

GOVERNMENT OF INDIA (BHARAT SARKAR)
MINISTRY OF RAILWAYS (RAIL MANTRALAYA)
(RAILWAY BOARD)

SNS
S.N.41
SN-429

No.2003/Tele/TP/1

New Delhi, dated : 08.08.2003

General Manager (S&T),
All Indian Railways.

General Manager,
C.O.R.E.,
Allahabad.

Sub.: Laying of Quad cable along with OFC.

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The Railways are presently following two schemes of laying underground Telecommunication Quad cables as under –

- i) 6 Quad cable without OFC
- ii) 4 Quad cable along with OFC

2.0 Additional Signalling sub-systems to improve safety and reliability are gradually being integrated into the Signalling systems. There has, therefore, been a need to increase the quad availability, particularly along with OFC for working of Block Proving by Axle Counters (BPAC), Train Actuated Warning Systems (TAWs), Networking of Data Loggers and provision of an Auto Telephone at an accident location during emergencies etc.

3.0 Board have considered this emerging need to integrate new systems and have decided that henceforth, 6 quad cable shall be provided along with OFC in all future works on sections where communication based Signalling schemes like those listed in Para '2' have been / are being planned.

4.0 A tentative quad allocation of a 6 quad cable, when laid along with OFC or with out OFC is as under -

4.1 6 quad with OFC :

- | | | |
|-----------|---|------------------------------------|
| Quad No.1 | - | Block |
| Quad No.2 | - | Spare |
| Quad No.3 | - | Emergency communication |
| Quad No.4 | - | ½ Quad – Gate Telephone |
| | - | ½ Quad – for Block Proving by Axle |

- Quad No.5 - Counter (BPAC)
- Quad No.6 - Block Proving by Axle Counter (BPAC)
- Quad No.6 - Train Actuated Warning System (TAWS)

4.2 6 Quad without OFC :

- Quad No.1 - Block
- Quad No.2 - Section Control
- Quad No.3 - Emergency Communication
- Quad No.4 - 1/2 BPAC
- Quad No.5 - 1/2 - Gate telephone
- Quad No.6 - BPAC
- Quad No.6 - TAWS

The distribution above does not include quad for Networking of Data Loggers and extending Auto numbers in section during emergency.

5.0 Action may be accordingly initiated by the Railways to plan for 6 quad cable along with OFC in all new works.

[Signature] 18/8/03

(V.G.Ramesh Kumar)
Executive Director (Telecom Dev.)
Railway Board.

Copy to Chief Signal & Telecom Engineer (Const.), All Indian Railways.

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