

NORTH CENTRAL RAILWAY

Head quarters' office,
Engineering Department,
Allahabad.

Dated:01.02.2012

NO 355-W/CRS/Speed raising on loops/JAB-TDL/NCR/Bridge,

CME, COM, CEE, CSTE,

DRM/ AGC.


Sub: - Sanction for raising of speed on loop lines of Jamuna Bridge (excl) – Tundla (excl) section on 'D' special route (km 1267.17 to km 1252.90) from 15 kmph to 30 kmph of AGC division of North Central Railway.

Ref.:- CRS/NE Circle vide letter no. 3367/NCR/Part-3/SANC-08, dated 30.01.2012 (copy enclosed).

CRS/NE Circle vide letter under reference above has accorded sanction for raising of speed on loop lines of Jamuna Bridge (excl) – Tundla (excl) section on 'D' special route (km 1267.17 to km 1252.90) from 15 kmph to 30 kmph of AGC division of North Central Railway.

This is for your information and necessary action please.

DA: As above & Joint Safety Certificate,


01/02/12
(Sachin Verma)
Dy CE/Bridge/HQ
For G.M/Engg

O/C

तेलोग्राम - 'COMRAILS' लखनऊ

फैक्स नं० 0522-2234538

Telegram : 'COMRAILS' Lucknow

Fax No. : 0522-2234538



सत्यमेव जयते

भारत सरकार

नागर विमानन मंत्रालय

रेल सुरक्षा आयोग, पूर्वोत्तर परिमण्डल

GOVERNMENT OF INDIA

MINISTRY OF CIVIL AVIATION

COMMISSION OF RAILWAY SAFETY, NORTH EASTERN CIRCLE

दूरभाष 2234515 (P.&T.)
Telephone : 23-291 (N.Rly.)
: 31-141 (N.E. Rly.)



हजरतगंज, लखनऊ-226 001
Hazratganj, Lucknow-226 001

सं.3367/NCR/भाग-3/SANC-08

दिनांक:30.01.2012

मुख्य अभियन्ता/पुल,
उत्तर मध्य रेलवे,
इलाहाबाद ।

विषय : Raising of speed on loop line of Jamuna Bridge (excl)- (Tundla (excl) section on 'D' special route (km 1267.17 to km 1252.90) from 15 kmph to 30 kmph of Agra division of North Central Railway.

संदर्भ : आपके पत्र सं.355-W/CRS/Speed raising on loops/JAB-TDL/NCR/Bridge dated 06/09.01.2012.

Sanction is hereby accorded for raising of speed on loop line of Jamuna Bridge (excl)- (Tundla (excl) section on 'D' special route (km 1267.17 to km 1252.90) from 15 kmph to 30 kmph of Agra division of North Central Railway, subject to the observance of the following stipulations/conditions.

- (i) Observance of all permanent and temporary speed restriction in force and/or those may be imposed from time to time on various accounts.
- (ii) Observance of all conditions mentioned in North Central Railway Joint Safety Certificate and concomitant Track and Bridge Certificate.

- (iii) All the turnouts taking off from loop where speed is proposed to be increased to 30 kmph are detected electrically.
- (iv) Suitable crossing boards will be provided at the commencement and at the end of the section on which more than 15 kmph speed is permitted on the turnouts/loops to serve as a reminder to the drivers, so that, they may be aware that on sections other than that specified normal speeds of 15 kmphs or less are permitted.
- (v) Only the locomotives with speedometers/speed recorders in working condition will be permitted to take turnouts at speeds more than 15 kmph. In case the speedometers/speed recorder are out of order at the starting station or fails on the run, drivers will observe a speed restriction of 15 kmph or less on the turnouts.
- (vi) Mechanical, S&T, Engineering and Safety Officers of Agra Division shall carryout the foot plate inspection at regular intervals in order to ensure that the drivers are not exceeding the maximum speed permitted on the loop lines.




