

**EAST COAST RAILWAY**  
**SAMBALPUR DIVISION**

**STATION WORKING RULES OF DOIKALU STATION (CODE: DKLU)**

BG/MG/NG- BROAD GAUGE

Date of issue:-

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/WRD- 22018**

1.2 **SIGNAL INTERLOCKING PLAN NO.:** -                      **SI – 22018**

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 points number and signals when reporting accidents.

**2. DESCRIPTION OF STATION: -**

DOIKALU is a four-line station situated in Titlagarh – Vizianagaram section at KM. 275.255 from Raipur. It is Standard – III interlocked, 'B' Class station with central panel and block proving axle counter has been provided at either end of the section.

**2.1 GENERAL LOCATION:-**

2.1.1 **NAME OF STATION:** -                      DOIKALU (DKLU)

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

2.1.3 **NAME OF THE SECTION:** -                      Titlagarh – Vizianagaram, Double Line, Non-RE,  
BG section

2.1.4 **ROUTE:** -                      D Spl.

2.1.5 **LOCATION:** -                      275.255 km from Raipur.

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

- i) Raipur end - Ambodola (Code: AMB) inter distance 11.7 K.M.
- ii) Vizianagaram end - Muniguda (Code: MNGD) inter distance 13.3 K.M.
- iii) Passenger halt: - Nil
- iv) Flag station: - Nil

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- v) Outlying siding: - Nil
- vi) D.K. station: - Nil.
- vii) IBH: - NIL
- viii) IBS: - NIL

### 2.3 BLOCK SECTION LIMITS: -

| Between stations  | The point from which 'Block section' commences. |   | The point at which 'Block section' ends. |
|-------------------|---|---|--|
| Between DKLU-MNGD | DN Line   | Outer most facing point No-18A of DKLU station.   | DN Advanced starter signal of MNGD.      |
|                   | UP Line   | UP Advanced starter Signal No-13 of DKLU station. | Outermost facing point of MNGD station.  |
| Between DKLU-AMB  | DN Line   | DN Advanced starter Signal No-14 of DKLU.         | Outer most facing point of AMB station.  |
|                   | UP Line   | UP Advanced Starter Signal of AMB.                | BSLB of DKLU station on UP Line .        |

#### 2.3.1 STATION SECTION:

- i) UP Line:- Between BSLB to UP Advanced starter Sig No. 13
- ii) DN line:- Between Point No. 18A to Advanced Starter Sig No.14

#### 2.3.2 STATION LIMIT:

- i) UP line – The portion between UP Inner Distant signal to UP Advanced starter signal No.13
- ii) DN line - The portion between DN Inner Distant signal to DN Advanced starter signal No.14

#### 2.4: GRADIENT: -

##### (a) FROM THE CENTER OF STATION BUILDING TOWARDS AMBODOLA

| CHAINAGE IN METER |               | INTER DISTANCE | GRADIENT    |             |
|-------------------|---------------|----------------|-------------|-------------|
| FROM              | TO            |                |             | REMARKS     |
| 0 m               | 281m          | 281 m          | 1 in 700F   | UP&DN LINE. |
| 281 m             | 650 m         | 369 m          | 1 in 1000 R | UP&DN LINE. |
| 650 m             | 738 m         | 88 m           | 1 in 300 R  | UP&DN LINE. |
| 738 m             | 930 m         | 192 m          | LEVEL       | DN LINE.    |
| 930 m             | 1413 m        | 483 m          | 1 in 230 R  | DN LINE     |
| 1413m             | 1555m         | 142m           | LEVEL       | DN LINE     |
| 1555m             | 1915 m        | 360m           | 1 in 400F   | DN LINE     |
| 1915m             | 2055m         | 140m           | LEVEL       | DN LINE     |
| 2055m             | 2275m         | 220m           | 1 in 200 R  | DN LINE     |
| 2275              | 2433.5m       | 158.5m         | LEVEL       | DN LINE     |
| 2433.5m           | 3185m         | 751.5m         | 1 in 150F   | DN LINE     |
| 3185 m            | BLOCK SECTION | --             | LEVEL       | DN LINE     |
| 738m              | 930           | 192m           | LEVEL       | UP LINE     |

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|       |               |       |           |         |
|-------|---------------|-------|-----------|---------|
| 930 m | 1799m         | 869m  | 1 in 250F | UP LINE |
| 1799m | 1985m         | 186m  | LEVEL     | UP LINE |
| 1985m | 2348m         | 363m  | 1 in 150R | UP LINE |
| 2348m | 2621m         | 273m  | LEVEL     | UP LINE |
| 2621m | 2985m         | 364m  | 1 in 150F | UP LINE |
| 2985m | 3127m         | 142m  | LEVEL     | UP LINE |
| 3127m | 4939m         | 1812m | 1 in 180R | UP LINE |
| 4939m | BLOCK SECTION | --    | LEVEL     | UP LINE |

(b) FROM THE CENTER OF STATION BUILDING TOWARDS MUNIGUDA

| CHAINAGE IN METER |               | INTER DISTANCE | GRADIENT   |             |
|-------------------|---------------|----------------|------------|-------------|
| FROM              | TO            |                |            | REMARKS     |
| 0 m               | 222 m         | 222 m          | 1 in 700 R | UP&DN LINE. |
| 222 m             | 622 m         | 400 m          | 1 in 400 R | DN LINE     |
| 622 m             | 692.4 m       | 70.4 m         | 1 in 230 R | DN LINE     |
| 692.4m            | 762.1 m       | 69.7 m         | Level      | DN LINE     |
| 762.1 m           | 1219.3 m      | 457.2 m        | 1 in 300 F | DN LINE     |
| 1219.3m           | 1394.2m       | 174.9m         | Level      | DN LINE     |
| 1394.2m           | 1659m         | 264.8m         | 1 in 400 R | DN LINE     |
| 1659m             | 1757.2m       | 98.2m          | Level      | DN LINE     |
| 1757.2m           | 2646.4m       | 889.2m         | 1 in 150 R | DN LINE     |
| 2646.4m           | 3407.6m       | 761.2m         | 1 in 230 R | DN LINE     |
| 222m              | 605m          | 383m           | 1 in 400 R | UP LINE     |
| 605m              | 692.4m        | 87.4m          | 1 in 150 R | UP LINE     |
| 692.4m            | 755m          | 62.6m          | Level      | UP LINE     |
| 755m              | 1260m         | 505m           | 1 in 300 F | UP LINE     |
| 1260m             | 1720m         | 460m           | Level      | UP LINE     |
| 1720m             | 2605m         | 885m           | 1 in 150 R | UP LINE     |
| 2605m             | 3435m         | 830m           | Level      | UP LINE     |
| 3435 m            | BLOCK SECTION | --             | 1 in 200 R | UP LINE     |

**2.5 LAY OUT: -**

- i) No. of running lines :- 4 ( Four )
- ii) No. of sidings :- 1, One Goods Siding.(CSL-85M)
- iii) No. of Passenger platform :- 2 (Two)
- a) Rail level Platform beside Line no.-350.83M long)
- b) Low level Platform beside Line no.-4 (350Mx6.1M)
- iv) No. of goods shed platform :- Nil.

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

(i)

| DESCRIPTION                                       | CSL                        | ISOLATION PROVIDED |               |
|---|----------------------------|--------------------|---------------|
|   |                            | TOWARDS MNGD       | TOWARDS AMB   |
| Line No.1 (1 <sup>st</sup> Loop)<br>(Common Loop) | 710 mtrs.<br>(Str. To Str) | Over run line      | Over run line |
| Line No.2 (UP Main line)                          | 757 mtrs.<br>(SB. To Str)  | ...                | ...           |
| Line No. 3 (DN Main Line)                         | 804 mtrs.<br>(SB To Str.)  | ...                | ...           |
| Line No.4 (DN Loop)                               | 771 mtrs.<br>(SB to Str.)  | Derailing switch   | Over run line |

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

- (a) Trains arriving from Ambodala end are UP trains.  
(b) Trains arriving from Muniguda end are DN trains.

2.5.2 **NON-RUNNING LINES AND CSL.: -**

| Sl. N. | Description  | CSL             | Takes off  | Exit     | Operation  |
|--------|--------------|-----------------|------------|----------|--|
| 1.     | Goods Siding | 85 m<br>(BJ-BJ) | Line No. 1 | Both way | Through Key Transmission and panel control Button No-24. |

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

2.6 **LEVEL CROSSINGS: -**

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

| Sl. No | Location   | Km.     | Normal Position      | Class | Type        | Operation                      | Communication                             |
|--------|--|---------|----------------------|-------|-------------|--------------------------------|---|
| 1.     | Between UP Starter signal & UP Advanced Starter signal | 275.761 | Open to road traffic | 'C.'  | Interlocked | Winch operated Lifting barrier | Magneto telephone connection with SM/DKLU |

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

| Sl. No | Location          | Km.       | Normal Position        | Class | Type            | Operation                      | Communication                             |
|--------|-------------------|-----------|------------------------|-------|-----------------|--------------------------------|---|
| 1.     | Between DKLU-AMB  | 265/5-6   | Closed to Road Traffic | C     | Non-interlocked | Winch operated Lifting barrier | Magneto telephone connection with SM/AMB  |
| 2.     | Between DKLU-MNGD | 285/10-11 | Open to Road Traffic   | Spl   | Interlocked     | Winch operated Lifting barrier | Magneto telephone connection with SM/MNGD |

Train Actuated Warning Device has not been provided at the above Level Crossing Gates.  
**(Details of working are given in Appendix 'A')**

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**3. SYSTEM AND MEANS OF WORKING:-**

(Rule No. Chapter XIV of GR & SR, Chapters III, IV & V of BWM)

- i) **System of working:** - Absolute block System of working on double line.
- ii) **Type of block instruments:-**SGE type Double Line lock & Block Instrument with adjacent station.
- iii) **Instruments:** - Non Co-operative type.
- iv) **Block Telephone:-** Connected with adjacent stations
- v) **Staff responsible for their operation:** - SM on duty.
- vi) **Custodian of keys:** - SM on duty

**4. SYSTEM OF SIGNALLING AND INTERLOCKING: -****4.1.1 STANDARD OF INTERLOCKING AND TYPE OF SIGNALLING: –**

The station is provided with Standard III interlocking, central panel with Multiple Aspect Colour Light Signalling and block proving Axle Counters. All the points are centrally operated from central panel by on duty Station Master. The Home signals and Advanced Starter signals are interlocked with respective double line lock and block instruments. GR 3.08(4) (b) governs the aspect and indications of the signals. The station has no end cabins.

Maximum equipment of signal – Distant, Inner Distant, Home, Starter and Advanced starter in either direction.

**4.1.2 STATION MASTER'S CONTROL PANEL: -**

- (i) A push button type electrical control apparatus (operation cum indication panel) is provided in the Station Master's office to operate electrical UP and DOWN points and signals. The control apparatus is provided with a lock up key named (SM's Key) which shall always remain in the personal custody of the SS/SM/ASM on duty in terms of GR 5.08. The position of all points, signals and running lines are available in the Station Master's illuminated panel diagram. Reminder collars are provided for use on push buttons, which will be placed on point button, route button, signal button or on any other button to prevent operation of the button in case of concerned line is blocked; or to prevent inadvertent operation of a particular button as and when required.

**(ii) SEALING OF EMERGENCY OPERATION BUTTONS/KEYS:-**

All 'emergency operation buttons' on the Station Master's control panel shall be kept sealed in normal condition by S&T staff. Whenever any emergency operation is initiated. SS/SM on duty shall break open the seal of the concerned button to make the button operative. Immediately after completion of emergency operation SS/SM on duty shall inform concerned S&T staff for resealing of the concerned button.

**4.1.3 TRACK CIRCUIT: -**

All the lines including point zone between Home and Advanced starter signal on either direction is track circuited. The position of the running lines including point zones i.e. occupied/clear is indicated in the illuminated diagram at the Station Master's office. Normally there will be no indication of track circuits. It shows 'RED' when the line is occupied and 'WHITE' when the track is clear provided the route is set. Calling-On Track circuits are provided 7RL beyond Home signal in either side of the station.

**4.1.3.1 AXLE COUNTER**

Both side block sections are monitored by axle counter to check the complete arrival of trains. This is also interlocked with Block Instruments of the stations at either side to prove the clearance and occupation of Block sections. Advanced starter signals cannot be taken off if axle counter, pertaining to that section fails.

[Details are given in Appendix-'B']

**4.1.4 POSITION AND OPERATION OF POINTS: -**

The positions of all points are shown in station Working Rule Diagram and also on operating panel. All points are power operated through Station Master's control panel apparatus. All cross over points on running line are independently worked by electric point machine and have built in locking and detection arrangement.

**4.1.5 IBS - :- NIL****4.1.6 POINT AND TRAP INDICATOR :-**

One trap indicator on trap point of Line No.4 at MNGD end.

**4.1.7 REPEATER ( BANNER TYPE ) :- Nil****4.1.8. ELECTRICAL KEY TRANSMITTER (EKT):-**

EKTs with crank handle keys are provided at both end locations for the operation of points in case of failure of point motors and also for the LC gate Goomty at KM 275.761 for opening and closing of the gate. The keys for the crank handles are transmitted electrically to the crank handle locations for operating the points by crank handles. Details of the working of Crank handle key is mentioned in Appendix 'B' and that L.C. gate is mentioned in Appendix 'A'.

**4.1.9 CALLING ON SIGNALS:-**

'Calling on' signals have been provided below UP and DN home signals. It shows no light when 'ON' and 'YELLOW' light when taken off.

**4.1.10 SHUNT SIGNALS:-**

Independent shunt signals are provided on top point at either end for back shunting movement.

**4.1.11 ANTI COLLOISION DEVICE: - NIL'****4.1.12 EMERGENCY CROSSOVER:- NIL****4.1.13 LC GATE OPERATION:- Given in Appendix 'A'****4.12 CRANK HANDLE**

When any point fails to operate normally by the route setting operation or individual 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 handle keys 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.

The crank handle key in RKT in the end goomties can be released from the RKT. The SM has to press concerned crank handle button and Trans button. This will enable SM/TP to extract crank handle key CH-1/CH-2/CH-3/CH-4 from RKT at end goomty. SS/SM/TPM on duty

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after extracting the crank handle key from RKT at end-goomty shall insert it in the space/groove provided in the point machine and turn it to open the slot for insertion of crank handle in the point machine. After inserting the crank handle in the point machine he shall operate it to set the point to desired position. After completion of point work the crank handle key is to be inserted in the RKT at end goomty and transmitted to station. Station Master on getting ' Key IN ' flashing indication that will appear on panel, shall press relevant CH button & Group Release button to get the steady key "IN" indication. SS/SM on duty shall personally ensure clamping and padlocking of all facing and trailing points en-route. The cases of failure of motor operated points should be promptly reported to the concerned ESM/Signal Inspector for immediate rectification. SS/SM on duty as per OM 20.06 (d) shall maintain an emergency crank handle register. The procedure for use of crank handle for motor operated points shall be followed in terms of operating Manual 20.06.

