



SOUTH CENTRAL RAILWAY

Headquarters Office,
Works Branch,
Rail Nilayam, 5th Floor
Secunderabad-500025

No. W.71/BR/Bridge Policy

Dated: 22-06-2021

Sr.DENs/Co-ord/SC, BZA, GTL, HYB, GNT & NED

Sub: Pre-inspection checks of Bridges and submission of Reports for statutory inspection of new sections by CRS – Reg.

Ref: 1. CRS/SC letter no. R.11011/1/2009 SWR&SR/291 dated 07-06-2021

2. CTE letter no. W.506/CRS/TR/Opening of New Lines dated 07-01-2019.

CRS vide letter under reference (1) has advised that pre-inspection checks of new sections offered for CRS inspection should be conducted and an Appreciation report on all Bridges should be submitted by CBE. At present, there is a system of joint inspection of the section by a team of Divisional officers and later by a nominated SAG officer from Headquarters. Various points to be covered in SAG officers' inspection are already listed out under PCE's Note dated 12-04-2021.

To facilitate inspection by SAG officers and to aid in preparation of Appreciation report to be sent to CRS, pre-inspection of all bridges (Important, Major, Minor & ROBs) shall be conducted by SrDEN/Br.lines (BZA or SC as per the jurisdiction) along with concerned sectional DEN/Sr.DEN and reports in the formats enclosed at Annexure shall be submitted to DyCE/Br.D and nominated HODs well in advance of CRS inspection of the section. For inspection of Girders, concerned DEN/Bridges will assist the team. In case of New lines, details of RATs/RAWs shall also be collected from the concerned field unit of DyCE/C as per the formats enclosed and the same shall be attached to the Pre-inspection reports. A consolidated Appreciation report on the Bridges based on the pre-inspection reports of Divisional officers / nominated HODs will thereafter be sent to CRS from CBE's office.

Encl: Formats for inspection of Bridges & Formats for RAT/RAW details

Chief Bridge Engineer

Copy: SrDEN/Br.lines/BZA & SC, DEN/Bridges/SC, HYB, BZA & GTL for n.a.

CAO/C, CPM/RVNL/SC, BZA & MAS, GM/RITES/SC for information and n.a.

CPD/SD, CTE, CGE, CE/Wks, CE/P&D, CE/TP, CE/TM, CE/RSW, CE/BRH, CE/SD, CE/WS&F for information.

Secy to PCE for information of PCE.

Format for inspection of Minor Bridges

Bridge no:		Block Section & Km:	
Span configuration:			Structure type:
Bridge usage type:		GAD no:	
Loading Standard:	Alignment:		Grade:
Rail Level:	Formation level:		Bed level:
Exg. Bridge Span & Type:			Completion date:
Concrete grade used in Substructure:		in Superstructure:	

Bridge Inspection details

Sno	Item	Observations / Details of inspection
1	CRS sanction details:	<i>(details of CRS sanction to be recorded if applicable)</i>
2	Standard drawings references & approval of non-std. drawings:	<i>(details of std. drawings used for substructure & superstructure to be recorded. For non-std. drawings approval details to be furnished)</i>
3	Vertical clearance provided:	<i>(VC provided to be recorded)</i>
4	Free Board provided:	<i>(FB provided to be recorded)</i>
5	Completion drawing:	<i>(Observations on completion drawing to be recorded reg. deviations, soil strata, certification by field officials reg. non-erodible strata for BOX etc.)</i>
6	Deviations from GAD:	<i>(all deviations from approved GAD to be recorded along with details of approval for deviations)</i>
7	Protective works (Flooring, pitching, curtain wall, drop wall, toe wall etc.	<i>(Condition of all protective works i.e., flooring, pitching, curtain/drop walls, toe walls etc., to be recorded)</i>
8	Eccentricity of track	<i>(eccentricity of track over slab bridges to be recorded)</i>
9	Damages to exg. Bridge during construction	<i>(any damages caused to exg. Bridge during construction of new bridge to be recorded along with rectification done)</i>
10	Lateral restraint to ballast retainers	<i>(Provision of lateral restraint over piers for slabs bridges to be recorded)</i>
11	Defects in concrete surface (substructure & superstructure)	<i>(all defects in concrete surface like honeycombing, cracks, spalling, chipping of edges, plastering, shuttering defects etc. to be recorded along with the rectification done)</i>
12	NDT observations of concrete (substructure & superstructure)	<i>(NDT observations with rebound hammer at few sample locations on substructure & superstructure for various grades of concrete used in construction to be recorded)</i>
13	Marking of HFL, DL	<i>(HFL & DL are marked correctly or not)</i>
14	Any other deficiencies or observations on quality of construction.	<i>(any other defects / deficiencies noticed during inspection of the bridge to be recorded including waterway clearance)</i>
15	Rectification / Attention	<i>(all items requiring attention / rectification to be recorded)</i>