(प्रभात कुमार बाजपेई)
रेल संरक्षा आयुक्त,
पूर्वोत्तर परिमण्डल, लखनऊ

सं.3367/NCR/भाग-3/

दिनांक:30.01.2012

मुख्य रेल संरक्षा आयुक्त, अथोक मार्ग लखनऊ.
Copy to All CRS's



(प्रभात कुमार बाजपेई)
रेल संरक्षा आयुक्त,
पूर्वोत्तर परिमण्डल, लखनऊ

NORTH CENTRAL RAILWAY

Head quarters' office,
Engineering Department,
Allahabad.

Dated: 6.01.2012

NO 355-W/CRS/Speed raising on loops/JAB-TDL/NCR/Bridge,

To,
The Commissioner of Railway Safety,
North Eastern Circle,
Lucknow.

Sub: - Sanction for raising of speed on loop lines of Jamuna Bridge (excl) – Tundla (excl) section on 'D' special route (km 1267.17 to km 1252.90) from 15 kmph to 30 kmph of AGC division of North Central Railway.

It is proposed to permit to raise speed on loop lines of Jamuna Bridge (excl) – Tundla (excl) section from 15 kmph to 30 kmph of AGC division of North Central Railway.

Following documents are submitted herewith for your kind perusal please.

- (i) Divisional application in duplicate.
- (ii) Descriptive Note for raising of speed on loop lines of JAB (excl)-TDL (excl) section.
- (iii) Joint Safety Certificate in triplicate.
- (iv) Track certificate in triplicate.
- (v) Bridge Certificate – **Not applicable.**
- (vi) Certificate of speedometer/speed recorder in working conditions by Sr. DME – **Not applicable**
- (vii) Roll diagram of the section, signal interlocking plan (SIP) and SWRD indicating points and crossing showing in Red colours – **Not applicable.**
- (viii) Application for dispensation under approved special sanction duly signed.
- (ix) Copy of advance correction slip No.94 dated 01.06.2004.
- (x) Joint Trial Report duly signed by divisional officers.
- (xi) Certificate by Sr. DSTE/AGC.
- (xii) YARD diagram in one copy.
- (xiii) List of Curves of JAB-TDL section.
- (xiv) Track structure of existing loops lines on CHLR-ETUE section.
- (xv) Permanent speed restriction in JAB-TDL section.
- (xvi) Index plan & section in 3 copies.
- (xvii) Track Diagram.
- (xviii) Station Working Rule Diagram (SWRD) of Kuberpur (KBP), Chhalesar (CHLR) & Etmatpur (ETUE).
- (xix) Signal Interlocking Plan (SIP) of Kuberpur (KBP), Chhalesar (CHLR) & Etmatpur (ETUE) stations.
- (xx) Suitable warning Board to be erected at commencement and end of the section. A speed indicating Board indicating 30 kmph on 1st loop per G & SR 15.09 to be fixed on Home Signal – **To be fixed at site after obtaining CRS sanction.**

You are requested to give your kind approval and accord kind sanction for subject above.

DA: As above



Kool 6/1/12
Chief Bridge Engineer

**NORTH CENTRAL RAILWAY
JOINT SAFETY –CERTIFICATE**


It is Certified that all the turn outs on main line and passenger running loops on JAB (excl)-TDL(Excl.) on 'D'Spl' route from km 1267.17 to 1252.90 are safe for maximum speed of 30 kmph subject to observance of all temporary and permanent speed restriction which are enforced at present or which may be imposed in future. The detail of crossing stations are as under:-


Sr.No.	Name of Station	Name of Loop Lines i.e. Up / DN loop	Existing speed	Proposed Speed
1	CHLR	UP Loop	15 KMPH	30KMPH
	CHLR	DN Loop	15 KMPH	30KMPH
2	KBP	UP Loop	15 KMPH	30KMPH
	KBP	DN Loop	15 KMPH	30KMPH
3	ETUE	UP Loop	15 KMPH	30KMPH
	ETUE	DN Loop	15 KMPH	30KMPH



Sr. DEN-II/AGRA


Sr. DOM/AGRA



Sr. DSTE/AGRA


Sr. DEE/OP/Agra


Sr. DME/AGRA
(C & N)


