

NORTHERN RAILWAY

Headquarters Office,
Baroda House,
New Delhi.

No. 10-W/O/Policy/Building

Date: 22/11/2016

C.A.O./Const.,
Northern Railway,
Kashmere Gate, Delhi.

C.A.O./Const./II,
Northern Railway,
Kashmere Gate, Delhi.

C.A.O./C/USBRL,
Northern Railway,
Jammu Tawi.

Divisional Railway Manager,
Northern Railway,
DLI, FZR, LKO, MB & UMB.

Sr. Divisional Engineer/Co-ord,
Northern Railway,
DLI, FZR, LKO, MB & UMB.

Dy.CE/TMC/Line,
State Entry Road,
New Delhi.

Dy.CE/Br.W/Shop,
Northern Railway,
Jalandhar Cantt.

Dy. CE/Br. Line,
Northern Railway,
Tilak Bridge.

Dy.CE/Br.W/Shop,
Northern Railway,
Lucknow.

XEN/TPP/LKO,
Northern Railway,
Lucknow.

Principal,
C.E.T.A.,
Kanpur.

XEN/FBWP,
Meerut,

XEN/Track Depot,
Ghaziabad.

Principal,
Bridge staff Trg. Centre,
Tugalakabad.

All Engineering Officers,
Baroda House,
New Delhi.

C.E. Circular No. 601/C-R5

Sub: Approval of Engineering Plans for various works (other than Track & Bridges).

Please find enclosed here with Chief Engineer's Circular no. 601/C-R5 regarding "**Approval of Engineering Plans for various works (other than Track & Bridges)**". In this revision three additional item have been added [1.5 & 3.0 of General & Sr. No. 1 (vi) of Annexure], two items have been modified [1(v) & 1(vi) of Annexure] & one item has been deleted [2.5 of General]. This may be circulated to all concerned for implementation of instructions contained therein. Receipt of this letter may be acknowledged.

Encl. - as above


(A.V. Mittal)
Dy. Chief Engineer/ P&D
For General Manager/Engg.

Steno/CE/TMS:
22/11/16

- Copy to : (i) Secy. Pr.CE - for kind information to Pr. CE.
(ii) Dy.CVO/Engg., N. Rly. - Baroda House, New Delhi for information.
(iii) CE/TMS - with request to upload it on TMS website.

Northern Railway

Headquarters Office,
Baroda House,
New Delhi

No.10-W/O/Policy/Building

Date: 22.11.2016

Chief Engineer's Circular No. 601 C-R5

Divisional Railway Manager,
Northern Railway,
Delhi, Firozpur, Lucknow,
Moradabad & Ambala.

विषय/Sub: Approval of Engineering Plans for various works (Other than Track & Bridges).

संदर्भ/Ref: (i) Chief Engineer's Circular No. 601-C dated 22.4.09.
(ii) Chief Engineer's Circular No. 601-C-R1 dated 26.10.2010.
(iii) Chief Engineer's Circular No. 601-C-R2 dated 26.11.2014.
(iv) Chief Engineer's Circular No. 601-C-R3 dated 15.06.2015.
(v) Chief Engineer's Circular No. 601-C-R4 dated 04.12.2015.

In supersession of all previous circulars on the above subject under ref.(i) to (v) above and in order to streamline the procedure, a revised Chief Engineer's Circular No. 601-C-R5 (other than Track & Bridges) on Approval of Engineering Plans is hereby issued as under:

1.0 General:-

- 1.1 Plan should be finalized before proposing a work for sanction so that proposal itself is realistic & work can be started as soon as the sanction is received.
- 1.2 No work shall be carried out without an approved plan/sketch.
- 1.3 Once a plan is approved by Competent Authority for any purpose/work, the same should not be altered for the same purpose/work. If unavoidable, approval of all incumbent officers of the concerned departments, involved in alteration work, should be taken.
- 1.4 All General Arrangement Plans/Drawings (GAD) should be prepared on AutoCAD and to be sent to HQ along with soft copy.
- 1.5 Beside approved plans and drawings, divisional/field officers should also carry conceptual sketches (in A4/A3 size) of approved plans for discussion with senior officers during inspections as reference to ESPs, other large drawings is not convenient.