Format for inspection of ROBs

Bridge no:	Block Section & Km:
Span configuration:	Structure type:
GAD no:	Loading standard:
Skew angle:	Approach Road grades:
Rail Level:	Level of girder bottom:
No. of tracks under ROB:	Completion date:
Concrete grade used in Substructure:	in Superstructure:

Bridge Inspection details

Sno	Item	Observations / Details of inspection
1	CRS sanction details:	<i>(details of CRS sanction to be recorded if applicable)</i>
2	Standard drawings references & approval of non-std. drawings:	<i>(Details of std. drawings used for substructure & superstructure to be recorded. For non-std. drawings, approval details to be furnished)</i>
3	Vertical clearance provided:	<i>(VC provided above RL up to bottom of girders to be recorded)</i>
4	Lateral clearances provided:	<i>(Lateral clearances from CL of track to abutments to be recorded)</i>
5	Completion drawing:	<i>(Observations on completion drawing to be recorded regarding deviations, soil strata etc.)</i>
6	Deviations from GAD:	<i>(all deviations from approved GAD to be recorded along with details of approval for deviations)</i>
7	Protective works (pitching, toe wall etc.)	<i>(Condition of all protective works i.e., pitching, toe walls etc., to be recorded)</i>
8	Road protection works	<i>(Condition of crash barriers, hand railing etc., to be recorded)</i>
9	Quality Control	<i>(QC on material testing, cube / steel testing, permeability test, painting, workmanship etc., to be recorded)</i>
10	Foundations:	<i>(Depth of foundation, SBC, Pile load test details – static / dynamic / integrity to be recorded)</i>
11	Bearings	<i>(Type and condition of bearings provided, testing details, eccentricity in laying etc., to be recorded)</i>
12	Defects in concrete surface (substructure & superstructure)	<i>(all defects in concrete surface like honeycombing, cracks, spalling, chipping of edges, plastering, shuttering defects etc. to be recorded along with the rectification done)</i>
13	NDT observations on concrete (substructure & superstructure)	<i>(NDT observations with rebound hammer at few sample locations on substructure & superstructure for various grades of concrete used in construction to be recorded)</i>
14	PSC / Steel girders	<i>(Fabrication inspection details for steel girders by RDSO/Rly/3rd party & Stressing details for PSC girders to be recorded)</i>
15	Load test & Camber:	<i>(Details of Load test carried out, camber details of PSC girders to be recorded)</i>
16	Any other deficiencies or observations on quality of construction.	<i>(any other defects / deficiencies noticed during inspection of the bridge to be recorded)</i>
17	Rectification / Attention	<i>(all items requiring attention / rectification to be recorded)</i>

Format for inspection of Important & Major Bridges

Bridge no:		Block Section & Km:	
Span configuration:			Structure type:
Bridge usage type:		GAD no:	
Loading Standard:	Alignment:		Grade:
Rail Level:	Formation level:		Bed level:
Exg. Bridge Span & Type:			Completion date:
Concrete grade used in Substructure: _____ in Superstructure: _____			

