and 10 KMPH at night or whenever clear view for 800 Mtrs. is not available. On arrival at the station the block ticket shall be collected with necessary endorsement from Driver/Guard and cancelled and pasted to its record foil if the block ticket is issued from the same station or shall be sent to the issuing station for cancellation and record.

In case of accident/engineering block, an assurance from SE (P.WAY) concerned shall be obtained that the line is safe for movement of trains before resumption of normal working. When the obstruction is removed and an assurance in writing is obtained from SE (P.WAY) concerned or Guard/Driver, the SM on duty may resume normal working after exchanging proper messages supported by Private Number.

[III] **TRAINS DELAYED IN BLOCK SECTION:** -
In case of trains delayed in the block section, the station master shall take action as per GR 6.04 and SRs thereto.

[IV] **FAILURE/PASSING OF INTERMEDIATE BLOCK STOPS SIGNAL AT ON: - NA**

[V] **FAILURE OF AXLE COUNTERS BLOCK / BPAC: - NA**

[VI] **FAILURE OF MTRC: - N/A**

(B) PROCEDURE FOR EMERGENCY OPERATION OF POINTS BY CRANK HANDLE: - NA

(C) CERTIFICATION OF CLEARANCE OF TRACK BEFORE CALLING-ON SIGNAL OPERATION IS INITIATED: - NA

(D) REPORTING FAILURE OF POINTS, TRACK CIRCUIT/AXLE COUNTER AND INTERLOCKING: -
In case of failure of any interlocking gear at the station, the failure report should be communicated by the SM on duty to the signal Maintainer, the JE/SE/SSE (SIG) of the Section and others through a memo as per SR 3.68.04 and the SM shall document all such transactions.

9.1 TOTAL FAILURE OF COMMUNICATION: -

In the event of total interruption of communication occurring between KMK-BGBR or KMK-KRAR stations, i.e when line clear cannot be obtained by one of the following means stated in order of preference viz

a. Block Instruments, Track Circuits or Axle Counters
b. Telephone attached to the Block Instruments
c. Station to Station fixed telephone (Hot Line).
d. Fixed telephone such as Railway auto telephone & BSNL phone
e. Control telephone
f. VHF sets

and actions shall be taken as per SR 6.02.04. The train which is to be despatched to the affected section will be stopped and the Driver & Guard of the train shall be informed about the fact.

Before dispatching the light engine /main engine/motor trolley /Tower wagon/Trolley /Cycle trolley/Moped trolley/Diesel car/rail motor car/EMU rake, the SM on duty shall hand over a Authority for opening of communication during total interruption of communication on Single Line Section to the driver /motorman/Guard/SM who is being sent to open communication, which includes.

(i) An authority to proceed without “Line Clear” in the prescribed form (T/B 602).
(ii) A Caution Order restricting to speed of the train to 15 Kmph by day when the view ahead is clear and 10 Kmph during night or when view ahead is obstructed in addition to other speed restrictions in force (T/409).
(iii) Paper Line Clear Ticket to pass the Last Stop Signal at ‘ON’ position.
(iv) A “Line Clear” enquiry message (T/E602) asking “Line Clear” for the awaiting train.
(v) A conditional “Line Clear” message for the light engine to return with or without a train attached, supported by a Private Number (T/F602).

On arrival of the engine at the next station the conditional line clear message and enquiry message shall be collected by the SM on duty who shall prepare a conditional line clear ticket (T/G602 (UP) or T/H602 (DN) for engine to return either light or with train attached and conditional line clear reply message for the enquiry message giving line clear for the train waiting at other station shall be handed over to the Driver of light engine. On return trip the Driver will come on booked speed subject to speed and other restrictions in force.

If there be an even flow of trains in both directions, Enquiry and Conditional line clear message for each succeeding train may be sent through the Guard of the preceding train. If the Station Master at one end has more than one train to despatch in the same direction he may ask line clear not only for one train but also for the following trains. It must be stated that these later trains will be despatched after the first train at an interval of 30 minutes.

When despatching the second and subsequent train, particulars of last preceding train along with its departure time will be endorsed and a caution order restricting the speed to 25 Kmph. over straight when view ahead is clear and 10 Kmph. when the view ahead is not clear is to be issued. While adopting this procedure the Guard and Driver should be instructed to keep a 'sharp' lookout and be prepared to stop short of any obstruction. Trains must continue to work on this system until any one of the means of communication is restored.

As soon as any one of the means of communication has been restored, the conditional line clear working of trains shall be cancelled when there is no train in the affected block section and message shall be exchanged supported by PN keeping Section Controller informed.

9.2 **TEMPORARY SINGLE LINE WORKING ON A DOUBLE LINE SECTION: -** N.A.

9.3 **DESPATCH OF TRAIN UNDER AUTHORITY TO PROCEED WITHOUT LINE CLEAR OR TO ASSIST THE CRIPPLED TRAIN**: - Rules laid down in SR .6.02.05 shall be followed.

10.0 **VISIBILITY TEST OBJECTS:** -

i) V.T.O. post / authorised substitutes earmarked to work as V.T.O. Post. - The arms of UP Starter signal No.4 & the arms of DN Starter signal No.4 of line No.2 during day & its light during night are earmarked to serve as visibility test objects vide GR 3.61 (2) (b) (ii).

ii) Distance between CSB and V. T. O. post: - 180 Mts.

iii) Station Master on duty will test the visibility during thick and foggy weather and if visibility is impaired, he will work as per GR 3.61 and SRs thereto.

11.0 **ESSENTIAL EQUIPMENTS AT THE STATION**: -

Essential equipment shall be kept ready on hand in good condition with necessary relief stock.

(This is mentioned in Appendix – "E")

12.0 **FOG SIGNAL MEN NOMINATED TO BE CALLED IN CASE OF FOG: -** In order to indicate to the Drivers of approaching trains the location of signal during thick, foggy and tempestuous weather or during dust storm, the SS/SM on duty shall arrange for fog signalling in terms of General Rule 3.61 and Subsidiary Rules thereto. Assurance of the staff shall be taken in the Fog Signal Register in the month of October every year as token of their having knowledge of Fog Signalling Rules and their use.

For signal Man must be a regular employee and not substitute or casual labour. The names of the fog signalmen are given in the fog signal register maintained at the station.

CERTIFICATE:- NOTHING IN THIS RULES SHALL BE READ AS CANCELLING, AMENDING AND MODIFYING ANY OF THE GENERAL RULES, SUBSIDIARY RULES, BLOCK WORKING MANUAL AND OPERATING MANUAL. THESE RULES HENCEFORTH CANCEL ALL PREVIOUS STATION WORKING RULES OF KOMAKHAN STATION.

R.Das
DSTE/SBP

D.Nayak
DOM(G)/SBP

APPENDICES

APPENDIX 'A'	--	WORKING OF L.C. GATE.
APPENDIX 'B'	--	SYSTEM OF SIGNALLING AND INTERLOCKING AND COMMUNICATION ARRANGEMENTS AT THE STATION.
APPENDIX 'C'	--	ANTI COLLISION DEVICE (RAKSHA KAVACH).
APPENDIX 'D'	--	DUTIES OF TRAIN PASSING STAFF AND STAFF IN EACH SHIFT.
APPENDIX 'E'	--	LIST OF ESSENTIAL EQUIPMENS PROVIDED AT THE STATION.
APPENDIX 'F'	--	RULES FOR WORKING OF DK STATIONS, HALTS, IBH, IBS AND OUTLYING SIDINGS.
APPENDIX 'G'	--	RULES FOR WORKING OF TRAINS IN ELECTRIFIED SECTIONS.

A P P E N D I X - 'A'

DETAILS OF LEVEL CROSSING GATES TOGETHER WITH INSTRUCTIONS TO OPERATING STAFF INCLUDING LEVEL CROSSING GATEMAN ABOUT THEIR NORMAL WORKING, THEIR MAINTENANCE AND THEIR WORKING IN CASE OF FAILURE / EMERGENCIES WITH SPECIAL PROVISIONS IF ANY.

1.0 **GATE WORKING INSTRUCTIONS OF "C" CLASS CABIN OPERATED LEVEL CROSSING GATE (RV-63) AT KM 95.172 AT KRAR END OF KMK YARD.**

1.1 **DESCRIPTION OF THE LEVEL CROSSING GATE**:

1.	Number of Level Crossing Gate: -	RV-63	
2.	Engineering or Traffic Gate: -	Traffic.	
3.	Under control of Station Master/PWI:	SM/KMK	
4.	Location KM	95/2	
5.	At. Station: -	KMK.	
6.	In between stations: -	-------	
7.	BG/MG/NG: -	BG.	
8.	Single line/Double line/Multiple line: -	Single Line.	
9.	Normal Position: -	Open to road traffic.	
10.	Interlocked/Non Interlocked: -	Interlocked.	
11.	Means of interlocking: - Lever	The interlocking is achieved by No. 16 of East Cabin.	
12.	Provision of Gate signal at Kms.	i) Up line	NIL
		ii) Dn line	NIL
13.	Signalling arrangement: -	NIL.	
14.	Means of Communication:	Magneto Telephone Communication from Station with E/Cabin	
15.	Width of level crossing Gate: -	7.5 Meters.	
16.	Type of road. (NH/SH/Others): -	(Others)	
17.	Name of Road: -	-----	
18.	Metaled/Non Metaled	Metaled	
19.	Approach Road: -	Metaled	
20.	Width of the road: -	5.5 M.	
21.	Angle of road crossing (In case of the skew Gates)	Right Angle.	
22.	Road gradient (If any)	i) East side.	-----
		ii) West side	-----
23.	Road alignment (Straight/Curve): -	i) East side	Straight
		ii) West side	Straight
24.	Provision of height gauges: -	Not Provided.	
25.	Type of Barriers: -	Winch Operated lifting barriers.	
26.	Length of checkrails: -	9.5 Meter.	
27.	Road surface in between Level Xings Gates: -	Metaled.	
28.	Length of speed breakers: -	7.5 M.	
29.	Road signs: -	Available.	
30.	Speed breaker indication board: -	Provided.	
31.	TVU: -	19085 on 01/2010	
32.	Census next due on: -	01/2013.	
33.	Demarcation for placement of Detonators: -	Displayed.	
34.	No. of the Gateman working: -	Cabin Operated.	
35.	Nearest Railway Medical Assistance: -	MSMD	
36.	Nearest Private Medical Assistance available (if any)	KMK	
37.	List of equipment available Yes//No: -	Yes.	

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DOM(G)/SBP

1.2. This cabin-operated gate is provided with equipments and registers as per SR 16.02.04 as follows:

i) One red and one green hand signal flag.
ii) 2, hand signal lamps
iii) 2, red banner flags with side props.
iv) 10, detonators in a case.
v) 2, gate lamps.
vi) 2, chains with pad locks for locking of the gates.
vii) 2, pad locks for the gate lamps.
viii) 2, staves for fixing hand signal lamps.
ix) Gate working rules.
x) Level crossing inspection book.
xi) Complaint book
xii) 2, Small size chains with padlocks to be used in case failure of gate boom lock

(b) The Supervisory officials in charge of the cabin shall be held responsible for the similar action as contained in SR 16.02.01 (b).

1.3 MODE OF OPERATION:

This is a 'C' class cabin operated interlocked traffic L.C.Gate situated at Km 95.172 near East cabin of KMK. This gate is provided with coupled lifting barriers operated by winch in East Cabin.

The gate shall normally be kept open to road traffic vide SR 16.03.03. Whenever the gate is required to be closed against road traffic the Cabinman shall close the gate by operating the winch. After closing the gate the key is extracted from the winch and the same is inserted in gate lever No.16. The gate lever No.16 in reverse condition releases the slot and signal levers. Thereafter, the DN reception signals and UP despatch signal can be taken off and the cabin man can give slot for reception of UP trains.

For opening the gate, gate lever No. 16 has to be normalized first and then the key thus released will be inserted in gate winch for opening the LC gate. The level crossing gate shall be so worked as to cause the least possible inconvenience to vehicular traffic consistent with safety according to SR16.03.01.

1.4 **<u>INTIMATION TO GATEMAN</u>**:

i) Before taking off reception/departure signals Station Master/KMK shall inform the East Cabinman, the number, description, and direction of the train.

ii) The Cabinman shall close the gate.

iii) The reception/departure signals will then be taken 'OFF'

iv) In order to ensure that road traffic is not held up for a long time, the Cabin man must ensure that the train is ready for departure in all respects.

v) Cabin man shall ensure that the gate is closed against road traffic, before taking 'OFF' reception/departure signals.

vi) When a train has to be piloted to and from the station yard or any shunting movement is to be done, the staff deputed to pilot the train to perform the shunting across the gate shall be personally responsible to ensure that the gate is closed against road traffic before allowing any movement across the gate.

