

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)**

No. 2011/Elect.(G)/145/2

New Delhi, dated 12.09.2014

General Manager,
CORE/Allahabad.

Chief Electrical Engineers,
Northern Railway, Baroda House, New Delhi.
North Eastern Railway, Gorakhpur.
CORE/Allahabad

Chief Mechanical Engineer,
Northern Railway, Baroda House, New Delhi.

Chief Project Manager (RE),
Gorakhpur Junction, North Eastern Railway.

Chief Administrative Officer (Con.),
North Eastern Railway, Gorakhpur.

Executive Director(TI),
RDSO, Manak Nagar, Lucknow.

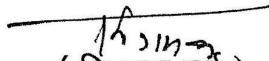
विषय:— अपर सदस्य बिजली के दिनांक 29.08.2014 एवं 30.08.2014 को गोरखपुर एवं लखनऊ के दौरे से संबंधित निरीक्षण नोट।

Sub: Inspection note of Shri Man Singh, Additional Member (Electrical)/ Railway Board during his visit to Gorakhpur and Lucknow on 29.08.2014 & 30.08.2014.

अपर सदस्य बिजली के उपयुक्त निरीक्षण नोट की एक प्रति सूचना और आगे आवश्यक कार्यवाही हेतु इसके साथ अग्रेषित की जा रही है। इसके अनुपालन/की गई कार्यवाही के संबंध में कृपया बोर्ड कार्यालय को एक महीने की अवधि के भीतर अवश्य सूचित करें, जहां कहीं अंतिम निष्पत्ति संभव न हो तो शीघ्रातिशीघ्र अंतरिम टिप्पणियां भेजें।

A copy of Additional Member Electrical's above mentioned inspection note is forwarded herewith for information and further necessary action. Its compliance/action taken may please be intimated to Board's office within a month time positively. Wherever final disposal is not possible, interim remarks may be furnished at the earliest to be followed by final remarks.

संलग्न: यथोपरि


(विनायक गर्ग),
निदेशक बिजली इंजी० (सा०)
रेलवे बोर्ड ।

Copy to: Adv.L (G), Adv. /RE, EDRE(P), EDEE(RS), EDEE(M), PPS/ML & PPS/AM(L).

**Inspection note of Shri Man Singh, Additional Member Electrical,
Railway Board, during his visit to GKP & LKO on 29.08.2014 & 30.08.2014.**

29.08.2014

S.No.	Description of item	Action by
1.0	<u>Window trailing Inspection of Khalilabad – GKP Section by RA-6,TNo 12556 DN Exp</u>	
1.1	Speedometer of AC RA-6 (NR) is defective and pressure gauge shows BP-5 Kg/Cm & FP-6 Kg./Cm.	CME/NR
1.2	At few locations mast not yet erected. This work should be expedited to start wiring work early.	CPM/RE/GKP
1.3	For few locations it was noted that grouting of mast not yet done. It should be done on priority.	CPM/RE/GKP
1.4	At Basti and beyond no booms are erected. Its installation to be expedited.	CPM/RE/GKP
1.5	Single line wiring has been done on Dn/Up line. Upto GKP outer at few locations continuity of wiring is not available.	CPM/RE/GKP
1.6	At few locations only catenary wire drawn. The work of contact wires including D&C should be done to avoid thefts.	CPM/RE/GKP
1.7	At few locations where wiring has been done traction bonds are missing. These should be provided.	CPM/RE/GKP
1.8	No brackets are installed on the mast of other parallel line.	CPM/RE/GKP
2.0	<u>Discussion with CPM/RE/GKP</u>	
	The following observations were made during the inspection:	
2.1	At Gorakhpur station on main platform 1 & 2 and island platform No. 3 & 4, portal uprights and some booms are erected. The erection of all the portals with boom and drop arm should be done on priority to facilitate OHE wiring.	CPM/RE/GKP CEE/CORE
2.2	CPM mentioned that at 6 locations between Gorakhpur old washing pit and east end of PF No.2 foundation work is held up due to no approval of the new foundation design with additional piece in portal booms. The design calculation along with foundation drawings have been submitted to RDSO which requires immediate approval.	CPM/RE/GKP CEE/CORE ED/TI/RDSO
	Sr.ED/TI/RDSO is advised to study the proposed arrangement & design and approve/clear the same. Since above six portals cover main line and some yard lines, hence for continuity in wiring the approval of	