Bridge Inspection details

Sno	Item	Observations / Details of inspection
1	CRS sanction details:	<i>(details of CRS sanction to be recorded if applicable)</i>
2	Standard drawings references & approval of non-std. drawings:	<i>(details of std. drawings used for substructure & superstructure to be recorded. For non-std. drawings approval details to be furnished)</i>
3	Vertical clearance provided:	<i>(VC provided to be recorded)</i>
4	Free Board provided:	<i>(FB provided to be recorded)</i>
5	Completion drawing:	<i>(Observations on completion drawing to be recorded reg. deviations, soil strata, certification by field officials reg. non-erodible strata for BOX etc.)</i>
6	Deviations from GAD:	<i>(all deviations from approved GAD to be recorded along with details of approval for deviations)</i>
7	Protective works (Flooring, pitching, curtain wall, drop wall, toe wall etc.	<i>(Condition of all protective works i.e., flooring, pitching, curtain/drop walls, toe walls etc., to be recorded)</i>
8	Track	<i>(eccentricity of track in ballasted deck bridges, ballast cushion, Sleeper spacing in steel girder bridges, condition of fittings etc., to be recorded)</i>
9	Damages to exg. Bridge during construction	<i>(any damages caused to exg. Bridge during construction of new bridge to be recorded along with rectification done)</i>
10	Lateral restraint to ballast retainers	<i>(Provision of lateral restraint over piers for slabs bridges to be recorded)</i>
11	Quality Control	<i>(QC on material testing, cube / steel testing, permeability test, painting, workmanship etc., to be recorded)</i>
12	Foundations:	<i>(Depth of foundation, SBC, Pile load test details – static / dynamic / integrity to be recorded)</i>
13	Bearings	<i>(Type and condition of bearings provided, testing details, eccentricity in laying etc., to be recorded)</i>
14	Defects in concrete surface (substructure & superstructure)	<i>(all defects in concrete surface like honeycombing, cracks, spalling, chipping of edges, plastering, shuttering defects etc. to be recorded along with the rectification done)</i>
15	NDT observations of concrete (substructure & superstructure)	<i>(NDT observations with rebound hammer at few sample locations on substructure & superstructure for various grades of concrete used in construction to be recorded)</i>
16	PSC / Steel girders	<i>(Fabrication inspection details for steel girders by RDSO/Rly/3rd party & Stressing details for PSC girders to be recorded)</i>

17	Load test & Camber:	<i>(Details of Load test carried out, camber details of OWG/PSC girders to be recorded)</i>
18	Marking of HFL, DL, Foundation details	<i>(Details of HFL, DL, Foundation details marked or not)</i>
19	Bridge appurtenances:	<i>(Details of bridge appurtenances provided such as Name boards, Trolly/Man refuges, Pathways, Inspection ladders/ platforms etc. to be recorded)</i>
20	Any other deficiencies or observations on quality of construction.	<i>(any other defects / deficiencies noticed during inspection of the bridge to be recorded)</i>
21	Rectification / Attention	<i>(all items requiring attention / rectification to be recorded)</i>

I. Format for Railway Affecting Tanks

A. General				
Name of Railway Affecting Tank:				
RAT ID:		Latitude:		Longitude:
State:	District:		Mandal:	Village:
Rly.Divn:	Sub Div:		PWI section:	
Distance from Rly Bridge to RAT (along the course of Nallah) :				
Affected Railway Bridge No:			Location:	
Railway Section:			Block section:	
Km of Railway Bridge/Location from-to:				
Span configuration of Bridge:			Bridge Structure Type:	
B. Physical Features of Railway Affecting Tank				
Catchment Area (Sq.Km):			Capacity of Tank (Million Cum):	
Lowest Bed level (m):			Full Tank Level (m):	
Maximum Water level (m):			Danger Level (m):	
Submerged FTL (m):			Submerged MWL (m):	
Level of top of dam /barrage/weir/Regulator (m):				
Maximum height of Dam/ Barrage/Weir/Regulator (m):				
Length of dam /barrage/weir/Regulator (m):				
Top width of bund (m):			Top bund level (m):	
Bund slope Upstream:			Bund slope Downstream:	
Are there any Tanks in the catchment of this tank? (Yes/no)				
Are these tanks classified as RATs:				
Name and details of these tanks (Tank /RAT ID Nos):				
Number of surplus weirs:				
Type and Details of Surplus weirs:				
Design discharge of these weirs (Cumecs):				
Details of sluices / penstocks and its locations:				
Design discharge of sluices / penstocks working at a time (Cumecs):				
Final combined discharge at Rly Bridge site excluding losses from weir / sluices (Cumecs):				
Additional details if any:				
Remarks if any:				