1.5 **FAILURE OF TELEPHONIC COMMUNICATIONS**:

When Telephonic Communication fails or it does not get any response from the Gateman despite 2 or 3 attempts, the following procedure should be adopted:

i) Station Master on duty KMK shall send written advice to the Cabin man through the porter with full details of number, description and direction of the train.

ii) Cabin man on receipt of such advice shall close the gate and take 'OFF' Reception/Departure signals.

iii) In addition Station Master/ KMK shall also issue a caution order advising the driver to whistle continuously and approach the gate cautiously.

iv) The train driver shall be instructed to pass the gate cautiously, on before signaled by the Cabin man. If hand signal is not seen, driver should be prepared to stop short of the gate and ensure that gate is closed following GR.3.73 (2)(b).

v) In case of an approaching train, the Station Master/ KMK shall advise the Station Master /KRAR, under exchange of private number that the telephone at the gate has failed.

vi) The station Master/KRAR shall then issue a caution order to the driver before dispatching a train into the block section from his end.

vii) He should also advise S&T staff responsible for maintenance of the telephone rectify the defect at the earliest.

viii) Normal working will be resumed only after S&T staff rectify the telephone and issue reconnection /fit memo for the same

1.6 **FAILURE OF LIFTING BARRIERS:**

i) When the gate cannot be closed due to failure of lifting barriers, the Cabin man will immediately inform, the Station Master on duty, under exchange private number, and ensure the lifting barriers of gates do not foul the track.

ii) He shall immediately fix red banner flag by day and red light by night on the post at that end first from which the train is approaching and then at the other end.

iii) Cabin man shall secure the gate against road traffic by means of safety chains and padlocks.

iv) After securing the gate against road traffic, Cabin man shall show green hand signal flag by day and green light by night to the driver of the approaching train.

v) Station Master on duty/ KMK shall issue a caution order to the driver of a departing train.

vi) He shall also advise the SM/KRAR, under exchange of private number, to similarly issue a caution order to the driver before despatching a train into the block section from his end.

vii) Station Master/ KMK will advise maintenance staff responsible for maintenance of lifting barriers to repair the defect at the earliest.

viii) Normal working will be resumed only after maintenance staff repair the barrier and issue reconnection/fit memo for the same.

Note:

(a) In case of failure of lifting barriers Station Master will send station porter to secure the gate against road traffic by safety chains and padlocks.

(b) Authority to pass signals at 'ON' position as per rules shall also be issued to the drivers of both departing and arriving trains.

1.7 **FAILURE OF THE GATE KEY WITH THE GATE IN CLOSED POSITION WHEN GATE KEY CANNOT BE EXTRACTED FOR OPENING THE GATE.**

i) If the gate key cannot be extracted from the gate winch or the key transmitter, then Cabin man must immediately inform the SM/KMK on duty on telephone, under exchange of private number.

ii) Thereafter, the gate must be treated as non – interlocked and procedure for reception/ despatch of trains as prescribed for non – interlocked gate should be adopted.

iii) Station Master on duty / KMK shall issue a caution order to the driver of a departing train.

iv) He shall also advise the station Master/KRAR at the despatching end, under exchange of private number, to similarly issue a caution order to the driver before despatching a train into the block section from his end.

v) Station Master / KMK will advise S&T staff responsible for maintenance of winch/key transmitter to rectify the defect at the earliest.

vi) Normal working will resumed only after S&T staff repairs the winch/key transmitter and issue reconnection/fit memo for the same

1.8 **FAILURE OF THE GATE KEY WITH THE GATE IN OPEN CONDITION**:

i) If the gate key cannot be extracted from the winch, gate lever or key transmitter then gateman must immediately inform the SM on duty /KMK on telephone, under exchange of private number.

ii) Thereafter, the gate must be treated as non-interlocked and procedure for reception/despatch of trains as prescribed for non-interlocked gates should be adopted.

iii) Cabin man shall secure the gate against road traffic by means of chains and padlocks and pass the trains on hand signals.

iv) Station Master on duty/ KMK shall issue caution order to the driver of a departing train.

v) He shall also advise the station Master /KRAR at the despatching end, under exchange of private number, to similarly issue a caution order to the driver before despatching a train into the block section from his end.

vi) Station Master/ KMK will advise S&T staff responsible for maintenance of winch//key transmitter to rectify the defect at the earliest.

vii) Normal working will resumed only after S&T staff repairs the winch/key transmitter and issue reconnection/fit memo for the same.

1.9 **OBSTRUCTION AT THE GATE**:

i) If the gate is broken by a road vehicle which is fouling the track, or if lifting barriers or any other part of the gate foul the track, or if there is any other obstruction at the gate, the Cabin man shall Immediately fix red banner flag by day and red lamp by night on posts provided at both ends of the gate, for this purpose.

ii) Immediately after this, the Cabin man shall advise the Station Master/ KMK on duty, regarding the defects/obstruction at the gate, under exchange of private number.

iii) He shall put the reception/departure signals back to 'ON' position, if taken 'OFF' for a train.

iv) If there is no response from the Station Master / KMK after two or three attempts, he shall first protect the gate and then inform on phone.

v) Cabin man shall then rush with detonators and red flag by day and red hand signal lamp by night in the direction of the approaching train and protect the gate as stipulated in G R 16.07.

vi) Thereafter he shall protect the gate from the other direction also.

vii) He shall note down the particulars of the road vehicle, name of the driver, owner and reply these details to the station Master who shall not start the trains unless he has been assured by the Cabin man that the road vehicle or the lifting barriers are not fouling the track.

viii) The Station Master/ KMK shall also inform the station Master /KRAR at the despatching end, under exchange of private number, asking him not to despatch any train into the block section from his end, until the track has been clear of all obstruction.

ix) After the track has been cleared of all obstructions the Cabin man shall inform the Station Master accordingly, under exchange of private number.

x) Station Master/ KMK shall then issue a caution order to drivers of all trains to proceed cautiously, and pass the signal at 'ON' position on green hand signal of the Cabin man, if the gate is broken, but is clear of any obstruction.

xi) Cabin man shall secure the gate against road traffic by means of safety chains and padlocks and they're after exhibit green hand signal, if the gate is not obstructed.

xii) Station Master/ KMK shall advise maintenance staff responsible for maintaining the lifting barriers to repair the same at the earliest.

xii) Normal working will be resumed only after maintenance staffs rectify the defective lifting barriers and issue reconnection/fit memo for the same.

1.10 **OBSTRUCTION ON THE TRACK NEAR LEVEL CROSSING GATE**:

If there is a rail fracture or obstruction on the track due to falling of a tree, fouling by road vehicle or derailment, which is visible to the gateman, the Cabin man and SM/ KMK will adopt the procedure given under item No.1.9 above. If the obstruction fouls the level Crossing Gate, Cabin man must keep the gates closed against road traffic till the track is cleared of the obstruction.

Note- All duties of Gate Man devolve on the cabinman on duty.

2.0 GATE WORKING INSTRUCTIONS FOR "B1" CLASS ENGINEERING INTERLOCKED LEVEL CROSSING GATE AT KM 103/9-10 (No-RV-71) BETWEEN KRAR-KMK STATIONS.

2.1 GENERAL INSTRUCTIONS: -

2.1.1 DESCRIPTION OF THE LEVEL CROSSING GATE

1.	Number of Level Crossing Gate: -	RV-71
2.	Engineering or Traffic Gate: -	Engineering.
3.	Under control of Station Master/PWI:	PWI
4.	Location KM	103/9-10
5.	At. Station: -	------.
6.	In between stations: -	KRAR-KMK
7.	BG/MG/NG: -	BG.
8.	Single line/Double line/Multiple line: -	Single Line.
9.	Normal Position: -	Open to road traffic.
10.	Interlocked/Non Interlocked: -	Interlocked.
11.	Means of interlocking: -	Gate Signal.
12.	Provision of Gate signal at KMs	(I) Up -KM 103.419 (II) Dn -KM 103.779
13.	Signalling arrangement: -	MACLS.
14.	Means of Communication:	Telephone Communication from Gate Goomty with SM/KRAR
15.	Width of level crossing Gate: -	10.0 Meters.
16.	Type of road. (NH/SH/Others): -	SH
17.	Name of Road: -	Khariar-Bagbahara Road
18.	Metaled/Non:	Metaled
19.	Approach Road: -	Metaled.
20.	Width of the road: -	7.5m
21.	Angle of road crossing (In case of the skew Gates)	(48 Degree).
22.	Road gradient (If any)	(i) North/East side -- Level (ii) South/West side- Level
23.	Road alignment (Straight/Curve): -	(i) North/ East side - Curve (ii) South/West side-Curve
24.	Provision of height gauges: -	Not Provided.
25.	Type of Barriers: -	Lifting Barriers
26.	Length of check rails: -	12.0 Meters.
27.	Road surface in between Level: -	Concrete Blocks.
28.	Length of speed breakers: -	9.5M
29.	Road signs: -	Available
30.	Speed breaker indication board: -	Provided
31.	TVU: -	28413 on 02/2010
32.	Census next due on: -	02/2013.
33.	Demarcation for placement of Detonators: -	Provided.
34.	No. of Gateman working: -	03
35.	Nearest Railway Medical Assistance: -	KBJ
36.	Nearest Private Medical Assistance available (if any)	KRAR.
37.	List of equipment available Yes//No: -	Yes.

2.2 EQUIPMENT:

	ITEMS	QUANTITY/NUMBERS
1.	Hand signal Lamp/ Tri Colour Torch	3 (5 on Quadruple/Line or twin single line)
2.	Hand signal Flag Green	1 mounted on sticks
3.	Hand Signal Flag Red.	3 (6 on Quadruple/line or Twin single line & 7 in case Hexable section mounted on sticks)
4.	Banner Flag Red	3 (5 on Quadruple/Line or twin single line)
5.	Posts for exhibiting red banner flag	2 (4 on Q/Twin single line & 5 on Hexable section.
6.	Spares chains with padlocks	2 with stop mark
7.	Detonators	10 in tin case
8.	Gate Lamps	2
9.	Tommy Bar	1
10.	Motor Pan	1
11.	Spade/Fowrah	1
12.	Rammer	1 (in case of asphalted road this may not be provided)
13.	Pick Axe	1 (in case of asphalted road this may not be provided)
14.	Tin case for flags	1
15.	Can for oil	1
16.	Water pot/Bucket	1
17.	Canister for Muster Roll	1
18.	Set of spare spectacles of Gateman Wearing glasses.	1
19.	Board demarcating protection of level crossing Gate diagram in case of obstruction on Gate .	1
20.	Basket	1
21.	Whistle	1
22.	Wall clock	1
23.	Small size chains with padlocks to be used in case failure of gate boom lock.	02

2.3 **THE GATEMAN SHALL BE PROVIDED WITH FOLLOWING REGISTERS: -**

i) Gate working instructions in Hindi / English.
ii) Gate working instructions in local vernacular language.
iii) General Rules Book in Local vernacular language.
iv) List for tools and books.
v) Duty Roster.
vi) Certificate for working as gateman.
vii) Bio–Data particulars of Gateman, including date of passing vision test, initial/refresher course, safety camp etc.
viii) Accident Register.
ix) Records of last census of road traffic at level crossing gate.
x) Public complaint Book.
xi) Inspection Book.
xii) S&T Register.

2.4. **DUTIES OF GATEMAN**:

1. **ALERTNESS:**

The Gateman on duty shall be alert. He should be prepared to take immediate action, when danger is apprehended. Keys of the Gate shall be in his personal custody.

2. **POSITION OF GATE KEEPER DURING PASSAGE OF TRAINS**:
During passage of trains, Gateman will stand in the manner indicated below:

i) Gateman will stand attentively in front of the Gate – lodge facing the approaching train.

ii) In daytime, Gateman shall hold red and green flags furled up on separate sticks in right and left hands respectively.

iii) In nighttime, Gateman shall hold lighted hand signal lamp with white light facing the track.

iv) He shall keep the whistle slung around his neck from a cord.

3. **ROUTINE DUTIES OF GATEMAN**:

i) Gateman shall ensure that red banner flag by day and red light by night is placed across the track whenever the Gate is kept in open condition during emergencies or obstruction on track.

ii) Gateman shall ensure that gate lamps and lamps of all gate signals are lighted and kept burning continuously from sunset to sunrise.

iii) Gateman shall perform his duties strictly according to the duty roster & shall not leave the gate unless reliever arrives and takes charge of it. However, if it is necessary to leave the gate in and emergency, he must close and lock the gates against road traffic, before leaving the gate.

iv) Except where otherwise prescribed under special instructions, he shall observe all passing trains & be prepared to take such action as may be necessary to ensure safety of trains.

v) Gateman shall watch all passing trains and keep sharp like out for any unusual like hot axle, hanging chains, hanging battery, any vehicle/wagons /trains/battery/box on fire, shifted load, falling material like brake blocks, brake beams, safety bracket, vacuum cylinder or any other situation endangering sage running of trains.

vi) Gateman shall also be prepared to repeat any signal which guard may give to driver on walkie – talkie or in any other way.

vii) If lifting barriers get damaged or becomes out of order, the gateman shall use the spare chain with disc and padlocks for securing the gate against road traffic.

viii) Gateman shall report to the nearest station Master, Gangmate or Permanent Way Inspector any defect in his gate or apparatus pertaining to it, as soon as possible.

ix) In the event of gate signal becoming defective the gateman shall maintain the signal in the 'ON' position even by disconnecting the signal or the wire if necessary.

x) At the gate whose signal have become defective, the gateman shall close and lock the lifting barriers on sighting a train and hand signal or pilot the past the defective signal. In such case he should inform the driver to report the defect at the next station.

xi) Gateman shall wear badge and prescribed uniform while on duty at level crossing gate.

xii) Gateman shall ensure that he is having competency certificate in his possession while on duty.

xiii) Gateman shall work the gate as per gate working instructions & remain well conversant with these instructions.

xiv) Gateman shall ensure that equipment supplied at gate is in good order & ready for immediate use.

xv) Gateman shall see that the channel for the flange of the wheel is kept clear.

xvi) Gateman must keep the road surface well-watered & rammed in case of un metalled roads.

xvii) Gateman must be vigilant to see that inconvenience to road users due to closure of gates should be to the minimum possible extent.

xviii) Gateman on electrified section shall watch that road vehicles/animals passing from gate are within the height-loading gauge provided on either side of the level crossing gate.

xix) Gateman shall prevent tress passing by persons or cattle to the maximum extent.