2.0 Plans for the following work do not require approval from HQ (Open Line) & approval of DRMs in these cases would be final-

- 2.1 Passenger Amenities Works viz. Extension/Raising of Platforms (not involving yard remodelling/ signalling changes), provision of benches, passenger information boards, provision of water booths, provision of typical/ standard PF shelters etc.
- 2.2 Additions and alterations of minor nature in service buildings (excluding station buildings). The structural safety of the building in view of the proposed alteration shall be checked and ensured by concerned Sr.DEN/ DEN.
- 2.3 Plans for all other water supply works not covered in S.N. 4 of enclosed Annexure (Page-1 of 4 to 4 of 4) and appearing in CE Circular No.834 and/or amendment thereto (if any).

- 2.4 Plans for all works covered in S.N. 1 (ii) to 1 (iv), 1 (vi), 2 (i) & (ii), 3(ii), 5(iv) (a) & 5 (v)(b) of enclosed Annexure (Page-1 of 4 to 4 of 4).
- 3.0 The plan/GAD for any other works (not included in the Annexure) for renovation/repairs/additions/alterations costing more than Rs. 1 Crore will require approval of Chief Engineer/P&D.
- 4.0 All plans for proposed structures should be in accordance with amended/ updated Schedule of Dimensions. If any infringement is unavoidable, plan should be sent to Headquarters Office giving full justification for processing the case for sanction of competent authority. Similarly drawings for non-standard platform shelters should be sent to Headquarters Office for approval.
- 5.0 Plans for works requiring approval of HQ (Open line) has been detailed in enclosed Annexure (Page-1 of 4 to 4 of 4). The various signatories/ approving authorities at Divisional level/ Headquarters level are also given in enclosed Annexure (Page-1 of 4 to 4 of 4) for guidance & streamlining the process of correct /early approval of plans.
- 6.0 In case of works being executed by Construction Organization, if approval of HQ (Open Line) is required, the plans needs to be signed by concerned Construction Officers, Divisional Officers {As indicated in enclosed Annexure (Page-1 of 4 to 4 of 4)} & SAG rank concerned officer of the Construction Organization before finally submitting to Pr.CE's Office for approval.
- 7.0 In case of works being executed by Govt. undertaking agencies like RITES, IRCON, RVNL, DFCCIL etc., all kinds of General Arrangement Drawings/Plans are required to be submitted to HQ (Open line) through Division concerned with the approval of Divisional officers as mentioned in Annexure (Page-1 of 4 to 4 of 4)for approval.

The revised instructions should be implemented with immediate effect. This has **approval of Pr. Chief Engineer, Northern Railway.**

Encl.:- Annexure (4 Pages)


(Pankaj Saxena)
Chief Engineer/P&D

Copy to:-

1. COM, CCM, CEE, CSTE, CME, CMD, CPO/NR HQ. Office, Baroda House, New Delhi.
2. Managing Director, RITES, IRCON, RVNL & DFCCIL, New Delhi.
3. In charges of DOE, DOB & DOT and Chief Office Supdt./Co-ord./Engg./ Northern Railway, Baroda House, New Delhi.

