

Government of India
Ministry of Railways
Railway Board

No. 2019/Sig/17/37/CTC

New Delhi, dated 25.10.2019

General Manager
North Central Railway
Prayagraj, UP

Sub: Review of performance of Centralized Traffic Control (CTC)/Tundla in Board Meeting held on 03.10.19.

The performance of Centralized Traffic Control (CTC)/Tundla was reviewed in the Board meeting held on 03.10.19. A presentation was made during the meeting (Copy enclosed). The highlights of the discussion are as under: -

- i. Aligarh – Kanpur section shall be controlled by CTC by the end of Nov. 2019.
- ii. Aligarh – Ghaziabad section is being executed along with the third line work which is expected to be completed in December, 2020.
- iii. The performance so far has been satisfactory.
- iv. The LED screens are being reconfigured to help Section Controllers have a complete view of the section.
- v. The CTCs are being planned for works of raising speed up to 160 kmph on Delhi – Howrah and Delhi – Mumbai routes.
 - (a) New CTCs should provide for Automatic operation of passenger Information System (PIS).
 - (b) New CTCs should also provide for advance plotting assistance to section Controllers and incorporate adequate provision for Disaster recovery.

Necessary action may please be taken and performance of CTC/Tundla be advised to Railway Board regularly.


(Pradeep M Sikdar)
Executive Director/Signal Development

**PERFORMANCE OF CTC, TUNDLA &
ACTION PLAN FOR SETTING UP OF CTCs
ON IR**



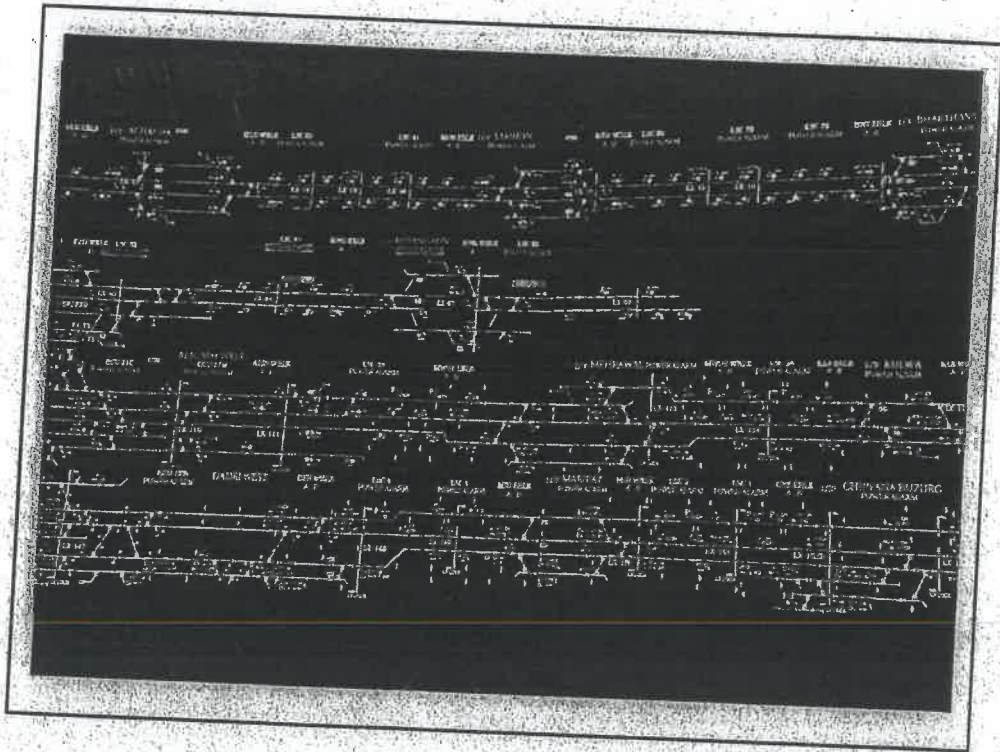
**PERFORMANCE OF CTC, TUNDLA
FOR
KANPUR - GHAZIABAD SECTION
OF ALLAHABAD DIVISION OF
NORTH CENTRAL RAILWAY**

**Contract awarded on 1.2.2006 as a part of KfW Project.
CTC component cost Rs 40 Crores.**

CTC TERRITORIES

FROM	TO	STATUS OF WORK
ALIGARH	PANKI	Four Territories (T1, T2, T3 & T4). At present, 21 stations being operated from CTC. Major yards like Aligarh, Tundla, Etawah and Panki are not under CTC. Target to reach up to Panki i.e. total 30 stations is Oct-Nov 2019.
GHAZIABAD	ALIGARH	T5 & T6 (will be commissioned after 3 rd line work)

CTC now operational: 21 stations on 3 CTC Territories covering 193 RKMs.