II. Format for Railway Affecting Work: Canal Crossing with / without head works & Approach Banks

A. General			
Name of Railway Affecting Work:			
RAW ID:		Latitude:	Longitude:
State:	District:	Mandal:	Village:
Rly.Divn:	Sub Div:	PWI section:	
Distance from Rly Bridge to RAW (along the course of Nallah) :			
Affected Railway Bridge No:		Location:	
Railway Section:		Block section:	
Km of Railway Bridge/Location from-to:			
Span configuration of Bridge:			Bridge Structure Type:
A. Physical Features of Railway Affecting work :			
Name of Canal Crossing:			
Reason for considering Railway affecting:			
Discharge (Cumecs):			
Bed level of Canal (m):			
Danger level (m):			
Top level of canal bund on U/S side (m):			
Ground level (m):			
Type of overflow weir:			
Length of overflow weir (m):			
Design discharge of overflow weir (Cumecs):			
Additional details if any:			
Remarks if any:			

III. Format for Railway Affecting Work : Canals running parallel to Rly track

A. <u>General</u>				
Name of Railway Affecting Work:				
RAW ID:		Latitude:		Longitude:
State:	District:	Mandal:	Village:	
Rly.Divn:	Sub Div:	PWI section:		
Distance from Rly Bridge to RAW (along the course of Nallah) :				
Affected Railway Bridge No:			Location:	
Railway Section:			Block section:	
Km of Railway Bridge/Location from-to:				
Span configuration of Bridge:			Bridge Structure Type:	
B. <u>Physical Features of Railway Affecting work:</u>				
Name of Canal running parallel or oblique:				
Reason for considering Railway affecting:				
Distance from Rly track to nearest location of Canal and corresponding Rly Km:				
Distance from Rly track to farthest location of Canal and corresponding Rly Km:				
Discharge (Cumecs):				
Bed level of Canal (m):				
Danger level (m):				
Top level of canal bund on U/S side (m):				
Ground level (m):				
Type of overflow weir:				
Length of overflow weir (m):				
Design discharge of overflow weir (Cumecs):				
Additional details if any:				
Remarks if any:				

IV. Format for Railway Affecting Work : Road Bridges (including causeways and culverts)

A. <u>General</u>			
Name of Railway Affecting Tank:			
RAW ID:		Latitude:	Longitude:
State:	District:	Mandal:	Village:
Rly.Divn:	Sub Div:	PWI section:	
Distance from Rly Bridge to RAW (along the course of Nallah) :			
Affected Railway Bridge No:		Location:	
Railway Section:		Block section:	
Km of Railway Bridge/Location from-to:			
Span configuration of Bridge:		Bridge Structure Type:	
B. <u>Physical Features of Railway Affecting work</u>			
Name of Road Bridge:		Name of River:	
Road Bridge No:		Road Km:	
Reason for considering Railway affecting:			
Distance from Rly track in 'm' & corresponding Rly Km:			
Type and Class of road Bridge:			
Lowest Bed level (m):			
Span configuration of Road Bridge:			
Total water way of bridge in meters:			
<u>Hydraulic features of Road Bridge</u>			
Catchment area (Sq.Km):			
Maximum flood Level (m):		Year of occurrence:	
Maximum scour observed (extent and location):			
General remarks on behavior of river:			
Additional details if any:			
Remarks if any:			

795987(15)/2021/O/o ADGM/GMO/SCR

GOVERNMENT OF INDIA
MINISTRY OF CIVIL AVIATION
COMMISSION OF RAILWAY SAFETY

NO. R.11011/1/2009 SWR&SR/291

Date: 07.06.2021

The General Manager
South Central Railway,
Secunderabad

SubL: Pre-inspection checks, reports and arrangements for Statutory Inspection of new Railway/Electrification by Commissioner of Railway Safety considering precautions required in view of Covid-19.

