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NORTHERN RAILWAY

Headquarters Office,
Baroda House,
New Delhi.

Date: /12/2017

No. 10-W/O/Policy/Building

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-R8

Sub: Approval of Engineering Drawings for various works.

Please find enclosed here with Chief Engineer's Circular no. 601/C-R8 regarding "**Approval of Engineering Drawings for various works**".

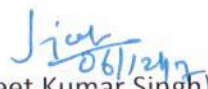
In this revision following has been corrected which is listed below:-

Item no. 2(i) of Annexure has been corrected for required level of approval at HQ level i.e. CTE instead of CE/P&D.

This may be circulated to all concerned for implementation of instructions contained therein.

Receipt of this letter may be acknowledged.

Encl. - as above


(Sujeet Kumar Singh)
Dy.Chief Engineer/ P&D
For General Manager/Engg.

- 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: .12.2017

Chief Engineer's Circular No. 601 C-R8

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

विषय/Sub: Approval of Engineering Drawings for various works .

- 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.
(vi) Chief Engineer's Circular No. 601-C-R5 dated 28.11.2015.
(vii) Chief Engineer's Circular No. 601-C-R6 dated 20.02.2017.
(viii) Chief Engineer's Circular No. 601-C-R7 dated 27.03.2017.
(ix) Railway Board letter no.2017/CE-I/CT/13/Procedure Simplification dated 20.10.2017.

In supersession of all previous circulars on the above subject under ref.(i) to (viii) above and in order to streamline the procedure, a revised Chief Engineer's Circular No. 601-C-R8 on Approval of Engineering Drawings is hereby issued as under:

1.0 General:-

- 1.1 Schematic/Conceptual plan should be finalized before proposing a work for sanction so that proposal itself is realistic
- 1.2 No work shall be carried out without an approved plan/sketch by competent authority.
- 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.
- 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 refer 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-

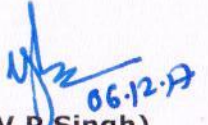
- 2.1 Passenger Amenities Works viz. Extension/Raising of Platforms (not involving yard remodelling/ signalling changes), provision of benches, passenger information boards, provision of water booths, provision of typical/ standard PF shelters etc.

- 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), , 3(ii), 3(v), 3(vi), 4(ii), 4(iii), 4(iv), 4(v), 4(vi), 5(i), 5(iv) (a) & 5 (v)(b) of enclosed Annexure (Page-1 of 4 to 4 of 4).
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- 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 which are required to be approved by HQ should 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.
 - 8.0 ADRM/Tech.(Or as nominated by DRM) of the division will be responsible for ensuring that the GADs are cleared / approved by all concerned branch officer within a fixed time. ADRM Tech.(Or as nominated by DRM) should get GADs signed at divisional level in a meeting to be conducted for the purpose instead of file shuffling among divisional officers. A suitable mechanism may be devised by division. It must be ensured that site feasibility and other technical issues are resolved at divisional level by respective technical branch officers before forwarding GADs to HQ for approval.
 - 9.0 ADRM/Tech (on as nominated by DRM) of the division and Chief Engineer/Construction (in case of construction works) will be responsible for ensuring that the GADs/Drawings being submitted to Headquarter are complete and correct in all respect to facilitate expeditions approved at Headquarter level. The GADs/Drawings must comply the different technical instructions/codes/manuals etc. and must be submitted to Headquarter along with the checklists duly filled up (to be issued separately in different cases).

- 10.0** As per the latest instruction of Railway Board, most of the GADs/Drawings at HQ level are to be signed by limited department only. Hence, the remaining departments must provide suitable guidance to the division for items to be checked by them, especially for those items which were being checked at HQ level till now.