4. **ACTION IN CASE OF UNUSUAL OCCURRENCE OF TRAIN.**

In case Gateman observes anything unusual with a passing train, he shall take following action:

i) He shall take prompt action to warn the driver/guard of the passing train by showing red flag by day and red light by night.

ii) He shall simultaneously try to draw the attention of the driver/guard by whistling continuously, shouting, gesticulating, & throwing ballast on the brake van or by any other means.

iii) If driver/guard fails to take notice, Gateman shall immediately inform the SM on duty to take appropriate action, under exchange of private number.

iv) In case of train parting, Gateman shall not show stop hand signal but shall show prescribed signal for train parting.

v) He shall endeavor to attract the attention of the Driver/Guard by whistling continuously, shouting, gesticulating, and by raising both hands vertically above, quickly parting them and bringing them together in repeated Up and Down motion as high and as low as possible.

vi) In case the train does not stop, Gateman shall immediately inform the SM to take appropriate action, under exchange of private number.

5. **ACTION IN EMERGENCY AT THE LEVEL CROSSING**:

i) In case of an obstruction at the level crossing gate, gateman shall maintain the gate signals, if at, in the 'ON' position.

ii) Therefore, if he is unable to remove the obstruction, gateman shall immediately advise the SM on duty, regarding the defects/obstructions at the gate, under exchange of private number.

iii) If there is no response from the Station Master after or three attempts he shall first protect the gate and then inform on phone.
The gateman shall protect the line as under: -

a) ON SINGLE LINE SECTION:

i) Gateman shall plant a red banner flag by day and a red light by night 5 meters away on posts duly provided for the purpose. He shall first protect the direction from which a train is expected to arrive first.

ii) Then he will similarly plant the other red banner flag by day and red light by night towards the other direction 5 meters away from the site of obstruction.

iii) Gateman shall then proceed to protect the gate along with detonators, fusees and red flag by day and red hand signal lamp by night.

iv) Gateman shall proceed exhibiting red flag by day and red hand signal lamp by night towards the direction, which a train is expected to arrive first, to a point 600 m & place one detonator on the line. Thereafter he shall proceed to a distance 1200 m from the level crossing gate and place 3 detonators on the track in 10 meters apart. Having thus protected the line he shall return to the level crossing gate picking up the intermediate detonator on his way back.

v) Thereafter, he shall proceed towards the other direction, showing red hand signal, similarly place detonators as described in (iv) above and return to the site of obstruction, picking up the intermediate detonator on his way back.

vi) Having returned to the gate, he must then take steps to remove the obstruction and warn the driver of the approaching train.

vii) In case the gateman observes or hears a train approaching when he is still on his way to protect and before he reaches the stipulated distance to place detonators, he shall place detonators on the line at a distance as far away as he can go.

viii) Thereafter, he shall stop the approaching train by waving his red flag by day, red hand signal lamp by night repeatedly.

(b) **Other actions to be taken by Gateman:**

i) At night Gateman shall light two hand signal lamps and take action to exhibit red light and protect the lines as described in sub paras (a) and (b) above.

ii) If the Gate is broken by a road vehicle, which is fouling the track or if lifting barriers or any other part of the Gate foul the track or if there is any other obstruction at the Gate, the Gateman shall take immediate action.

iii) He shall note down the particulars of the road vehicle, vehicle number, name of the driver, owner and relay these details to the SM / KRAR regarding the particulars and obstructions at the level crossing Gate, through messenger or other means available.

2.5. **SPECIAL INSTRUCTIONS**:

1 **MODE OF OPERATION** :-

This is a Manned, Engineering interlocked L.C. Gate situated in between KRAR-KMK at Km 103.599(103/9-10) This gate is interlocked with Gate stop signals. Telephone communication is provided between the L C. gate lodge with SM on duty of KRAR Station. The level crossing gate is of lifting barrier type operated by means of winch provided at the gate lodge. The normal position of the gate is open to road traffic. A Four-lever ground frame is provided at the gate lodge. The key of the LC remains in the winch when the gate is in open condition. When it is necessary to close the gate, for passing off trains, the SM/KRAR on duty shall inform the gate man to close and lock the gate. The gate man on duty shall then close the barriers of the LC gate by operating the winch. Then key 'G' is to be extracted from the winch, which will be inserted in the lever of GF-1. When GF-1 is reversed it locks the booms of the gate and releases GF-2 OR GF-3 . Thenafter, the gateman can reverse the GF-2 OR GF-3 for taking OFF concerned UP or DN Gate stop signals. GF-4 is a spare lever.

After passage of the Train the gateman shall normalise the concerned GF-2 OR GF-3 lever to put back the gate signal. The gateman after normalizing the GF-1 lever shall extract the key'G' from GF-1. Thereafter he will open the gate by inserting the Key'G' in the winch for normal passage of road traffic. The gate shall be so worked as to cause least possible inconvenience to the vehicular traffic consistence with safety as per subsidiary rule16.03.01 (a).

Once the LC gate is closed should not be opened by the gateman till such time the train for which the gate was closed has passed the LC gate completely. In case of emergency the LC gate may be opened for road traffic with the specific permission of the SM/KRAR under exchange of PN if there is no train in the section

2. INTIMATION TO GATE MAN:

(i) Immediately after departure of the train, SM/KRAR shall advise the gateman through telephone connected at his end, the number, description, direction & expected time of passage of the train at the gate.

(ii) This advice shall be given by the Station Master/KRAR to the gateman, as soon as he receives train entering section advice from the KMK station.

(iii) If the actual running time of the train from either end of the section is less than 10 minutes, Station Master/KRAR will convey this advice to the gateman before obtaining/granting line clear.

(iv) It should be the duty of the gateman to ensure that the gate is closed in time, so that there is no detention to the train of excessive detention to road traffic.

3. **FAILURE OF TELEPHONIC COMMUNICATION**:
When Telephonic Communication fails or it does not get any response from the Gateman despite 2 or 3 attempts, the following procedure should be adopted:

(i) If the telephone fails at the gate connected with the station at the dispatching end, Station Master/KRAR shall issue a caution order to the driver of the departing train.

(ii) SM shall advise the driver to whistle continuously & proceed cautiously while approaching the gate.

(iii) In case the gate signal is 'ON' he should stop at the gate signal & follow the procedure laid down under GR 3.73.

(iv) In case of an approaching train, the SM/KRAR shall advise the SM/KMK at the dispatching end, under exchange of private number that the telephone at the gate has failed.

(v) The Station Master/KMK at the dispatching end shall then issue a caution order to the driver before dispatching a train into the block section from his end.

(vi) Station Master/KRAR will also advise the gateman through Gangman /Patrolman /Driver of the first train that the telephone has become defective.

(vii) Station Master/KRAR should also advise S&T staff responsible for maintenance of the telephone to rectify the same at the earliest.

(viii) Normal working will be resumed only after S&T staff rectifies the telephone and issue reconnection/fit memo for the same.

4. **FAILURE OF LIFTING BARRIERS OF GATE**:

(i) When the gate cannot be closed due to failure of lifting barriers, the gateman shall immediately inform the SM/KRAR on duty under exchange of PN, and ensure that lifting barriers of gate do not foul the track.

(ii) He shall immediately fix red banner flag by day and red light by night on the post that end first from which the train is approaching and then at the other end.

(iii) Gateman shall secure the gate against road traffic by means of safety chains & padlocks.

(iv) After securing the gate against road traffic, gateman shall show green hand signal flag by day and green light to the driver of the approaching train.

(v) Station Master/KRAR on duty shall issue caution order to the driver of a departing train.

(vi) He shall also advise the SM/KMK at the dispatching end, under exchange of PN to similarly issue a caution order to the driver before dispatching a train into the block section.

(vii) Station Master/KRAR shall advise maintenance staff responsible for maintaining the lifting barrier to rectify the same at the earliest.

(viii) Normal working will be resumed only after maintenance staff repairs the lifting barrier of gate and issue reconnection/fit memo for the same.

5. FAILURE OF THE GATE KEY WITH THE GATE IN CLOSED POSITION WHEN GATE KEY CANNOT BE EXTRACTED FOR OPENING THE GATE.

(i) If the gate key cannot be extracted from the winch, gate signal lever or key transmitter then gateman must immediately inform the SM/KRAR on duty on telephone, under exchange of PN.

(ii) Thereafter, the gate must be treated as non-interlocked and procedure for reception/dispatch of trains as prescribed for non-interlocked gates, should be adopted.

(iii) Station Master/KRAR on duty shall issue caution order to the driver of a departing train.

(iv) He shall also advise the Station Master/KMK at the dispatching end, under exchange of private number, to similarly issue a caution order to the driver before dispatching a train into the block section from his end.

(v) SM/KRAR shall advise S&T staff responsible for maintaining the key transmitter to repair the same at the earliest.

(vi) Normal working will be resumed only after S&T staff repairs the key transmitter and issue reconnection/fit memo for the same.

6. FAILURE OF THE GATE KEY, WITH THE GATE IN OPEN CONDITION:

(i) If the gate key cannot be extracted from the winch, gate signal lever or key transmitter then gateman must immediately inform the SM/KRAR on duty on telephone, under exchange of PN.

(ii) Thereafter, the gate must be treated as non-interlocked and procedure for reception/dispatch of trains as prescribed for non-interlocked gates, should be adopted.

(iii) The gateman shall secure the gate against road traffic by means of chains and padlocks and pass trains on hand signals.

(iv) SM/KRAR on duty shall issue a caution order to the driver of a departing train.

(v) He shall also advise the Station Master/KMK at the dispatching end, under exchange of private number, to similarly issue a caution order to the driver before dispatching a train into the block section from his end.

(vi) Station Master/KRAR shall advise S&T staff responsible for maintaining the key transmitter to repair the same at the earliest.

(vii) Normal working will be resumed only after S&T staff repairs the key transmitter and issue reconnection/fit memo for the same.

7. DEFECTIVE GATE SIGNAL:

(i) The gateman shall treat the gate signal as defective & must not take off them under following circumstances:

(a) If gate signals can be taken 'OFF' without closing the gate, or

(b) The key can be extracted from the operating winch when the gate is in open condition.

(ii) If the Gate or the Gate Signal or Distant Signal becomes defective in 'OFF' position, the gateman will make all efforts to put it at 'ON' position.

(iii) The gateman will immediately advise the Station Master/KRAR on duty, under exchange of private number, regarding defective gate signals.

(iv) Thereafter, the gate must be treated as non – interlocked and procedure for reception/dispatch as prescribed for non-interlocked gates should be adopted.

(v) He shall show green hand signal flag by day & green light by night to the passing train after closing the gate.

(vi) Station Master/KRAR on duty will issue a caution order to the driver of departing train.

(vii) He shall also advise the SM/KMK at the dispatching end, under exchange of PN, to similarly issue a caution order to the driver before despatching train into the block section from his end.

(viii) SM/KRAR shall advise S&T staff responsible for maintaining the gate signal to repair the same at the earliest.

(ix) Normal working will be resumed only after S&T staff rectifies the defective gate signal and issue reconnection/fit memo for the same.

8. **OBSTRUCTION AT THE GATE**:-

(i) If the gate is broken by a road vehicle, which is fouling the track, or if lifting barrier gates or any other part of the gate foul the track, or if there is any other obstruction at the gate, the gateman shall immediately put back gate signals to 'ON' position.

(ii) He shall fix red banner flag by day & red lamp by night on posts provided at both ends of the gate.

(iii) Immediately after this, the gateman shall advise the station Master/KRAR on duty regarding the defects /obstructions at the gate, under exchange of private number.

(iv) If there is no response from the Station Master /KRAR after two or three attempts, he shall first protect the gate and then inform on phone.

(v) Gateman shall then rush with detonators and red flag by day and red hand signal lamp by night in the direction of the approaching train and protect the gate as stipulated in General Instruction for duties of gateman under item No.2.4 (5).

(vi) Thereafter he shall protect the gate from the other direction also.

(vii) He shall note down the particulars of the road vehicle, name of the driver, owner and reply these details to the SM/KRAR who shall not start the trains unless he has been assured by the gateman that the road vehicle or the lifting barriers of gate are not fouling the track.

(viii) The SM/KRAR shall also inform the SM/KMK at the despatching end, under exchange of PN, asking him not to despatch any train into the block section from his end, until the track has been cleared of all obstruction.

(ix) After the track has been cleared of all obstructions the gateman shall inform the Station Master/ KRAR accordingly, under exchange of private number.