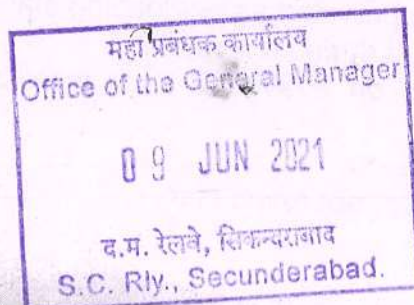
The statutory inspection by CRS is a detailed inspection covering various safety aspects of project work as well as that of Railway working. It is an extensive inspection covering specific locations apart from 'End to End' inspection of the entire section. In view of the nature and extent of inspection to be carried out, Officers and supervisors of Zonal Railway HQ, Project Executing Unit, and Division are required during the inspection apart from the staff required to facilitate the inspection at various inspection locations.

The spread of Covid 19 has made it essential to maintain social distance during all activities. It is no longer practicable to conduct statutory inspection in the way it has been conducted before the pandemic. Therefore, Pre-inspection checks, report and arrangement which are required to be undertaken to facilitate inspections have been identified taking into account various restrictions on assembly of persons and preventive measures required in view of spread of Covid 19. The same is enclosed as Annexure.

The guiding principles behind these measures are (i) phasing of inspections through advance inspection by Railway, (ii) location specific teams for measurements, (iii) pinpointing of role of various officials, and (iv) focus on technology through OMS recording, Current Collection Test (Oliver G), Measurement of Parameters of newly installed Points and Track Circuits, Earth Value of Block Circuits, Ring main earthing used for EI & Digital Axle counters etc.

It is requested that concerned officers are advised to ensure that these measures are undertaken in letter and spirit so that statutory inspections can be carried out smoothly while ensuring precautions required in view of Covid 19. The relevant instructions of Central/State Government and Local Administration have of course to be adhered to. Necessary permission must also be obtained for conducting the inspection.

Encl.1 (Annexure)



Ansai
07.06.21
(Abhai Kumar Rai)
Commissioner of Railway Safety
Southern Circle, Bengaluru.

kindly go through the Annexure and ensure that checks specified by CRS are covered at various stages of insp as stipulated.

9/6/2021

Preparatory checks, reports and arrangements for Statutory Inspection of new
Railways/Electrification by Commissioner of Railway Safety taking into
account precautions required in view of Covid 19

1. After receipt of Application and Opening Documents, the same shall be scrutinized by the Commission and observations shall be conveyed to Railway along with list of additional documents required if any.
2. Railway shall submit remarks on the observations and other documents/information sought by the Commission.
3. Appreciation Reports regarding the section/work to be commissioned, shall be submitted by CTE, CBE, CSE and CEDE. Report from CEDE shall be required only in case of opening of electrified section and Electrification of existing section.

4.1 The Appreciation Report must be based on:

- a) Study of design process adopted
- b) Study of record of quality control and testing
- c) Checks conducted and measurements recorded
- d) Inspection by Officer himself and/or by concerned officers of Division/HQ

4.2 It is not essential for CTE/CBE/CSE/CEDE to conduct inspection of the section themselves. Inspection may be carried out by any other nominated SAG Officer as per practice apart from the Divisional Officers. However, the inspections must cover relevant aspects. Girder bridges must be inspected by Dy.CE/Bridges (CBE in case of important bridge).

4.3 The Report must cover:

- a) Adherence to laid down procedure/norms for design.
- b) Details of approvals obtained (as prescribed)
- c) Summary of checks carried out.
- d) Major deficiencies and planning of Railway to eliminate the same.

5. CTE shall submit Appreciation Report on Formation and Permanent Way (excluding bridges/ROBs/RUBs). The Report must cover following aspects :

- a) Confirmation that there is no infringement to the provisions of Schedule of Dimensions by any Civil Engineering asset.
- b) Loading standard
- c) Formation work (banks/cuttings) – formation profile, slope stability and slope protection works, provision of retaining wall (wherever required).
- d) Confirmation that blanketing has been provided as per loading standard based on relevant specifications (GE-14) followed during execution.
- e) Track structure including Comments on quality of track materials (based on scrutiny of inspection reports).
- f) Confirmation on correctness of yard layout.
- g) Approval of LWR Plan and laying as per approved plan.

- h) Track Geometry and Laying standard (parameters and fittings) of Turnouts, SEJs, Level Crossings.
- i) Ballast Cushion as prescribed (350 mm on mainline, 250mm on loop-lines) – availability on bridges, P&C, LC approach etc.
- j) USFD testing of rail and welds has been completed and defective rails/welds have been replaced.
- k) Level Crossings – Laying, safety requirements.

