layers were supplied either by pack bullocks and animals carry ing water in siling or by onthe filled with cande, that he novel expedient water specied to of preparing a soft bed driet in novel expedient water specied to of preparing a soft bed driet in novel expedient water specied to of preparing a soft bed driet in novel congress by ploughing the hard saline crust of the desort instead of threating an an artifolial embankment. The bullocks engaged his water the read of the line, and it was eistemary for these animals to work the whole of one day without water, and then to spend the next few days in going o and viteral for the solid the next few days in going o and viteral for the control of the read of the line, and it was eistemary for these animals to work the whole of one day without water, and then to spend the next few days in going o and viteral for the control of the next works are bring raised to a suitable house it more orthodox fashion. Whilst on the subject of behalts in more orthodox fashion. Whilst on the subject of behalts in more orthodox fashion. Whilst on the subject of behalts in more orthodox fashion. Whilst on the subject of behalts in more orthodox fashion. Whilst on the subject of behalts in more orthodox fashion. Whilst on the subject of behalts in more orthodox fashion. Whilst on the subject of behalts in more orthodox fashion. Whilst on the subject of the subject of the subject of the nights on the desert as compared with the subject of th

HISTORICAL ANALYSIS OF RUK SINI SECTION SURRUR AND QUETTA RAILWAY.

1. Sir Louis Cavagnari, political President at Kabul, murdered and September, 1879.

2. News received at Simia, Viceregal headquarters, on 7th Sept. 3. Decision regarding ratiway given by Viceregal Council on 10th. 4. Orders published on 13th 5. Staff of three or four consincers met at Sukkur on the 25th. 5. Sufficient men, tools and materials epilected to commence operations at Ruk on the 5th October. 5. Shikapore 10% reached 18th October. 5. Jacobabad, 30 miles reached on 5th November.

9. Laborers struck work on 6th Nov. and refused to go beyond the limits of cultivation and civilization into the desert beyond. Ten whole days were occupied in this strike, during which no work was done. Pathans were ringleacers, and were so faint-hearted

was done. Pathans were ringleacers, and were so faint-hearted that.

19. The 5ith mile was only reached on the 3ith Nov.

11. First two months, 5th October to 5th December, the entire length laid was only 67 miles whilst.

12. When every thing was in full swing the very same length, viz. 67 miles exactly was ind in precisely one calendar month, 14th December to 14th January.

13. Best week's work amounted to 1st miles within a few yards.

14. Best day's work amounted to 2 miles and nine-tentlis.

15. Two slight accidents occurred in the last month; an engine and reveral waggens were derailed; diversions were made in each case and traffle resumed without many hours interruption and without loss of tife.

16. Mortality was much below the average, not exceeding two per ceut, per mile per month.

17. Owing to excellent arrangements or the supply of vegtotables and blankets, scurvy and pneumonia the scourges of this part of India, were most entirely unknown.

18. Shelter was given by light reed screens and sheds 4 ft high roof 1/4 ft. wide, piaced in rows to windward, protecting the men from the cold wind. These camps were pitcled at every three miles, and were thus seldom occupied for more than two days, the fact to which much of their healthiness may be attributed.

19. One European surgeon and one native assistant sufficed for 5,000 men.

20. Ordinary campaigning tents were used by European officers.

19 One European surgeon and one native assistant sumeed for 5,000 men.
20 Ordinary campaigning tents were used by European officers. This camp was shifted every six miles.
21 Absence of rain was an unlooked for blessing to all concerned, both as regards comfort and rapidity of work Rain would have driven workmen to refuge of waggon awnings.
22 Two hundred feet on each side of railway made at public transfer.

22 Two hundred feet on each side of railway made at public expense
23. Plate laying cost about one shilling per yard.
24. Cost of railway material unknown.
25. Cost of inving line exclusive of cost of materials—iron and wood—but including plate laying, that is to say cost of relaying permanent way is, to be safely workable, £500 per mile.
25 Ten locomotives and 300 waggons were employed on this section itself, besides those engaged on parent line in bringing up materials. This was all borrowed by Government from other Indian railways.
27 The railway Ruk Sibi section 18i miles in length, was opened at Sibi on the 15th January, 1850.

Congratulations from all quarters were received during the day.
28. May—attached.

W. Hennell, Capt-

W. HENNELL, Capt-5th Regt. Bombay N. I. I

Camp Harnai, Southern Afghanistan,
25th February, 1880.
N. B.—This paper was compiled with Mr. James Bell, the chief executive engaleer of the line.

W. G. ELLIOTT,

BUTCHER,

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