PCE/NCR/ALD


CME/NCR/ALD


COM/NCR/ALD


CSTE/NCR/ALD

RAIL SAFETY CERTIFICATE

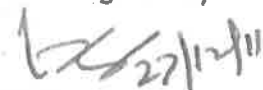
It is Certified that all the turn outs on JAB(excl)-TDL(Excl.) on 'D'Spi' route of Agra Division from 1267.17 to 1252.90 on main line and passenger running loops are laid with curved switches . The stock rail in intermediate rail joints on the turnouts, both for straight and loop lines have been welded. The minimum track structure is 52 kg rails/90 R, 3 rail panels with M+4 sleeper density on PSC-6 sleepers having total ballast cushion of 150mm out of which 75mm clean ballast cushion exists on running loops and turn-in-curves. The turnouts laid with PRC sleepers& rails section of 52 kg . The turn-in-curves of loop lines laid with 52 kg rail section, PSC sleeper with spacing of 65 cm centre to centre and extra shoulder ballast 150 mm on out-side. The turn-in curves laid ensure para 410(4) (a) (b) & (c) of C.S. No.94 of IRPWM. The details of crossing of station are as under:-

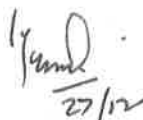
Sr.No.	Name of Station	Name of Loop Lines i.e. Up 1 st loop DN UP 2 nd Loop DN etc	Existing speed	Proposed Speed
1	CHLR	UP Loop	15 KMPH	30KMPH
		DN Loop	15 KMPH	30KMPH
2	KBP	UP Loop	15 KMPH	30KMPH
		DN Loop	15 KMPH	30KMPH
3	ETUE	UP Loop	15 KMPH	30KMPH
		DN Loop	15 KMPH	30KMPH

The track on all the turn outs on main line/passenger running loops and passenger running lines on JAB(excl.)-TDL(excl.) section on BG route of Agra Division is safe for a maximum speed of 30 kmph on all the turn outs and passenger running loops, subject to observance of all temporary and permanent speed restriction which are enforced at present or which may be imposed in future


Sr.DEN-CO/AGRA


Sr.DEN-II/AGRA

Countersigned by

CTE/NCR/ALD


Dy.CE(TP)/NCR/ALD

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DESCRIPTIVE NOTE

Sub: Raising of speed on loop lines of JAB(excl) TDL(excl.) section from 15 KMPH to 30 KMPH.

Presently there is a speed restriction of 15 Kmph on running loops including entry and exist point at all stations on JAB(ex)-TDL(ex) section. Now entry and exist points at first directional running loops of all stations viz. CHLR, KBP & ETUE have been provided with 1 in 12 curved switch turnouts and 1:8.5 (Symmetrical split) laid with PRC sleepers & 52 Kg rail section.

The minimum track structure on above stations loop lines is 52kg /90 R rails on PSC-5 sleepers M+4 sleeper density. The minimum clear cushion is 75mm over caked cushion of 75 mm

So it is proposed to raise the speed on the **first directional running loop lines** of stations CHLR, KBP & ETUE from 15 kmph to 30 kmph


(Vivek Kumar)

Sr.DEN-II/AGRA

CERTIFICATE

Sub:- Raising of speed on loop lines of JAB(excl.)-TDL(excl) section
from 15 KMPH to 30 KMPH
Ref:- HQ L.No.335-W/9/NCR/TP dt.11.10.2011

This is certified that in JAB-TDL Section all the route indicator are junction direction type route indicator and all siding point taken off from loop line are provided with ED/Point Machine and has been proved in circuit.


Sr.DSTE/AGRA

JOINT TRIAL REPORT

Sub: Joint Trial Report regarding visibility and EDD bet JAB (Ex) & TDL

Ref: DRM(V)'s office Letter No. Agra/403-W/T/30 Kmph/JAB-TDL dt 17.10.11 & 23.11.2011

A joint trial was done on 29.11.2011 by light engine. The compliance of above referred letter bet JAB-TDL

The detail report is being submitted as under for necessary action please

Train No. : Light engine
 1-Power No : 22531 WAP4 HWH
 2-BPC No : N/A
 3-Date : 29.11.2011
 4-Driver : Shri Surendra Singh Gautam
 5-Asstt. Driver : Shri Ramesh Chandra Yadav