6. CBE shall submit Appreciation Report on Major and Minor bridges. The girder bridges must be inspected by CBE himself or by Deputy Chief Engineer (Bridges). Important bridge must be inspected by CBE himself. The Report must cover following aspects :

(A)-Minor Bridges :

- a) Availability of Sanction of CRS (if required).
- b) Execution as per approved GAD (Deviations, approval for deviations)
- c) Approval of non-standard designs
- d) Protection works carried as per GAD taking into account scour depth and site conditions.
- e) Eccentricity in case of slab bridges.
- f) Availability of lateral restraint to ballast retainer in case of slab bridges
- g) Damage, if any, to adjacent bridge.
- h) Clearance of waterway.
- i) Completion Drawing to cover – Deviation Statement w.r.t GAD, soil strata, certificate that Box bridge has been constructed on non-erodible strata.

(B)- Important and Major Bridges (girder bridges) including ROBs :

- a) Availability of sanction of CRS, if required.
- b) Approval of non-standard designs
- c) Quality control and review of material testing record.
- d) Confirmation that Load test of Piles (Test Pile, Routine Pile) and NDT Tests have been carried out as prescribed.
- e) Inspection of steel girders by RDSO, if applicable.
- f) Inspection of bridge bearings
- g) Laying of bearings and girders, including eccentricity.
- h) Deflection Test and record of camber.
- i) Non-destructive Testing, Rebound Hammer & Permeability Test.
- j) Sleeper spacing on end of girders.

(C) –Whether List of RAWs has been prepared for new lines and GC on new alignment

7. CSE shall submit Appreciation Report on Signalling and Interlocking. The Report must cover following aspects :

- a) Availability of prescribed approvals.
- b) Status of testing- both FAT and SAT in case of EI. SAT to be logged in Data Logger and to be preserved. Conducting prescribed test checks.
- c) Compliance of stipulations to TSAA.

- d) Compliance to stipulations of sanction of CRS.
- e) Compliance of Pre-commissioning check list of EI, Data Logger, Digital Axle Counters, UFSBs, IPS etc.
- f) Availability of Class A Ring Earth and other earthing requirement.
- g) Installations of Fire Protection and Alarm System.
- h) Check on Functionality of Emergency Sockets and In-section communication devices.
- i) Inspection by Signal Sighting Committee.
- j) Joint inspection with Open Line at JAG & SAG level and its compliance.
- k) Confirmation that there is no infringement to the provisions of Schedule of Dimensions by any Signaling and Telecom installations

8. CEDE shall submit Appreciation Report on TRD work. The Report must cover following aspects :

- a) EIG sanction and compliance to stipulations.
- b) Bonding and Earthing, as per Code/Bonding Schedule, for PF Shelters, FOBs, Girder bridges, Level Crossings.
- c) Power supply installations: status of work and mandatory inspections. Commissioning Checklist.
- d) Commissioning of Switching Stations – EIG, Commissioning Checklist.
- e) OHE Masts on bridges – Approval by CBE, Execution as per approved drawing
- f) Status of SCADA
- g) Status of Maintenance Depot & Maintenance Organisation.
- h) Protection Screen on FOBs, ROB
- i) Double contact below overlying structures.
- j) Tower Wagon checking, SED Check.
- k) Clearances below over-line structures (FOB, ROB)
- l) Clearance of over-head Electrical Crossings.
- m) Deviations from provisions of ACTM.
- n) Confirmation that there is no infringement to the provisions of Schedule of Dimensions by any Electrical installation

9. In addition to Appreciation Reports as per Para 4, following certificates are required to be submitted by Branch Officers :

- a) Division to submit Certificate that Passenger Amenities have been provided as per laid down norms. If there is any deficiency in Passenger Amenities, the planning for eliminations of the deficiency to be indicated.
- b) Division to submit Certificate that on all the manned Level Crossings necessary revision of GWR has been carried out and safety equipment have been provided as required.

10. Instruction of Central Govt, State Government and Local Administration regarding assembly, social distancing, screening and intra-state and inter-state movement must be adhered to. Necessary permission must be obtained from local administration. Following specific precautions must be adhered to :

- a) Instrumentation and mechanized recording such as OMS recording, Current Collection Test, Earth testing other measurements must be ensured.