(x) SM/ KRAR shall then issue a caution order to drivers of all trains to proceed cautiously, and pass the gate signal at 'ON' position on green hand signal of the gateman, if the gate is broken, but is clear of any obstruction.

(xi) Gateman shall secure the gate against road traffic by means of safety chains and padlocks and thereafter exhibit green hand signal, if the gate is not obstructed.

(xii) Station Master/ KRAR shall advise maintenance staff responsible for maintaining the lifting barrier of gate to repair the same at the earliest.

(xiii) Normally working will be resumed only after maintenance staff rectifies the defective lifting barrier and issue reconnection/fit memo for the same.

9. **OBSTRUCTION ON THE TRACK NEAR LEVEL CROSSING GATE**:

If there is a rail fracture or obstruction on the track due to falling of a tree, fouling by road vehicle or derailment, which is visible to the gateman, the gateman and Station Master/ KRAR will adopt the procedure given under item No.8 above. If the obstruction fouls the level Crossing Gate, gateman must keep the gates closed against road traffic till the track is cleared of the obstruction.

3.0 GATE WORKING RULES FOR "C" CLASS ENGG. NON-INTERLOCKED LEVEL CROSSING GATE (No-RV-54) AT KM 85/10-11 BETWEEN BGBR-KMK STATIONS.

3.1 GENERAL INSTRUCTIONS: -

3.1.1 DESCRIPTION OF THE LEVEL CROSSING GATE:

1.	Number of Level Crossing Gate: -	RV-54.		
2.	Engineering or Traffic Gate: -	Engineering.		
3.	Under control of Station Master/PWI:	PWI.		
4.	Location KM	85/10-11 (85.654)		
5.	At. Station: -	----.		
6.	In between stations: -	BGBR-KMK.		
7.	BG/MG/NG: -	BG.		
8.	Single line/Double line/Multiple line: -	Single Line.		
9.	Normal Position: -	Open to road traffic.		
10.	Interlocked/Non Interlocked: -	Non-interlocked.		
11.	Means of interlocking: -	NIL.		
12.	Provision of Gate signal at Kms.	i)	Up line	NIL
		ii)	Dn line	NIL
13.	Signalling arrangement: -	NIL.		
14.	Means of Communication:	Telephone communication from Gate Goomty with SM/ BGBR.		
15.	Width of level crossing Gate: -	7.5 Meters.		
16.	Type of road. (NH/SH/Others): -	Others (Municipal)		
17.	Name of Road: -	Tendukana - Nawagaon road.		
18.	Metaled/Non Metaled:	Non Metaled		
19.	Approach Road: -	Non Metaled		
20.	Width of the road: -	6.00 m.		
21.	Angle of road crossing (In case of the skew Gates)	NIL.		
22.	Road gradient (If any)	i)	East/North side. 1: 30.	
		ii)	West/South side. 1: 30	
23.	Road alignment (Straight/Curve): -	i)	East/North side.- Straight.	
		ii)	West/South side.- Straight.	
24.	Provision of height gauges: -	Provided		
25.	Type of Barriers: -	Winch Operated Lifting barriers.		
26.	Length of check rails: -	9.5 Meter.		
27.	Road surface in between Level Xings Gates: -	CCB.		
28.	Length of speed breakers: -	7.0 Meter.		
29.	Road signs: -	Available		
30.	Speed breaker indication board: -	provided		
31.	TVU: -	12912 on 01/2010.		
32.	Census next due on: -	01/2013.		
33.	Demarcation for placement of Detonators: -	Displayed.		
34.	Name of the Gateman working: -	02.		
35.	Nearest Railway Medical Assistance: -	MSMD		
36.	Nearest Private Medical Assistance available (if any)	BGBR		
37.	List of equipment available Yes//No: -	yes.		

3.2. **EQUIPMENT**:

	ITEMS	QUANTITY/NUMBERS
1.	Hand signal Lamp /Tri Colour Torch.	3(5 on Quadruple/Line or twin single line)
2.	Hand signal Flag Green	1 mounted on sticks
3.	Hand Signal Flag Red.	3 (6 on Quadruple/line or Twin single line & 7 in case Hexaple section mounted on sticks)
4.	Banner Flag Red	3 (5 on Quadruple/Line or twin single line)
5.	Posts for exhibiting red banner flag	2 (4 on Q/Twin single line and 5 on Hexaple section
6.	Spares chains with padlocks	2 with stop mark
7.	Detonators	10 in tin case
8..	Gate Lamps	2
9..	Tommy Bar	1
10.	Motor Pan	1
11.	Spade/Fowrah	1
12.	Rammer	1 (in case of asphalted road this may not be provided)
13.	Pick Axe	1 (in case of asphalted road this may not be provided)
14.	Tin case for flags	1
15.	Can for oil	1
16.	Water pot/Bucket	1
17.	Canister for Muster Roll	1
18	Set of spare spectacles of Gateman Wearing glasses.	1
20.	Board demarcating protection of level crossing Gate diagram in case of obstruction on Gate .	1
20.	Basket	1
21.	Whistle	1
22.	Wall clock	1
23.	Small size chains with padlocks to be used in case of failure of boom lock.	2

3.3 The gateman shall be provided with following registers: -

i) Gate working instructions in Hindi / English.
ii) Gate working instructions in local vernacular language.
iii) General Rules Book in Local vernacular language.
iv) List for tools and books.
v) Duty Roster.
vi) Certificate for working as gateman.
vii) Bio–Data particulars of Gateman, including date of passing vision test, initial/refresher course, safety camp etc.
viii) Accident Register.
ix) Records of last census of road traffic at level crossing gate.
x) Public complaint Book.
xi) Inspection Book.

3.4 **DUTIES OF GATEMAN**:

1. **ALERTNESS:**

The gateman on duty shall be alert. He should be prepared to take immediate action, when danger is apprehended. Keys of the gate shall be in his personal custody.

2. **POSITION OF GATE KEEPER DURING PASSAGE OF TRAINS**:

During passage of trains, gateman will stand in the manner indicated below:

i) Gateman will stand attentively in front of the gate – lodge facing the approaching train.

ii) In daytime, gateman shall hold red and green flags furled up on separate sticks in right and left hands respectively.

iii) In nighttime, gateman shall hold lighted hand signal lamp with white light facing the track.

iv) He shall keep the whistle slung around his neck from a cord.

3. **ROUTINE DUTIES OF GATEMAN**:

i) Gateman shall ensure that red banner flag by day and red light by night is placed across the track whenever the gate is kept in open condition for passage of road vehicles.

ii) Gateman shall ensure that all gate lamps and hand signal lamps are lighted and kept burning continuously from sunset to sunrise.

iii) Gateman shall perform his duties strictly according to the duty roster and shall not leave the gate unless his reliever arrives and takes over charge from him. However, if it is necessary to leave the gate in an emergency, he must close and lock the gates against road traffic, before leaving the gate.

iv) Except where otherwise prescribed under special instructions, he shall observe all passing trains and be prepared to take such action as may be necessary to ensure safety of trains.

v) Gateman shall watch all passing trains and keep sharp look out for any unusual like hot axle, hanging chains, hanging battery, any vehicle/wagons /trains/battery/box on fire, shifted load, falling material like brake blocks, brake beams, safety bracket, vacuum cylinder or any other situation endangering safe running of trains.

vi) Gateman shall also be prepared to repeat any signal which guard may give to driver on walkie – talkie or in any other way.

vii) If lifting barriers get damaged or becomes out of order, the gateman shall use the spare chain with disc and padlocks for securing the gate against road traffic.

viii) Gateman shall report to the nearest Station Master, Gangmate or Permanent Way Inspector any defect in his gate or apparatus pertaining to it, as soon as possible.

ix) Gateman shall wear badge and prescribed uniform while on duty at level crossing gate.

x) Gateman shall ensure that he is having competency certificate in his possession while on duty.

xi) Gateman shall work the gate as per gate working instructions and remain well conversant with these instructions.

xii) Gateman shall ensure that equipment supplied at the gate is in good order and ready for immediate use.

xiii) Gateman shall see that the channel for the flange of the wheel is kept clear.

xiv) Gateman must keep the road surface well-watered and rammed in case of unmetalled roads.

xv) Gateman must be vigilant to see that inconvenience to road users due to closure of gates should be to the minimum possible extent.

xvi) Gateman shall prevent tress passing by persons or cattle to the maximum extent.

4. <u>ACTION IN CASE OF UNUSUAL OCCURRENCE OF TRAIN</u>.

In case gateman observes anything unusual with a passing train, he shall take following action:

i) He shall take prompt action to warn the driver/guard of the passing train by showing red flag by day and red light by night.

ii) He shall simultaneously try to draw the attention of the driver/guard by whistling continuously, shouting, gesticulating, and throwing ballast on the brake van or by any other means.

iii) If driver/guard fails to take notice, gateman shall immediately inform the station Master/BGBR, to take appropriate action, under exchange of private number.

iv) In case of train parting, gateman shall not show stop hand signal but shall show prescribed signal for train parting.

v) He shall endeavor to attract the attention of the Driver/Guard by whistling continuously, shouting, gesticulating, and by raising both hands vertically above, quickly parting them and bringing them together in repeated Up and Down motion as high and as low as possible.

vi) In case the train does not stop, gateman shall immediately inform the Station Master/BGBR, to take appropriate action, under exchange of private number.

5. **<u>ACTION IN EMERGENCY AT THE LEVEL CROSSING</u>**:

i) In case of an obstruction at the level crossing gate, he shall place banner flag/red light lamps on the stave on track at 5 m. away from the edge of the road at Level Crossing.

ii) Thereafter, if he is unable to remove the obstruction, gateman shall immediately advise the SM/BGBR on duty, regarding the defects/obstructions at the gate, under exchange of PN.

iii) If there is no response from the Station Master/BGBR after three attempts, he shall first protect the gate and then inform on phone.

A) <u>THE GATEMAN SHALL PROTECT THE LINE AS UNDER</u>: -

i) Gateman shall plant a red banner flag by day and a red light by night 5 meters away on posts duly provided for the purpose. He shall first protect the direction from which a train is expected to arrive first.

ii) Then he will similarly plant the other red banner flag by day and red light by night towards the other direction 5 meters away from the site of obstruction.

iii) Gateman shall then proceed to protect the gate along with detonators and red flag by day and red hand signal lamp by night.

iv) Gateman shall proceed exhibiting red flag by day and red hand signal lamp by night towards the direction which a train is excepted to arrive first, to a point 600 meters and place one detonator on the line. Thereafter he shall proceed to a distance 1200 meters from the level crossing gate and place 3 detonators on the track in 10 meters apart. Having thus protected the line he shall return to the level crossing gate picking up the intermediate detonator on his way back which was placed at boom.

v) Thereafter, he shall proceed towards the other direction, showing red hand signal, similarly place detonators as described in (iv) above and return to the site of obstruction, picking up the intermediate detonator on his way back.

vi) Having returned to the gate, he must then take steps to remove the obstruction and warn the driver of the approaching train.

vii) In case the gateman observes or hears a train approaching when he is still on his way to protect and before he reaches the stipulated distance to place detonators, he shall place detonators on the line at a distance as far away as he can go.

viii) Thereafter, he shall stop the approaching train by waving his red flag by day, red hand signal lamp by night repeatedly.

(B) OTHER ACTIONS TO BE TAKEN BY GATEMAN:

i) At night Gateman shall light two hand signal lamps and take action to exhibit red light and protect the lines as described in sub paras (a) and (b) above.

ii) If the gate is broken by a road vehicle, which is fouling the track, or if lifting barriers or any other part of the gate foul the track, or if there is any other obstruction at the gate, the gateman shall take immediate action.

iii) He shall note down the particulars of the road vehicle, vehicle number, name of the driver, owner and relay these details to the Station Master/BGBR and Permanent Way Inspector regarding the particulars and obstructions at the level crossing gate, through messenger or other means available.

3.5 **SPECIAL INSTRUCTIONS**:

1. **MODE OF OPERATION:-**

This is a Non-interlocked 'C' Class Engineering L.C. Gate situated at Km 85/10-11 between BGBR-KMK stations. This gate is provided with winch operated coupled lifting barriers. The gateman shall close and open the lifting barriers of gate manually by operating the winch. Telephone connection is provided between the L C. gate lodge and SM's office of BGBR station. The level crossing gate is normally kept open to road traffic and closed against road traffic for passage of trains. Station Master / BGBR authorises the gateman to open the L.C.Gate after complete passage of train from the gate by observing tail board/ tail lamp. The gateman before opening the gate shall ensure that SM has not advised him to keep the gate closed for any other train from the same direction or from other direction.

2. **EXCHANGE OF PRIVATE NUMBERS**.

(a) When Gate is connected with the station at the dispatching end:

i) Station Master / BGBR at the dispatching end shall advise the gateman the number, description, direction and expected time of the passage of the train at the gate, under exchange of private number.

ii) Such advice shall be given before taking 'OFF' departure signal or giving an authority to proceed to the driver.

iii) The gateman on receipt of the advice shall close the gate well in time and confirm the same, under exchange of private number.

iv) SM/ BGBR will take off the departure signals after getting the PN of the gateman.

v) The gateman shall be authorised by the Station Master / BGBR to open the L.C.Gate after complete passage of train from the gate by observing tail board/ tail lamp. The gateman before opening the gate shall ensure that SM/BGBR has not advised him to keep the gate closed for any other train from the same direction or from other direction. He shall display a banner flag across the track while the gate is in open condition.

