

**GOVERNMENT OF INDIA  
RAILWAYS  
LOK SABHA**

STARRED QUESTION NO:224  
ANSWERED ON:07.12.2006  
ELECTRIFICATION OF RAIL LINES  
Bishnoi Shri Jaswant Singh;Singh Shri Ganesh

**Will the Minister of RAILWAYS be pleased to state:**

- (a) the total length (in km) of rail line electrified in the country, zone-wise;
- (b) whether any guidelines/norms for electrification of rail lines have been formulated; (
- (c) if so, the details thereof;
- (d) whether several proposals for electrification of rail lines are pending with the Railways;
- (e) if so, the details thereof; and
- (f) the time by which these are likely to be cleared?

**Answer**

MINISTER OF THE STATE IN THE MINISTRY OF RAILWAYS(SHRI LALU PRASAD)

(a) to (f) A Statement is laid on the Table of the Sabha.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (f) OF STARRED QUESTION NO. 224 BY SHRI JASWANT SINGH BISHNOI & SHRI GANESH SINGH, TO BE ANSWERED IN LOK SABHA ON 07.12.2006 REGARDING ELECTRIFICATION OF RAIL LINES.

(a). The total length of electrified railway lines on Indian Railway, zone-wise as on 01.04.2006 are as under:-

S.No. Railway Route Kilometres Electrified

1. Central	1796
2. Eastern	1294
3. East Central	1380
4. East Coast	1265
5. Northern	1113
6. North Central	1384
7 North Eastern	19
8. North Frontier	0
9. North Western	0
10. Southern	1756
11. South Central	1536
12. South Eastern	2136
13. South East Central	1209
14. South Western	157
15 Western	1148
16. West Central	1257
Total	17450

(b)&(c): Yes, Sir. Electrification projects are considered primarily on economic considerations excepting projects justified as operational necessity. The criterion /guidelines being followed in this regard are as under:

(i) Each electrification project will be justified on Rate of Return, which should exceed 14% with the Discounted Cash Flow (DCF) method.

(ii) In certain specific cases, electrification will be justified on considerations of operational flexibility.

(iii) While proposing electrification of a route, the rail network in the region in totality should be considered to include, if necessary,

short route lengths, which would otherwise remain non-electrified and reduce operational flexibility.

(d) to (f) : This Ministry has drawn a blue print for electrification based on operational requirement, in addition to need based proposal received from Zonal Railways on continuous basis. Out of these proposal for individual section are processed priority based on traffic priority and availability of funds.