Name of work: - Construction of New B.G. Rail line from Tori to Shivpur.

Cost Benefit Analysis

The financial evaluation of the project as a whole has been worked out with the help of 'Discounted Cash Flow' technique. The salient features of Cash inflow and cash out flow considered for the evaluation in the cash flow chart are as under: -

Sl. No.	Particulars	Amount
1	Structural Engineering Cost (a) Civil Engineering (b) Single & Telecom Engineering. (c) Electrical (G) (d) Railway Electrification (e) Departmental charges **Total**	 Rs. 1319.61 Crore. Rs. 30.67 Crore. Rs. 3.84 Crore. Rs. 58.01 Crore. Rs. 176.52 Crore Rs. 1588.65 Crore.
2	Cost of Rolling Stock	Rs. 100 Crore.
3	Cost of Replacement of assets within the life span of the project.	Rs. 1588.65 Cr.
4	Environmental losses.	Rs. 4.40 Cr.
5	Net earnings in the opening year	Rs. 350 Cr.
6	Net earnings within the life span of the project.	Rs. 35950Cr.
7	Terminal value of the assets after the expiry of the project life.	Rs. 100 Cr.
8	Rate of return	17.52 %

Dy. Chief Engineer/Con/II
East Central Railway, Hazaribag