(b) When Gate is connected with the station at the receiving end:

i) Station Master /KMK at the despatching end shall advise the Station Master / BGBR at the other end the number, description, direction and expected time of passage of the train at the gate, under exchange of private number.

ii) Such advice shall be given before obtaining line clear.

iii) Station Master / BGBR at the receiving end shall in turn convey the same advice to the gateman, under exchange of private number.

iv) Gateman shall close the gate and thereafter give his private number to the Station Master / BGBR.

v) Only then shall the Station Master / BGBR at the receiving end grant line clear to the Station Master /KMK at the despatching end.

vi) The gateman shall be authorised by the Station Master / BGBR to open the L.C.Gate after complete passage of train from the gate by observing tail board/ tail lamp. The gateman before opening the gate shall ensure that SM has not advised him to keep the gate closed for any other train from the same direction or from other direction. He shall display a banner flag across the track while the gate is in open condition.

3. **FAILURE OF TELEPHONIC COMMUNICATION**:

When Telephonic Communication fails or SM/ BGBR does not get any response from the Gateman despite 2 or 3 attempts, the following procedure shall be adopted:

i) The Station Master/ BGBR at the dispatching end shall issue a caution order to the driver before dispatching an UP train into the block section from his end.

ii) The caution order shall advise the driver to whistle continuously & approach the Gate cautiously.

iii) The driver shall be instructed to pass the Gate cautiously, on being hand signaled by the Gateman. If hand signal is not seen, driver should be prepared to stop short of the Gate and depute his Assistant driver who will give the all right signal and if the Gate is not closed the Assistant driver must close the Gate and then give the all right signal. In the absence of the Assistant driver, the driver may take the assistance of the Assistant Guard/Guard. He shall stop his train clearing of the level crossing to pick up the Assistant driver who will reopen the Gate for passage of the road traffic.

iv) In case of a DN train, the Station Master/ BGBR shall advise the Station Master/KMK exchanging messages with private number that the telephone at the Gate has failed.

v) The Station Master/KMK shall then issue a caution order to the driver before despatching a train in to the block section from his end.

vi) Station Master/ BGBR shall also advice to the Gateman through Gangman/Patrolman or driver of the first train that the telephone has become defective.

vii) SM/ BGBR should also advise S&T staff responsible for maintenance of the telephone, to rectify the defect at the earliest.

viii) Normal working will be resumed only after S&T staff rectify the telephone and issue reconnection /fit memo for the same.

4. **FAILURE OF LIFTING BARRIERS**:

i) When the Gate cannot be closed due to failure of lifting barriers, The Gateman will immediately inform the Station Master on duty/ BGBR, under exchange of Private number, and ensure that lifting barriers do not foul the track.

ii) He shall immediately fix red banner flag by day and red light by night on the post at that end first from which the train is approaching and then at the other end.

iii) Gateman shall secure the Gate against road traffic by means of safety chains & padlocks.

iv) After securing the Gate against road traffic, he shall show green hand signal flag by day and green light by night to the driver of an approaching train.

v) SM on duty/ BGBR shall issue caution order to the driver of departing UP train.

vi) SM/ BGBR shall also advise the Station Master/KMK at the despatching end, under exchange of private number, to similarly issue a caution order to the driver before despatching a DN train into the block section from his end.

vii) SM/ BGBR should also advise maintenance staff responsible for maintenance of the lifting barriers to rectify the defect at the earliest.

viii) Normal working will be resumed only after maintenance staff rectify the lifting barriers and issue reconnection/fit memo for the same.

5. <u>OBSTRUCTION AT THE GATE</u>:

i) If the Gate is broken by a road vehicle which is fouling the track, or if lifting barriers or any other part of the Gate foul the track, or if there is any other obstruction at the Gate, the Gateman shall Immediately fix red banner flag by day and red lamp by night on posts provided at both ends of the Gate for this purpose.

ii) Immediately after this, the Gateman shall advise the Station Master/ BGBR on duty regarding the defects/obstruction at the Gate under exchange of private number.

iii) Stationmaster at BGBR on duty shall be advised to put the departure signals back to 'ON' position, if taken 'OFF' for a train.

iv) If there is no response from the Station Master / BGBR after two or three attempts, he shall first protect the Gate and then inform him on phone.

v) Gateman shall then rush with detonators and red flag by day and red hand signal lamp by night in the direction of the approaching train and protect the Gate as stipulated in General Instruction for duties of Gateman under item No.3.4. (5).

vi) Thereafter he shall protect the Gate from the other direction also.

vii) He shall note down the particulars of the road vehicle, name of the driver, owner and relay these details to the Station Master/ BGBR who shall not allow the trains unless he has been assured by the Gateman that the road vehicle or the lifting barriers are not fouling the track.

viii) The Station Master/ BGBR shall also inform the station Master/KMK, under exchange of private number, asking him not to despatch any train into the block section from his end, until the track has been cleared of all obstructions.

ix) After the track has been cleared of all obstructions the Gateman shall inform the Station Master/ BGBR accordingly under exchange of private number.

x) Gateman shall secure the Gate against road traffic by means of safety chains and padlocks and thereafter exhibit green hand signal, if the Gate is not obstructed.

xi) Station Master/ BGBR shall advise maintenance staff responsible for maintaining the lifting barriers Gates to repair the same at the earliest.

xii) Normal working will be resumed only after maintenance staff rectify the defective lifting barriers and issue reconnection/fit memo for the same.

6. **<u>OBSTRUCTION ON THE TRACK NEAR LEVEL CROSSING GATE</u>**:

If there is a rail fracture of obstruction on the track due to falling of a tree, fouling by road vehicle or derailment, which is visible to the Gateman, the Gateman and Station Master/ BGBR will adopt the procedure given under item No.5 above. If the obstruction fouls the level Crossing Gate, Gateman must keep the Gates closed against road traffic till the track is cleared of obstructions.

4.0 GATE WORKING INSTRUCTIONS OF "C" CLASS ENGG. NON-INTERLOCKED LEVEL CROSSING GATE (NO-RV-59) AT KM 91/2 BETWEEN KMK & BGBR STATIONS.

4.1 GENERAL INSTRUCTIONS:

4.1.1 DESCRIPTION OF THE LEVEL CROSSING GATE:

1.	Number of Level Crossing Gate: -	RV-59.
2.	Engineering or Traffic Gate: -	Engineering.
3.	Under control of Station Master/PWI:	PWI.
4.	Location KM	(91/2)
5.	At. Station: -	---.
6.	In between stations: -	BGBR-KMK
7.	BG/MG/NG: -	BG.
8.	Single line/Double line/Multiple line: -	Single Line.
9.	Normal Position: -	Closed to road traffic.
10.	Interlocked/Non Interlocked: -	Non-interlocked.
11.	Means of interlocking: -	NIL.
12.	Provision of Gate signal at Kms.	(i) Up line -NIL (ii) Dn line - NIL
13.	Signalling arrangement: -	NIL.
14.	Means of Communication:	Telephone connection from Gate Goomty to SM office/ KMK.
15.	Width of level crossing Gate: -	7.50 Meters.
16.	Type of road. (NH/SH/Others): -	Others
17.	Name of Road: -	Molimunda-Fulwari road.
18.	Metaled/Non-Metaled:	Metaled
19.	Approach Road: -	C.C.Block
20.	Width of the road: -	5.50 m.
21.	Angle of road crossing (In case of the skew Gates)	----
22.	Road gradient (If any)	(i) North/East side.--Level. (ii) South/West side.- Level
23.	Road alignment (Straight/Curve): -	(i) North/East side. Straight. (ii) South/West side. Straight.
24.	Provision of height gauges: -	Not Provided
25.	Type of Barriers: -	winch Operated Lifting barriers.
26.	Length of check rails: -	9.5 Meter.
27.	Road surface in between Level Xings Gates: -	Hexagonal blocks.
28.	Length of speed breakers: -	7.50 Meters.
29.	Road signs: -	Available
30.	Speed breaker indication board: -	Provided.
31.	TVU: -	3733 on 01/2010.
32.	Census next due on: -	01/2013.
33.	Demarcation for placement of Detonators: -	Displayed.
34.	No. of Gateman working: -	02.
35.	Nearest Railway Medical Assistance: -	MSMD.
36.	Nearest Private Medical Assistance available (if any)-	KMK.
37.	List of equipment available Yes//No: -	Yes.

4.2. EQUIPMENT:

	ITEMS	QUANTITY/NUMBERS
1.	Hand signal Lamp Tri Colour Torch	3 (5 on Quadruple/Line or twin single line)
2.	Hand signal Flag Green	1 mounted on sticks
3.	Hand Signal Flag Red.	3 (6 on Quadruple/line or Twin single line & 7 in case Hexable section mounted on sticks)
4.	Banner Flag Red	3 (5 on Quadruple/Line or twin single line)
5.	Posts for exhibiting red banner flag	2 (4 on Q/Twin single line and 5 on Hexable section.)
6.	Spare chains with padlocks	2 with stop mark
7.	Detonators	10 in tin case
8.	Gate Lamps	2
9.	Tommy Bar	1
10.	Motor Pan	1
11.	Spade/Fowrah	1
12.	Rammer	1 (in case of asphalted road this may not be provided)
13.	Pick Axe	1 (in case of asphalted road this may not be provided)
14.	Tin case for flags	1
15.	Can for oil	1
16.	Water pot/Bucket	1
17.	Canister for Muster Roll	1
18	Set of spare spectacles of Gateman Wearing glasses.	1
21.	Board demarcating protection of level crossing Gate diagram in case of obstruction on Gate .	1
20.	Basket	1
21.	Whistle	1
22.	Wall clock	1
23.	Small size chains with padlocks to be used in case failure of gate boom lock.	02

4.3 **THE GATEMAN SHALL BE PROVIDED WITH FOLLOWING REGISTERS: -**

i) Gate working instructions in Hindi / English.
ii) Gate working instructions in local vernacular language.
iii) Gateman Rule Book in Local vernacular language.
iv) List for tools and books.
v) Duty Roster.
vi) Certificate for working as gateman.
vii) Bio–Data particulars of Gateman, including date of passing vision test, initial/refresher course, safety camp etc.
viii) Accident Register.
ix) Records of last census of road traffic at level crossing gate.
x) Public complaint Book.
xi) Inspection Book.

4.4 DUTIES OF GATEMAN:

1. **ALERTNESS:** The gateman on duty shall be alert. He should be prepared to take immediate action, when danger is apprehended. Keys of the gate shall be in his personal custody.

2. **POSITION OF GATE KEEPER DURING PASSAGE OF TRAINS:**

During passage of trains, gateman will stand in the manner indicated below:

i) Gateman will stand attentively in front of the gate – lodge facing the approaching train.
ii) In daytime, gateman shall hold red and green flags furled up on separate sticks in right and left hands respectively.
iii) In nighttime, gateman shall hold lighted hand signal lamp with white light facing the track.
iv) He shall keep the whistle slung around his neck from a cord.

3. **ROUTINE DUTIES OF GATEMAN:**

i) Gateman shall ensure that red banner flag by day and red light by night is placed across the track whenever the gate is kept in open condition for passage of road vehicles.
ii) Gateman shall ensure that all gate lamps and hand signal lamps are lighted and kept burning continuously from sunset to sunrise.
iii) Gateman shall perform his duties strictly according to the duty roster and shall not leave the gate unless his reliever arrives and takes over charge from him. However, if it is necessary to leave the gate in an emergency, he must close and lock the gates against road traffic, before leaving the gate.
iv) Except where otherwise prescribed under special instructions, he shall observe all passing trains and be prepared to take such action as may be necessary to ensure safety of trains.
v) Gateman shall watch all passing trains and keep sharp look out for any unusual like hot axle, hanging chains, hanging battery, any vehicle/wagons /trains/battery/box on fire, shifted load, falling material like brake blocks, brake beams, safety bracket, vacuum cylinder or any other situation endangering safe running of trains.
vi) Gateman shall also be prepared to repeat any signal which guard may give to Loco Pilot on walkie – talkie or in any other way.
vii) If lifting barriers get damaged or becomes out of order, the gateman shall use the spare chain with disc and padlocks for securing the gate against road traffic.
viii) Gateman shall report to the nearest Station Master, Gangmate or Permanent Way Inspector any defect in his gate or apparatus pertaining to it, as soon as possible.
ix) Gateman shall wear badge and prescribed uniform while on duty at level crossing gate.
x) Gateman shall ensure that he is having competency certificate in his possession while on duty.
xi) Gateman shall work the gate as per gate working instructions and remain well conversant with these instructions.
xii) Gateman shall ensure that equipment supplied at the gate is in good order and ready for immediate use.
xiii) Gateman shall see that the channel for the flange of the wheel is kept clear.
xiv) Gateman must keep the road surface well-watered and rammed in case of unmetalled roads.
xv) Gateman must be vigilant to see that inconvenience to road users due to closure of gates should be to the minimum possible extent.
xvi) Gateman shall prevent tress passing by persons or cattle to the maximum extent.

