

ALIRAJPUR LIFT IRRIGATION SCHEME NVDA

ALTERNATIVES (ALT) ROUTE EXAMINATION FOR RISING MAIN-4

| S 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.
- In alternative 3 total length of the rising main is 17983m which is much more than the other two alternatives adding up to extra cost.
- In alternatives 2 & 3 at many places the permanent structures are coming very near to the alignment and it is very difficult to avoid them without further increasing the length of the rising main.
- And in alternative 2 there are many hillocks along the alignment and it is very difficult to route the pipeline.

ALTERNATIVES (ALT) ROUTE FOR EXAMINATION FOR TRANSMISSION LINE

1. FOR PUMP HOUSE 3 (33 KV)

| 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

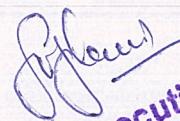
- In alternatives 2 & 3 the forest length is more than the alternative 1.
- In alternative 3 total length of the transmission line is 9188m which is much more than the alternative 1 adding up to extra cost.

2. FOR PUMP HOUSE 2 (132 KV)

| 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.
- In alternative 2&3 total length of the transmission line is much more than the alternative 1 adding up to extra cost.


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