4.13 **EMERGENCY POINT OPERATION (BLACK WITH RED DOT):**

Emergency point operation facility is provided to operate the point from the panel in case of failure of point controlling track circuit. If such operation is necessary, the SM on duty, after ensuring that no vehicle is standing on the concerned point track circuit and SM's emergency point key is 'IN' shall press emergency point operation button by breaking the seal along with relevant point button simultaneously. Then retaining point button pressed, emergency point operation button to be released and the point group button normal / reverse button is to be pressed for operating the point to 'NORMAL' or 'REVERSE'. All such operations will be registered in the emergency point operation counter. Each operation of emergency point operation shall be recorded in the station diary and in the register meant for this purpose. S&T staff should be advised immediately to get the emergency point operation button resealed after rectification of fault, if any

4.14 **EMERGENCY ROUTE RELEASE INDICATION (WHITE) EMERGENCY ROUTE BUTTON (WHITE WITH RED DOT):**

The panel interlocking is based on the principle of 'DEAD APPROACH LOCKING'. As such when a route is set and signal is taken 'OFF' on the route, the route gets locked. Normally the route is released by the passage of the train over the route. When it becomes necessary to alter the route after the signal has been taken 'OFF' vide SR 3.36.02(a), the concerned signal must be put back to Danger by simultaneously pressing the signal cancellation button and the concerned signal button. After this the emergency route release button (white with red dot) positioned in the top of panel to be pressed first by breaking the seal and subsequently the concerned signal button is to be pressed releasing the emergency route release button. A white flashing light will glow indicating that the timer is working. After 120 seconds, the white flashing light along with the white strip of light will disappear suggesting the route has been released.

In case the route illumination (white strip lights) does not disappear, it suggests that the route is not released/cancelled. In such case the concerned S&T staff should be advised immediately to get the emergency route release button resealed after rectification of fault, if any.

Each operation of emergency cancellation of route is recorded in the emergency route release counter by registering the next higher number. All such operations and the new number should be recorded in the station diary and in the train signal register.

4, 15 **EMERGENCY ROUTE RELEASE COUNTER:**

This counter is provided to register the number of operations made for emergency cancellation of route. The Station Master must record the last number registered on the counter while taking over/handing over duty.

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

The relay room should be kept locked with two separate locks; the arrangement should be such that one is kept with the on duty station master 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 relay room register. The maintainer on receipt of key from the station master may use the same and the key in his custody to open the relay room by inserting the keys one after another separately in to the earmarked locks.

After completion of work, the signal staff shall return the key to SM on duty. The details of the transaction should be properly recorded in the relevant register at the Station duly signed by SM on duty and the signal staffs concerned vide Operating Manual 1.14 and G & SR 3.51.05. If the relay room key is handed over to the Signal staff regarding the interference in safety gears, the train shall be piloted in and piloted out.

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

#### 4.2 **POWER SUPPLY: -**

Normally for signaling and interlocking installation power supply is drawn from State Electricity Board (230V, 50Hz) but when this source fails DG set for standby is installed at the station to feed the S&T equipment. The SM however maintains the records of the power failures and promptly report the failure immediately to the controller and to the concerned Electrical and S&T staff. In addition to this the station is provided with solar power System.

In SM's office there is SM Power Panel, which represents the voltage of the integrated power supply system.

- i) In case voltage drops 105.9V an audible buzzer appears for starting Generator.
- ii) In case voltage drops 105.1V an audible buzzer appears for emergency start of Generator.
- iii) In case voltage drops 104.3V an audible buzzer appears for system shut down.

The SM now has to start the diesel engine for standby (Auxiliary) power supply. After stable run of the Diesel engine, the SM/SS on duty has to operate the change over switch for connection the Auxiliary supply to the signaling installation. On resumption of power supply, the Diesel Generator shall be stopped by SM/SS on duty after isolation Diesel Generator by change over switch. Each time the power supply goes OFF or ON SM/SS on duty shall acknowledge. In case of nay audible buzzer in SM's power panel, SM on duty should acknowledge the buzzer by pressing 'buzzer stop button'.

Inverters have been provided to prevent possibility of blank signals in case of SEB power supply failure. Whenever SEB power supply fails inverter will immediately extend power supply to signals thereby preventing blank signals. Based on the indication shown in the SM's power Panel SM on duty should start DG for avoiding any case of shut down of power sub system of Integrated Power Supply system. Solar Power Supply has been provided in the station as standby power supply. If there is any indication on SM's power panel regarding deviation in IPS system call S&T staff.

#### 5.0 **TELECOMMUNICATION FACILITIES: -**

- (i) Telephone attached with Double line Lock & 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 has been provided.
- (v) The station is connected to BLGR-SPRD control circuit by a control telephone.
- (vi) Station to station 25w VHF communication is provided.
- (vii) Telephone is provided between Station and both end crank handle locations.
- (viii) Magneto telephone connection has been provided between station & LC gate at Km. 275.761.  
(Details are mentioned in Appendix 'B' of the SWR.)

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**6.0 SYSTEM OF TRAINS 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 station 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: -**

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.     | Station Manager-I (In-charge)-----<br>SS/SM/ASM----- | Excluded<br>Continuous | 01                         | -----<br>-----08 hrs.      |
| 2      | TP/Sr.TP/TPM-B/TPM-A                                 | Continuous             | 01                         | 08 hrs.                    |
| 3      | GK/ Sr. GK   | Continuous             | 01                         | 12 hrs.                    |
| 4      | SCLM/LCS   | E.I                    | 01                         | 12 hrs (In broken roster). |

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's office.

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

The SS/SM on duty is responsible to ascertain the clearance of the nominated line between outer most facing points of concerned line as per SR.3.40.02 (B) III rd para.

**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 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 signature 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 them 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.

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

The conditions laid down in GR 8.01 (1) (a), (b), 8.01 (2) (b), 8.03 (1) (a), (b), (c) (ii) shall be complied with before the line is considered clear and 'Line Clear' is granted for a train by on duty SM. The line shall not be considered clear and 'Line Clear shall not be given unless:

- (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) The line is clear up to outermost facing point No-18 for DN trains and BSLB on UP line for UP trains.

**NOTE:** If the light of the reception signal is fused/ not burning, 'Line Clear' shall not be granted for a train till such time it is ensured that the concerned driver is notified of the fact in writing by the SM on duty of the station to which such line clear is granted.

(B) **OUTLYING SIDING: - NIL.**

6.2.1 **ANY SPECIAL CONDITIONS TO BE OBSERVED WHILE RECEIVING OR DESPATCHING A TRAIN:**  
For receiving a train on loop lines Station Master on duty shall ensure that the ORL/Sand Hump is clear of all obstructions even when the ORL/Sand Hump falls in the trailing direction.

6.2.1.1 **SETTING OF POINTS AGAINST BLOCKED LINE: -**  
All Points shall normally be set for the straight except when otherwise authorised by special instructions. When a running line is blocked by a stable 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 in rear 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 SR 3.51.06(a). If all the lines at the station happen to be blocked, then SR. 3.51.06 (b) will be followed.

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

6.2.1.3 **RECEPTION OF TRAIN ON NON-SIGNALLED LINE: -**  
Not Applicable.

6.2.1.4 **DESPATCH OF TRAINS ON NON-SIGNALLED LINE: -**  
Not Applicable

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

6.2.1.6 **SPECIAL RESTRICTIONS :-**

- (i) The Over run line shall not be obstructed for stabling vehicles or harboring engine If it is obstructed through any accident or for any cause it ceases to be substitute for the adequate distance, in that case the train shall be passed over loop line as per Subsidiary Rules 3.40.02(a).
- (ii) Shunting shall not be permitted at either end of the yard unless the engine is leading towards falling gradient.
- (iii) Hand shunting and fly shunting is not permitted at both end of the yard.
- (iv) Shunting in face of an approaching train is prohibited.
- (v) Speed is raised to 30 KMPH on first directional loop lines on either side of main lines and over its turnouts. However, no train shall be allowed to negotiate at a speed more than 15 KMPH, if it involves negotiating more than one crossover at a time.

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**6.2.1.7 SPECIAL INSTRUCTIONS :-**

- (i) After a non-signal movement has taken place over a point, operated by electric machine, whether facing or trailing direction, SS/SM on duty shall operate the point to normal and reverse setting for the purpose of setting the point. After ensuring that the indications are correctly available, further movement may be permitted over the point.
- (ii) For receiving UP/DN trains in common loop the clearance of the Over run line should be ensured even though it falls in trailing direction.

**6.3 CONDITIONS FOR TAKING 'OFF' APPROACH SIGNALS: -**

Reception of trains is governed by General Rules 3.36, 3.38, 3.40, and SRs 3.40(1),(a), (2)(a) and Subsidiary Rule 3.40.01 and other relevant provisions of General and Subsidiary Rules, Block Working Manual and Station Working Rules of the station to be followed. Adequate distances to be kept clear vide General Rule 3.40(3) (a) for reception of trains

**A. CLEARANCE OF ADEQUATE DISTANCE: -**

To take off the home signal for admission of a train the adequate distance (signal overlap) as mentioned below shall be kept clear: -

| LINE NO. | UP TRAIN                  |  |   | DN TRAIN                          |   |
|----------|---------------------------|--|---|-----------------------------------|---|
|          |                           | FROM                                   | TO  | FROM                              | TO  |
| 1        | Line No 1 (Common Loop)   | Foot of the UP starter sig No.7        | Up advanced starter No13<br>Or<br>Up to the dead end of over run line | Foot of the Starter Signal No. 10 | DN advanced starter signal No.14<br>Or<br>Up to the dead end of over run line |
| 2        | Line no. 2 (UP Main line) | Foot of the Up main line starter No.11 | UP Advanced starter signal No.13                                      | ....                              | ....  |
| 3        | Line No. 3 (DN Main line) | ....                                   | ....  | Foot of the starter signal No.12. | DN advanced starter signal No.14.   |
| 4        | Line No. 4 (DN Loop)      | ....                                   | ....  | Foot of the Starter Signal No. 8  | DN advanced starter signal No.14<br>Or<br>Up to the dead end of over run line |

Before admitting a train on any line, it must be ensured that the track indication for the respective line indicates 'WHITE' indication in the illuminated panel diagram. To receive a train, for which line clear is granted, the SS/SM on duty shall nominate a clear line in consultation with the Section Controller on duty. SS/SM shall personally satisfy himself that the nominated line is clear and

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free from all obstruction by seeing the track circuit indication on panel or by physical verification of the nominated route in case of failure of track circuit. He shall suspend all non-isolated shunting and thereafter set the points of the nominated route by means of push button switch provided on the control panel. He shall then verify from the visual indication available in the panel that points are set to the desired route.

In case any of the track circuit on the concerned route shows occupied by RED indication even though the other conditions are satisfied, the operation of panel control buttons by the SS/SM on duty will not permit the concerned signal to be taken off. However, reception of train will be possible in such cases with the “ Calling On” signal fixed below Home signal at either end provided the first track circuit in advance of home signal does not show ‘RED’ indication.

Miniature colour light calling on signal is provided below the home signals in terms of GR 3.13(6)(b). A calling-on signal shows no light in the ‘ON’ position. The calling on signal is taken off for reception of a train when the home signal above it cannot be taken off due to failure or any other reason or for admission of a train on blocked line.

## **B. TAKING OFF CALLING ON SIGNAL**

To take off calling on signal, the train must come to a stop at the foot of the Home signal, occupying track circuit in rear of the signal. When train occupies the track circuit, RED light strip will appear on the panel. The particular route on which the train is intended to be received shall be set by individual point operation by operating point button & point group buttons or by setting route by pressing route button & signal button or by crank handling in the event of failure of operation of point through panel. After the route is set, the calling-on signal button C1 / C2 (Red with white dot), as the case may be, shall be pressed simultaneously along with concerned route button for 2-3 seconds and released after a lapse of 120 sec. The calling-on signal clears and a white light indication appears on the panel for the concerned calling-on signal.

### **6.3.1 PUTTING BACK OF HOME SIGNALS: -**

If for any reason after taking off signals, it is required to put back the signal and alter the route, in terms of Subsidiary Rules 3.36.02(a),(b)(ii), a time delay of 2 minutes shall be observed before the points can be altered.

### **6.4 SIMULTANEOUS RECEPTION, DESPATCH, CROSSING & PRECEDENCE OF TRAINS: -**

|       |  |  |
|-------|--|--|
| (i)   | Reception of a DN train on Line No.4 set to over run line. | Despatch of DN train from Line No. 3.      |
| (ii)  | Reception of a UP train on Line No.1 set to over run line. | Despatch of UP a train from Line No 2.     |
| (iii) | Reception of a DN train on line No.1 set to ORL.           | Despatch of a DN train from line No.3 or 4 |

6.4.1 Rules laid down in GR 3.47 and GR 3.47.01(b), (c), (d) shall be followed.

### **6.5 COMPLETE ARRIVAL OF TRAIN: -**

(Rule no. GR 4.16 & SR 16.01, 4.160.2.4.16.03, 4.16.04, 4.16.05 GR 4.17 & SR 4.17.01, SR 4.17.02, GR 14.10)

a) **STAFF RESPONSIBLE TO VERIFY COMPLETE ARRIVAL: -** SM on duty.

b) **MODE OF VERIFICATION:** Through AXLE COUNTER or through physical verification when Axle counter fails.

- 6.5.1 **L.V. VERIFICATION THROUGH AXLE COUNTER:** -  
Entire block section at both sides of the station i.e. DKLU-MNGD and DKLU-AMB is monitored by axle counter system and the position of block section whether clear or occupied is indicated in the axle counter indication Panel. As soon as a train enters in to the block section, the 'RED' indication appears in the axle counter indication Panel. After the whole train clears the block section, 'GREEN' indication appears on the axle counter indication Panel. This confirms the complete arrival of train and the SS/SM on duty shall give train out of section report on seeing the section clear (GREEN) indication at the panel.
- 6.5.2 **L.V. VERIFICATION WHEN AXLE COUNTER FAILS:** -  
In case of failure of axle counter, the Station Master on duty shall obtain complete arrival certificate from the Guard of the train in the complete arrival register (T/1410) maintained at the station for stopping trains. For through passing trains, the Station master on duty shall satisfy himself about complete arrival of the train by verification of the last vehicle indicator vide Subsidiary Rule 4.16.05 that the train is complete. In case a train arrives/passes incomplete, action shall be taken as per Subsidiary Rules 4.17.02. The 'Train out of Block section' signal shall be withheld to the station in rear until complete arrival certificate is received from the station in advance supported by a Private Number.
- 6.5.3 **L.V. VERIFICATION WHEN MOTOR TROLLEY FOLLOWING:** -  
On occasions when motor trolley follows a train, the points shall not be altered until the following motor trolley is admitted on the same line. In the event of motor trolley is delayed in the section, the Station Master on duty shall take action in terms of SR 15.25.03 (b) (vi).
- 6.6 **DESPATCH OF TRAINS:** -  
Despatch of trains are governed by General Rules 3.36, 3.38, 3.39, 3.42, 5.11 & 8.01, Subsidiary Rules 3.36.04(b), 3.42.04 and Block Working Manual 2.07(5)(a)(b) and other provisions of General Rules, Subsidiary Rules, Block Working Manual and Station Working Rules of the station.  
To despatch a train, the SS/SM on duty, having obtained line clear for that train, shall set the route for the out going train correctly and satisfy himself by observing the visual indication on the panel board. He shall then suspend all non-isolated shunting, ensure that all L.C. gates have been closed against road traffic and then shall take off the concerned route starter and advanced starter signal by operating concerned push button. After observing the 'OFF' aspect of the route starter and advanced starter signals the Driver shall start his train.  
The Station Master on duty shall watch the safe passage of the train with its last vehicle indicator. After the train passes the Advanced starter complete, he shall send the 'TRAIN ENTERING BLOCK SECTION' signal to the station in advance  
If a train is worked without a Guard or Brake Van, the instructions laid down in Subsidiary Rules 4.23.02 and 4.25.02 shall be followed
- 6.6.1 **PUTTING BACK SIGNALS TO 'ON' IN CASE OF EMERGENCY:-**  
If a signal once taken 'Off' for reception/despatch of a train has to be, in an emergency, put back to 'ON', the procedure laid down in General Rules 3.36.02 shall be followed. In case of reception of train, route shall not be altered until the train has come to a stand outside Home signal. In case of departure signal before changing route, the line clear authority is to be withdrawn from the Driver with a memo, taking his acknowledgement thereof.
- 6.7 **TRAINS RUNNING THROUGH:** -  
The procedure detailed in Para 6.3, 6.6 above and General Rules 4.17, 4.42 and Subsidiary Rules 3.36.04(b)(i) 3.42.02(a)(iv), shall be observed.