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

Encl.:- Annexure (4 Pages)


(V.P. Singh)
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-R8 dated .11.2017

S. No.	Description of plans	Plans to be signed by officers of different departments		Required Level Of Approval	
		Divisional level	Headquarters level	Divisional level	Headquarters level
1.	Station & Station yards:				
(i)	Master Plan of Important Stations (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	CTPM; CCM/PS 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 (A1, A Category Stations)	Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DOM; Sr. DCM; Sr. DSTE; Sr. DEE*; DRM	CCM/PS; CE/ P&D	Divisional Railway Manager	Chief Engineer /P&D
(vi)	Improvement to circulating area including drainage system of stations (B, C, 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	CTPM; 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	-	Divisional Railway Manager	-
	(b) Addition & alteration / Modification/ extension	Concerned Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord); Sr. DEE*; Sr. DOM; Sr. DME; Sr.DSTE; DRM	-	Divisional Railway Manager	-
(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	CTPM; CE/P&D	Divisional Railway Manager	Chief Engineer /P&D
(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	CTPM; 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	CTPM; CE/ P&D	Divisional Railway Manager	Chief Engineer /P&D
2. Rail Crossings:- ESP's of Level Crossing:					
(i)	(a) L-Xings involving change in the yard plan in cases where combination of signals i.e. of the gate signal in the block section with any Signal of the station or IBS/IBH exist. (b) L-Xings in the automatic signal territory. (c) L-Xing in the station yards	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord.); Sr.DSTE; Sr. DEE*; Sr.DOM (if level crossing is interlocked); DRM	CTE	Divisional Railway Manager	Chief Track Engineer*
Note: * CTE will advice to CE/P&D for incorporation in existing yard plan.					
(ii)	All L-Xing cases except as in s.no.2 (i) above.	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord.); Sr.DSTE; Sr. DEE*; Sr.DOM (if level crossing is interlocked); DRM	-	Divisional Railway Manager	-
(iii)	Approval of General Arrangement Drawings (GAD) for ROB/ RUBs				
	(a) Where Division is supervising or executing agency	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DOM#; Sr.DEE/TRD(In Electrified Section),DRM	CBE	Divisional Railway Manager	Chief Bridge Engineer.
	(b) Where Construction Organization is supervising or executing agency	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DOM; Dy.Chief Engineer/Const; Sr.DEE/TRD(In Electrified Section),DRM	CE/Const.; CBE	Divisional Railway Manager	Chief Bridge Engineer
(iv)	Approval of General Arrangement Drawings (GAD) of all Important, Major & minor bridges, which shall affect the existing railway bridges;				
	(a) Where Division is supervising or executing agency	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DOM#;DRM	CBE	Divisional Railway Manager	Chief Bridge Engineer.
	(b) Where Construction Organization is supervising or executing agency	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DOM#; Dy.Chief Engineer/Const; DRM	CE/Const.; CBE	Divisional Railway Manager	Chief Bridge Engineer
(v)	Approval of General Arrangement Drawings (GAD) of all Important, Major & minor bridges, which do not affect the existing railway bridges;				
	(a) Where Division is supervising or executing agency	Sectional Sr.DEN/DEN; Sr. DEN (Co-ord); Sr. DOM#; DRM	CBE	Divisional Railway Manager	Chief Bridge Engineer
	(b) Where Construction unit/s is supervising or executing agency	Dy CE/Const (and others as per mechanism within construction organisation); CE/Const.	CE/Const	-	CE/Const
Note: (a) For items 2 (iii), (iv), (v) above for works being executed by construction, detailed structural design and drawing					