Safety particulars of loco Pilot & Asstt. Loco Pilot

Loco Pilot : PME- 24.04.10 Due on - 23.04.14
 Ref.-21.04.10 Due on - 20.04.13
 Asstt. Loco Pilot: PME- 04.04.11 Due on - 03.04.15
 Ref - 28.9.11 Due on -27.09.12


Station	Timing AF to ETUE	Timing ETUE/AF	Remarks
AF	12:33	14:35	
JAB	12:46-12:56	14:15-14:28	Line No 4 and on return Line No.3
CHLR	13:04	14:07	Via loop line
KBP	13:10	14:01	Via loop line
ETUR	13:18	13:51	Via loop line

Observation

Details trial report are as under -


1. JAB out side Home 7"
2. All loop line CHLR to ETUE and ETUE to CHLR (Ex JAB) is fit for 30 Kmph..
3. ATall stations light engine passed loop line at speed 30 Kmph and found that all points working properly and running was found satisfactory.
4. The visibility of all signals bet JAB-TDL were found clear and good.
5. 30 Kmph speed will not maintained of Mail/Exp ,Passenger and heavy goods load due to interlocking of departure signal is such that departure signal lower before 300 meter approximate.


 Sr. DME/Agra
 (O & F)


 Sr. DSTE/Agra


 Sr. DEN/ii/Agra


 Sr. DOM/G/Agra


 Sr. DEE/OP/Agra

TRACK STRUCTURE OF EXISTING LOOP LINES ON CHLR - ETUE SECTION

Name of Station	Name of Loop Lines	Existing track structure of individual Loop Lines			
		Type of Rails	LWR/SWR	Type of sleepers	Density
1	CHLR (UP)	52 KG	LWR	PSC-5	1540
	CHLR (DN)	52 KG	SWR	PSC-5	1540
2	KBP(UP)	52 KG	SWR	PSC-5	1540
	KBP (DN)	52 KG	SWR	PSC-5	1540
3	ETUE(UP)	52 KG	SWR	PSC-5	1540
	ETUE (DN)	52 KG	SWR	PSC-5	1540