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The SM on duty is responsible to observe/watch the condition of the vehicles on a train and shall wave green hand signal horizontally as per Subsidiary Rule 4.42.02 until anything wrong is noticed on train. For this purpose the SS/SM on duty shall stand in such a position that he sees a clear view of the passing train and that the Driver and Guard of the train can clearly see his hand signals. He shall depute his points man with hand signal to the other side of the passing train who shall exhibit hand danger signal to draw the attention of the guard/driver of the train in case of observing any unsafe condition/abnormalities of the train. He shall also report to the SS/SM on duty for taking further suitable action in terms of SR 4.42.02(d).

The Station Master on duty is responsible to see that a train passes complete with its last vehicle indicator. If a train passes without last vehicle indicator or its authorized substitute, action shall be taken as per General Rules 4.17 and Subsidiary Rules 4.17.02.

**6.8 WORKING IN CASE OF FAILURE: -**

In case of failure of S&T equipments, on duty Station Master shall work in accordance to GR 3.68, 3.69 and 3.70 and SRs thereto.

**6.8.1 PROCEDURE TO BE FOLLOWED INCASE OF FAILURE OF A SIGNAL & INTERLOCKING:**

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 SR 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 admitted on calling-on signal. If calling-on signal fails then train shall be piloted 'IN'. Before piloting a train in to the yard the clearance of the track must be ensured by physical verification.

**6.8.3 AXLE COUNTER:**

In the event of failure of axle counter of concerned block section SM on duty shall initiate resetting of axle counter after ensuring the complete arrival of the train by SM of other end Station. After resetting the first train will be piloted 'OUT' to the concerned Block section for normalising the system of working. In case failure of Axle counter Block instrument of concerned block section shall be suspended. Details of operations involved in resetting of axle counter are given in Appendix-'B'.

**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)].

In case of disconnection of signal and interlocking for repairs 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 interruption/ failure of block instrument the concerned block instrument shall be suspended till its rectification and trains shall work as per GR. [Refer GR 6.02 .03, 6.02.04 and SR 6.02.06].

Both UP and DN advanced Starters are electrically interlocked with respective 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.

During the failure of Block Instrument the authority will be T/369(3b) with identification number & Private Number issued from the station in advance written both in figure and words.

UP and DN Home signals are electrically interlocked with respective block instrument can be normalised 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 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 driver in terms of GR 4.09 and SRs 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

The following precautions must be taken:

- i) The section where axle counters are provided in lieu of track circuits, trolleys, motor trolleys, Lorries etc which are not insulated, shall not be allowed to run except on line clear.
- ii) Motor trolleys / tower wagons / material Lorries are not likely to actuate the axle counter correctly. When they are to run over the sections split by axle counters, the whole section to be treated as one and next train to be started after the first train has arrived complete.
- iii) 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.

**6.0 BLOCKING OF LINES: -**

Whenever a running line is blocked either by loose vehicles or by a stabling train or by a train which is to cross or give precedence to another train, the points in rear should immediately be set against the blocked line except during shunting movement and reminder collars shall be placed on the concerned point push button and route button(s) for the blocked lines. A clear remark in 'RED' ink shall be made immediately in the train signal register and a record shall be made in the Station Master's diary also. Stable load register is also to be maintained. The stable load or loose 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 REMINDER COLLARS:-**

Whenever a running line is blocked either by loose vehicles or by stabled train or by a train which is to cross or give precedence to another train even for a short while or during shunting operation, the reminder collars must be placed on concerned point push button, signal and route button(s) for the blocked lines on the operating panel by SM on duty.

**7.2 SECURING OF VEHICLES: -**

As far as practicable loose vehicles shall not be allowed to stand on the running lines. 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 fouling of line.

**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 below: -

| 1    | 2                  | 3          |    | 4                     | 5                   | 6                 |
|------|--------------------|------------|----|-----------------------|---------------------|-------------------|
| Date | Name of SM on duty | Duty Hours |    | Line on which stabled | Total no. of wagons | Time Line blocked |
|      |                    | From       | To |                       |                     |                   |
|      |                    |            |    |                       |                     |                   |



| 7(a)                           | 7(b)                                      | 7(c)                                    | 7(d)   |
|--------------------------------|---|---|--|
| No. of Hand brakes pinned down | No. of wagons on which wooden wedges used | No. of safety chains with pad lock used | Clamps and pad locks used to set the line against blocked line |
|                                |   |   |  |

| 7(e)  | 7(f)              |      | 8                       | 9                          | 10      |
|---|-------------------|------|-------------------------|----------------------------|---------|
| Switch nos. on which reminder collars applied | Time Line cleared |      | Signature of SM on duty | Signature of SM taken over | Remarks |
|   | Date              | Time |                         |                            |         |
|   |                   |      |                         |                            |         |

### 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 in rear 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 happen 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 where a passenger coach will, in case of collision, receive the impact.

### 7.4 **LOADING AND UNLOADING FROM 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 there of, 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.

### 7.0 **SHUNTING: -**

- 8.1 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, 8.14, 8.15 and Subsidiary Rules thereto. The Guard/Asst. Guard/SS/SM/TPM on duty is authorized to supervise shunting operation. The staff supervising shunting shall ensure correct setting of points, clamping and pad locking of points, if necessary. Normally back shunt signals shall be used for shunting operation.

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

Shunting in the face of an approaching train is prohibited.

**8.3 PROHIBITION OF SHUNTING AND ANY SPECIAL FEATURES: -**

- (a) Hand Fly & Loose shunting is not permitted at both end of the yard.
- (b) SR 4.48.01 is applicable for this station.

**8.4 SHUNTING ON SINGLE LINE:-**

| SHUNTING ZONE                        | BLOCK SECTION IS CLEARED  | BLOCK SECTION IS OCCUPIED   |
|--------------------------------------|---|---|
| Shunting outside home signal         | The concerned section shall be blocked back vide GR 8.06 (2)                    | Not Permitted   |
| Shunting within station section      | Permitted   | Permitted provided the necessary signals are at on position vide 8.05 (2).  |
| Shunting in advance of block section | Shunting is permitted, provided the section is blocked forward vide GR 8.06 (3) | Shunting in rear of a travelling away train is not permitted/permitted provided under special instructions taking in to consideration the speed weight and brake power of trains, the gradients and as soon as the train arrived at the block section in advance the line shall be blocked forward if it is still obstructed. |

**8.5 SHUNTING IN THE SIDING TAKING OFF FROM STATION YARD:-**

When shunting in the sidings, relevant GR 5.14 and SRs thereto to be followed. In case of failure of shunt signals all facing and trailing points of the route shall be clamped and padlocked. While performing shunting in the block section, relevant GR 8.15 and SRs thereto are 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 Double 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-V of Block Working Manual.

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

Rules and Regulations for working of trains on an obstructed line in case of obstruction or accident on the authority of Block Ticket (T/A-602) when communications are available shall be followed in accordance with the provisions vide SR 6.02.05, which is summarized as follows.

After sending a train on block tickets, a following train shall not be dispatched in the same direction unless:

- a) The previous Block Ticket is collected and Cancelled or
- b) Necessary endorsement is given on the previous block ticket with the advise to wait at the site for a next train to follow or
- c) The previous train has met with an accident or has been disabled or
- d) The Block ticket has been cancelled from the driver of the previous train by the official –in-charge at the site and kept in the personal custody & shall be kept until the arrival of the next

train and such assurance is given over the telephone installed at the site quoting the serial number of the Block Ticket so collected.

- e) SM will suspend the Absolute Block System of Working and both SMs concerned should arrange for running of trains on the authority of Block Ticket
- f) SM at the dispatching end will hand over to the driver the block Ticket as the authority which shall include:
  - i. Caution Order: Existing Speed Restriction/s shall be indicated in the Caution Order portion. The Speed Restriction to 15 KMPH during clear visibility and 10 KMPH when visibility is obstructed shall be clearly indicated.
  - ii. An authority to pass the Stop Signal at “ON” position
- g) Before resumption of normal working a message between the SMs of the concerned stations shall be exchanged with private number.[Ref SR 6.02.05(d)(vi)]  
The Block Ticket so issued must be collected by SM of either end with a certificate about the complete arrival of the train with its time and the section is clear of all obstructions from Driver/Guard of the train and cancelled.

[III] **TRAINS DELAYED IN BLOCK SECTION: -**

If a train carrying passenger does not arrive within 10 minutes or if a goods train does not arrive within 20 minutes after allowing for its normal running time from the station in rear, the SM at the station in advance shall immediately advise the station in rear and the control this fact. There after SMs at either end of the Block section shall immediately stop all trains proceeding in to the block section on adjacent line in either direction and warn the Loco Pilots and Guards of such trains by issue of suitable Caution Orders. [Refer GR 6.04 & SRs thereto]

[IV] **FAILURE/PASSING OF INTERMEDIATE BLOCK STOP SIGNAL AT ON: - NIL**

[V] **FAILURE OF L V AXLE COUNTERBLOCK/BPAC:**

Details of the operation are given in Appendix ‘B’ of SWR.

[VI] **FAILURE OF MTRC:** Not applicable to this station.

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

Details of the operation are given in Appendix ‘B’ of SWR.

(C) **CERTIFICATION OF CLEARANCE OF TRACK BEFORE CALLING-ON SIGNAL IS OPERATED**

To take ‘OFF’ a calling on signal during failure of track circuit on the route, the clearance of the track over which the train would pass must be physically checked by the SS/SM on duty. After satisfying himself SS/SM on duty shall initiate the calling on signal operation. The procedure shall be strictly followed.

(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 SS/SM on duty to the sectional Maintainer, the JE/SE/SSE (SIG) of the Section & others through a memo as per G & SR 3.68.04 & document all such transactions.

9.1 **TOTAL FAILURE OF COMMUNICATION: -**

In the event of total failure of communications between DKLU-AMB or DKLU-MNGD stations i.e. when line clear cannot be obtained by any 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 telephones such as Railway auto phones & BSNL phones,
- (e) Control telephone, and
- (f) VHF set.

The trains shall be worked in terms of GR.6.02.03, which is summarized in brief as follows:

- (i) Each train before being allowed to enter into the Block Section should be stopped and the Guard and Driver of the train apprised of the situation.
- (ii) The SM will hand over an authority for working of train during total interruption of communication to the driver of each train which shall include-
  - a) Authority to proceed without 'Line Clear'. [T/C 602]
  - b) Authority to pass the Last Stop Signal at its "ON" position, i.e. T/369(3b).
  - c) A caution order restricting the speed to 25KMPH by day when view ahead is clear and 10KMPH by night or when view ahead is not clear.
- (iii) No train shall be allowed to enter the Block Section until there is a clear interval of 30minutes between the train about to leave and the train, which has immediately proceeded.
- (iv) Fixed signals except the last stop signal may be taken "OFF" for the dispatch of the train and for the reception of the train at the next block station, reception signals may be taken only after the train has been brought to a stand outside it.
- (v) No train shall be backed. In exceptional circumstances when it may be unavoidable, to back a train, the train shall be backed only after providing protection by placing one detonator at 250 meters and two detonators in 10 meters apart at 500 meters at rear of the point up to which the train shall be backed.
- (vi) On arrival at the next block station the driver shall hand over the 'Authority to proceed without line clear' to the SM on duty who will preserve the same for further inspection.
- (vii) Before resuming normal working when any means of communication is established. SM of either end must satisfy that there is no train in the block section and block section clearance has been obtained from driver/guard/PWI.. [Refer SR 6.02.03].

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

During temporary single line working when other line is obstructed either between DKLU-AMB or DKLU-MNGD stations, train shall be worked as per the detail procedure in SR 6.02.01, which is summarized as below:

- (a) Before introducing single line working the SM on duty must satisfy that the line on which single line working will be introduced is clear and free from all obstructions.
- (b) The Lock and Block instrument will be suspended. The Commutators of Lock & Block Instrument will be kept on "Train on line position".
- (c) SM proposing single line working must issue a message with
  - (i) The cause of introduction of single line working,
  - (ii) Line on which the single line will be introduced,
  - (iii) Source of information about the clearance of the line on which single line will be introduced,
  - (iv) Place of obstruction,
  - (v) Restriction of speed, If any,
- (vi) Assurance about keeping the last stop signal at 'ON' position if the train runs on right line and in case of wrong line all signals are to be kept at 'ON' position etc under the exchange of Private Number.
- (d) SS/SM on duty at the other end of the block section will acknowledge the message and confirm the same by a Private Number.

- (e) After obtaining line clear for the train from the advance station, the Driver must be given as-
- (i) Authority for Temporary Single Line (TSL) working on double line (T-D/602) indicating there in
  - Caution order
  - The line on which single line working is introduced.
  - The chainage/ kilometer of obstruction.
  - Any other speed restriction, if any existing.
  - Endorsement to inform all Gang man and Gateman about the single line working (for the first train only).
  - The speed of the first train to be restricted to 25 KMPH subject to other speed restriction.
  - Authority to pass Signal in "ON" position
- (ii) A pilot memo T/369(3b) to pass the last stop signal at its 'ON' position. The approach stop signals at the station in advance may be taken "OFF". In case a train proceeding on wrong line, the train shall be piloted out and at the receiving station, the train shall be piloted 'IN', on the authority of T/369(3b).  
 On being ensured that the obstructed line is clear of all obstructions, the SS/SM will resume normal working after exchanging message with the SS/SM of the other concerned end supported by private number in consultation with the Section Controller on duty when there is no train in the block section.  
 A goods train or an engine may be allowed on wrong line by blocking back the section without introducing single line working. [Refer SR. 6.02.05(g) (i)]  
 Whenever total interruption of all communication occurs during single line working on double line, the procedure detailed in GR should be followed. [Refer SR 6.02.02]

**9.3 DESPATCH OF TRAINS UNDER AUTHORITY TO PROCEED WITHOUT LINE CLEAR OR TO ASSIST THE CRIPPLED TRAIN: -**

The Station Master will take action as per SR 6.02.03 for despatch of trains under authority to proceed without line clear. Actions shall be taken to assist the crippled train as per SR 6.02.05.

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. Engineering Km., B/Van Km., whether the train is to return or to wait at the place of obstruction for the arrival of another following train(s) or to proceed to 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 be cancelled and pasted to its record foil or shall be sent to the issuing station for cancellation. In case of an accident/engineering block 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 SS/SM on duty may resume normal working after exchanging proper messages supported by Private Number.