APPROVAL OF PLANS

Annexure to N.Rly.'s CE Circular No. 601-C-R5 dated 22.11.2016

S. No.	Description of plans	Plans to be signed by officers of different departments at		Required Level Of Approval at	
		Divisional level	Headquarters level	Divisional level	Headquarters level
1.	Station & Station yards:-				
(i)	Master Plan of Important of Stations (All A1, A, B & C Category Stations)	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr.DCM; Sr. DOM; Sr. DSTE;Sr. DEE*; Sr. DME(C&W); DRM	Dy.CE/P&D; CCM/ PS; CTPM; CEE/Plg.; Dy.CSTE(P&D); CME(Plg.); CE/P&D	Divisional Railway Manager	Chief Engineer/P&D
(ii)	Site plan for Platform Shelters provided these are as per detailed drawings approved by HQ Office or RDSO	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr.DCM; Sr. DOM; Sr. DSTE; Sr. DEE*; DRM	-	Divisional Railway Manager	-
(iii)	Site plan for structures on platforms	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr.DCM;Sr.DOM; Sr. DSTE;Sr. DEE*; DRM	-	Divisional Railway Manager	-
(iv)	Extension or Raising of Platforms, not requiring addition and alteration in yard, based on approved type plan	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr.DCM;Sr. DSTE; Sr. DEE*;DRM	-	Divisional Railway Manager	-
(v)	Improvement to circulating area including drainage system of important stations (All A1, A, B & C Category Stations)	Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DOM; Sr. DCM; Sr. DSTE; Sr. DEE*; DRM	Dy.CE/P&D; CEE/Plg.; CCM/PS; CE/ P&D	Divisional Railway Manager	Chief Engineer/P&D
(vi)	Improvement to circulating area including drainage system of stations (All D & E Category Stations)	Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DOM; Sr. DCM; Sr. DSTE; Sr. DEE*; DRM	-	Divisional Railway Manager	-
(vii)	Yard plan including addition and alterations	Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DOM; Sr. DCM; Sr.DSTE; Sr. DEE*; DRM	Dy.CE/P&D; CTPM; CCM/FM; Dy.CSTE(P&D); CEE/Plg.; CE/ P&D	Divisional Railway Manager	Chief Engineer/P&D
(viii)	General Arrangement Plans/ Drawings/ Layouts for Washing/ Coach maintenance (a) New	Concerned Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DEE*; Sr. DOM; Sr. DME; DRM	Dy.CE/P&D; CME/Plg.; CEE/Plg.; CTPM; CE/ P&D	Divisional Railway Manager	Chief Engineer/P&D
	(b) Addition & alteration/ Modification/ extension	Concerned Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord); Sr. DEE*; Sr. DOM; Sr. DME; Sr.DSTE; DRM	Dy.CE/P&D; Dy.CSTE(P&D); CME/Plg.; CEE/Plg.; CTPM; CE/ P&D	Divisional Railway Manager	Chief Engineer/P&D
(ix)	Plan for dismantling of siding	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr.DSTE; Sr. DOM; Sr. DCM; Sr. DSTE; Sr. DEE*; DRM	Dy.CE/ TO; CTPM; CCM/FM; Dy.CSTE(P&D); CEE/Plg.; CTE	Divisional Railway Manager	Chief Track Engineer
(x)	Provision of halt stations duly approved by Railway Board (General Arrangement Plan/ layout)	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DCM; Sr. DOM; Sr. DSTE, Sr.DEE*; DRM	Dy.CE/P&D; CCM/PS; CTPM; CEE/Plg.; Dy.CSTE(P&D); CE/ P&D	Divisional Railway Manager	Chief Engineer/P&D
(xi)	General Arrangement Plans/Drawings (GAD) of Buildings and Foot Over Bridges including additions & alterations	Sectional Sr.DEN/ DEN;Sr. DEN (Co-ord); Sr. DSTE; Sr. DEE*; Sr. DOM, DRM	Dy.Chief Engineer/P&D; CEE/Plg.; CTPM; CE/ P&D	Divisional Railway Manager	Chief Engineer/P&D