- b) Large gathering of staff and officers is to be avoided during the inspection. The recording of measurements should be done in advance in a phased manner with essential staff only.
- c) Railway must prepare a list of Railway officials and contractual staff who would be permitted to be present during inspection. Authority Cards/Slips must be given to staff to attend the inspection.
- d) Railway shall make necessary security arrangements for crowd control at stations/in section etc to facilitate inspection at stations, level crossing, bridges, other installations and during trolley inspection.
- e) Thermal screening of all officials must be carried out persons.
- f) All persons attending the inspections must use masks and adhere to social distancing.
- g) Separate teams must be formed for different locations such as Stations, Level Crossings, Bridges etc and these teams should be available at those locations only.
- h) The recording of measurements should be done in advance in a phased manner with essential staff only. Necessary test check and other measurements shall be carried out during inspection.
- i) Inspection train, tower wagon and trolleys must be disinfected before and during inspection.
- j) Adequate arrangement of sanitizers must be made for use during the inspections.

Abhai
07.06.21

(Abhai Kumar Rai)

Commissioner Railway Safety
Southern Circle, Bengaluru

14

SOUTH CENTRAL RAILWAY

Procedural Order

No. W.506/CRS/TR/Opening of New Lines

Date: 07-01-2019

Sub: PROCEDURAL ORDER for Opening of Newlines/Gauge Conversions / Doublings.

Ref: 1. This office letter even No., Dt. 11.04.2018 & 03.10.2018.
2. CRS/SC's Lr.No.R.12028/03/17-SCC/1339, dt.02.01.2018.

As per prevailing practice, while opening of newlines/Gauge Conversions/Doublings/3rd lines, the opening documents, track certificates and bridge certificates are being signed only by construction organization officers who have executed the works.

In the case of opening of patch tripling (3rd line) between Mancheriyal and Peddampet stations for public carriage of passengers, CRS have issued letter that "track certificate" and "bridge certificate" are to be signed by CTE and CBE in all opening documents.

STAGE-I

In order to facilitate processing of Track and Bridge Certificates and JSC which require the signatures of many PHOD's, the following procedure may be followed. In the **1st Stage**, the following documents need to be submitted invariably with the signatures of CE/C and concerned DEN/ Sr.DEN of the division.

- (i) Curve abstract and list of curves with speed potential duly indicating the curve No. Chainage/Kilometerage, length, LH/RH, Degree, Radius, Versine, Actual cant and Transition length provided, cant gradient etc.,
- (ii) Proposed PSRs list
- (iii) Gradient Abstract showing the various gradients and lengths.
- (iv) Track structure details giving the details of Rails, Sleepers, Sleeper Density, Ballast Cushion etc.,
- (v) Points & Crossing details, SEJ details etc., LWR/CWR details.

STAGE-II

As per the JPO issued in connection with track laying, quality control and handing/taking over between maintenance unit and construction unit the respective Division Mentor (THOD) and CE/C concerned have to conduct the joint inspection atleast one or two weeks before the date of opening.

In view of the CRS/SC's letter cited above, the following procedure shall be followed by all Mentors.

1. A joint inspection of Division Mentor and CE/C of construction organization unit of the proposed newline/Doubling/Gauge Conversions/Triple lines has to be carried out and deficiencies noticed are to be recorded in the inspection notes.
2. The compliance to the inspection note, drawn by Mentor shall be submitted by CE/C to concerned Mentor.

- (23)
3. After scrutinizing the compliance by concerned Mentor, if Mentor satisfies with the compliance submitted by CE/C, he shall recommend for signature of PCE on **Form XVI** through CTE.

This is issued with the approval of PCE and supersedes the earlier Procedure Order issued on this subject please.


Dy. CE/Track-1

C/- CGE, CE/P&D, CE/TM, CE/TP, CE/Works for information & necessary action please.

C/- CPM/RVNL/SC, GM/RITES/SC for information & necessary action please.

C/- CTE & CBE for kind information.

C/- CAO/C/SC for information & necessary action please.


Date/ 7/4/19
Signature