**9.4 TRAINS DELAYED IN BLOCK SECTION**

If a train carrying passenger does not arrive within 10 minutes and if a goods train does not arrive within 20 minutes after allowing for its normal running time from the station in rear, the SM at the station in advance shall immediately advise the station in rear and the control this fact. There after SMs at either end of the Block section shall immediately stop all trains proceeding in to the block section on adjacent line in either direction and warn the Drivers and Guards of such trains by issue of suitable Caution Orders. [Refer GR 6.04 & SRs thereto].

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10. **VISIBILITY TEST OBJECT:** -Not Applicable
11. **ESSENTIAL EQUIPMENTS AT THE STATION:** -  
This is mentioned in the Appendix 'E' of the SWR.  
Essential equipment shall be kept ready on hand in good condition with necessary relief stock.
12. **FOG SIGNAL MEN NOMINATED TO BE CALLED IN CASE OF FOG:** -  
The station has been provided with double Distant signals which gives adequate prewarning to the loco Pilot. Hence, placing of detonators in case of fog shall be dispensed with vide SR 3.61.01.

**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 DOIKALU STATION.

**APPENDICES**

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

**APPENDIX – 'A'**

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**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 FOR “C” CLASS TRAFFIC INTERLOCKED LEVEL CROSSING GATE ( No.RV-219) AT KM 275.761 IN DKLU STATION YARD.**

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

|     |  |   |
|-----|--|---|
| 1.  | Number of Level Crossing Gate: -                   | RV-219  |
| 2.  | Engineering or Traffic Gate: -                     | Traffic.  |
| 3.  | Under control of Station Master/PWI:               | SM/ DKLU.   |
| 4.  | Location KM  | 275.761   |
| 5.  | At. Station: -                                     | DKLU.   |
| 6.  | In between stations: -                             | DKLU-MNGD   |
| 7.  | BG/MG/NG: -  | BG.   |
| 8.  | Single line/Double line/Multiple line: -           | Double Line.  |
| 9.  | Normal Position: -                                 | Open to road traffic.   |
| 10. | Interlocked/Non Interlocked: -                     | Interlocked.  |
| 11. | Means of interlocking: -                           | EKT   |
| 12. | Provision of Gate signal at Kms.                   | i) Up line Nil<br>ii) Dn line NIL                                     |
| 13. | Signalling arrangement: -                          | Nil.  |
| 14. | Means of Communication:                            | Magneto Telephone communication from Gate Goomty with SM office/DKLU. |
| 15. | Width of level crossing Gate: -                    | 5.5 m.  |
| 16. | Type of road. (NH/SH/Others): -                    | Others  |
| 17. | Name of Road: -                                    | Panchayat Road  |
| 18. | Metaled/NonMetaled:                                | Non-Metaled   |
| 19. | Approach Road: -                                   | Non-Metaled   |
| 20. | Width of the road: -                               | 5.5 m.  |
| 21. | Angle of road crossing (In case of the skew Gates) | -----.  |
| 22. | Road gradient (If any)                             | i)North/East side-<br>ii)South/West side-                             |
| 23. | Road alignment (Straight/Curve): -                 | i)North/East side- Straight<br>ii)South/Westside-Straight.            |
| 24. | Provision of height gauges: -                      | Not provided.   |
| 25. | Type of Barriers: -                                | Coupled Lifting barriers.   |
| 26. | Length of checkrails: -                            | 7.5 Meter.  |
| 27. | Road surface in between Level Xings Gates          | Hexagonal Blocks.   |
| 28. | Length of speed breakers: -                        | 5.5 M.  |
| 29. | Road signs: -                                      | Available   |
| 30. | Speed breaker indication board: -                  | Provided.   |
| 31. | TVU: -   | 4092 on 10/2010.  |
| 32. | Census next due on: -                              | 10/2013   |
| 33. | Demarcation for placement of Detonators: -         | Displayed.  |
| 34. | No. of the Gateman working: -                      | 02  |
| 35. | Nearest Railway Medical Assistance: -              | TIG   |

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36. Nearest Private Medical Assistance available (if any) Doikalu.  
 37. List of equipment available Yes//No: - Yes.

1.2. **THIS GATE IS PROVIDED WITH EQUIPMENT AS PER SR 16.02.01 AND RECORDS AS PER SR 16.02.03 AS FOLLOWS:**

**EQUIPMENT:**

| <b>ITEMS</b>   | <b>QUANTITY/NUMBERS</b>   |
|--|---|
| 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 and 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 chain with pad locks to be used in case failure of Boom lock.                     | 2   |

1.3 **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.

1.4 **DUTIES OF GATEMAN:**

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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 night time, 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 and blow the whistle to draw the attention of Driver & Guard of the passing train.

3. **ROUTINE DUTIES OF GATEMAN:**

- i) Gateman shall ensure that red banner flag by day and red lamp by night is placed across the track in case of emergency and obstruction on the track.
- 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 & 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.
- 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 & remain well conversant with these instructions.
- xii) Gateman shall ensure that equipment supplied at the gate is in good order & 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 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 to take appropriate action, under exchange of private number.

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- 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 to take appropriate action, under exchange of private number.

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

- i) In case of an obstruction at the level crossing gate, gateman shall maintain the gate signals, if an, in the 'ON' position.
- ii) Therefore, if he is unable to remove the obstruction, gateman shall immediately advise the SM on duty, if connected by telephone, 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 DOUBLE LINE.**

- i) If both lines are obstructed the Gateman shall plant a red banner flag by day and a red light by night 5 meters away from the line on which train is expected to arrive first.
- ii) Then he will similarly plant the other red banner flag by day and red light by night on the other line 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 on the line on which a train is expected to arrive first, to a point 600 meters on BG & place one detonator on the line. Thereafter he shall proceed to a distance 1200m on BG from the level crossing gate and place 3 detonators on the track in 10m 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 on the other line, showing red hand signal, similarly place detonators as described in para (iv) above and return to the site of obstruction, picking up the intermediate detonators 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 light up and fix the fusee to warn the driver and 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/DKLU regarding the particulars and obstructions at the level crossing gate, through messenger or other means available.

**1.5 SPECIAL INSTRUCTIONS:**

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1. **MODE OF OPERATION:**

This is a Manned, interlocked traffic L.C.Gate situated at MNGD end of the yard in between UP Starter and UP Adv. Starter signal at Km 275.761. This gate is interlocked with Station stop signals. Telephone communication is provided between the L C. gate lodge with SM on duty of DKLU Station. The level crossing gate is of lifting barrier type operated by means of winch provided at the gate lodge Cabin.

The normal position of the gate is opened to road traffic. A two-lever frame has been provided at the gate Cabin. The key of the LC remains in the winch normally. When it is necessary to close the gate, for taking off signals or for shunting operations the SM on duty shall inform the gate man to close and lock the gate. The gateman shall clear the road traffic and close the gate by operating the winch and extract key "X" from the winch. The key "X" shall be inserted into lever No.GF-2 and turned. This will release GF-2. When GF-2 is reversed it locks the gate booms and releases key-Y. The Gateman transmits the key "Y" electrically to panel in conjunction with GF-1 reversed. The SS/SM on duty shall then press the level crossing control button No.25 and common Group Release button. The L.C Gate closed indication will appear in the panel and SM can take off concerned signal. GF-1 can be used to put back the concerned signal in case of emergency.

After passage of train or completion of shunting, the SM on duty shall inform the Gateman and push L.C Gate control button No.25 and common Group Trans button to enable the Gateman to extract key 'Y' from the RKT instrument. Gateman shall normalize the lever GF-1 and insert, key-Y in lever GF-2. When GF-2 is normalized it will unlock the gate boom and release Key-"X". The Gateman shall extract the control Key-"X" from GF-2 and open the L.C Gate by operating the winch.

In the event of failure of any DN reception signal or UP despatch signals or during Non Interlocking working the Traffic Gateman shall be informed and the Train shall be passed in terms of SR 3.69.02, 3.69.03 and 3.70.01 after ensuring correct closing and locking of L.C Gate. During this period the L.C Gate shall be opened only when necessary & safe to do so.

The level crossing gate shall be so worked as to cause the least possible inconvenience to vehicular traffic in consistence with safety.

2. **INTIMATION TO GATEMAN:**

- i) Before taking off reception/departure signals Station Master/ DKLU shall inform the gateman, the number, description, and direction of the train.
- ii) The gateman shall close the gate and transfer the key to the Station Master.
- iii) The reception/departure signals will then e taken 'OFF'
- iv) In order to ensure that road traffic is not held up for a long time, the SM/ DKLU must ensure that the train is ready for departure in all respects before he advises the gateman for closing the gate.
- v) 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.

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) Station Master on duty/ DKLU shall send written advice to the gateman through the porter with full details of number, description and direction of the train.
- ii) Gateman on receipt of such advice shall close the gate and transmit the key to the Station Master/ DKLU, which will enable him to take 'OFF' reception/Departure signals.

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- iii) When sufficient time is not available because of greater frequency of train service, station Master/ DKLU will issue written authority to the train driver to pass the signal at 'ON' position.
- iv) In addition, Station Master/ DKLU shall also issue a caution order advising the driver to whistle continuously and approach the gate cautiously.
- v) The train driver shall be instructed to pass the gate cautiously, on before signaled by the gateman. If hand signal is not seen, driver should be prepared stop short of the gate and ensure that gate is closed following GR.3.73.
- vi) In case of an approaching train, the Station Master/ DKLU shall advise the Station Master/MNGD, under exchange of private number, that the telephone at the gate has failed.
- vii) The station Master/ MNGD shall then issue a caution order to the driver before dispatching a train into the block section from his end.
- viii) He should also advise S&T staff responsible for maintenance of the telephone rectify the defect at the earliest.
- ix) 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 SM on duty/ DKLU, under exchange of PN, and ensure the 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 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, gateman 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/ DKLU shall issue a caution order to the driver of a departing train.
- vi) He shall also advise the SM/ MNGD at the despatching end, under exchange of PN, to similarly issue a caution order to the driver before despatching an DN train into the block section from his end.
- vii) SM/ DKLU will advise maintenance staff responsible for maintenance of lifting barriers to repair the defect at the earliest.
- viii) Normal working will resumed only after maintenance staff repair the barrier 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 gate leaves or the key transmitter, then gateman must immediately inform the SM/ DKLU 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/ DKLU shall issue a caution order to the driver of a departing train.
- iv) He shall also advise the SM/MNGD at the despatching end, under exchange of PN, to similarly issue a caution order to the driver before despatching a train into the block section from his end.
- v) Station Master/ DKLU 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.

6. **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/ DKLU on telephone, under exchange of PN.
- 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) Gateman 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/ DKLU shall issue caution order to the driver of a departing train.
- v) He shall also advise the station Master/DKLU 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/ DKLU 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 repair the winch/key transmitter and issue reconnection/fit memo for the same.

**7. 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/ DKLU on duty, regarding the defects/obstruction at the gate, under exchange of private number.
- iii) Stationmaster/ DKLU on duty shall be advised to 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 / DKLU after two or three attempts, he shall first protect the gate and then inform on phone.
- v) Gateman shall then rush with detonators, fusee 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.1.4. (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 station Master/ DKLU who shall not start 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/ DKLU shall also inform the station Master/MNGD at the despatching end, under exchange of private number, asking him not to despatch any train in 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/ DKLU accordingly, under exchange of private number.
- x) Station Master/ DKLU 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 they're after exhibit green hand signal, if the gate is not obstructed.
- xii) Station Master/ DKLU shall advise maintenance staff responsible for maintaining the lifting barriers to repair the same at the earliest.
- xiii) Normal working will be resumed only after maintenance staffs rectify the defective lifting barriers and issue reconnection/fit memo for the same.

**8. 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/ DKLU will adopt the procedure given under item No. 7 above. If the obstruction fouls the level Crossing Gate, gateman must keep the gate closed against road traffic till the track is cleared of the obstruction.

## 2.0 GATE WORKING INSTRUCTIONS OF “C” CLASS ENGG. NON-INTERLOCKED LEVEL CROSSING GATE AT KM 265/4-5 (No.RV-216) BETWEEN DKLU-AMB STATIONS.

### 2.1 GENERAL INSTRUCTIONS: -

#### 2.1.1 DESCRIPTION OF THE LEVEL CROSSING GATE:

|     |   |  |
|-----|---|--|
| 1.  | Number of Level Crossing Gate: -                      | RV-216   |
| 2.  | Engineering or Traffic Gate: -                        | Engineering.   |
| 3.  | Under control of Station Master / PWI:                | PWI.   |
| 4.  | Location KM   | 265/4-5  |
| 5.  | At. Station: -  | ----   |
| 6.  | In between stations: -                                | AMB- DKLU.   |
| 7.  | BG/MG/NG: -   | BG.  |
| 8.  | Single line/Double line/Multiple line: -              | Double 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<br>ii) DN line - Nil                          |
| 13. | Signalling arrangement: -                             | NIL.   |
| 14. | Means of Communication:                               | Magneto Telephone Communication from Gate Goomty with SM/ AMB. |
| 15. | Width of level crossing Gate: -                       | 5.5 meters.  |
| 16. | Type of road. (NH/SH/Others): -                       | Others   |
| 17. | Name of Road: -                                       | AMB Road   |
| 18. | Metaled/Non:  | Metaled  |
| 19. | Approach Road: -                                      | Metaled.   |
| 20. | Width of the road: -                                  | 5.5m   |
| 21. | Angle of road crossing (In case of the skew Gates)    | (10 Degree).   |
| 22. | Road gradient (If any)                                | i) North/East side-.Level<br>ii) South/West side-Level         |
| 23. | Road alignment (Straight/Curve): -                    | i) North/East - Curve<br>ii) South-West - Curve                |
| 24. | Provision of height gauges: -                         | Not Provided.  |
| 25. | Type of Barriers: -                                   | Winch Operated Lifting Barriers                                |
| 26. | Length of check rails: -                              | 7.5 Meters.  |
| 27. | Road surface in between Level: -                      | Concrete Blocks.   |
| 28. | Length of speed breakers: -                           | 5.5 M  |
| 29. | Road signs: -   | Available  |
| 30. | Speed breaker indication board: -                     | Provided   |
| 31. | TVU: -  | 1665 on 10/2010  |
| 32. | Census next due on: -                                 | 10/2013.   |
| 33. | Demarcation for placement of Detonators: -            | Provided.  |
| 34. | No of Gateman working: -                              | 02   |
| 35. | Nearest Railway Medical Assistance: -                 | TIG  |
| 36. | Nearest Private Medical Assistance available (if any) | AMB.   |
| 37. | List of equipment available Yes//No: -                | Yes.   |

### 2.2. EQUIPMET:

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| <b>ITEMS</b>   | <b>QUANTITY/NUMBERS</b>   |
|--|---|
| 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 and 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<br>Wearing glasses.   | 1   |
| 19. Board demarcating protection<br>of level crossing Gate diagram<br>in case of obstruction on Gate . | 1   |
| 20. Basket   | 1   |
| 21. Whistle  | 1   |
| 22. Wall clock   | 1   |
| 23. Small size chain with padlocks to be used<br>in case of failure of boom lock.                      | 2   |

### 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.

### 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:**

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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 night time, 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 and blow the whistle to draw the attention of Driver & Guard of the passing train.

### 3. **ROUTINE DUTIES OF GATEMAN:**

- i) Gateman shall ensure that red banner flag 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/leaf gates 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 & 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 any thing 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/AMB, 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.