	should be carried out by construction organisation. (b) # In cases ROB/RUB is crossing through yard and piers/abutments are falling in Railway land				
3.	Buildings & Colonies:-				
(i)	Master plan of Important Colonies (i.e. Zonal HQ, Divisional 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	-	-	-	Chief Engineer /P&D***
(iv)	Structural drawing for any structure including addition and alteration to an existing structure	-	AXEN/ P&D; Dy.CE/P&D	-	Dy. Chief Engineer/P&D
(v)	All structures involving departure from type plans issued by HQ or by RDSO	Concerned Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord); DRM	-	Divisional Railway Manager	-
(vi)	General Arrangement layouts/Drawings (GAD) of Buildings including additions & alterations	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr. DSTE; Sr. DEE*; DRM	-	Divisional Railway Manager	-
Note: ***This will require prior approval of Pr.CE as per IRPWM para 218(C).					
4.	Water Supply & Drainage:-				
(i)	Water supply plan of colony & stations				
	(a) Important stations (i.e. All A1, A, Category stations)	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr. DEE*; Sr. DME(C&W); DRM	Chief Engineer/P&D	Divisional Railway Manager	Chief Engineer /P&D
	(b) Important colonies (i.e. Zonal HQ, Divisional HQ, and any other colony considered important by Division)	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); Sr. DEE*; DRM	CE/ P&D	Divisional Railway Manager	Chief Engineer /P&D
(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	-	Divisional Railway Manager	-
(iii)	Site plans for storage tanks	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM	-	Divisional Railway Manager	-
(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/Works;	Divisional Railway Manager	-
(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	-	Divisional Railway Manager	-

(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	-	Divisional Railway Manager	-
(vii)	Drainage-plan of colonies & yards;				
	(a) Important yards (To be decided by Divisional Railway Managers)	Sectional Sr.DEN/ DEN; Sr. DEN Coord); DRM	CE/P&D##	Divisional Railway Manager	Chief Engineer /P&D
	(b) Important colonies (i.e. Zonal HQ, Divisional HQ, and any other colony considered important by Division)	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM	CE/P&D	Divisional Railway Manager	Chief Engineer /P&D
	(c) Others	Sectional Sr.DEN/ DEN; Sr. DEN (Co-ord); DRM	-	Divisional Railway Manager	-

Note; ## This will require prior approval of CTE.

5. Land Plans, Leasing, Way Leave/ leasing Facilities(including track crossing), etc.

(i)	All Land licensing Plan of the works which comes under DRM's power	ADEN/ DEN/ Land (if posted independently); Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DCM; DRM	-	Divisional Railway Manager	-
(ii)	Land licensing/ leasing Plan i.e. transfer/exchange of land, Commercial Plots, Bulk Oil Installation, Coal dump etc.other than 5(i) above	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 RB's letter no. 97-W/LML/24/3, dated 01-09-2014.	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	-
(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 ###	
(vi)	Leasing of Railway land & construction of temporary/ permanent structure	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

	thereon by outside party				
(vii)	NOC plan for construction of building within 30 meter from railway boundary.	Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); DRM	Dy. Chief Engineer/ Land; CE/ MRTS	Divisional Railway Manager	Chief Engineer /MRTS
(viii)	Plan of entrustment of land to RLDA for commercial exploitation	Sectional Sr. DEN/ DEN; Sr. DEN (Co-ord.); Sr. DOM; Sr. DCM; DRM	Dy. Chief Engineer/ Land; CE/ P&D, CCM/ PS, CE/MRTS	Divisional Railway Manager	Chief Engineer/MRTS
Note: ### DRM to inform Pr.CE / CE (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; CEGE/CEDE**; CME(Plg.); CTE	Divisional Railway Manager	Chief Track Engineer
Note: ** CEDE to examine & sign for electrified section (also for sections with sanctioned electrification) and CEGE to examine & sign for non-electrified section					

NOTE:

1. * Concerned Sr.DEE/TRD where section is electrified or sanctioned for electrification and/or concerned Sr.DEE/G where proposal pertains to general electrical services.
2. In all cases where construction organisation is executing agency, the GAD/Plans to be signed by all concerned Dy HODs and/or HODs, and any other official (as per internal mechanism of construction organisation) before submission for approvals through respective division.
3. All drawings must carry a certificate for each S&T, Electrical, engineering feasibility in terms of SOD-04 by concerned executing agencies, Division/Construction organisation as required.
4. Pr CE can direct for approval at higher level depending on the importance and complexity of the matter.
5. Sr DEN/Co of the division and CE/P&D (or CBE, CTE, CE/MRTS as the case may be) will be nodal points for the GAD approval process.
6. Complete feasibility examination from site as well as technical point of view should be done by division before forwarding the plan to Head Quarter for approval.