

# SMART SIGNALING



Efftronics Systems Pvt. Ltd.

**ISO 9001 : 2008**

20000873 QM08

**efftronics**®

*To provide insight for enhancing wealth*

# Vision..

## “ To Provide Insight for Enhancing Wealth”

Insight refers to TRUTH. Our Vision is to develop Products & Solutions to develop Products & Solutions to the customers which provide truthful information that can optimize & improve the business process. The customers can take knowledgeable decisions towards Enhancing Wealth.

Since 1994 , we the Efftronics have focused on Railway Signaling Monitoring equipments. Our flagship product Data logger has brought in cultural change in the operations and maintenance of signaling system in Railways. Wrong operations by station master and shortcuts by signal maintainers are reduced drastically by daily monitoring through Data logger System. We are proud to say that we are able to improve the availability of Railway Signaling equipment through our product. With this know how we are bringing ...

## Smart Signaling for Railways

Intelligent & adaptive train operations to improve Safety, Punctuality & Productivity by monitoring the existing signaling systems.

- \* Operational practices
- \* Timetable
- \* Finding solutions to bottlenecks

**Improve**

- \* Signaling Assets
- \* Personnel operating the system
- \* System Outcomes

**Monitor**

- \* Compliance to safety, System operations and procedures
- \* Root cause identification for failures
- \* System Outcomes
- \* Scope for optimization

**Analyze**

## Why we need SMART Signaling???

Availability of railway system is affected by failures and accidents. There have been accidents due to over speeding of trains, signal passing at danger, defects of points and crossings. The root causes are attributed to inattentive operating and loco crew, material failure, inadequate maintenance of track, rolling stock, locos and signaling system. All those loses can be prevented by indicating the failure beforehand by detecting and taking corrective actions.

## Solutions

Through our Research & Innovation we are bringing various solutions to improve the Railway signaling to bring in

- ❖ Improved Safety
- ❖ Punctuality
- ❖ Productivity

We are now monitoring not just the Relays. We are bringing various solutions to monitor all the Assets of Railway Signaling. We also want to bring in various Analytics to understand this data for providing better INSIGHTS.



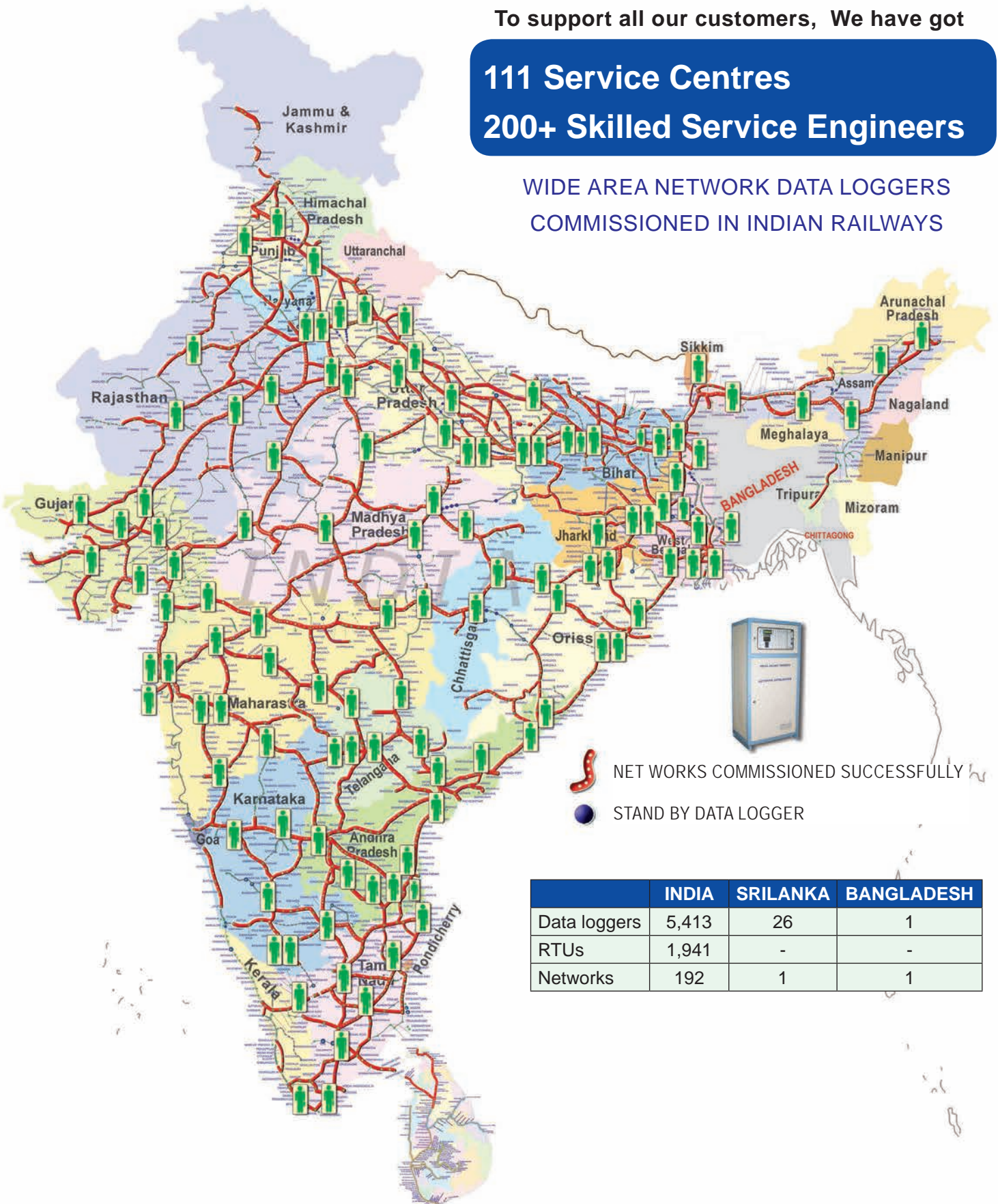
# Pan India Service Network

To support all our customers, We have got

**111 Service Centres**

**200+ Skilled Service Engineers**

WIDE AREA NETWORK DATA LOGGERS  
COMMISSIONED IN INDIAN RAILWAYS



	INDIA	SRI LANKA	BANGLADESH
Data loggers	5,413	26	1
RTUs	1,941	-	-
Networks	192	1	1

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**'R & D'**

Recognised by  
**DSIR**  
Govt. of INDIA



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Approved by  
**RDSO**  
Govt. of INDIA  
Ministry of Railways

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