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

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

- i) In case of an obstruction at the level crossing gate, gateman shall maintain the gate signals, if an, in the 'ON' position.
- ii) Therefore, if he is unable to remove the obstruction, gateman shall immediately advise the Station Master on duty, if connected by telephone, 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 DOUBLE LINE:**

- i) If both lines are obstructed the Gateman shall plant a red banner flag by day and a red light by night 5 meters away from the line on which train is expected to arrive first.
- ii) Then he will similarly plant the other red banner flag by day and red light by night on the other line 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 on the line on which a train is expected to arrive first, to a point 600 meters on BG and place one detonator on the line. Thereafter he shall proceed to a distance 1200 meters on BG from the level crossing gate and place 3 detonators on the track 10 meters apart. Having thus protected the line he shall return to the L.C. gate picking up the intermediate detonator on his way back.
- v) Thereafter, he shall proceed on the other line, showing red hand signal, similarly place detonators as described in para (iv) above and return to the site of obstruction, picking up the intermediate detonators 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 light up and fix the fusee to warn the driver and 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/AMB and Permanent Way Inspector regarding the particulars and obstructions at the level crossing gate, through messenger or other means available.

2.5 **SPECIAL INSTRUCTIONS:**

1. **MODE OF OPERATION:**

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This is a Non-interlocked 'C' Class Engineering L.C.Gate situated at Km 265/4-5 between AMB-DKLU. This gate is provided with winch operated coupled lifting barriers and the gate is closed/opened manually by winch operation. Telephone communication is provided between the L C. gate lodge with SM of AMB station. The level crossing gate is normally kept closed and locked against road traffic and it is opened for passage of road traffic only when it is necessary and safe to do so. The gateman on duty shall obtain permission from the Station Master on duty/AMB before opening it and shall close the level crossing gate after passing the road traffic, under exchange of private number..

## 2. **EXCHANGE OF PRIVATE NUMBERS.**

- i) This Gate is normally closed to road traffic. Gateman must seek permission from Station Master /AMB for opening the Gate for the passage of road traffic.
- ii) Station Master /AMB shall ensure that there is no train movement within the block section. Thereafter Station Master /AMB shall give his private number to the Gateman allowing him to open the Gate for the purpose of clearing road traffic.
- iii) Suitable entries should be made by Station Master /AMB in the Train Signal Register & Private Number Book in red ink.
- iv) After passage of road traffic, the Gateman shall close the Gate and confirm this to the Station Master /AMB, supported by private number.
- v) Before any train is allowed to enter into the block section again, the Station Master/AMB must ensure that PN from the Gateman has been received as a token of his having closed the Gate.
- vi) Gate once closed for road traffic must on no account be opened unless the Gateman is authorized by the Station Master/AMB, under exchange of private number.
- vii) The SM /DKLU at the other end where Telephone connection is not provided with the gate shall not take 'OFF' the last stop signal for the DN train to enter into the block section unless SM/DKLU gets assurance from the SM/AMB supported by PN, that L.C. gate is closed.

## 3. **FAILURE OF TELEPHONIC COMMUNICATION:**

- When Telephonic Communication fails or SM/AMB does not get any response from the Gateman despite 2 or 3 attempts, the following procedure shall be adopted:
- i) The Station Master /AMB at the dispatching end shall issue a caution order to the driver before dispatching a 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 & depute his Assistant driver who will give the all right signal & if the Gate is not closed the Asst. driver must close the Gate and then give the all right signal. In the absence of the Asst. driver, the driver may take the assistance of the Asst. Guard/Guard. He shall stop his train clearing of the level crossing to pick up the Asst. driver who will reopen the Gate for passage of the road traffic.
  - iv) In case of a DN train, the Station Master /AMB shall advise the Station Master /DKLU exchanging messages with private number that the telephone at the Gate has failed.
  - v) The Station Master /DKLU shall then issue a caution order to the driver before despatching a train in to the block section from his end.
  - vi) Station Master /AMB/DKLU shall also advice to the Gateman through Gangman/Patrolman or driver of the first train that the telephone has become defective.
  - vii) Station Master/AMB 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 SM/AMB, under exchange of PN, & ensure that lifting barriers do not foul the track.

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- 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 driver of an approaching train.
- v) Station Master /AMB shall issue caution order to the driver of departing UP train.
- vi) Station Master /AMB shall also advise the Station Master /DKLU at the despatching end, under exchange of private number, to similarly issue a caution order to the driver before despatching a DN train in the block section from his end.
- vii) Station Master/AMB 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/AMB on duty regarding the defects/obstruction at the Gate under exchange of private number.
- iii) Station Master at AMB 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 /AMB after two or three attempts, he shall first protect the Gate and then inform him on phone.
- v) Gateman shall then rush with detonators, fusee 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 relay these details to the Station Master /AMB 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 /AMB shall also inform the Station Master /DKLU, 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 /AMB 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/AMB 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 staffs 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 SM/AMB 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 obstruction.

3.0 **GATE WORKING INSTRUCTIONS OF "A" CLASS ENGG. INTERLOCKED LEVEL CROSSING GATE AT KM 285/10-11 BETWEEN DKLU-MNGD STATIONS (NO. RV-225)**

**GENERAL INSTRUCTIONS: -****3.1 DESCRIPTION OF THE LEVEL CROSSING GATE:**

|     |   |  |
|-----|---|--|
| 1.  | Number of Level Crossing Gate: -                      | RV-225   |
| 2.  | Engineering or Traffic Gate: -                        | Engineering.   |
| 3.  | Under control of Cabin Master/P WI:                   | PWI.   |
| 4.  | Location KM   | 285/10-11  |
| 5.  | At. Station: -  | -----.   |
| 6.  | In between stations: -                                | MNGD- DKLU.  |
| 7.  | BG/MG/NG: -   | BG.  |
| 8.  | Single line/Double line/Multiple line: -              | Double Line.   |
| 9.  | Normal Position: -                                    | Open to road traffic.                                  |
| 10. | Interlocked/Non Interlocked: -                        | Interlocked.   |
| 11. | Means of interlocking: -                              | Gate signals.  |
| 12. | Provision of Gate signal at KMs                       | i) Up line km 285/7-8<br>ii) Dn line km 285/12-13      |
| 13. | Signalling arrangement: -                             | MACLS.   |
| 14. | Means of Communication:                               | Telephone Communication from Gate Goomty with SM/MNGD. |
| 15. | Width of level crossing Gate: -                       | 7 meters.  |
| 16. | Type of road. (NH/SH/Others): -                       | S.H  |
| 17. | Name of Road: -                                       | RGDA Road  |
| 18. | Metaled/Non Metaled:                                  | Metaled  |
| 19. | Approach Road: -                                      | Pucca.   |
| 20. | Width of the road: -                                  | 5.5m   |
| 21. | Angle of road crossing (In case of the skew Gates)    | (25 Degree).   |
| 22. | Road gradient (If any)                                | i) North/East side. ---<br>ii) South/West side-----    |
| 23. | Road alignment (Straight/Curve): -                    | i) North/East -Reverse Curve<br>ii) South/West -       |
| 24. | Provision of height gauges: -                         | Not Provided.  |
| 25. | Type of Barriers: -                                   | Winch operated lifting Barriers                        |
| 26. | Length of check rails: -                              | 7.5 Meters.  |
| 27. | Road surface in between Level: -                      | Concrete Blocks.                                       |
| 28. | Length of speed breakers: -                           | 5.5M   |
| 29. | Road signs: -   | Available  |
| 30. | Speed breaker indication board: -                     | Provided   |
| 31. | TVU: -  | 61512 on 10/2010                                       |
| 32. | Census next due on: -                                 | 10/2013.   |
| 33. | Demarcation for placement of Detonators: -            | Displayed.   |
| 34. | Number of the Gateman working: -                      | 03.  |
| 35. | Nearest Railway Medical Assistance: -                 | RGDA   |
| 36. | Nearest Private Medical Assistance available (if any) | MNGD.  |
| 37. | List of equipment available Yes//No: -                | yes.   |

**3.2. THIS GATE IS PROVIDED WITH EQUIPMENT AS PER SR 16.02.01 AND RECORDS AS PER SR 16.02.03 AS FOLLOWS:****EQUIPMENT:**

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| <b>ITEMS</b>  | <b>QUANTITY/NUMBERS</b>   |
|---|---|
| 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 and 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   |
| 20 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 chain 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:**

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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 and blow the whistle to draw the attention of Driver & Guard of the passing train.

3. **ROUTINE DUTIES OF GATEMAN:**

- i) Gateman shall ensure that red banner flag by day and red lamp by night is placed across the track in case of emergency and obstruction on the track.
- 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 & 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 the driver on walkie talkie or 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 SM, 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 by disconnecting the signal or the wire, if necessary.
- x) At the gate to signal have become defective, the gateman shall close and lock the lifting barriers on sighting a train and hand signal or pilot the train 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 and remain well conversant with these instructions.
- xiv) Gateman shall ensure that equipment supplied at the Gate is in good order and 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 and rammed in case of unmetalled 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 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:

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- 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 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, 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 on duty/ MNGD regarding the defects/obstructions at the Gate, under exchange of private number.
- iii) If there is no response from the SM on duty after three attempts, he shall first protect the Gate and then inform on phone.

a) **The Gateman shall protect the line as under: -**

- The gateman shall protect the line as under: -
- i) If both lines are obstructed the Gateman shall plant a red banner flag by day and a red light by night 5 meters away from the line on which train is expected to arrive first.
- ii) Then he will similarly plant the other red banner flag by day and red light by night on the other line 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 on the line on which a train is expected to arrive first, to a point 600 meters on BG and 400 meters on MG/NG and place one detonator on the line. Thereafter he shall proceed to a distance 1200 meters on BG and 800 meters on MG/NG 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 on the other line, showing red hand signal, similarly place detonators as described in para (iv) above and return to the site of obstruction, picking up the intermediate detonators 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 light up and fix the fusee to warn the driver and 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:**

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- 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 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 an interlocked Engineering L.C.Gate situated at Km 285/10-11 between DKLU-MNGD stations. 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 opened to road traffic. The key of the LC remains in the winch when the gate is open condition. When it is necessary to close the gate, for taking OFF signals or for train passing, the SM 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 releases lever No.GF-1. Lever No. GF-1 thus reversed effects boom locking and releases key No "H" and GF-2 & GF-3. The key "H" is inserted in the EKT at gate lodge and turned to release the gate signals then the lever No. GF-2 or GF-3 is reversed to take OFF concerned UP & DN Gate stop signals. GF-2 or GF-3 can be used to put back the concerned Gate stop signal, in case of emergency.

After passage of the Train or completion of shunting, the SM on duty shall inform the gateman, the gate man shall normalize the concerned GF-2 or GF-3 then GF-1 which will unlock the gate boom and releases Key 'G'. The gate man shall extract the control key 'G' from the GF-1 and open the gate for normal passage of road traffic by inserting the Key 'G' into the winch. The LC gate shall be so worked as to cause least possible inconvenience to the vehicular traffic consistence with safety as per subsidiary rule 16.03.01 (a).

Once the LC gate 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 with the specific permission of the SM/MNGD under exchange of PN if there is no train in the section.

#### 7. **INTIMATION TO GATEMAN:-**

- (i) Immediately after departure of the train, Station Master/MNGD shall advise the gateman through telephone connected at his end, the number, description, direction and expected time of passage of the train at the gate.
- (ii) This advice shall be given by the Station Master/ MNGD to the gateman as soon as he receives train entering section advice from the dispatching station SM/DKLU.
- (iii) If the actual running time of the train from either end of the section is less than 10 minutes, Station Master/ MNGD 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:**

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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/ MNGD shall issue a caution order to the driver of the departing train.
- (ii) Station Master/ MNGD shall advise the driver to whistle continuously and proceed cautiously while approaching the gate.
- (iii) In case the gate signal is 'ON' he should stop at the gate signal and follow the procedure laid down under GR 3.73.
- (iv) In case of an approaching train, the Station Master/ MNGD shall advise the Station Master /DKLU, under exchange of private number that the telephone at the gate has failed.
- (v) The Station Master/ DKLU 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/ MNGD will also advise the gateman through Gangman/Patrolman/Driver of the first train that the telephone has become defective.
- (vii) Station Master/ MNGD 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 rectify the telephone and issue reconnection/fit memo for the same.

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

When the gate cannot be closed due to failure of lifting barriers, the gateman shall immediately inform the Station Master on duty/ MNGD under exchange of private number, and ensure that lifting barriers do not foul the track.

- (i) 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.
- (ii) Gateman shall secure the gate against road traffic by means of safety chains and padlocks.
- (iii) 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.
- (iv) Station Master on duty/ MNGD shall issue caution order to the driver of a departing train.
- (v) He shall also advise the Station Master/DKLU, under exchange of private number; to similarly issue a caution order to the driver before dispatching a train into the block section.
- (vi) Station Master/ MNGD shall advise maintenance staff responsible for maintaining the lifting barriers to rectify the same at the earliest.
- (vii) Normal working will be resumed only after maintenance staff repair the lifting barriers 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 Station Master/ MNGD on duty on telephone, under exchange of private number.
- (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 on duty/ MNGD shall issue caution order to the driver of a departing train.
- (iv) He shall also advise the SM/DKLU 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 his end.
- (v) Station Master/ MNGD 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 repair the key transmitter and issue reconnection/fit memo for the same.

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

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- (i) If the gate key cannot be extracted from the winch, gate signal lever or key transmitter then gateman must immediately inform the Station Master/ MNGD on duty on telephone, under exchange of private number.
- (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) Station Master on duty/ MNGD shall issue a caution order to the driver of a departing train.
- (v) He shall also advise the Station Master/DKLU 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/ MNGD 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, or
  - (c) The key can be extracted from the gate lever when the gate is in open condition.
- (ii) If the Gate or the Gate Signal or Warner/Distant Signal becomes defective in 'OFF' position, the gateman will make all efforts to put it at 'ON' position even by cutting signal wire/power, if necessary.
- (iii) The gateman will immediately advise the Station Master on duty/ MNGD, 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 and green light by night to the passing train after closing the gate.
- (vi) Station Master on duty/ MNGD will issue a caution order to the driver of departing train.
- (vii) He shall also advise the Station Master/DKLU under exchange of private number, to similarly issue a caution order to the driver before despatching train into the block section from his end.
- (viii) Station Master/ MNGD 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 rectify 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 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 put back gate signals to 'ON' position.
- ii) He shall fix red banner flag by day and red lamp by night on posts provided at both ends of the gate.
- iii) Immediately after this, the gateman shall advise the station Master/ MNGD on duty regarding the defects /obstructions at the gate, under exchange of private number.
- iv) If there is no response from the Station Master / MNGD after two or three attempts, he shall first protect the gate and then inform on phone.
- v) Gateman shall then rush with detonators, fusee 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 reply these details to the station Master/ MNGD who shall not start 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/ MNGD shall also inform the station Master/DKLU 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/ MNGD accordingly, under exchange of private number.
- x) Station Master/ MNGD 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 they're after exhibit green hand signal, if the gate is not obstructed.
- xii) Station Master/ MNGD shall advise maintenance staff responsible for maintaining the lifting barriers to repair the same at the earliest.
- xiii) Normally working will be resumed only after maintenance staffs rectify the defective lifting barriers/leaf gates 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/ MNGD will adopt the procedure given under item No, 8 above, If the obstruction fouls the level Crossing Gate, gateman must keep the gate closed against road traffic till the track is cleared of the obstruction.