Arbith
Sr.DEN-CO/AGRA

[Signature]
 13/12/11
Sr.DEN-II/AGRA

Curve No.	BETWEEN STATIONS	UP/D N/S/L	Location		Length in M	Radius	Degree	Transition Length		LH RH	Caust in mm.
			From Kms	To Kms.				in	end		
6	JAB-ETUE	DN	1253.185	1253.701	506	4100.00	0.46	40	40	R	20
7	JAB-ETUE	DN	1253.869	1254.263	394	3400.00	0.51	40	40	R	30
7 A	JAB-ETUE	DN	1254.377	1256.237	1860	2369.00	0.61	40	40	R	25
8	JAB-ETUE	DN	1262.204	1263.584	1380	2369.00	0.61	40	40	L	25
9	JAB-ETUE	DN	1264.556	1264.876	280	3500.00	0.50	50	50	L	15
10	JAB-ETUE	DN	1264.872	1265.082	210	3500.00	0.50	50	50	R	15
11	JAB-ETUE	DN	1265.105	1265.245	140	3500.00	0.50	50	50	R	15
12	JAB-ETUE	DN	1265.257	1265.537	280	3500.00	0.50	50	50	L	15
16	JAB-ETUE	DN	1267.570	1267.658	88	1750.00	1.00	40	40	L	40
17	JAB-ETUE	DN	1267.768	1267.858	90	1750.00	1.00	40	40	R	40
14	JAB-ETUE	DN	1268.415	1268.045	630	1750.00	2.00	80	80	L	40
2	ETUE-TDU/S.	DN	1251.433	1251.633	200	1750.00	1.00	70	70	L	30
3	ETUE-TDU/S.	DN	1251.778	1252.018	240	2500.00	0.70	60	60	R	25
15	ETUE-W/MTI	DN	1250.200	1251.460	1250	470.00	3.72	80	80	L	112
1	ETUE/N/LINE	DN	1251.280	1251.850	570	1750.00	1.00	80	80	R	25
UP-LINE											
4	JAB-ETUE	UP	1252.807	1252.947	140	3500	0.50	40	40	L	15
5	JAB-ETUE	UP	1253.373	1253.723	350	3500	0.50	50	50	L	15
6	JAB-ETUE	UP	1253.873	1254.133	260	1750	1.00	60	60	L	40
13	JAB-ETUE	UP	1254.369	1255.139	770	3977	0.44	60	60	L	20
14	JAB-ETUE	UP	1255.900	1256.985	1085	4268	0.41	60	60	L	20
15	JAB-ETUE	UP	1256.392	1256.492	100	1750	1.00	40	40	R	40
16	JAB-ETUE	UP	1256.531	1256.631	100	1750	1.00	40	40	L	40
17	JAB-ETUE	UP	1258.475	1258.515	40	4487	0.39	20	20	R	15
18	JAB-ETUE	UP	1258.594	1258.634	40	4487	0.39	20	20	L	15
18	JAB-ETUE	UP	1259.397	1259.937	40	4487	0.39	20	20	L	15
19	JAB-ETUE	UP	1260.017	1260.057	40	4487	0.39	20	20	R	15
20	JAB-ETUE	UP	1262.272	1263.622	1350	4861	0.36	60	60	L	25
21	JAB-ETUE	UP	1263.792	1263.882	90	1750	1.00	40	40	L	40
22	JAB-ETUE	UP	1263.941	1264.31	90	1750	1.00	40	40	R	40
23	JAB-ETUE	UP	1264.153	1264.154	93	3500.00	0.50	20	20	R	20
24	JAB-ETUE	UP	1264.233	1264.333	100	3500.00	0.50	20	20	L	20
25	JAB-ETUE	UP	1264.723	1264.834	101	1750.00	1.00	40	40	L	40
26	JAB-ETUE	UP	1264.868	1264.988	100	1750.00	1.00	40	40	R	40
27	JAB-ETUE	UP	1265.128	1265.239	110	1750.00	1.00	40	40	R	40
28	JAB-ETUE	UP	1265.262	1265.392	110	1750.00	1.00	40	40	L	40
29	JAB-ETUE	UP	1267.563	1267.653	90	1750.00	1.00	40	40	R	40
30	JAB-ETUE	UP	1267.768	1267.858	90	1750.00	1.00	40	40	L	40
31	JAB-ETUE	UP									

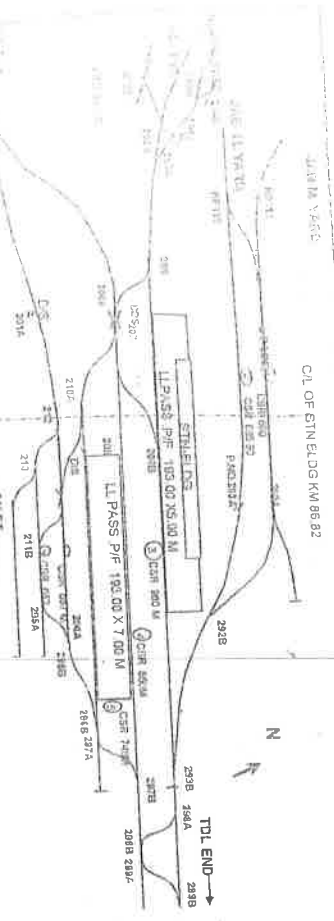
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SR. DEN I/AQ10

PERMANENT SPEED RESTRICTION in JAB-TDL section

Sr. No	Section	Station	Location		Speed Kmph	Reason
			From	To		
1	JAB-TDL	JAB Yard (DN)	87/34	87/36	20	Un authorized heavy trees passing location
2	JAB-TDL	JAB Yard N(UP)	87/33	87/35	20	Un authorized heavy trees passing location
3	KBP-ETUE	DN line	1258/20	1258/18	45	On Br.No.07
4	KBP-ETUE	DN line	1256/30	1256/28	75	On Br.No.05
5	KBP-ETUE	DN line	1256/14	1256/12	75	On Br.No.04