- these 6 portal locations should be cleared without any delay.
- 2.3 All the portals & single masts at Gorakhpur Cantt. station and main line upto Gorakhpur station east side has been erected and also brackets have been provided. CPM told that wiring from the divisional boundary (BSB & LJNI division) location shall be started from second week of September 2014. **CPM/RE/GKP**
- 2.4 Foundation in Gorakhpur yard has not been started as yet. CPM told that Gorakhpur yard foundation work will be started from October 2014 after rainy season is over. M/s ATPL Contractor was advised to ensure the foundation work as agreed to and CPM should review/monitor the progress of this work very closely. The commissioning of yard OHE is as important as main line for the train operation, hence the wiring of the main line including yard lines are to be planned and executed simultaneously. **CPM/RE/GKP**
- 2.5 Efforts are to be made to complete the entire wiring work including 25 KV fitness by March'2015 between Basti-Gorakhpur Cantt. M/s ATPL was also appraised with this target. **CPM/RE/GKP**
CEE/CORE
- 2.6 CPM assured to complete the whole electrification work in the section Gonda-Basti and Siwan – Bhatni – Gorakhpur Cantt by December 2014 and accordingly submit application to CRS for inspection. Effort should be made to complete the wiring of Basti – Gorakhpur Cantt including Gorakhpur yard also by March 2015. **CPM/RE/GKP**
CEE/CORE
- 2.7 The civil work of SP/SSP in both the groups 141 & 142 is progressing very slow. This needs to be expedited so that equipment erection/ commissioning and laying of S&T cable for SCADA can also be done in parallel. **CPM/RE/GKP**
- 2.8 CPM was advised to process all the papers connected with the infringement to SOD, if any, to obtain condonation in advance. **CPM/RE/GKP**
CEE/CORE
- 2.9 One condonation at Gorakhpur TSS is required for the terminating 132 KV transmission line tower which is not fulfilling the requirement of H+6 due to non availability of space. This should be processed immediately and send to Board for sanction of condonation through CRS/CCRS. **CPM/RE/GKP**
CEE/CORE
- 2.10 CPM told that stock of 107 sq mm contact wire has been consumed due to recent wiring activity. Now the work of wiring will suffer due to non availability. Same position will be faced with 65mm² catenary wire also after one month i.e. by September 2014. The requirement of contact wire for Group 142 is approx 200 MT and that of catenary 100 MT. Immediate **CEE/CORE/**
ALD

- action should be taken to ensure supply of the conductors.
- 2.11 **Burhawal TSS** – The transmission line work is not progressing because of ROW problem. CPM was advised to take up the issue with M/s UPPCL for early commissioning of Transmission line. Total 8 towers are yet to be erected alongwith stringing work. **CPM/RE/GKP
CEE/CORE**
- 2.12 **Gorakhpur TSS** – The work is in progress. The control panel has been installed and cable laying work is in progress but some of the equipment are yet to be installed in switch yard. M/s UPPCL has already commissioned the transmission line. **CPM/RE/GKP**
- The work at gantry location including cross gantry conductors are yet to be done.
- 2.13 The HT over head alignment at Gorakhpur TSS location crossing the Railway track and running parallel to track should immediately be removed to avoid any accidents/ electrocution. As confirmed by CPM, the cabling work has been completed, only EIG sanction is to be obtained by CEE/NER. The matter needs to be pursued with NER for early removal of over head lines. **CPM/RE/GKP
CEE/NER**
- 2.14 **Nunkhar TSS** – The work has started with erection of structures and equipments. The progress needs to be improved further to commission this TSS by November 2014. CPM should monitor the progress closely. **CPM/RE/GKP**
- 2.15 **Govind Nagar TSS** – No work has been started as yet. Control room building is ready and both the traction transformers are at their foundation. The target to commission this TSS is December 2014. Contractor should be pressurized to start the work and complete the commissioning work within stipulated time frame. **CPM/RE/GKP
CEE/CORE**
- 2.16 The progress of Group 141 was also reviewed during the meeting. The status is as under:
- 2.16.1 The OHE work between the doubling section Bhatpar Rani- Bhatni – Chauri Chaura (60 RKM) is in progress. Now all the doubling work along with S&T modification work has been completed on 30.08.2014 in the entire section. It was emphasized to take up the foundation work on priority. M/s TPL should deploy at least 3 gangs of foundation to complete this work by September 2014 end and mast erection & fitment of SPS, provision of bracket for wiring work should be taken in parallel to save time. All the works pertaining to OHE/Electrification work e.g. joint checking of SED & T/Wagon should be completed by November 2014 end so that **CPM/RE/GKP
CEE/CORE**

section can be offered for CRS inspection. M/s TPL's representative has accepted this target.

