

Justification of project in the forest area.

The objective of the project is to increase production of agriculture and improve the living standard of farmers in the designed command area of Alirajpur district (Madhya Pradesh), by constructing Distribution Network for Micro-irrigation. Alirajpur lift irrigation scheme is proposed to provide irrigation water to 70 villages in Alirajpur District. In this scheme it is proposed to lift water from the Hathani River. For this purpose suitable capacity pump shall be installed with proper arrangements. The required 12.60 cumec water will be lifted through suitable dia 25.14 km long M.S. pipe rising main with a static head of 244 m in 3 stages. It is proposed to construct a RCC distribution chamber for catering water for irrigation up to 2.5 ha. chak through underground M.S./D.I. & HDPE pipe distribution network. Some area falling under the rising main portion will also be provided irrigation.

The main positive impacts of the project as planned are:

- ⬇ Increased agricultural production and related impact on economy
- ⬇ Conjunctive use of water to prevent of water logging and related salinity.
- ⬇ Improved livestock
- ⬇ Improved infrastructure facilities
- ⬇ Socio-economic environment
- ⬇ Improved human health
- ⬇ Increased industrial activity
- ⬇ Prevention of migration

It may be noted that the source of the water and the design command area of the project are located on the either sides of the forest. While pumping the water from PH2 to PH3, rising main & electrical transmission line is passing through forest area. Following survey & analysis has been done for different alternatives to avoid forest area.

ALTERNATIVES (ALT) FOR RISING MAIN-4

Sr NO	LENGTH IN FOREST(M)	LENGTH IN REVENUE(M)	TOTAL LENGTH(M)
ALT-1	5357	5261	10618
ALT-2	6355	3660	10015
ALT-3	5610	12373	17983

Alternative-1 is found to be more suitable option because of the following reasons

- In alternatives 2 & 3 the forest length is more than the alternative 1.
- If we try to avoid the forest completely then the length of pipe line will increase and subsequently project cost will increase & it will make the project uneconomical.

ALTERNATIVES (ALT) FOR ELECTRICAL TRANSMISSION LINE

1. FOR PUMP HOUSE -3 (33 KVA)

S NO	LENGTH IN FOREST(M)	LENGTH IN REVENUE(M)	TOTAL LENGTH(M)
ALT-1	102	8883	8985
ALT-2	2225	4793	7018
ALT-3	1194	7994	9188

Alternative-1 is found to be more suitable option because of the following reasons

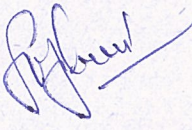
- In alternatives 2 & 3 the forest length is more than the alternative 1.

2. FOR PUMP HOUSE 2 (132 KVA)

S NO	LENGTH IN FOREST(M)	LENGTH IN REVENUE(M)	TOTAL LENGTH(M)
ALT-1	946	18758	19704
ALT-2	1100	22787	23887
ALT-3	0	31835	31835

Alternative-1 is found to be more suitable option because of the following reasons

In alternative 2 the forest length is more than the alternative 1.


Executive Engineer
N.D.Div. No. 16 Kukshi
Distt. Dhar (M.P.)