**APPENDIX – 'B'**

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

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**1.0 BRIEF DESCRIPTION OF THE SIGNALLING & INTERLOCKING INSTALLATIONS:**

This is a 'B' Class Station with Standard III Interlocking (with isolations). The points and Signals are power operated from composite miniature central panel installed in the Station Master's Office. The Station is equipped with manually operated Multi Aspect Colour Light Signalling.

**1.1 DESCRIPTION OF PANEL:**

The yard layout is depicted on the panel and the panel is fixed parallel to the track so that when SM/SM on duty faces the panel, the yard drawing of the panel corresponds to the actual layout.

**1.1.1 DESCRIPTION OF POINT PUSH BUTTON (RUNNING LINE POINT) :-**

| SL.NO | POINT NO. | COLOUR OF BUTTON | DESCRIPTION  |
|-------|-----------|------------------|--|
| 1     | 18        | BLACK            | Cross-over point between DN and UP Main line at MNGD end.                    |
| 2     | 19        | BLACK            | Cross-over point between DN and UP Main line at AMB end.                     |
| 3     | 20        | BLACK            | Cross-over point between DN Main line and line No.4 (DN loop) at MNGD end.   |
| 4     | 21        | BLACK            | Cross-over point between DN Main line and line No.4 (DN loop)at AMB end.     |
| 5     | 22        | BLACK            | Cross-over point between UP Main line and line No.1 (Common loop)at MNGD end |
| 6     | 23        | BLACK            | Cross-over point between UP Main line and line No.1 (Common loop)at AMB end  |

**1.1.2 DESCRIPTION OF POINT GROUP BUTTON: -**

These are two buttons at the top of panel one for Normal and one for Reverse operation of points. These are coloured Black with red dot. The button is operated in conjunction with point button to operate the concerned point to the required setting.

**1.1.3 OPERATION OF POINTS BY POINT PUSH BUTTONS: -**

Points are operated for NORMAL to REVERSE or vice versa by operating concerned point push button along with common point group button for normal or reverse operation. When the points are required to set from normal to reverse, the concerned point push button along with common point group button for reverse operation are to be pressed simultaneously. As soon as the operation is initiated the RED indication will start flashing till the point is correctly set to reverse at site and GREEN indication glows. Similar operation shall be done when the points are required to be set from reverse to normal. Only one point can be operated individually at a time.

**1.2.0 POINT INDICATIONS: -**

Points are normally operated automatically along with route setting operation. However, required points can also be operated individually. For this, POINT BUTTONS, which are BLACK in colour, are fitted over the point layout on the panel board. The individual operation of the electric point machine is controlled by these point push buttons in conjunction with the POINT GROUP BUTTON (which are BLACK with red dot on it) 'N' or 'R' as per requirement fitted on the top of panel board. These 'N' & 'R' positions are indicated on a small nameplate written below point buttons. On the name plate three luminous indications are provided for each point as follows: -

1.2.1. When a point is set and locked in Normal position, a 'WHITE' indication appears suggesting that the point is set in NORMAL position.

- 1.2.2 When a point is set and locked in REVERSE position, a 'GREEN' indication appears suggesting that the point is set in REVERSE position.
- 1.2.3 When the points of any route have been correctly set and relevant signal taken 'OFF', RED indication appears indicating that the concerned points are locked either in NORMAL or REVERSE position as the case may be.
- 1.2.4 When the points are not set or locked either in NORMAL or in REVERSE correctly, the normal and reverse indication will not be there but the RED indication will start flashing till such time the point is housed & locked properly in one of the positions. In such case points are to be set both ways by crank handle and clamped and padlocked. This RED indication will flash during operation of point also. After completion operation of point during crank handle operation, NORMAL or REVERSE indication appears on panel
- 1.2.5 All points over running lines are operated by electric point machines

1.2.4 **NON SETTING OF POINTS:** -

The cause for non-setting of the point in the desired position shall be checked up by the SS/SM on duty according to GR & SR 3.68.01 (C). If there is a defect other than any obstruction, then the point shall be considered defective and action shall be taken for clamping and padlocking of these points in the desired position by Station Master on duty himself for all trains according to SR 3.69.03 (C). In such case both ends of the points shall be clamped and padlocked.

1.2.5 **DESCRIPTION OF CRANK HANDLE BUTTONS:** -

All motor operated points in the yard have been grouped into four crank handle zone for emergency / manual operation of points by crank handles as follows:

| SL NO. | CRANK HANDLE | COLOUR OF BUTTON | CONTROL POINTS           |
|--------|--------------|------------------|--------------------------|
| 1      | CH1          | BLUE             | 18 A and B               |
| 2      | CH2          | BLUE             | 19A and B.               |
| 3      | CH3          | BLUE             | 20A and 20B, 21A and 21B |
| 4      | CH4          | BLUE             | 22A and 22B, 23A and 23B |

Crank Handle buttons must be operated in conjunction with GROUP TRANS or GROUP RELEASE button to transmit or receive the crank handle.

1.3.0 **SIGNAL PUSH BUTTON:**

Push buttons for operation of signals are provided near the signals on the panel. These are operated in conjunction with Route button (white coloured) to operate the signals.

1.3.1 **DESCRIPTION OF SIGNAL BUTTONS:**

| SL.NO | BUTTON NO. | COLOUR | DESCRIPTION                      |
|-------|------------|--------|----------------------------------|
| 01    | S1         | RED    | UP Home Signal for Line No. 1& 2 |

|    |     |                    |   |
|----|-----|--------------------|---|
| 02 | C1  | RED with WHITE DOT | UP calling on Signal for line No. 1 & 2   |
| 03 | S2  | RED                | DN Home Signal for Line No.1, 3 & 4       |
| 04 | C2  | RED with WHITE DOT | DN calling on Signal for line No.1, 3 & 4 |
| 05 | SH3 | YELLOW             | Shunting towards line no. 1, 2, 3 & 4     |
| 06 | SH4 | YELLOW             | Shunting towards line no. 1 & 2           |
| 07 | S7  | RED                | UP starter from line No.1                 |
| 08 | S8  | RED                | DN Starter on line No. 4                  |
| 09 | S10 | RED                | DN Starter from line No.1                 |
| 10 | S11 | RED                | UP starter from line No.2                 |
| 11 | S12 | RED                | Main Line (Line No.3) DN Starter.         |
| 12 | S13 | RED                | . UP Advanced starter signal towards MNGD |
| 13 | S14 | RED                | DN Advanced starter signal towards AMB.   |

### 1.3.2. **SIGNAL INDICATIONS:** -

All signals in the yard are depicted on the panel along side the track as per their respective position in the yard. The aspects of all signals in the yard, at any time, are shown on the signal indications depicted on panel.

### 1.4 **ROUTE BUTTONS:** -

Route buttons are provided separately on each running line on the panel for initiation of route (viz. L1 UN, L1 UN1, L2 UN, L3 UN, L4 UN, L4 UN1). Common route buttons are also provided for taking off starters (viz.: 13AT UN, 14 ATUN). An individual route button is provided for taking off Advance starter (Viz.: 13 UN, 14 UN). For clearing the signals it is necessary to operate the signal buttons and the concerned route button concurrently. In the panel, the routes are set automatically by operation of entry and exit button.

### 1.4.2 **DESCRIPTION OF ROUTE BUTTONS**

| SL.NO. | BUTTON | COLOUR | DESCRIPTION |
|--------|--------|--------|-------------|
|--------|--------|--------|-------------|

|    | NO.     |                      |   |
|----|---------|----------------------|---|
| 1  | L1 UN   | WHITE                | Common route button for UP or DN Home, Calling-on or back shunt (SH3 or SH4) for line No.1 (Common loop) setting overlap Up to advanced starters.   |
| 2  | L1 UN1  | WHITE with BLACK dot | Common route button for UP or DN Home, Calling-on or back shunt (SH3 or SH4) for line No.1 (Common loop) setting overlap Up to end of over run line |
| 3  | L2 UN   | WHITE                | Common route button for UP, C-1 or back shunt (SH3 or SH4) for line No.2 (UP Main line) setting overlap Up to advanced starters.                    |
| 4  | L3 UN   | WHITE                | Common route button for DN Home, C-2 or back shunt SH3 for line No.3 (DN Main line) setting overlap Up to advanced starters.                        |
| 5  | L4 UN   | WHITE                | Common route button for DN Home, C-2 and back shunt SH3 for line No.3 setting overlap Up to advanced starters                                       |
| 6  | L4 UN1  | WHITE with BLACK dot | Common route button for DN Home, C-2 and back shunt SH3 for line No.3 setting overlap Up to end of over run line                                    |
| 7  | 13AT UN | WHITE                | Common route button for UP starter signal No. 7 & 11.   |
| 8  | 13 UN   | WHITE                | Route button for UP advanced starter signal No. 13.   |
| 9  | 14AT UN | WHITE                | Common Route button for DN starter signal No.8, 10 & 12.  |
| 10 | 14UN    | WHITE                | Route button for DN advanced starter signal No.14.  |

### 3.0 **TRAIN ARRIVAL INDICATION THROUGH AXLE COUNTER:**

The system provides for automatic check for last vehicle arrival through provision of axle counter. Axle counters are provided in Muniguda - Doikalu and Doikalu – Ambodala UP and DN sections to check the complete arrival of trains. The system is interlocked with respective Block Instrument. When the Axle counter section indication provided for each direction on the panel individually for sections indicates 'RED' i.e. occupied even after the complete arrival of trains, the Block instrument of the respective section can be normalized after ensuring complete arrival of trains by means of physical verification of last vehicle for stopping as well as run through trains (refer resetting procedure of Axle counter).

### 4.0 **POWER FAILURE:**

Normal power supply to the signalling and interlocking installations at this station is drawn from Normal power supply to the signalling and interlocking installations at this station is drawn from

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OSEB power supply source (AC 230 Volt / 50 Hz). In SM's Office there is SM power panel, which represents the voltage of the integrated power supply system.

1. In case voltage drops 105.9V an audible buzzer appears for starting Generator.
2. In case voltage drops 105.1V an audible buzzer appears for emergency start of Generator.
3. In case voltage drops 104.3V an audible buzzer appears for system shut down.

The SM now has to start the diesel generator for standby (Auxiliary) power supply. After stable run of the Diesel generator, the SM on duty has to operate the change over switch for connecting the auxiliary supply to the signalling installation. On resumption of power supply, the Diesel generator shall be stopped by SM on duty after isolating Diesel generator by change over switch. Each time the power supply goes OFF or ON SM on duty shall acknowledge. In case of any audible buzzer in SM's power panel, SM on duty should acknowledge the buzzer by pressing 'buzzer' stop button.

- 4.1 Inverters are provided to prevent possibility of blank signals in case of SEB power supply failure. Whenever SEB power supply fails inverter will immediately extend power supply to signals thereby preventing blank signals.
- 4.2 Based on the indication shown in the SM's Power Panel SM on duty should start DG for avoiding any case of shut down of power sub system of Integrated Power Supply system.
- 4.3 Solar Power supply is provided in the station as standby, power supply.
- 4.4 If there is any indication on SM's power panel regarding deviation in IPS system call S&T staff.

5.0 **LEVEL CROSSING GATE CONTROL BUTTON ('C' CLASS AT KM: 275.761) :**

A chocolate colour button with two indications, one RED and one GREEN, provided for L.C.gate control No.25 which controls L.C.gate at Km 275.761 towards MNGD end. Steady GREEN indication indicates that the gate is closed and the RED indication indicates that the gate is locked. When the gate is opened there shall not be any indication. To open the gate SS/SM has to transmit the gate control key to gate lodge by pressing control button No. 25 (chocolate) along with Group Trans button on the panel. A flashing green indication will appear on the panel indicating that the control key has been transmitted. When the control key is required to be withdrawn the gateman has to transmit the control key to panel after closing the gate. A flashing green indication will appear on the panel on seeing this SS/SM on duty shall receive the control key by pressing gate control button and Group release button on the panel. A steady green indication will appear on the label indicating that the gate is closed.

5.1 **EMERGENCY ROUTE RELEASE COUNTER**

This counter is provided to register the number of operations made for emergency cancellation of route. The SS/SM on duty must record the last number registered on the counter while taking over/ handing over duty.

6.0 **EMERGENCY ROUTE RELEASE INDICATION (WHITE) / EMERGENCY ROUTE RELEASE BUTTON (WHITE WITH RED DOT)**

This panel interlocking is based on the principle of 'DEAD APPROCH LOCKING'. As such when a route is set and signal is taken off on the route, the route gets locked. Normally the route is released by the passage of the train over the route. When it becomes necessary to alter the route after the signal has been taken off vide SR 3.36.02 (a), the concerned signal must be put back to Danger by pressing the Signal cancellation button (RED) and the concerned signal button. Then the emergency route release button (WHITE WITH RED DOT) positioned in the top of panel to be pressed after breaking the seal and subsequently the concerned signal button pertaining to the route is to be pressed. A white light will flash (Up or Down) indicating that the



timer is working. After 120 seconds, the white light along with the white strip of light will disappear suggesting that the route has been released. In case the route illumination (a white strip of lights) does not disappear after passage of train, it suggests that the route is not released/cancelled. In such case the emergency cancellation of route has to be resorted to.

The concerned S&T staff should be advised immediately to get the emergency route release button resealed after rectification of fault if any. Each operation of emergency cancellation of route is recorded in the emergency route release counter by registering the next higher number. All such operations and the new number should be recorded in the station diary, in train signal register and in the register meant for it.

#### 8.0 **EMERGENCY POINT OPERATION (BLACK WITH RED DOT):**

Emergency point operation facility is provided to operate point from the panel in the event of failure of track circuit controlling the point. A push button (BLACK WITH RED DOT) is provided on the top of panel. If such operation is necessary, the SM on duty, after ensuring that no vehicle is standing on the concerned point track circuit, shall insert SM's emergency point operation key in, turned and shall push the emergency Point operation button by breaking the seal and then operate the required point button. Retaining the point button pressed, SM shall release the emergency point operation button and press the point group button (N or R). After pressing the emergency point operation button and point button and indication will appear near emergency point operation button and a number will increase in the emergency point operation counter. Each operation of emergency point operation shall be recorded in the station diary and in the register meant for this purpose. Before initiating emergency point operation when the concerned point zone track circuit is showing occupied, SM on duty must carry out physical verification at site to ascertain that the said track circuit is clear of vehicles. The concerned S&T staff should be advised immediately to get the emergency point operation button resealed after rectification of fault if any.

#### 8.0 **BUTTON HELD ACKNOWLEDGEMENT BUTTON (WHITE WITH RED DOT):**

All push button are self-restoring type. A button held acknowledgement push button (white with red dot) along with a white strip is positioned at the top of the panel. When any button gets stuck in pressed condition, a buzzer will sound along with flashing white light Indication. The Station Master shall stop the buzzer by pressing the button held acknowledgement button (white with Red dot). The buzzer will stop but the flashing white light will continue to glow till the pressed button is normalised. SM on duty shall try to find out the pressed button for normalisation or otherwise inform the maintenance staff to rectify.