- 2.16.2 In group 141, Building/civil works is yet to be started in 3 switching posts. This needs to be completed within month's time and equipment to be installed along with OHE work. **CPM/RE/GKP
CEE/CORE**
- 2.16.3 Communication cable should be laid from the station to switching post which are ready. The erection of RTU & other equipments should also be started for ensuring its commissioning in time. **CPM/RE/GKP**
- 2.17 After discussion the following targets for the group 142 were agreed to by M/s ATPL representative:
- (i) Gonda-Basti – target 31.12.2014
 - (ii) Basti-Gorakhpur(excluding) - target 31.03.2015 **CPM/RE/GKP**
 - (iii) Gorakhpur(including)-Gorakhpur Cantt (including) – target December 2014 **CEE/CORE**
 - (iv) Gorakhpur yard complete in all respect by 30.03.2015

CPM was advised to monitor the progress at his level to achieve the committed targets.

2.18 Discussion with CEE & CESE/NER: **CEE/NER**

- 2.18.1 It was advised that the checking of all the OHE Mast implantations provided on the circular route of Lucknow division, N.E.Railway should be done to ensure that these are Min 2.36 on mainline. **CEE/NER**
- 2.18.2 Provision of emergency lights in the coaches of N.E.Railway/Foreign Railway should be ensured during the POH in Gorakhpur workshop. **CEE/NER**
- 2.18.3 Mobile charging points in the eligible coaches of N.E.Railway/Foreign Railways should be ensured in the Gorakhpur shop as per RSP. **CEE/NER**
- 2.18.4 It should be ensured that the working of all the plants in AC coaches are on auto mode and no manual operations be permitted. Micro Processor working in all the AC coaches should be ensured for maintaining proper temperature for the comforts of the travelling passengers. **CEE/NER**
- 2.18.5 It was advised to CESE/HQ/NER that the electrification of the five eligible stations of N.E.Railway should be completed by December, 2014 through solar panels. **CEE/NER**
- 2.18.6 CEE/NER/Gorakhpur has informed that the proposal for creation of one SAG and one Sr. Scale post of TRD has been sent to Railway Board by CPO/NER and the same may kindly be expedited. **Adv/RE**

2.18.7 NE Railway requested that the guidelines for provision of Inverters for Laptop charging points in GSCN coaches may kindly be issued by the Board early, so that action accordingly be taken by the Gorakhpur shop. **Adv/L(G)**

2.18.8 Two escalators recently diverted by Board for Ghazipur should be installed and commissioned within this financial year.

CEE/NER

2.18.9 EIG sanction for the power line crossings proposals of RE should be expedited.

CEE/NER

30.08.2014

3.0 Window trailing inspection by Inspection Carriage No.6 Train No 12591 Exp was conducted in the section Khalilabad - Gonda along with CPM, Dy.CEE/II/RE, Dy.CEE/TRD(HQ)NER, Dy.CSTE/RE & XEN/RE. Following observations made are as under:

3.1 The portal & boom erection work is yet to be completed in section to take up wiring work in station area including yard lines.

CPM/RE/GKP

3.2 Mast erection and grouting work is also to be completed in certain gap locations to facilitate wiring work.

CPM/RE/GKP

3.3 On one line (UP & DN) the wiring work has been completed in Gorakhpur-Basti section but 2nd line along with yard/loop lines in stations are left. This can only be done after erection of portal & booms.

CPM/RE/GKP

3.4 In section wiring of both lines are completed except at two stations Gaur & Tinich where work is in progress.

CPM/RE/GKP

3.5 The bracket adjustment from Mankapur towards Basti is in progress. It was advised that after wiring upto Basti, one gang of SED checking to be deployed from Basti towards Mankapur side also to expedite the work.