(xii)	General Arrangement Plans/Drawings (GAD) for improvement /addition/alterations/modification of drainage system in yard and circulating area costing more than Rs. 5 lakhs	Concerned Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord); DRM	Dy.Chief Engineer/P&D; Chief Engineer/ P&D	Divisional Railway Manager	Chief Engineer/P&D
2. Rail Crossings:- ESP's of Level Crossing:					
A. ESP's approval by DRMs:					
(i)	Manned Level crossing: (a) Closure of manned level crossing (non-interlocked) (b) Up gradation of level crossing up to "A" class only	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr.DSTE; Sr. DEE*; Sr. DOM (if level crossing is non-interlocked); DRM	-	Divisional Railway Manager	
(ii)	Unmanned Level Crossing (UMLCs): Closure of unmanned level crossing due to low TVU, Diversion/ merger or due to construction of LHS/ RUB/ Subways and by manning	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord.); Sr.DSTE; Sr. DEE*; Sr.DOM; DRM	-	Divisional Railway Manager	
B. ESP's approval by Headquarters office:					
(iii)	(a) Closure of manned interlocked level crossing (b) Interlocking of non interlocked gates (c) Up gradation of level crossing (manned) for increase in manpower from "2" to "3" in case of Special("Spl") gates (d) Provision of new level crossing	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord.); Sr.DSTE; Sr. DEE*; Sr.DOM (if level crossing is interlocked); DRM	Dy.Chief Engineer/ROB; COM/G (if level crossing is interlocked); Dy.CSTE/ P&D; CEE/ Plg.;CE/ RC; CTE	Divisional Railway Manager	Chief Track Engineer
(iv)	Approval of General Arrangement Drawings (GAD) for ROB/ RUBs (a) Where Division is supervising or executing agency (b) Where Construction Organization is supervising or executing agency	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DOM# Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DOM# Dy.Chief Engineer/Const	Dy.Chief Engineer/ROB; CE/ RC; CBE Chief Engineer/ Const.; Dy.Chief Engineer/ROB; CE/ RC; CBE	Sr. DEN (Co-ord). Sr. DEN (Co-ord)	Chief Bridge Engineer. Chief Bridge Engineer
3. Buildings & Colonies:-					
(i)	Master plan of Important Colonies (i.e. Zonal HQ, Divisional HQ, AEN's HQ and any other colony considered important by Division)	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr.DSTE; Sr.DEE*; DRM	Dy.CE/P&D; CE/P&D	Divisional Railway Manager	Chief Engineer/P&D
(ii)	Site plan for quarters / buildings in colony, provided it is in accordance with already approved master plan of colony & construction of Staff Quarters as per standard type plan issued by HQ Office	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); DRM		Divisional Railway Manager	
(iii)	Addition/alteration to standard type quarters				Principal Chief Engineer {IRWM-Para 218(c)}

(vi)	General Arrangement layouts/Drawings (GAD) of Buildings including additions & alterations	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr. DSTE; Sr. DEE*; DRM	Dy. Chief Engineer/P&D; CE/ P&D	Divisional Railway Manager	Chief Engineer/P&
4. Water Supply & Drainage:-					
(i)	Water supply plan of colony & stations (a) Important stations (i.e. All A1, A, B & C Category stations)	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr. DEE*; Sr. DME(C&W); DRM	XEN/ Wks; CME(Plg.); CE/ HQ	Divisional Railway Manager	Chief Engineer (HQ)
	(b) Important colonies (i.e. Zonal HQ, Divisional HQ, AEN's HQ and any other colony considered important by Division)	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr. DEE*; DRM	XEN/ Wks; CE/ HQ	Divisional Railway Manager	Chief Engineer (HQ)
(ii)	Site plans for installation of Bore-Wells (New/replacement) including addition/alteration to the distribution pipe lines	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM	XEN/ Wks; CE/ HQ	Divisional Railway Manager	Chief Engineer (HQ)
(iii)	Site plans for storage tanks	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM	XEN/ Wks; CE/ HQ	Divisional Railway Manager	Chief Engineer (HQ)
(iv)	New pipe lines/addition & alteration in the existing pipe line networks of diameter more than 4"	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM	XEN/ Wks; CE/ HQ	Divisional Railway Manager	Chief Engineer (HQ)
(v)	Schematic plans of new water treatment plants/ addition & alteration in the existing plants	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr. DEE*; DRM	XEN/ Wks; CE/ HQ	Divisional Railway Manager	Chief Engineer (HQ)
(vi)	Plans for water recycling plants, rain water harvesting works & plans for other water supply works being carried out by Construction Organization for new Stations/ Colonies	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr. DEE*; DRM*	XEN/ Wks; CE/ HQ	Divisional Railway Manager	Chief Engineer (HQ)
(vii)	Drainage plan of colonies & yards (a) Important yards (To be decided by Divisional Railway Managers)	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM	Dy CE/ TO; CTE	Divisional Railway Manager	Chief Track Engineer
	(b) Important colonies (i.e. Zonal HQ, Divisional HQ, AEN's HQ and any other colony considered important by Division)	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM	XEN/ Wks; CE/ HQ	Divisional Railway Manager	Chief Engineer (HQ)
	(c) Others	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM		Divisional Railway Manager	-
5. Land Plans, Leasing, Way Leave/ leasing Facilities(including track crossing), etc.					
(i)	Land licensing Plan for construction of Private siding	ADEN/ DEN/ Land (if posted independently); Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DCM; DRM	Dy. Chief Engineer/ Land; CCM/FM; CTPM; CE/ MRTS	Divisional Railway Manager	Chief Engineer/MRTS
(ii)	Land licensing/ leasing Plan other than Private sidings i.e. Commercial Plots, Bulk Oil Installation, Coal dump etc.	ADEN/ DEN/ Land (if posted independently); Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DCM; DRM	Dy. Chief Engineer/ Land; CCM/FM; CE/ MRTS	Divisional Railway Manager	Chief Engineer/MRTS