4. **ACTION IN CASE OF UNUSUAL OCCURRENCE OF TRAIN.**

In case gateman observes anything unusual with a passing train, he shall take following action:

i) He shall take prompt action to warn the Loco Pilot/guard of the passing train by showing red flag by day and red light by night.

ii) He shall simultaneously try to draw the attention of the Loco Pilot/guard by whistling continuously, shouting, gesticulating, and throwing ballast on the brake van or by any other means.

iii) If Loco Pilot/guard fails to take notice, gateman shall immediately inform the station Master to take appropriate action, under exchange of private number.

iv) In case of train parting, gateman shall not show stop hand signal but shall show prescribed signal for train parting.

v) He shall endeavor to attract the attention of the Loco Pilot/Guard by whistling continuously, shouting, gesticulating, and by raising both hands vertically above, quickly parting them and bringing them together in repeated Up and Down motion as high and as low as possible.

vi) In case the train does not stop, gateman shall immediately inform the Station Master to take appropriate action, under exchange of private number.

5. **ACTION IN EMERGENCY AT THE LEVEL CROSSING:**

i) In case of an obstruction at the level crossing gate, he shall place banner flag/red light lamps on the stave on track at 5 m. away from the edge of the road at Level Crossing.

ii) Thereafter, if he is unable to remove the obstruction, gateman shall immediately advise the Station Master on duty, regarding the defects/obstructions at the gate, under exchange of private number.

iii) If there is no response from the Station Master after three attempts, he shall first protect the gate and then inform on phone.
The gateman shall protect the line as under: -

(A) THE GATEMAN SHALL PROTECT THE LINE AS UNDER: -

i) Gateman shall plant a red banner flag by day and a red light by night 5 meters away on posts duly provided for the purpose. He shall first protect the direction from which a train is expected to arrive first.

ii) Then he will similarly plant the other red banner flag by day and red light by night towards the other direction 5 meters away from the site of obstruction.

iii) Gateman shall then proceed to protect the gate along with detonators and red flag by day and red hand signal lamp by night.

iv) Gateman shall proceed exhibiting red flag by day and red hand signal lamp by night towards the direction which a train is excepted to arrive first, to a point 600 meters and place one detonator on the line. Thereafter he shall proceed to a distance 1200 meters from the level crossing gate and place 3 detonators on the track in 10 meters apart. Having thus protected the line he shall return to the level crossing gate picking up the intermediate detonator on his way back which was placed at boom.

v) Thereafter, he shall proceed towards the other direction, showing red hand signal, similarly place detonators as described in (iv) above and return to the site of obstruction, picking up the intermediate detonator on his way back.

vi) Having returned to the gate, he must then take steps to remove the obstruction and warn the driver of the approaching train.

vii) In case the gateman observes or hears a train approaching when he is still on his way to protect and before he reaches the stipulated distance to place detonators, he shall place detonators on the line at a distance as far away as he can go.

viii) Thereafter, he shall stop the approaching train by waving his red flag by day, red hand signal lamp by night repeatedly.

(B) <u>OTHER ACTIONS TO BE TAKEN BY GATEMAN</u>:

i) At night Gateman shall light two hand signal lamps and take action to exhibit red light and protect the lines as described in sub paras (a) and (b) above.

ii) If the gate is broken by a road vehicle, which is fouling the track, or if lifting barriers or any other part of the gate foul the track, or if there is any other obstruction at the gate, the gateman shall take immediate action.

iii) He shall note down the particulars of the road vehicle, vehicle number, name of the driver, owner and relay these details to the Station Master/ KMK and Permanent Way Inspector regarding the particulars and obstructions at the level crossing gate, through messenger or other means available.

4.5 ENGINEERING ITEMS:

Visibility: -

Direction	Side	Visibility Distance
UP	Right	1000 m.
	Left	1000 m.
DN	Right	1000m
	Left	1000 m.

i) Speed Breaker: - Speed Breakers of approved design are provided on either side of this Level Crossing gate.

ii) Periodical Census of traffic has been taken and the latest TVU is 3733 on 01/2010.

4.6 <u>SPECIAL INSTRUCTIONS:</u>

1. <u>MODE OF OPERATION</u>: This is a Manned & Non-interlocked Engineering L.C.Gate situated at Km 91/2 in between BGBR-KMK Stations. This gate is provided with winch operated coupled lifting barriers and the gate is closed/opened by the gateman manually by winch operation. Telephone communication is provided between the L C. gate lodge with SM office of KMK station. The level crossing gate is normally kept closed and locked against road traffic. The Station Master/ KMK shall not permit any train to enter the block section, unless he is assured of the closure and locking of the gate by the gateman supported by exchange of private number. When the gateman desires to open the gate for passage of road traffic he should ensure that no PN has been exchanged with the Station Master/ KMK for the passage of train or the whole of the train with last vehicle indicator has passed over the level crossing gate for which the gateman has exchanged private number with the SM/ KMK. Before opening the gate for road traffic, he shall display banner flag/danger signal at either side of the track at a distance of 5 meters away from the gate.

2. <u>EXCHANGE OF PRIVATE NUMBERS</u>.

(i) The normal position of level crossing gate being “Closed to Road Traffic” it should always be in closed condition against road traffic, except when, it is opened for passage of road traffic over the level crossing, subject to conditions prescribed below.

(ii) The Station Master / KMK before permitting each train to enter into the block section, shall ask Gateman on the telephone by giving a Private Number whether, gate is closed against road traffic for the passage of train. The Gateman only after ensuring that the gate is actually closed and locked against road traffic shall give a Private Number to the Station Master / KMK in assurance of gate being closed and locked against road traffic.

(iii) The Station Master / KMK shall not permit any train to enter the block section, unless he is assured of the closure and locking of the gate by the gateman supported by exchange of private number.

(iv) When the gateman desires to open the gate for passage of road traffic he should ensure that:

(1) He has not exchanged any private number with the SM / KMK as per (ii) above.

(2) If he has exchanged private number with the Station Master / KMK, the whole of the train with last vehicle indicator has passed over the level crossing gate and Station Master / KMK has not exchanged private number with him for any other movement immediately in rear of the train.

Before opening the gate for road traffic, he shall display banner flag/danger signal at either side of the track at a distance of 5 meters away from the gate. Then he shall open the gate for passing the road traffic, keeping a red flag / red hand signal lamp ready in his hand to stop approaching train if any.

(v) In case the Gateman is not responding on the telephone or in case the telephone becomes defective or private number is not received from the Gateman, the Station Master/ KMK shall adhere to the procedure prescribed in SR 16.03.04.

(vi) In the event of failure of telephone, if the gate is required to be opened for the passage of road traffic, the gateman shall look out in both directions before opening the gate to ensure that no train is approaching from either end. He shall then plant a banner flag during day and a hand signal lamp with the red light during night, 5 meters away from the gate on the track on either side. He will thereafter, open the gate for passing the road traffic keeping a red flag / red hand signal lamp ready in his hand to stop approaching train if any.

3. <u>FAILURE OF TELEPHONIC COMMUNICATION</u>:

When Telephonic Communication fails or SM/ KMK does not get any response from the Gateman despite 2 or 3 attempts, the following procedure shall be adopted:

1. SM/ KMK shall serve a caution order to the Loco pilot and the Guard of every train proceeding into the affected section giving the number and kilometreage of the level crossing and directing the loco pilot:-
   (i) To whistle frequently to attract the attention of the gateman,
   (ii) To proceed cautiously, and stop 30M. short of the level crossing and be guided by hand signal.
2. (i) The Loco Pilot after stopping, if the gateman is available and apparently in a fit condition to continue his duty and the gates are closed, shall arrange to advise the station master / KMK as the case may be of the fact using the telephone provided at the gate. The Station Master/ KMK on receipt of such an advice from the Loco Pilot shall discontinue issue of caution order to the following trains provided the acknowledgement of the gateman is available over the telephone.
   (ii) In the above circumstance, the Loco Pilot should not stop his train at the next station to advise the Station Master.

3. (i) If the loco Pilot does not find the gateman at the level crossing or if the gateman is apparently unfit for duty and the gates are not closed, he shall depute his Assistant, the Loco Pilot shall seek assistance of the Assistant Guard or Guard of the train. The same should be informed to the Station Master/ KMK on gate telephone.

(ii) The Loco Pilot, after being hand signaled, shall pass the level crossing and stop clear of it by at least 2 bogie lengths to pick up the Assistant or Assistant Guard / Guard, as the case may be. The Railway servant deputed for closing the gate shall reopen it for road traffic after the passage of the last vehicle of the train.

(iii) If, however, the telephone is out of order or the gateman is not available or is apparently unfit to continue his duty and intimation of the fact could not be given to the station/ KMK from the gate, the Loco Pilot shall stop his train at the next station (even if it is through passing station) and give a memo to the Station Master/BGBR indicating the condition of the gateman, gate and telephone.

(iv) The Station Master/ KMK on receipt of the Loco Pilot's report regarding absence or unfitness of the gateman, shall advise the station Master/ BGBR, the Notice Station, the Section Controller, JE/SE/SSE (P.Way) and AEN concerned and the Gangmate of the nearest gang for immediate posting of a gateman. He shall also inform the maintenance staff to attend and repair the telephone, if required. Issue of caution order should continue till normal working condition is restored.

4. Before giving line clear to a train, the Station Master/ KMK shall advise the Station Master/ BGBR of the facts by message supported by a Private Number, and obtain his acknowledgement with a Private Number. The latter shall issue a caution order to the Loco Pilot as detailed in Para (a).

5. Necessary entries shall be made in the Caution Order Register, Station Diary or Signal Failure Register as the case may be by Station Masters at either end of the affected station. The Section Controller shall also keep a note in his chart indicating the action taken by him.

4. <u>FAILURE OF LIFTING BARRIERS</u>:

i) When the Gate cannot be closed due to failure of lifting barriers, The Gateman will immediately inform the Station Master on duty/ KMK, under exchange of Private number, and ensure that lifting barriers do not foul the track.

ii) He shall immediately fix red banner flag by day and red light by night on the post at that end first from which the train is approaching and then at the other end.

iii) Gateman shall secure the Gate against road traffic by means of safety chains and padlocks.

iv) After securing the Gate against road traffic, he shall show green hand signal flag by day and green light by night to the Loco Pilot of an approaching train.

v) Station Master on duty/ KMK shall issue caution order to the Loco Pilot of departing UP train.

vi) SM/ KMK shall also advise the Station Master/ BGBR at the despatching end, under exchange of private number, to similarly issue a caution order to the Loco Pilot before despatching a train into the block section from his end.

vii) SM/ KMK should also advise maintenance staff responsible for maintenance of the lifting barriers to rectify the defect at the earliest.

viii) Normal working will be resumed only after maintenance staff rectify the lifting barriers and issue reconnection/fit memo for the same.

5. OBSTRUCTION AT THE GATE:

i) If the Gate is broken by a road vehicle which is fouling the track, or if lifting barriers or any other part of the Gate foul the track, or if there is any other obstruction at the Gate, the Gateman shall Immediately fix red banner flag by day and red lamp by night on posts provided at both ends of the Gate for this purpose.

ii) Immediately after this, the Gateman shall advise the Station Master/ KMK on duty regarding the defects/obstruction at the Gate under exchange of private number.

iii) Stationmaster at KMK on duty shall be advised to put the departure signals back to 'ON' position, if taken 'OFF' for a train.

iv) If there is no response from the Station Master / KMK after two or three attempts, he shall first protect the Gate and then inform him on phone.

v) Gateman shall then rush with detonators and red flag by day and red hand signal lamp by night in the direction of the approaching train and protect the Gate as stipulated in General Instruction for duties of Gateman under item No.4.4. (5).

vi) Thereafter he shall protect the Gate from the other direction also.

vii) He shall note down the particulars of the road vehicle, name of the driver, owner and relay these details to the Station Master/ KMK who shall not allow the trains unless he has been assured by the Gateman that the road vehicle or the lifting barriers are not fouling the track.

viii) The Station Master/ KMK shall also inform the station Master/ BGBR, under exchange of private number, asking him not to despatch any train into the block section from his end, until the track has been cleared of all obstruction.

ix) After the track has been cleared of all obstructions the Gateman shall inform the Station Master/ KMK accordingly under exchange of private number.

x) Gateman shall secure the Gate against road traffic by means of safety chains and padlocks and thereafter exhibit green hand signal, if the Gate is not obstructed.

xi) Station Master/ KMK shall advise maintenance staff responsible for maintaining the lifting barriers Gates to repair the same at the earliest.

xii) Normal working will be resumed only after maintenance staff rectify the defective lifting barriers and issue reconnection/fit memo for the same.

6. OBSTRUCTION ON THE TRACK NEAR LEVEL CROSSING GATE:

If there is a rail fracture or obstruction on the track due to falling of a tree, fouling by road vehicle or derailment, which is visible to the Gateman, the Gateman and Station Master/ KMK will adopt the procedure given under item No.5 above. If the obstruction fouls the level Crossing Gate, Gateman must keep the Gates closed against road traffic till the track is cleared of obstructions.