CPM/RE/GKP

3.6 With the sanction 25KV AC Electrification of Chhapra-Varanasi-Allahabad section, the remaining patch of Bhatni-Aunrihar section between Gorakhpur-Chhapra and Varanasi- Chhapra will be required to be electrified from the point of view of train operation in order to avoid delay due to traction change at both the points i.e. Bhatni and Aunrihar. Necessary electrification proposal should be processed in this regard.

CEE/NER

3.7 RVNL is doing the work of electrification of Chhapra-Varanasi-Allahabad section which is sanctioned in pink book (2014-15). Close liaisoning is to be made by NE Railway with RVNL for smooth and timely execution of work. NE Railway to check for D&G charges for their cadre in this sanctioned work. Strategy of construction/Raising of Gauge bridge is to be decided by N.E.Rly as work existing head room electrification is not

CEE/NER

CAO/NER/Con.

possible.

- 4.0 **OHE & PSI depot Alambagh Lucknow**
Sr.DEE/TRD/NR/LKO, Sr,DEE/G/NR/LKO, DEE/TRD/NR/LKO & Dy.CEE /C&W /AMV/ Lucknow accompanied during the inspection.
- 4.1 General upkeep and cleanness of the depot was satisfactory.
- 4.2 Some of the 9T insulator were kept on ground instead of stand. Additional stand to be fabricated so that all the insulators are hanging by hook on it. **CEE/NR**
- 4.3 Insulator testing jig for insulators testing was checked. However, testing record was of 3/06/14 & 07/06/14 only. No test record prior to this date, were available. Date of testing is also not being marked on insulator petticoat as per SMI. **CEE/NR**
- 4.4 Division is undertaking extensive foot patrolling of OHE as per stipulated norms. Supervisors should make surprise check of the foot patrolling staff to ensure that the staff deputed for foot patrolling is actually doing the assigned work. Some of the Zonal railways have provided uniforms to foot patrolling staff to ensure visibility of these staff to TRD official as well as other inspecting official. On similarlines, provision of uniform may be adopted by the division . **CEE/NR**
- 4.5 Provision of 1.83 meters high screen on all FOBs/ROBs is to be ensured. As per status shown by the division, there are 16 locations where screens are not existing and there are 13 locations where old type screens are existing. Division should ensure provision of standard screen as per RDSO guideline on all the FOBs/ROBs in next three months. **CEE/NR**
- 4.6 Meggering of 42 KV Lighting Arrestors is to be done with 5 KV Megger having reading up to 5000 Mega Ohm while 110 KV Lighting Arrestors is to be Meggered with 10 KV Megger which can indicate reading of more than 10,000 Mega Ohm (Ten Thousand). Division is presently checking 110 KV LA also with 5KV Megger. This needs to be corrected. **CEE/NR**
- 4.7 Various registers where regular maintenance record of OHE/PSI is maintained was scrutinized. Depot is maintaining all the records as per standard format. However, standard parameters/values should also be indicated on top of the page. **CEE/NR**
- 4.8 SCADA failure should be monitored and analyzed regularly together with Telecom failures. **CEE/NR**
- 4.9 There are a few backlog on OHE maintenance. Division expressed concern about non availability of sufficient power block to maintain OHE/PSI as per codal provision. **CEE/NR**

- 4.10 As per Rly. Bd's norms 0.45 staff is to be provided for maintenance of each TKM of OHE. However, LKO division is having 0.32 staff per TKM. Division was advised to outsource activity which do not require power block as per Rly. Bd's guideline. **CEE/NR**
- 4.11 Codal life of 25KV CB is 25 years. However, as per OEM codal life should be based on number of operations and age whichever is earlier. There are some CBs, particularly those feeding kite prone area are operating 2-3 times daily. Such CBs may require replacement earlier than Railway board prescribed codal life. Thus codal life of CB should be based on age as well as number of operation. **EDEE/M**

M. Singh
(Man Singh) 11/9/14
Addl. Member (Electrical)

No.2014/AML/Inspection

Dated 11.09.2014

Copy to: PPS/ML for kind information of ML

Adv.L(G), Adv.(RE) Railway Board
EDRE(P), & EDEE(M) Railway Board

Distribution: General Manager/CORE/Allahabad

CEE/NR, CEE/NER, CEE/CORE
CAO /Constn./NER
CPM/RE/GKP
ED/TI/RDSO