#### 9.0 **OVERLAP TIME RELEASE INDICATION (WHITE LIGHT) :-**

These are two indications (white lights) for UP overlap time release and DN overlap time release to indicate the release of overlap. These indications will flash during releasing of overlap

#### 10.0 **TRACK CIRCUITS: -**

The station yard is fully track circuited from Home signal to Home signal and also for 7 rail lengths in rear of the Home signals on either side. Track circuits 1AT and 2AT are calling-on track circuits. 18AT, 18BT, 20T, 22AT, 22BT, 19AT, 19BT, 21AT, 21BT, 23AT & 23BT are Point zone track circuits. L1T1, L1T2, L1T3, L2T1, L2T2, L2T3, L3T1, L3T2, L3T3, L4T1, L4T2, L4T3 are berthing track circuits. Other track circuits namely 1T, 1T1 14AT, 14T, 2T, 2T1, 13AT, 13T are for signal replacement, route holding and trolley suppression. Indications for all track circuits are indicated on the panel. Normally these are not lit when the track circuits are clear. And RED light appears when the track circuit is occupied/failed. White lights for the track indications appear when the relevant route is set. In case of failure of any track circuit, the controlled

signals or points are to be treated as non-interlocked and trains shall be worked as per relevant rules.

11.0 **STATION MASTER'S PANEL CONTROL KEY: -**

The panel is fitted with Station Master's lock up key to prevent any unauthorized operation of the Panel. The SM/SS on duty is the only authorised person to operate the panel and the panel Key must always remain in his personal custody vide SR 3.36.03 & GR 5.08. The key locks the panel board and no operations are possible. In case of emergency, signals can be put back to danger by operating concerned signal button and Signal cancel button without releasing the panel lock also. However, the provisions of SR 3.36.02 shall be followed while replacing the signals to 'ON'.

12.0 **CRANK HANDLE CONTROL KEY AND OPERATION: -**

When any point fails to operate normally by the route setting operation or through the concerned Point button from control panel, it is inevitable to operate the points with crank handle. Crank handle keys are interlocked with signals and interlocking system. Crank handle keys have been provided for all motor operated points at the station. The Crank Handle push buttons CH1, CH2, CH3 CH4 (BLUE) and Group Trans/Release button (WHITE WITH BLACK DOT) are provided at the top of the panel board. The CH button has two indications, viz. WHITE, and RED. The WHITE indication suggests that the crank handle key is in its interlocked position of the panel. This is called Crank Handle Key 'IN' indication. The RED indication suggests that the crank handle key is locked and not free for extraction from RKT. This is called 'Crank handle key LOCKED' indication. When there is no light or blank, it suggests that the key is out of RKT. The crank handle key in RKT in the end locations can be released from the RKT. The SM has to press concerned crank handle button and Trans button. This will enable SM/TP to extract crank handle key CH-1/CH-2/CH-3/CH-4 from RKT at end location. SS/SM/TPM on duty after extracting the crank handle key from RKT at end-location, insert it in the slot provided for it on the point machine and turn it to open up the slot for insertion of crank handle in the point machine. After inserting the crank handle in the point machine he shall operate it to set the point in desired position. After completion of point work the crank handle key is to be inserted in the RKT at end location and transmitted to station. Station Master on getting 'Key IN' flashing indication that will appear on panel, shall press relevant CH button & Group Release button to get the steady key "IN" indication. SS/SM on duty shall personally ensure clamping and padlocking all facing and trailing points en-route. The cases of failure of Motor operated points should be promptly reported to the concerned ESM/Signal Inspector for immediate rectification. SS/SM on duty as per OM 20.06 (d) shall maintain an emergency crank handle register. The procedure for use of crank handle for Motor operated points shall be followed in terms of operating Manual 20.06.

13.0 **SETTING OF ROUTE AND TAKING OFF RECEPTION SIGNALS: -**

For setting a route all the concerned points must be set by operation of relevant point button and group button one at a time in the desired position or by operating signal button and route Button. As soon as the points on route, overlap and isolation are set to the required position, the concerned signal for the route will clear and a white strip of light will appear on the entire route confirming that the Route is set & locked. The signal 'off' indication will appear on the panel provided other conditions for taking 'OFF' reception signals are satisfied.

14.1 **SETTING OF ROUTE AND TAKING OFF DEPARTURE SIGNALS:**

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For setting a particular route for departure of a train, all the concerned points must be set by operation of point button and point group button one at a time in the desired position or by operating signal button and route button. To take off Advanced starter, line clear must be obtained from the concerned block station in advance. Then the concerned Advanced starter signal button shall be pressed along with the Advanced starter route button to be pressed for two to three seconds and released. This will clear the Advanced starter signal and a white strip of light will appear on the panel up to the foot of the Advanced starter signal.

To take off the starter signal the concerned signal button to be pressed and at the same time common Route button to be pressed for two to three seconds and released. This will clear starter signal and a white Strip of light will appear on the route from the concerned Starter to the Advanced starter signal.

#### 14.2.0 **TAKING OFF CALLING-ON SIGNAL:** -

Miniature colour light Calling on signal is provided below the Home signals in terms of GR 3.13(6)(b). A Calling on signal shows no light in the 'ON' position. A calling on signal is taken 'OFF' for reception of a train when the Home signal above it cannot be taken 'OFF' due to failure or any other reason or for admission of train on blocked line.

14.2.1 To take off Calling-on signal the train must come to a stop at the foot of the home signal, occupying the track circuit in rear of the signal. When a train occupies the track circuit a RED light strip will appear on the panel. The particular route on which train is intended to be received shall be set by operating by point push button and group button individually or by signal and route button pressing or by crank handling in the event of failure of operation of points through panel. After the route is set, the calling-on signal switches 'C1'/'C2' (RED WITH WHITE DOT as the case may be), shall be pressed simultaneously along with the concerned route button for few seconds and released. After a lapse of 120 seconds, the calling on signal clears i.e., a white light glows at the concerned calling on signal on the panel. For loop lines, route button UN or UN1 shall be pressed for respective setting of the overlap points. Each operation of Calling On signal shall be registered in respective Calling On signal counter (UP or DN) by registering next higher number. A separate register is to be maintained for this purpose.

#### 14.3.0 **RELEASE / CANCELLATION OF ROUTE:**

Normally when a train is received on any route and dispatched, the route illumination will disappear automatically after passage of the train suggesting that the route is released.

#### 14.4 **REPLACEMENT OF SIGNALS TO 'ON':**

Signals are replaced to 'ON' automatically by the passage of a train past the signal. It will not be possible to re-clear the signal again unless the due process for clearing the signal is repeated again. For replacement of any signal to 'ON' position manually, the respective signal button and the signal cancellation button (RED) to be pressed simultaneously.

#### 14.5.0 **INTERLOCKING OF SIGNALS/POINTS:**

All running line points are fitted with facing point locks in the point machine and are electrically detected by the relevant home signal and starters.

14.5.1 Advanced starter is interlocked with respective block instrument in sending position i.e., train going to position and by axle counter for last vehicle check.

14.5.2 The block instrument cannot be made normal unless the respective Home signal is put back to 'ON'.

14.5.3 Signals once taken 'OFF' can be put back to danger in case of emergency by pressing concerned signal button and signal cancellation button even when the panel is locked up with Station Master's key.

14.6 **PILOTING OF TRAINS:** -

In the event of failure of both Home signal and Calling ON signal simultaneously, it is inevitable to pilot the train 'IN'. For piloting the train, the setting of route must be ensured by SM/SS on duty personally and the points en-route must be clamped & padlocked at both facing & trailing end by Operating staff. Same procedure shall be adopted when route illumination fail to disappear. Facing and trailing ends of the all motor operated points must be clamped and padlocked while piloting 'IN' or 'OUT' and during non-signalled movement.

14.7 **SHUNTING:**

For shunting, OFF aspect of starter signals shall be used. For back shunting, shunt signals provided on each side of the yard shall be used. For back shunting the SS/SM on duty shall press the concerned shunt signal button (YELLOW) along with route button of the route to clear the shunt signal. For back shunting on the loop lines UN1 route buttons shall be used.

15 **NON RUNNING LINE:** -

The goods siding taking off from Line No. 1 (CSL 85 meters) with bothside entry has been provided. Whenever it is required to place or draw out a wagon/vehicle in the goods siding its control button 24 (BLACK) is to be pressed along with Group Trans button (WHITE WITH BLACK DOT), which will enable the SM to extract the key S1 & S2 from the EKTs. Hand plunger lock of one end of the siding point shall be unlocked by S1 and the other end by S2, then points to be set, clamped, padlocked for any shunting in the siding. After the completion of shunting the siding points shall be normalised, locked by means of Hand Plunger Lock, key S1&S2 shall be inserted in the EKT and transmitted to the panel. SM on seeing the key-in indication on the panel shall press the buttons 24 and group release button (WHITE WITH BLACK DOT), the key is thus transmitted to the panel showing the lock (RED) indication..

16.0 **VERIFICATION OF LINE CLEARANCE BY STATION MASTER ON DUTY FOR RECEPTION OF TRAIN INTO STATION YARD:** -

In the Station yard, a route on the running line comprises of entrance, berthing and dispatch portion of the yard and this portion of the yard should be clear of any obstruction for the passages of any train or for any other movements. The clearance of the route including overlap must be ensured by the SS/SM on duty personally through panel indications of track before any movement of trains are permitted on the concerned route subject to the other conditions such as locking of the point's etc.

17.0 **CRANK HANDLING EMERGENCY OPERATION OF POINTS:**

Crank handle operation is interlocked with the signalling and interlocking system. When a route is not released after passage of a train or the Crank handle is in locked condition due to any failure, the "CH key" can also be extracted from the CH location box by applying emergency Crank Handle operation. The procedure is same for transmitting the CH key. In key "in" and lock condition, when the CH button and group trans button are pressed simultaneously, both the lock indication and key "in" indication start flashing. After 120 seconds the lock indication disappears and the key in indication continues to flash. At this position the key can be extracted from the RKT in the CH location box by pressing the push button switch provided inside the CH location box. The procedure for receiving the CH key is same like the normal operation of Crank handle.

On account of the doubtful operation of any track circuit by a light vehicle including self-propelled vehicle such as motor trolley or light steam/Diesel shunting engine or tower wagon,

indicating the occupancy of track, it is necessary that the SS/SM on duty satisfies himself that the said vehicle has cleared the point zone track circuits by observing the track indications of the track on either side of the crossovers by positively checking the “entrance” and “exit” track circuits are showing occupancy and clearance in accordance with the train movement.

18.0 **INSTRUCTIONS REGARDING STABLING OF TRAINS ON RUNNING LINES:**

When a train is stabled on a running line for a duration exceeding ten hours, the use of the said running line for passing the trains ‘IN’, ‘THROUGH’ or ‘OUT’ at the station shall be done with a lot of care and diligence. SS/SM on duty shall meticulously observe the proper functioning of the relevant track circuits (occupancy/clearance) while admitting a train. Such observance should continue for a minimum of four to five trains thereafter. If SS/SM on duty is not satisfied with the proper functioning of the track circuits on which the train was earlier stabled, the signals leading on the line shall be suspended and the S & T maintenance staff be informed for attending to this.

19.0 **EMERGENCY OPERATIONS:**

The following are the instructions for emergency operations.

20.1 **EMERGENCY ROUTE CANCELLATION BUTTON AND VEEDER COUNTER: -**

There is a ‘VEEDER COUNTER’ for counting emergency operations involving operation of the emergency route cancellation button (provided at the top of the panel). The SM on duty must press the emergency route cancellation button and the signal button conforming to the section for which emergency route release is desired. A flashing indication will appear indicating that the cancellation operation has been initiated and after lapse of 120 seconds, the desired route will release provided all other conditions are favourable for route release.

The Veeder counter registers the number of such emergency cancellation operations. SM on duty should specify the cause for its usage giving the particulars of causes and the time of operation as related to a particular train etc. in the train signal register as well as in a separate register meant for this purpose.

20.2 **EMERGENCY OPERATIONS – CANCELLATION OF THE LOCKING OF POINTS NOT RELEASED AFTER THE PASSAGE OF THE TRAIN FOR WHATEVER REASON: -**

If the locking of the route does not get released for one reason or the other after passage of the train, it is necessary to take recourse to the following emergency operations.

- a) Firstly, it must be ensured that the Signal is in the normal position.
- b) Operation as detailed in para 6.0 of Appendix-B to be followed.

In case route is not released even after emergency route cancellation, facility of crank handling of points shall be used. For releasing the crank handle even when lock indication of crank handle appears on the panel, press Group Trans button and crank handle button. After two minutes, key from RKT can be extracted. For further operation 17.0 of Appendix ‘B’ shall be followed.

20.4 **EMERGENCY GATE RELEASE OPERATION:**

Emergency gate release operation facility is provided in the panel when the route gets locked out of some failure. For emergency release of gate, the SM on duty shall press emergency gate release button and gate button no.25. After a lapse of 120 secs, a red light will glow over the emergency gate release button indicating that the operation is matured. The SM on duty shall then operate push button no.25 and group Trans button to release the key from RKT in gate lodge. All such operations will be registered in the emergency gate operation counter. SS/SM shall record all such operations in the station diary & in the register meant for it. Normally the

emergency gate release button is in sealed condition. The concerned S&T staff should be advised immediately to get the emergency gate release button resealed after rectification of fault if any.

21.0 **LOCKING OF RELAY ROOM: -**

The relay room should be kept locked with two separate locks, the arrangement should such that one key is kept with the on duty SM in his custody and the other key with the signal maintainer. Whenever required, the Station Master shall hand over the key to the maintainer with proper arrangement with proper acknowledgement in the basement/Relay room key register. The maintainer on receipt of the key from the station master may use the same and the key in his custody to open the relay room by inserting the keys one after another separately into the earmarked locks.

After completion of work, the relay room is to be locked using both the keys separately and designated key should be handed over to the SS/SM on duty. The details of the transaction should be properly recorded in the relevant register at the Station duly signed by SS/SM on duty and the signal staff concerned vide SR 3.51.05. If the relay room key is handed over to the Signal staff regarding the interference in safety gears, the train shall be piloted in & piloted out.

22.0 **MAINTENANCE OF S&T INSTALLATION & ADHERENCE TO MAINTENANCE SCHEDULES:**

Regular maintenance of the S&T installations, adherence to schedules of maintenance, testing of points, track circuits, ground frames, associated interlocking apparatus, cables and the interlocking functional tests is must for safe and satisfactory working of these installations at this station.

The tests, checks and replacements etc., including overhauling shall conform to the schedules of maintenance as indicated in the Signal Engineering Manual as also as per the current and extant instructions/circulars on the subject. During checking/ testing or during day to day as well as regular maintenance of S&T gears, SM on duty shall co-operate with S&T staff for safe and satisfactory maintenance.

22.1 **PROCEDURE TO BE FOLLOWED IN CASE OF FAILURE OF A SIGNAL INTERLOCKING INSTALLATION: -**

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 3.51.04 and 3.68.04 and the SM shall document all such transactions.

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

However, before declaring a signal or any other S&T gear as defective, SS/SM on duty shall verify them and setting of points on the route and overlap for a signal to which it applies shall be inspected by the SS/SM on duty irrespective of the position of buttons and indications on the panel and will work vide GR 3.68.

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

On receipt of information, the sectional Maintainer shall attend to the failure after giving a Disconnection Memo. After rectification of the fault, the Sectional Maintainer shall give a Reconnection Memo detailing the rectification. Thereafter, the SS/SM on duty shall personally check the defective apparatus. After satisfying himself that the gear is in good and proper working order, he shall resume the normal working of the said defective apparatus in terms of SR 3.68.04 (c), (d), (e) & (f).