A P P E N D I X - 'B'

DETAILS OF SIGNALLING AND INTERLOCKING INSTALLATIONS, INSTRUCTIONS FOR WORKING THEM NORMALLY AND IN EMERGENCIES ETC. INCLUDING THE POWER SUPPLY ARRANGEMENT

1.1 **BRIEF DESCRIPTION OF THE SIGNALLING AND INTERLOCKING INSTALLATIONS:-** This is a 'B' class station with standard – III interlocking (with isolation). There are two end cabins for operating points and signals at either end of the yard and the station is equipped with manually operated Two Aspect Lower Quadrant semaphore signalling with relevant SMs controls.

1.2 IRS catch handle type lever machines with rod worked points and locks are installed at East cabin (26 Levers) and West cabin (26 Levers). These levers shall operate points, point locks, slots, key control, gate and signals etc.

2.0 **POINTS & LOCKS & INTERLOCKING BETWEEN BLOCK INSTRUMENTS AND SIGNALS:**
Facing points are fitted with plunger type locks with lock bars and electrically / mechanically detected by the relevant signals. The Home signals, Adv. Starter signal, slide control governing block section must be in the normal position while handling the Block instrument of the section concerned. The Advanced starter signals are controlled by the Block instruments and Home Signals are also interlocked with block instruments of respective section as per BWM 4.32 .

3.0 **INDICATIONS IN THE CABIN: -**
Miniature indicators are provided in the cabin for electrically slotted signals i.e. Home and Adv. Starters Signals to indicate the cabinman when the signals are to be taken off. Every signal also has got an indicator to show whether it is burning or not in the form of backlight. Indications are also provided for the track circuits between last trailing point & advanced starter (excluding lock bar portion) and Adv. Starter replacement track circuit. Indicators are also provided for fouling mark to fouling mark track circuit on Main line and loop lines in SM's room.

4.0 **SLOT CONTROL: -**
Each cabin is provided with slot levers to control the home signals operated by the other end cabin. The cabin man at the other end can put back the home signals in case of emergency by normalising the slot lever.

5.0 **TRACK CIRCUITS: -**
The station is provided with track circuits on Main line between UP & DN Main line starters i.e. MLT1 & MLT2 and in advance of UP & DN main line starters i.e. 5T (W&E) at either end on Main line. Track circuits are provided on each loop line i.e.L1T1, & L1T2 on loop line No-1 & L2T1, L2T2 & L2T3 on loop line No-2. Track circuits are also provided from last trailing point to Advanced Starter on both sides of the yard i.e. 8T, 8T1, 14T, 14T1 (East End) and 8T,8T1,15 T1 & 15T (West End) of the yard.. The 5T, 14T on West side and 5T,6T on East side are point zone Track circuits. Starter signals and Advanced Starter signals of both ends are replaced to 'ON' through the respective track circuits on both sides of the yard.

6.0 UP Starter signals are controlled through track circuits No. 14T, 14T1 & 6T & DN Starter signals are controlled through track circuits No. 15T, 15T1 & 14T are replaced automatically to ON position on occupation of replacement track at respective end. UP & DN Adv. Starter signals. No. 8 are controlled through track No. 8T is replaced automatically to ON position on occupation of 15T on either side. UP & DN main line starter signals are replaced automatically to ON position on occupation of 5T (East end) and 5T West end) on either side. UP & DN Main Line Home signals are replaced automatically to ON position on occupation of 14T, 14T1, MLT1, MLT2, L1T1, L1T2, L1T1, L2T1, L2T2, L2T3 & 5T from either side.

7.0 **SM'S SLIDE CONTROL MACHINE: -**

In the SM's Office, there is an electrical slide control machine (with 12 slides) to control all UP and DN Home signals , Advance Starters & Warner with a locking arrangement. The SM on duty can put back the Home signal or Advanced Starter and Warner signals in case of emergency by normalising the concerned slide. The key of the slide control machine must be in personal custody of the SM on duty.

8.0 **INTERLOCKING WITH BLOCK INSTRUMENTS AND SIGNALS**: -

UP and DN reception and despatch signals are provided with track circuits in rear of the signals to replace the signals to 'ON' position after the passage of the train past the signal.

9.0 **SIDING:**

A Goods siding of 300 M (CAL) is connected to line No.3 at east end of yard with both side entrances. The entrance points and corresponding derailing switches are coupled and operated by the levers at site. The entrance points are provided with hand plunger locks. These locks are released by keys extracted from Lever No. 9 of East Cabin and lever No. 10 of West cabin in its reversed position. When lever No.9 of East cabin is reversed, DN reception signal, UP starter and slot levers and slot levers for line No.3 at East cabin are held locked in their normal position. When lever No.10 of West cabin is reversed, UP reception signal, DN starter and slot levers and slot levers for line No.3 at West cabin are held locked in their normal position.

10.0 **DESCRIPTION OF LEVERS IN WEST CABIN**: -There are 26 levers in the West cabin (IRS Catch handle type) and their individual functions are detailed below:-

Lever No.	Function of Levers
1.	Slot for DN Main Home
2.	Slot for DN loop home for line No .1.
3.	Slot for DN 2nd loop Home
4.	Spare
5.	DN Main Starter
6.	DN 1st Loop Starter
7.	DN 2nd loop Starter
8.	DN Adv. Starter
9.	Spare
10.	Siding key control
11.	Lock bar for cross over point No. 12 (East end)
12.	Cross over point between main line & 1st loop
13.	Lock bar for cross over point No. 14 (East end)
14.	Cross over point between main line & 2nd loop
15.	Lock bar for cross over point No.12 & 14 (West end)
16.	Spare
17.	UP 2nd loop Home signal
18.	UP 1st loop Home signal
19.	UP main home Signal
20.	UP Outer signal
21.	UP Warner Signal
22.	Spare
23.	Spare
24.	Spare
25.	Spare
26.	Spare

10.0 **DESCRIPTION OF LEVERS IN EAST CABIN :**

There are 26 levers in East Cabin (IRS Catch handle type) and their individual function is detailed below: -

Lever No. -	Function of Levers
1	Slot for UP Main home
2	Slot for UP 1st loop Home
3	Slot for UP 2nd loop Home
4	Spare
5	UP Main Starter
6	UP loop Starter for line No .1.
7	UP loop starter for line No .3.
8	UP Advanced. Starter
9	Siding control key
10	Lock bar on cross over point No. 11 (West end)
11	Cross over point between Main to 2nd loop
12	Lock bar on cross over point No. 13 (west end)
13	Cross over point between the main and 1st loop
14	Lock bar on cross over point No. 11 & 13 (East end)
15	Spare
16	LC gate control key.
17	Down 2nd Loop Home signal
18	Down 1st Loop Home signal
19	DN Main Home signal
20	DN Outer signal (Motor operated)
21	DN Warner signal (Motor operated)
22	Spare
23	Spare
24	Spare
25	Spare
26	Spare

12.0. **STATION MASTER'S CONTROL SLIDE: -** There are 12 slides in SM's slide control machine and the individual function is detailed below: -

Slide No.-	Function
1.	UP Warner
2.	UP Main Home
3.	UP 2nd loop Home
4.	UP 1st loop Home
5.	UP Adv. Starter
6.	Spare
7.	Spare
8.	DN Adv. Starter
9.	DN 2nd Loop Home
10.	DN 1st Loop Home
11.	DN Main Home
12.	DN Warner

13.0 **PLACING OF LEVER COLLARS AND SLIDE COLLARS: -**

Lever collars and slide collars are to be placed on the respective levers and slides, whenever running lines are other wise blocked vide SR 5.04.01 and SR 3.36.03

Line No.	East Cabin			West Cabin			Slide collars to be placed on SM's slide.
	Home signal	Point lever	Slot lever	Home signal	Point lever	Slot lever	
1	18	13 N	2	18	12 N	2	4 & 10
2	19	13 R	1	19	14 R	1	11& 2
3	17	11 N	3	17	14 N	3	3 & 9

The above chart shall be exhibited in both the cabins and SM's office vide OM 20.04(1).

14.0 **MAINTENANCE OF S&T INSTALLATION AND ADHERENCE TO MAINTENANCE SCHEDULES**:-

(a) The regular maintenance of the S & T installations and adherence to the schedules of maintenance as also the mandatory schedules of testing of points, signals, lever machines, level crossing gates, the associated interlocking apparatus, i.e cables and finally the interlocking function tests is a must for the safe and satisfactory working of the installations at this station.

(b) The tests, checks and replacement etc. including overhauling shall conform to the schedules of maintenance as indicated in the signal engineering manual as also in the current and extant instructions / circulars on the subject.

15.0 **PROCEDURE TO BE FOLLOWED INCASE OF FAILURE OF A SIGNAL & INTERLOCKING INSTALLATION: -**

Whenever there is a failure of points, track circuits, signals or any other interlocking gear at the station which includes level crossing gate (s) if any etc. the failure report should be communicated by the SM on duty through a memo to the signal maintainer and the signal inspector of the section along with others as per SR 3.51.04 and 3.68.04 and the SM shall document all such transactions.

16.0 **INSPECTION OF POINTS BEFORE DECLARING THEM DEFECTIVE: -**

However, before declaring a point as defective, the setting of the point on the route to which it applies, shall be inspected by the station master/ cabinman irrespective of the position of the point levers and lock levers in terms of SR 3.68.01 (c).

17.0 **RECTIFICATION AND CHECK BEFORE RESUMING NORMAL WORKING: -**

It is only after receipt of failure information, the Signal maintainer (Elect. Or Mech.) shall attend to the failure after giving disconnection memo. After rectification of the fault, the signal maintainer shall give a reconnection memo detailing the rectification and the station master on duty before acknowledging such memo shall test the signal and satisfy himself that the signal is in proper working order. Thereafter the SM shall resume the normal working of the said defective gear in terms of SR 3.68.04 (c) and (d).

18.0 **ROCEDURE FOR CARRYING OUT PLANNED MAINTENANCE WORK :-**

Whenever any normal maintenance or special works for heavy renewals etc. are involved, these works should be pre-planned by the Signal and Telecom field staff and the inspector of the section should give to the station master in writing advance intimation about this planned work in terms of SR 15.08.01.

19.0 **EMERGENCIES: -**

When a gear is found to be defective and unsafe for passage of trains, Signal & Telecom staff must at once suspend the working of that gear and the associated installations and issue suspension memo explaining the seriousness of the defect/ damage to the interlocking installation to the Station master and take station master's acknowledgement. After this, the Signal & Telecom staff shall issue disconnection memo and carry out the work. The station master must promptly act on such messages and take adequate precaution treating the concerned S&T installation as defective and pass trains over the affected interlocking gears according to the procedure contained in GR 3.68 & 3.77. When the defect is rectified, the official of the signal department shall issue a reconnection memo as a certification for rectification of the defect.

20.0 **LIGHTING OF SIGNAL LAMPS AND THEIR MAINTENANCE :-**

(a) The station master on duty must ensure that all signal lights including stop boards, level crossing gate(s), if any are lighted and extinguished according to timings given in the GR & SR vide para 3.49 and SRs thereto.

(b) The station master on duty at 0.00 hrs. (2^{nd} night shift) must also ensure that all the signal lights are burning properly. This fact must be recorded in the diary under separate entry and confirm to the section controller on duty as per the instructions contained in Divisional Safety circular No. 82/82 dtd. 3.5.82.

21.0 **CORRECTING TIME IN STATION CLOCK: -**

The station master shall set the time on his clock according to the time signal given by the section controller on duty at 16.00 hrs. every day according to SR 4.01.01 and 4.01.02.

22.0 **BASEMENT / RELAY ROOM KEY: -** Mentioned in main SWR.

23.0 **NORMAL POWER SUPPLY: -**

The Electro – mechanical signal installations at this station work with banks of primary / secondary cells installed at several places.

The secondary cells are charged from the local power supply source at 230 V – single phase. The batteries once charged will normally last for about three days. There is no standby power supply at this station.

23.1 POWER FAILURES AND REPORTING SUCH FAILURES: -

The station master must however, maintain the record of the power failures and must promptly report the failure immediately to the controller and to the concerned Elect. and S & T staff.

24.0 **SUSPENSION OF LAST STOP SIGNAL**:-

When the block instrument is suspended with in 'TRAIN GOING TO' position for whatever reasons ,the concerned last stop signal controlled by the Block instrument must be treated as suspended and trains shall be worked on paper line clear ticket.

25.0 TELECOMMUNICATION FACILITIES: -

i) Telephone with attached with single line token less Block Instrument for either side Block Section.

ii) Station to Station fixed telephone (Hot line) is provided

iii) Station is provided with Auto telephone connected with Railway Exchange

iv) BSNL telephone is provided.

v) The station is connected to Raipur-Titlagarh control circuit by a control telephone.

vi) Station to station 25 Watt VHF communication is provided.

vii) Magneto Telephone connection is provided with Station & both end Cabins.

viii) Magneto Telephone connection is provided with Station & Engg.L.C.gates No.RV-59 at KM 91/2.

Note: (i) For obtaining line clear, VHF should be used as a last alternative and not as a sole means of communication.

(ii) VHF and Walkie Talkie sets should not be used for unnecessary discussions with Drivers, Guards or any other staff.

(iii) The on duty SM shall use the above electrical communication instruments stated in Para-25.0 from item No. (i) to (vi) strictly in order of preference for obtaining / granting line clear vide SR 14.01.01. In case of failure of any of the above means of communication the SM on duty shall work vide SR 6.02.06.

