EF

**Government of India (भारत सरकार)**
**Ministry of Railways (रेल मंत्रालय)**
**Railway Board (रेलवे बोर्ड)**

**No. 2014/Sig/ATP/IR** **New Delhi, dated 18.02.2021**

**To**
**Director General**
**RDSO, Manak Nagar**
**Lucknow, U. P.**

**Sub: - Approved scheme for TCAS & Automatic Signalling.**
**Ref: - NFR's letter No. N/287/65/WPBT/Main (2020-21) dated 04.02.2020 (Copy enclosed).**

Please find enclosed herewith a letter forwarded by NFR. RDSO is requested to examine and reply to the same at the earliest with copy to this office.

**DA- As above**

18/2/21
**(Sudeep Shrivastava)**
**Executive Director/Signal Project**

**Copy to –**

1. **CSTE/Project/NFR – for kind information**

**Office of the**
**General Manager (S&T)**
**Northeast Frontier Railway**

No. N/287/65/ WPBT/Main (2020-21)

Date: 04.02.2021

To,

Executive Director/Signal Project
Railway Board.

**Subject: Approved Scheme for TCAS & Automatic Signaling**

Railway Board has sanctioned several infrastructure works for enhancement of Line Capacity and Safety over NF Railway through Umbrella Works in Pink Book 2020-21, such as, Provision of LTE, TCAS, Automatic Signaling & CTC.

The above works are included in the list of Priority Works under "Vision 2024". As such, it is imperative that execution of these works be well planned and expedited. Raising of sectional speed to 130 kmph is targeted by Railway Board for B-routes, which covers the sction Malda – New Jalpaiguri, of NF Railway. Provision of Automatic Signaling with CTC and TCAS is to be taken up on priority in this section to adhere with the targets.

Vide this office letter dated 18.01.2021, the tentative scheme for Automatic Signaling which was initially envisaged by NF Railway and used as a basis for preparing the Abstract Estimate was intimate to RDSO with request to provide the approved scheme for Automatic Signaling and TCAS (copy enclosed).

It is requested that the approved scheme Automatic Signaling and TCAS for may kindly be provided so that detailed planning for execution of the works can be done.

DA: As above

04/2/2021.
(K. Singson)
CSTE/Project

10/1

**Office of the**
**General Manager (S&T)**
**Northeast Frontier Railway**

No. N/287/65/ WPBT/Main (2020-21)

Date: 18.01.2021

To,

Executive Director/Tele
RDSO, Lucknow.

Subject: Approved Scheme for TCAS & Automatic Signaling

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It is requested that the approved scheme for Automatic Signaling and TCAS may kindly be provided so that detailed planning for execution of the works can be done.

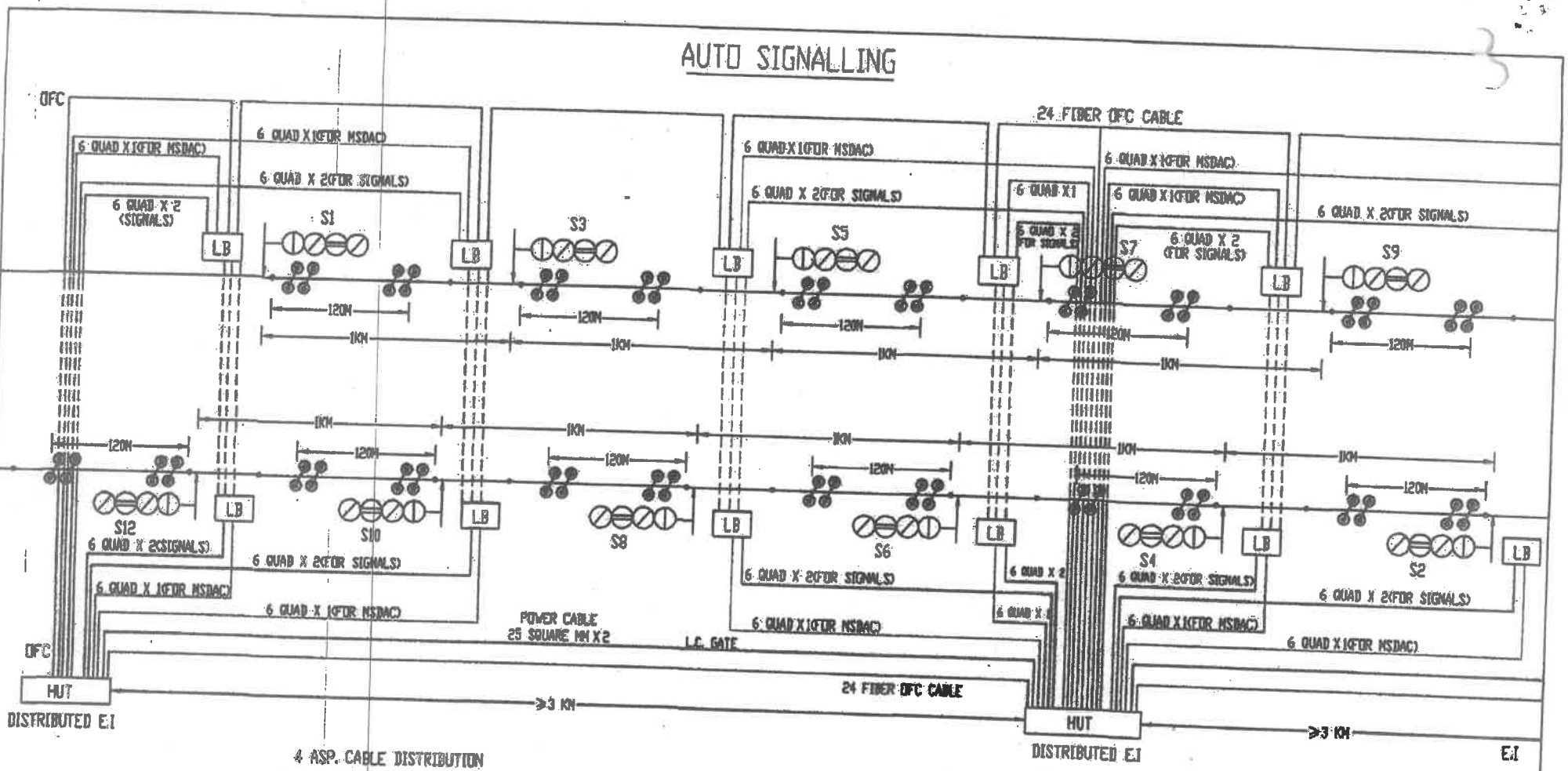
DA: As above

Digitally signed by
KAIKHOLEN SINGSON
Date: 2021.01.18 11:45:26
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(K. Singson)
CSTE/Project

10/2

# AUTO SIGNALLING




## 4 ASP. CABLE DISTRIBUTION

**6 QUAD CABLE**

2 C - HPPR
2 C - HHPPR
2 C - DPPR
2 C - RG
2 C - HG
2 C - HHG
2 C - DG

TOTAL 14 C

**QUAD CABLE**

1/2 OR ONE QUAD
FOR EACH D.P.

**BITS FOR MADAC (DUAL)**

RSTR-M, RSTR-S, AUTO RESET - 3 BITS
AXTPR-M, AXTPR-S, RSTPR-ACK, RSTPR-ACK-S - 4 BITS

7 BITS PER TS.

**BITS**

HG, HHG, DG - 3 BITS
RECR, DECR, HECR, HHECR - 4 BITS

7 BITS PER SIG.

TYPICAL LAYOUT DIAGRAM FOR AUTOMATIC