- 22.4 **PROCEDURE FOR CARRYING OUT PLANNED MAINTENANCE WORK:** -  
Whenever any normal maintenance or special works for major renewals etc., are involved, the signal & Telecom should pre plan these works. Field staff and the JE/SE/SSE(SIG) should give 'Advance Intimation' to the SM on duty in writing about this work in terms of SR 15.08.01.
- 22.5 **EMERGENCIES:** -  
Notwithstanding anything contained in the aforesaid paras when equipment is found to be defective and unsafe for passage of trains, the Signal & telecom. Staff must at once suspend the working of the equipment and associated installations and issue 'Suspension Memo' explaining the seriousness of defect or damage to the interlocking installation to the SM on duty and take the Station Master's acknowledgement. After this, the usual practice of exchange of disconnection memo and reconnection memo can follow. The SM on duty must act promptly on such messages and take adequate precautions treating the S&T installation as defective and pass trains over the affected interlocking equipment according to extant instructions as contained in SR 3.77.
- 23.0 **PROCEDURE TO BE FOLLOWED IN THE CASE OF FAILURE OF SIGNALS AND POINTS AND USE OF EMERGENCY CRANK HANDLE:** -  
Whenever a signal or a point becomes defective, any movement over the points on the running lines shall be made after clamping and padlocking of both facing and trailing points supervised by SM on duty personally for all trains.
- 23.1 In case of failure of a signal or a point and in case the point can not be operated from the panel, emergency crank handle, which is interlocked with system is to be extracted and the following procedure is to be adopted.
- 23.2 Emergency crank handle is provided for all motor operated points. This is mechanically attached to the key on RKT and can be released by pressing Crank Handle control push button CH1/CH2/CH3/CH4 and Group Trans button simultaneously. All signals will be locked in normal position as soon as the key is released. SM on duty shall transmit the key to required end of the yard and operate the point manually.
- 23.3 When the crank handle key is removed from RKT for operation of the defective motor operated points, the responsibility for its safe custody rests with the Station Master on duty, till it is replaced back in RKT.
- 23.4 The case of failure of motor operated points should be promptly reported to the concerned Signal maintainer or JE/SE/SSE (Sig.) for rectification.
- 23.5 Whenever an Emergency Crank Handle is required to be used by a signal official for maintenance work or attending a failure, the signal official will give a disconnection memo to the SM on duty .The SM on duty will obtain the acknowledgement of the signal official in the Emergency Crank Handle Register and then hand over to him the Emergency Crank Handle.. The points will be treated as defective till the Emergency Crank Handle is returned back to the SM on duty.
- 23.6 Before parting with the Emergency Crank Handle either for attending failures or for maintenance work by Signal maintenance officials, the SM on duty will ensure that the reception and departure signals are put back to 'ON' position. The points for the affected lines should be treated as non-interlocked. The SM on duty is responsible for introduction of non-interlocked working and the trains will be piloted 'IN' and 'OUT' after duly clamping and padlocking both facing and trailing points over which the train is to pass, as per GR 3.69 and 3.70 with relevant SRs. The SM on duty will be personally responsible for correct setting, clamping and padlocking of points for reception or despatch of all trains.
- 23.7 The Emergency Crank Handle Register is to be maintained vide OM 20.06 Note (d) by the SM on duty wherein the particulars of the usage of the Emergency Crank Handle must be recorded.

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

When the Block instrument is suspended with its handle in 'TRAIN ON LINE' position or "TRAIN GOING TO" position as the case may be for whatever reason, the concerned last stop signal controlled by the Block Instrument must be treated as suspended and trains shall be piloted 'OUT'.

The SM on duty shall not grant 'LINE CLEAR' unless he has ensured that the lamps of fixed signals, which apply, to the train are burning. If the signal lights can not be kept burning, the SM on duty before giving 'LINE CLEAR' shall initiate action in accordance with the procedure prescribed in GR 3.68 to 3.72 & relevant SRs vide GR 3.49 (4).

The SM on duty shall not grant or ask 'LINE CLEAR', if the Axle Counter Section indicates section is occupied and will treat the Block Instrument as suspended.

25.0 **SIGNAL LIGHTS:** -

The SM on duty at 00.00 hours (2<sup>nd</sup> night shift) must also ensure from panel board that all the signal lights are burning properly and brightly. This fact must be recorded in the SM's Diary under a separate entry and confirm to the Section Controller on duty.

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

The SM shall set the time in his clock according to the time signal given by the Section Controller on duty at 16.00 hours every day according to SR 4.01.01 and 4.01.02.

27.0 **POWER FAILURE AND REPORTING SUCH FAILURES:** -

Normal power supply to the Signalling and Interlocking installations at this station is drawn from the WESCO Power supply source (at 230 V, 50 Hz). Whenever WESCO (Main) power supply fails, a buzzer on the panel will buzz on. SM on duty has to press the power acknowledgement button (RED coloured) positioned on the top of panel. The SM on duty shall start the Diesel Generator for stand by (Auxiliary) power supply. After run of the Diesel generator and on resumption of power supply, SM shall acknowledge the same by pressing the power acknowledgement button. This will make the panel operative again.

The SM on duty must maintain record of power failure and he must promptly report the failure to the section controller and the concerned electrical and S&T maintenance staff.

28.0 **AXLE COUNTER AS LAST VEHICLE CHECKING DEVICE (LVCD):-**

- (a) Axle Counter as LVCD has been provided for the section DKLU-MNGD and DKLU-AMB as last vehicle checking device. The axle counter will also have control over the UP/DN last stop signals and block instrument of respective direction of DKLU station.
- (b) The occupation and clearance of the axle counter section is indicated by RED and GREEN indication respectively.
- (c) UP last stop signal of DKLU cannot be taken OFF if axle counter of block section DKLU-MNGD fails. Similarly DN last stop signal of DKLU cannot be taken OFF if axle counter of block section DKLU-AMB fails. On the other hand on arrival of a train at station if the axle counter continues to show occupied the block instruments of concerned block section cannot be turned to line closed position

28.1 **NORMALISATION OF AXLE COUNTER & BLOCK WORKING BY RESETTING OF AXLE COUNTER**

- (A) After the train has been received by the receiving station or after a block back operation or when no train has entered into the block section and the axle counter displays RED, then the following procedure shall be adopted to reset the axle counter.

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**(B) VERIFY THE BLOCK SECTION IS CLEAR OF ANY VEHICLES**

- (i) Procedure laid down in GR 4.17 & relevant SRs thereto shall be followed for the purpose.
- (ii) By checking the train register, the detail of the train passed through the block section and finding out from the station at other end of the concerned block section or from Controller that last train has passed and arrived complete. SS/SM on duty shall exchange private number with the SS/SM at other end of the concerned block section or with the Controller or from whom the complete arrival has been confirmed.
- (iii) If the failure has occurred after arrival of a train, SS/SM on duty shall also obtain intact position from the guard of stopping train or by exchanging all right signal with the guard of through train, so that he can ensure that the train has arrived completely before resorting to resetting of LVCD axle counter.

**(C) RESETTING PROCEDURE:-**

After complete arrival of train, if the axle counter of the section does not clear or Axle counter section free indication (GREEN) does not appear in the axle counter panel, The receiving station SM shall call the attention of the station in rear through telephone for resetting and shall establish communication with the said station if resetting of equipment is considered necessary giving details of last train that has arrived complete at his station and the block section is clear.

The receiving station shall inform the sending station as to whether the last train that entered into the section has arrived or not, if arrived fully, shall intimate authenticated by exchanging Private number with the sending station.

As digital Axle counters are provided as LVCD in Block section, resetting is to be done by both of sending end and receiving end individually.

The status of the section LVCD i.e. Clear (GREEN), occupied (RED), preparatory reset (Miniature GREEN) and power on indications (YELLOW) are provided in the reset box.

The procedure to be followed for re-setting by both of sending end and receiving end individually is as follows:-

- a. Insert SM's LV reset key, turn right and keep pressed.
- b. Press LV reset button provided on the panel.
- c. Release SM's LV reset key and reset button.
- d. Turn left the SM's LV reset key and remove it.
- e. The system obtains preparatory reset state and preparatory reset indication (miniature Green) glows on the panel.
- f. The counter reading increases by one count after a gap of 5 seconds approximately.
- g. The counter reading should be recorded.
- h. First train is to be piloted out into the section to make the system normal.

The SS/SM shall record in his Train Signal Register, Station Diary and register meant for it the details of resetting operation giving details of train number, time, Private Number exchanged with SS/SM in rear and reasons for the resetting operation.

If the axle counters functioning properly now, then Block Section cleared indication 'GREEN' will appear on the panel and the concerned Block working will be normalised.

If the axle counter section indication does not appear 'Green' and continues to show 'RED' indication, the concerned Block section shall remain suspended and failure intimation to be given to sectional signal Maintainer/JE/SE (Signal) for early rectification.

After every operation SS/SM on duty shall inform the Sectional Signal Maintainer for resealing the same and shall record giving details of the date of use, train number, time, number registered on the counter and reasons for resetting and initial each entries.

**29.0 TELECOMMUNICATIONS:**

- 1) Telephone attached to the block instruments connected to the adjacent block stations on either side.
- 2) Station to station fixed telephone (Hot line) has been provided.
- 3) Station has been connected with Auto telephone connected to Railway Exchange.
- 4) BSNL telephone has been provided.
- 5) Station to station 25 Watt VHF communication has been provided.
- 6) The Station is connected to SPRD-BLGR Control circuit.
- 7) Magneto Telephone connection has been provided between station and both end Crank handle locations.
- 8) Magneto telephone connection is provided between station and LC gate at Km. 275.761.

**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-29. from item No. (1) to (6) 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

**37.0 FAILURE OF COMMUNICATION / FAILURE OF BLOCK INSTRUMENTS:**

- 1) In the event of failure/suspension of block instrument, Track circuit & Axle Counter 'Line Clear' shall be obtained over telephone attached to the block instrument or station to station telephone by exchanging identification number and supported by private number as per SR 6.02.06 (a) and Chapter-III Part-I of Block Working Manual.
- 2) In the event of failure/suspension of block instrument and block telephone attached to the block instrument, or the Station to station fix telephone 'Line Clear' shall be obtained on Railway auto phone or BSNL phone, by exchanging identification number supported by private number vide SR 6.02.06 (1)(b) and Chapter-III Part-I of Block Working Manual.
- 3) In the event of failure/suspension of block instrument, block telephone and station to station fixed telephone or Railway auto phone or BSNL phone, Line Clear shall be obtained over the control phone exchanging identification number and supported by 'Private Number' vide SR 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 SR 14.01.02 are followed vide SR 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 6.02.03

**APPENDIX - 'C'**

**ANTI COLLISION DEVICE (RAKSHA KAVACH)**

**NIL**

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**APPENDIX - 'D'****1.0 STATION MANAGER (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, Station, LC gate 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.

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**2.0 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.

2.1 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 SMR is responsible to see that all the staff are conversant with the Station Working Rules and their signature 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 them fully about their duties and responsibilities.

2.2 The Station Manager is responsible personally for maintaining the Assurance Register and for obtaining declaration of the staff working under him. The Assurance of staff 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 Manager.

2.3 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.

**3.0 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 Manager under lock and key. He shall maintain a register for this purpose.

**4.0 ACCIDENTS:**

Accidents shall be reported and immediate action shall be taken by the Station Manager in-charge in accordance with the instructions laid down in the Accident Manual. Whenever the Station Manager 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.

**1.0 TESTING OF POINTS AND SIGNALS:**

The Station Manager 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.

**6.0 DY.SS/STATION MASTER/ASSISTANT STATION MASTER:**

He shall work in 8 hrs. shift for train passing and booking of traffic etc. Coaching returns and other statements shall be prepared and submitted by him in time under the direction of the Station Manager. He shall assist the Station Manager for the up keep of the station in all aspects.

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. He will follow SR 14.07.01. Their special attention is drawn to Chapter II of General(Amendment) & SR 2000 and GR 5.01 to 5.08 with relevant SRs. As an assistant to the SMR, he shall follow the instructions given to him by the Station Manager.

**7.0 HANDING OVER AND TAKING OVER CHARGE:**

The Dy.SS/Station Master/Assistant Station Master on duty shall record in the SM's diary the condition of all the running lines, the caution orders in force at the time of handing over and taking over of charge. These entries must be counter signed by the SMR/Dy.SS/Station

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Master/Assistant Station Master coming on duty while taking over charge. This will not, however, relieve any one of the Dy.SS/SM/ASM of his responsibility to ensure by physical check that the nominated line is clear of all obstructions before admission of any train on it

#### 8.0 **TRAFFIC POINTSMAN:**

- 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 Station Master.
  - (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 arrival register (T/1410) signed by the Guard as and when required.
  - (xi) Serving messages and any other duties entrusted to them by the SMR/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.
  - (xv) When necessary, they will work in the Goomties for observing and reporting the complete/incomplete arrival/departure of trains as per the order of the SM on duty in case of failure of Axle Counter/Track Circuit.

#### 9.0 **DUTIES OF TRAFFIC GATEMAN:**

Mentioned in Gate working instructions of concerned L.C.gates in Appendix-A. In addition to that he shall follow the GR 2.05 to 2.11 and other relevant rules laid down in GR & SR.

#### 10 **SAFAIWALA /LCS-**

He shall attend the sanitation of Railway premises including SM's office Passengers awaiting room platform and platform latrines, cleaning of night soils, lighting of lamps and clearing of drainage. He shall remove night soil in staff quarters and dump in and also for clearing of the drains attached to staff quarters. He shall do any other duties entrusted to him by the SS/SM.

#### **GENERAL**

- i. All staff should be in uniform while on duty and follow the rosters issued by DPO/SBP from time to time.
- ii. A set of Red and Green flags and Tricolor hand signal lamps will be part of the essential equipments of staff while on duty. They shall not leave the station except when required by the SM on duty or with his permission. They shall comply with SR 4.42.02 (b) & (c).

**APPENDIX - 'E'****ESSENTIAL EQUIPMENTS OF THE STATION**

***Below is the list of essential safety equipments, which shall be readily available in good working order with necessary relief stock.***

| <b>Sri No.</b> | <b>Description</b>                                     | <b>Quantity</b> |
|----------------|--|-----------------|
| 1.             | Detonators   | 10 in tin case  |
| 2.             | Battery operated LED based flashing Hand Signal lamps. | 06 Nos.         |
| 3.             | Hand signal flags                                      | 05 sets.        |
| 4.             | Safety chains with pad locks                           | 08 Nos.         |
| 5.             | Wedges/ Sprags   | 08 Nos.         |
| 6.             | Fire buckets (with sand and water)                     | 05 Nos.         |
| 7.             | Clamps with padlocks                                   | 08 Nos.         |
| 8.             | Reminder collars                                       | 06 Nos.         |
| 9.             | First aid Box  | 01 No.          |
| 10.            | Fire extinguisher                                      | 01 No.          |
| 11.            | Stretcher  | 01No.           |
| 12.            | Blanket  | 01 No.          |
| 13.            | Block suspension Board                                 | 02 Nos          |
| 14.            | "Motor Trolley on Line" boards                         | 02 Nos.         |

**APPENDIX - 'F'****RULES FOR WORKING OF DK STATIONS , HALTS, IBH, IBS AND OUTLYING SIDING**

NIL.

**APPENDIX - 'G'****RULES FOR WORKING OF TRAINS IN ELECTRIFIED SECTIONS**

NIL.

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