26.0 FAILURE OF COMMUNICATION / FAILURE OF BLOCK INSTRUMENTS :

1) In the event of failure/suspension of Block instrument or Track circuit or Axle counters-

'Line Clear' shall be obtained on telephone attached to the block instrument or station to station telephone by exchanging Identification number and supported by private number as per GR 6.02.06 (a) and Chapter–III Part–I of Block Working Manual.

2) In the event of failure/suspension of Block instrument or Track circuit or Axle counters or telephone attached to the Block instrument or the Station to station fixed telephone-

'Line Clear' shall be obtained on Railway auto phone or BSNL phone, by exchanging Identification number supported by private number vide GR 6.02.06 (1)(b) and Chapter-III Part-I of Block Working Manual.

3) In the event of failure/suspension of Block instrument or Track circuit or Axle counters or telephone attached to the Block instrument or station to station fixed telephone or Railway auto phone or BSNL phone-

'Line Clear' shall be obtained on the control phone exchanging Identification number and supported by 'Private Number' vide GR 6.02.06(1) (c) and Chapter-III Part-I of Block Working Manual.

4) In the event of failure/suspension of block instrument or block telephone attached to the block instrument, or station to station fixed telephone or railway auto telephone or BSNL phone or Control telephone line clear shall be obtained on the VHF set exchanging ID number supported by PN provided that the instructions contained in SR14.01.02 are followed vide GR 6.02.06 (1)(d) chapter-III Part-I of Block Working Manual

5) In the event of total failure of all communications trains shall be worked vide SR 6.02.04**.**

27.0 FAILURE OF TELEPHONE COMMUNICATION BETWEEN SM'S OFFICE AND THE CABINS: **-** In the event of failure of telephone communication between SM's office and the cabins, manuscript messages shall be sent in duplicate. The receiving Cabin Man shall retain one copy for his record and return the other copy duly acknowledged as an assurance that all the necessary points in favour of the train and for the line nominated by the Station Master on duty have been correctly set and facing points locked, the over run line / sand hump and the line nominated is clear and free from all obstructions. These instructions shall be supported by a private number. For obtaining intact arrival of a stopping train also these manuscript messages shall be used. A specimen form is given in Operating Manual vide OM 20.04 (9) (G).

A P P E N D I X - 'C'

ANTI COLLISION DEVICE (RAKSHA KAVACH)

NIL

A P P E N D I X - 'D'

1. **STATION SUPERINTENDENT (IN-CHARGE)**:

He is the over all In-charge of the station; He is responsible for the efficient discharge of duties devolving upon all the Staff employed at the station whether permanent or temporary according to Station Working Rules, Manuals & safe working Instructions. He shall get himself well conversant with the detailed working of Station and panel, points and signals etc.,

He is responsible for maintaining the Assurance Register up-to-date. He shall conduct surprise night inspection and safety meetings/fire drills etc. as per instructions issued from time to time. He shall see that all the staff under his control working safely according to the rules in force.

He shall see that all signals, points, level crossing gates and the whole machinery at the station are in proper working order. He shall report all the defects to the concerned officials.

He shall satisfy himself that the staff employed under him are well conversant with Station Working Rules and perform their duties correctly. He is responsible for maintaining SWR, other Rule books and Assurance Register up to date.

He shall see that all safety records are maintained properly and all rules prescribed in G & SR, Block Working Manual, Operating Manual and other relevant directions issued from time to time by competent authorities are followed rigidly by all concerned and any irregularities if noticed are reported promptly to the authorities concerned.

He shall see that all accidents are promptly reported, attended to and GA-3 along with accident message is submitted to the concerned officers in time. He shall see that the staff is civil and helpful to all users of railway.

He shall frequently visit the platform, Panel Room, etc. in order to maintain an effective supervision over the said staff and their working. He shall see that station premises are kept neat and clean.

He is responsible for booking all staffs working under him for PME and Refresher Course / Safety camp in their due time. His Special attention is drawn out to chapter II of General and Subsidiary Rules and GR 5.01 to 5.08 with relevant Subsidiary Rules, Chapter – XXII of Operating Manual.

He shall see that all equipment, apparatus and instruments including signal and interlocking gears are in proper working order and all failures are promptly reported to officials concerned for repairs/rectifications.

He shall pay special attention towards passenger amenities & coaching trains punctuality and yard feasibility. He shall endeavor for minimizing detention to freight trains by judicious planning of trains staff. He shall pay attention to smooth functioning of goods train to eliminate detentions. He shall attend to all compliance by traveling/trading public.

He shall see that the law and order in the station area is taken care of with the help of G.R.P. and R.P.F and civil authorities as per need.

He shall ensure compliances of all Operating, Safety and Commercial records maintained at the station. He is responsible for overall supervision of the station.

His special attention is drawn to chapter No.II of G & SR (Amendment) 2000 and GR 5.01 to 5.08 with relevant SRs. He shall follow the instruction laid down in SR 3.68.01© & (d) and SR 14.07.01 and BWM 2.09 (e). He shall conduct surprise night inspection, safety meetings and fire drills. He shall maintain good public relation as well as look after passenger's amenities and be helpful to travelling public.

2. **ASSURANCE REGISTER:**
All staff before taking up independent charge of their duties at this station, shall make a written declaration in the assurance register that they have read and thoroughly understood the system in force and must sign such declaration.

No Railway servant shall be entrusted with any duty involving safety of the public unless the station in-charge is satisfied that the concerned staff is competent for the post. No Railway servant unless duly examined and certified shall be allowed to work the points and signals. The SS is responsible to see that all the staff are conversant with the Station Working Rules and their signatures are obtained in the Assurance register after he is satisfied that they have thoroughly understood the working rules of the station. In case of Group 'D' staff, their signature/thumb impression must be obtained after explaining fully about their duties and responsibilities.

3. The Station superintendent is responsible personally for maintaining the Assurance Register and for obtaining declaration of the staff working under him. The Assurance Register must be maintained in two parts, one for Group 'C' and the other for Group 'D' staff. A duplicate copy of the Assurance Register must be maintained and kept in personal custody of the Station superintendent.

4. The declaration shall be renewed in the following cases:-

(i) Whenever there is a change in the Station Working Rules.

(ii) For any staff who have not worked at the station or were away from the station for a period of 15 days or more.

5. **USE OF PRIVATE NUMBER BOOKS / IDENTIFICATION NUMBER SHEET**: - Sufficient Private Number books and I.D number sheets in sealed covers shall be kept always in the stock by Station Superintendent under lock and key. He shall maintain a register for this purpose.

6. **ACCIDENTS**: Accidents shall be reported and immediate action shall be taken by the Station Superintendent in charge in accordance with the instructions laid down in the Accident Manual. Whenever the Station Superintendent receives report of an accident, he shall take all necessary precautionary measures to protect the traffic and shall arrange earliest possible assistance as required at the site of accident. He shall frame the accident message/reports and follow up all safety principles without delay.

7. **TESTING OF POINTS AND SIGNALS**: The Station Superintendent shall test the working of the reception signals daily during the day when there is no train due to arrive/leave the station. He shall also test the working of points, crossings etc. and record the result in the Station Master's diary.

8. **STATION MASTER/ASSISTANT STATION MASTER**:
He shall work in 8 hrs. shift for train passing and booking of traffic. Coaching returns and other statements shall be prepared and submitted by him in time under the direction of the Station Superintendent in charge. He shall assist the SS in charge for the up keep of the station in all respects.

Station Master on duty who makes an entry in the train signal register must continue on duty till all the entries pertaining to the trains are completed vide Subsidiary Rule 14.07.01.

He is responsible for working beyond this period when called upon to do so in the exigencies of services. His special attention is drawn to Chapter II of General (Amendment) rules & SR 2000 and GR 5.01 to 5.08 with relevant SRs. As an Assistant to the Station Superintendent, he shall follow the instructions given to him by the Station Superintendent.

9. **HANDING OVER AND TAKING OVER CHARGE**:
The SS in charge/Station Master/Assistant Station Master on duty shall record in the diary the condition of all the running lines, the caution orders in force at the time of handing over charge. These entries must be counter signed by Station Master/Assistant Station Master coming on duty while taking over charge. This will not, however, relieve any one of the SS/SM of his responsibility to ensure by physical check that the nominated line is clear of all obstructions before admission of any train on it.

10. **CABIN LEVERMAN: -**
The on duty CLM/ LM'A' will observe all General rules, Subsidiary rules, Rules of Operating Manual, Block working Manual, Accident Manual, station working rules, other instructions and circulars issued from time to time and concerned to him. He shall have to keep a close contact with the Station Master on duty and take his permission in all train movement and obey his orders. He shall operate the levers of points, locks, slots and signals correctly and in proper sequence for safe and quick running of trains without detention at the stations and outside signals and for safe and early movement of shunting. He has to look into good maintenance of cabin and cleanliness of levers and correct maintenance of safe working transportation records which are concerned to him and provided in the cabin. He shall not allow any unauthorized person in the cabin and interfere with any signalling and interlocking gears and other apparatus. He shall report for duty in time and not to leave the cabin until properly relieved by a reliever or by a competent railway servant and report any defect, damage or deficiency of the Rly. Property to the Station Master on duty immediately. He shall not block a running line without the permission of the Station Master on duty supported by private number.

He must be thoroughly conversant with the GR 3.38, 3.46, 3.77(I), 5.09, 3.52 to 3.60, 3.62, 5.13, 5.15, 5.16, 5.21, 5.23 & SRs there to. He shall clear his doubts regarding safe working rules from SM/ASM.

11. **TRAFFIC POINTSMAN / TOKEN PORTER IS RESPONSIBLE: -** He shall work under the instructions of SM on duty and follow the GR 02.05 to 2.11 and other relevant rules laid down in GR and SR. He shall remain responsible for:

(i) Delivery of authority to proceed and caution order etc. to the driver of train.

(ii) Correct setting and locking and crank handling of points for reception/dispatch and shunting operation under the supervision of Station Master/Guard.

(iii) To couple and uncouple vehicles under the supervision of Station Master/Guard when shunting operation is in progress.

(iv) Piloting and hand signalling of trains when necessary.

(v) Knowledge of hand signals, detonators and their use.

(vi) Protection of line in emergency and fog signalling.

(vii) Exchange of signals with the Driver and Guard of passing trains as directed by the SM.

(viii) Cleaning, Oiling and lighting of lamps.

(ix) Loading/unloading of parcels, luggage, Guard boxes and packages to and from the train and watching the packages and other materials by properly stacking in the station premises.

(x) Dusting of station office, filling up the fire buckets with sand/water and getting train interact arrival register (T/1410) signed by the Guard as and when required.

(xi) Serving messages and any other duties entrusted to them by the SS/SM from time to time.

(xii) Uses of emergency crank handle for setting of points.

(xiii) To supervise shunting as per SR 5.13.03.

(xiv) They must be thoroughly conversant with the GR 3.38, 3.46, 3.77(I), 5.09, 3.52 to 3.60, 3.62, 5.13, 5.15, 5.16, 5.21, 5.23 & SRs there to and their special attention is drawn to chapter No.II of G & SR (Amendment) 2000 also.

8.0. **GENERAL**

i) A set of flags and tri colour hand signal lamps will be part of the essential equipment of the staff while on duty. He shall not leave the station except when required by the SM on duty or with his permission and shall comply with subsidiary rules 4.42.02(b) (i) and (d).

ii) Staff working at the station must be able to distinguish Up and Down line clear tickets and educated in distinguishing other operational forms and documents, delivered to Loco pilots & Guards and must also know how and when to ring the station bell.

A P P E N D I X – 'E'

LIST OF ESSENTIAL EQUIPMENTS PROVIDED AT THE STATION: -

The station is provided with the following essential equipments, which must always be kept properly and in good working condition for immediate use.

Srl No	Equipment	Station
1.	Detonator	10
2.	Hand Signal Lamps/Tri-Colour torch	4
3.	Hand signal flags	2 Set
4.	Sprags / wedges	6
5.	Clamps with pad locks	2
6.	Safety chains with pad locks	6
7.	Fire buckets	5
8.	First Aid Box	1
9.	Stretcher	1
10.	Blanket	1
11.	Fire extinguisher	1
12.	Lever Collars	Nil
13.	Slide Collars	06

ESSENTIAL EQUIPMENTS OF THE CABINS:-

Srl. No	Equipment	Quantity	
		East Cabin	West Cabin
1	Detonators	10	-
2	Hand signal lamp/Tricolour Torch	01	01
3	Hand signal flags	1 set	1 set
4	Clamps and padlocks	02	02
5	Lever collars	08	08
6	Banner flags with side props	02	-
7	Gate lamps	02	-
8	Gate chain with padlock	02	-
9	Padlocks for gate lamp	02	-
10	Staves for fixing hand signal lamp	02	-

NOTE : In addition to above, **East cabin** has been provided with registers and books for cabin operated LC Gate vide SR 16.02.04.

APPENDIX – 'F'

RULES FOR WORKING OF DK STATIONS , HALTS, IBH, IBS AND OUTLYING SIDINGS

NIL.

APPENDIX – 'G'

RULES FOR WORKING OF TRAINS IN ELECTRIFIED SECTIONS

NIL

R.Das
DSTE/SBP

D.Nayak
DOM(G)/SBP