(iii)	All kinds of Authenticated land Plans	Revenue authorities; Concerned SSE/ (Works/ P.Way); ADEN; ADEN/ DEN/ Land (if posted independently); Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord)	Dy.Chief Engineer/Land; CE/ MRTS	Sr. DEN (Co-ord)	Chief Engineer/MRTS
(iv)	Way leave facility plans including track crossing as per provisions laid down in HQ's letter no. 197-W/ O/ Pt.-II/Works Policy, dated 01-06-99 including latest guidelines/ correction slips-				
	(a) For less than 100 m length	ADEN/ DEN/ Land (if posted independently); Sectional Sr. DEN/ DEN; Sr.DOM (where speed restriction is required); Sr.DSTE; Sr.DEE*; Sr. DEN (Co-ord); DRM	-	Divisional Railway Manager	-
	(b) For 100 m & above length	ADEN/ DEN/ Land (if posted independently); Sectional Sr. DEN/ DEN; Sr.DOM (where speed restriction is required); Sr.DSTE; Sr.DEE*; Sr. DEN (Co-ord); DRM	Dy.Chief Engineer/Land; CE/ MRTS	Divisional Railway Manager	Chief Engineer/MRTS
(v)	Land use Plans-				
	(a) For Metropolitan Cities, State Capitals, A1 & A category stations, important District HQs & Junction Stations (as per Para 3.1 of CE Circular No.906)	ADEN/ DEN/ Land (if posted independently); All Branch Officers; DRM	Dy.Chief Engineer/Land; CE/ MRTS	Divisional Railway Manager	Chief Engineer/MRTS
	(b) For remaining stations/ locations	ADEN/ DEN/ Land (if posted independently); All Branch Officers; DRM	-	Divisional Railway Manager with intimation to Pr. CE	-
(vi)	Leasing of Railway land & construction of temporary/ permanent structure thereon by outside party	Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DOM; Sr. DCM; DRM	Dy. Chief Engineer/ Land; CE/ MRTS	Divisional Railway Manager	Chief Engineer/MRTS
6.	L-Section for Doubling/ Gauge Conversion				
(i)	L-Sectional for Doubling & Gauge Conversion	Sectional Sr. DEN/DEN; Sr. DEN (Co-ord);DRM	Dy.CE/P&D; CE/ P&D	Divisional Railway Manager	Chief Engineer/P&D
7.	Miscl. viz safety related works etc.				
(i)	Works involving safety of Railway Track and Rolling Stock	Sectional Sr. DEN/DEN; Sr. DEN (Co-ord.); Sr. DME(C&W); Sr. DSTE; Sr. DEE*; Sr. DOM; DRM.	Dy CE/ TO; CEE/Plg.; CME(Plg.); CTE	Divisional Railway Manager	Chief Track Engineer

NOTE:- 1. *Concerned Sr.DEE.

2. #In cases where ROB/ RUB is crossing through yard and piers/ abutments are falling in Railway land.