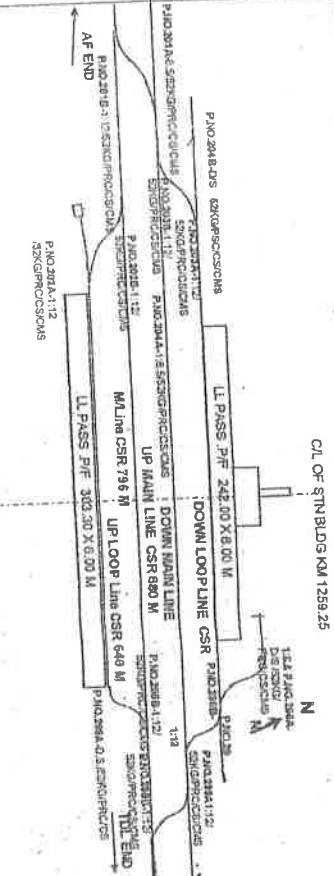

Sr.DEN-II/Agra

CHAIN MARK	LAYOUT POINT	ANGLE	LAYOUT POINT	ANGLE	LAYOUT
2002	115	PRC	207E	1.85	PRC
2003	115	PRC	207E	1.85	PRC
2004	115	PRC	207E	1.85	PRC
2005	115	PRC	207E	1.85	PRC
2006	115	PRC	207E	1.85	PRC
2007	115	PRC	207E	1.85	PRC
2008	115	PRC	207E	1.85	PRC
2009	115	PRC	207E	1.85	PRC
2010	115	PRC	207E	1.85	PRC
2011	115	PRC	207E	1.85	PRC
2012	115	PRC	207E	1.85	PRC
2013	115	PRC	207E	1.85	PRC
2014	115	PRC	207E	1.85	PRC
2015	115	PRC	207E	1.85	PRC
2016	115	PRC	207E	1.85	PRC
2017	115	PRC	207E	1.85	PRC
2018	115	PRC	207E	1.85	PRC
2019	115	PRC	207E	1.85	PRC
2020	115	PRC	207E	1.85	PRC
2021	115	PRC	207E	1.85	PRC
2022	115	PRC	207E	1.85	PRC
2023	115	PRC	207E	1.85	PRC
2024	115	PRC	207E	1.85	PRC
2025	115	PRC	207E	1.85	PRC
2026	115	PRC	207E	1.85	PRC
2027	115	PRC	207E	1.85	PRC
2028	115	PRC	207E	1.85	PRC
2029	115	PRC	207E	1.85	PRC
2030	115	PRC	207E	1.85	PRC
2031	115	PRC	207E	1.85	PRC
2032	115	PRC	207E	1.85	PRC
2033	115	PRC	207E	1.85	PRC
2034	115	PRC	207E	1.85	PRC
2035	115	PRC	207E	1.85	PRC
2036	115	PRC	207E	1.85	PRC
2037	115	PRC	207E	1.85	PRC
2038	115	PRC	207E	1.85	PRC
2039	115	PRC	207E	1.85	PRC
2040	115	PRC	207E	1.85	PRC
2041	115	PRC	207E	1.85	PRC
2042	115	PRC	207E	1.85	PRC
2043	115	PRC	207E	1.85	PRC
2044	115	PRC	207E	1.85	PRC
2045	115	PRC	207E	1.85	PRC
2046	115	PRC	207E	1.85	PRC
2047	115	PRC	207E	1.85	PRC
2048	115	PRC	207E	1.85	PRC
2049	115	PRC	207E	1.85	PRC
2050	115	PRC	207E	1.85	PRC