BENEFITS OF CTC

- **Centralized Control & Supervision** of a large section with real time train movements.
- **Operator can set the long routes within a territory with a single command.**
- **Route Stacking Command** at any station to avoid frequent operation and setting of routes repeatedly at that station
- **Time Table Management.**
- **Automatic generation of Train Graphs:** advance planning of path and plan movement of unscheduled trains.
- **Controllers of other Departments can also see status of section without disturbing the section controller (Panoramic projection system/Wall display).**
- **Playback for a large section is possible (for simulation of events, traffic planning)**
- **Fault management control from a central location and better disaster management.**

SHUNTING OPERATIONS UNDER CTC TERRITORY

- **Shunting under CTC operation (GR Para 5.15(2))**
- **When Shunting is required to be carried at a Station, the operational control of Station is transferred to Local SM by CTC Controller through mutual cooperation of both.**
- **All main line movements in such case along with shunting operation, will be carried out by Local SM on the instructions of CTC Controller.**

DAILY CTC OPERATIONAL PERFORMANCE (POSITION OF 30.09.19)

• Total CTC Territories : 3 (T4,T3,T2)		Duration of CTC Working:	
i. T-4 - (00:00 - 23:59)	1	MTI- 20 hour 34 minutes	
ii. T-3 - (00:00- 23:59)	2	BRN- 18 hour 45 minutes	
iii. T-2 - (00:00- 08:00 & 16:00 - 23:59)	3	CMR- 15 hour 5 minutes	
	4	JLS- 19 hour 41 minutes	
	5	PORA- 20 hour 15 minutes	
	6	HRS- 17 hour 16 minutes	
	7	SNS- 5 hour 0 minutes	
• TOTAL TRAINS COINTROLLED: 195	8	HNG- 14 hour 59 minutes	
i. UP TRAIN- 92; DN TRAIN- 103	9	FZD- 20 hour 28 minutes	
ii. Goods Train- 88; Passenger Train- 107	10	MNR- 18 hour 49 minutes	
	11	SKB- 14 hour 52 minutes	
	12	KAA- 10 hour 40 minutes	
• CTC WORKING STATIONS- 21	13	BBL- 17 hour 14 minutes	
(MTI, BRN, CMR, JLS, PORA, HRS, SNS, HNG,	14	BDN- 11 hour 40 minutes	
FZD, MNR, SKB, KAA, BBL, BDN, SB, JGR,	15	SB- 19 hour 12 minutes	
EKL, BNT, MXK, DAQ, SHW)	16	JGR- 12 hour 11 minutes	
	17	BNT- 15 hour 40 minutes	
	18	EKL- 11 hour 28 minutes	
	19	MNK- 18 hour 18 minutes	
	20	DAQ- 6 hour 16 minutes	
	21	SHW- 8 hour 36 minutes	

Total CTC hours of operation of stations : 306 hrs 43 minutes.

PRESENT STATUS OF TUNDLA CTC

1. There are total 6 CTC territories. Out of presently feasible 4 CTC territories, 3 territories covering 21 stations on Allgarh-Panki section are being operated. The 4th CTC territory is expected to be operationalized by Oct-Nov 2019.
2. The CTC section with 4 territories, shall cover 30 stations over 270 RKMs on Allgarh-Kanpur section (Expected by Oct-Nov 2019).
3. Remaining two CTC territories (T5 & T6) on Allgarh - Ghazlabad section shall be commissioned after completion of 3rd line work on this section.
4. Big yards like Panki, Tundla and Dadri are not part of CTC due to major shunting operations. However the station view is available in CTC.
5. Presently, CTC Controllers are using basic CTC features/functionalities. Being the first functional CTC installation in the country, Training in Advanced functionalities and exposure to big CTC installations, has been planned at OEM's premises. Proposal under process.