

HIRAKUD DAM PROJECT

REPORT ON THE INVESTIGATIONS FOR
EXTENSION OF IRRIGATION IN
THE MAHANADI DELTA

By

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New Delhi, the 20th October, 1953.

From:-

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To:-

Shri M.S. Thirumale Iyengar,
Chief Engineer,
Hirakud Dam Project,
Burla.

Subject:- Report on the Investigations for extension
of Irrigation in the Mahanadi Delta.

Sir,

I am forwarding herewith 50 copies of the Report on the Investigations for extension of Irrigation in the Mahanadi Delta for further disposal.

Four copies of details of Estimates on which the Abstract of cost is based and three files containing design statements also accompany.

Eleven portfolios containing Index Plans, Drawings of Masonry structures, designed in the C.D.O. and the Circle Office, Longitudinal and Cross Sections of main canals, Branches and Distributaries etc. are sent separately.

2. The estimated cost of the present Revised proposals, discussed in paras 6 to 6.13 of the Report amounts to Rs. 14.82 Crores as under:-

(i) Remodelling the Existing Canal system. Rs. 4.08 Crores.

(ii) Cost of construction of New canal system in the Puri District coupled with flood control with the off-take of the New Canal above the new weir upstream of Naraj.

Rs. 10.82 "

Total.

Rs. 14.82 Crores.

A culturable area of 10,77,000 acres will be commanded under this proposal which will cost Rs. 138/- per acre of C.C.A.

2.1 The Mazundar Committee had estimated a cost of Rs. 11.0 Crores for irrigating a culturable area of 7,68,000 acres which gave a rate of Rs. 143/- per acre of C.C.A.

3. The cost of an alternate proposal discussed in para 6.15 of the Report has also been estimated. This proposal is nearly similar to the one approved by the Mazumdar Committee and consists of irrigating the new areas in the Puri District through the Taldanda canal and the construction of two Barrage one on Katjuri and the other on Kuakhai to provide a level crossing.

The cost of this alternative which will command a culturable area of 9,92,000 acres amounts to Rs. 12.31 Crores. This gives a cost of Rs. 124/- per acre of C.C.A.

The adoption of this proposal is likely to result in the increase of Bellevue gauge from 27.8, the maximum so far recorded, to 29.8 which may affect the safety of the Cuttack town, as explained in para 6.15 of the report.

4. The Mazumdar Committee had suggested alternative arrangements for irrigation of new areas and disposal of flood in the Puri District vide appendix IV of its report.

Cost of these proposal has also been estimated and amounts to Rs. 22.3 crores. The cost per acre of C.C.A. works out to Rs. 225/-.

Apart from the heavy cost involved, the alternative arrangements suggested by the Committee are subject to technical objections described in para 4.3 and 6 of the Report.

5. It has not been possible to work out the financial aspect of this scheme, as water rates and rates of betterment levy to be adopted for the delta area have not yet been finalised by the Committee appointed by the Hirakud Control Board for appraisal of direct benefits from the Hirakud Dam Project.

6. Programme of construction and requirements of funds for works expenditure for the Delta Project have been worked out on the assumption that the construction will be started in 1954-55, and completed in 1959-60.

Yours faithfully,

M. G. Hiranandani

(M. G. Hiranandani)

D.A/ As above.
"Chaman" 20.10.

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