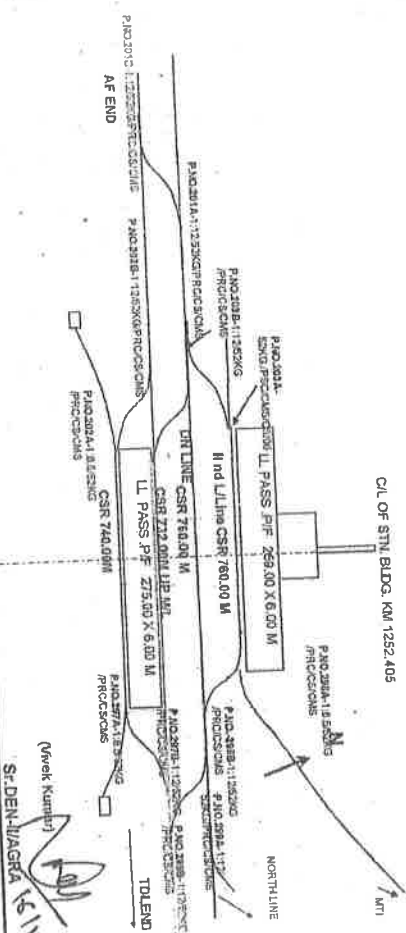


NORTH CENTRAL RAILWAY
AGRA DIVISION
JAMUNA BRIDGE
NOT TO SCALE

NORTH CENTRAL RAILWAY
AGRA DIVISION
CHHALESAR



NORTH CENTRAL RAILWAY
AGRA DIVISION
KUBERPUR
NOT TO SCALE



NORTH CENTRAL RAILWAY
AGRA DIVISION
CHHALESAR
INCREASE OF SPEED ON LOOP LINES FROM
15 KMPH TO 30 KMPH
JABEX (TILEX) SECTION
NOT TO SCALE
S.K. DENWAGRA (Virek Kumar)

To,
Dy. Chief Bridge Engineer
NCR, ALLAHABAD

19.12.11
XEN/BD/v

**Sub:- Raising of speed on loop lines of JAB(excl.)-TDL(excl) section
from 15 KMPH to 30 KMPH**

Ref:- HQ L.No.335-W/9/NCR/TP dt.11.10.2011

In connection with CRS sanction of Raising of speed on loop lines of JAB(in.)-TDL(ex.) section from 15 KMPH to 30 KMPH , As desire by HQ letter under reference the relevant record are being sent herewith for your information & further necessary action please:

List of enclosed papers are as under:-

1	Descriptive Note in connection with enhancement of speed to 30kmph on turnout	Enclosed
2	Application in duplicate	Enclosed
3	Joint Safety Certificate duly signed by PHOD in triplicate	Enclosed (04 copies)
4	Track Safety Certificate in triplicate signed by Dy.CE/TP countersigned by CTE	Enclosed (04 copies)
5	Bridge Safety Certificate in triplicate in signed by Dy.CE/Bridge countersigned by CBE	NA
6	Application for dispensation under approved Special instructions in term of GR 4.10(1) duly signed by COM	Enclosed (02 copies)
7	Copy of advance Correction slip No.94 dt.01.06.04 of IRPWM-1986	Enclosed
8	SIP & SWRD indicating red colour of points & Level crossing over which 30kmph proposed	SIP- Original is available at CSTE Office/ALD, Copy can be obtained from there only. SWRD of KBP,CHLR & ETUE Enclosed (03 Nos)
9	Roll diagram of the section, signal interlocking plan (SIP) and SWRD indicating points and crossing showing in Red colours	NA
10	Joint trial report regarding visibility and EBD duly signed by Sr.Scale Officer of S&T, Operating Engineer & Elec/Mech. Department	Enclosed
11	Certificate by Sr.DSTE in respect of all route indicators are junction direction type route indicator and all siding point taken off from loop line are provided with ED and proved in circuit	Enclosed
12	Index plan & Section	Enclosed
13	Track Diagram	Enclosed
14	Yard diagram	Enclosed
15	Details of Curves	Enclosed
16	Certificate of speedometer/speed recorder in working conditions by Sr.DME	NA
17	Station wise track structure of running loops	Enclosed
18	List of PSR in section	Enclosed
19	Suitable warning board to be erected at commencement and end of the section. A speed indicating board indicating 30 kmph on 1 st loop s per G&SR 15.09 to be fixed on Home Signal.	To be fix at site after obtaining CRS Sanction

D.A.:- As Above

Adith
Sr.DEN(Co)AGRA