

## Annexure-35

### Note on Map showing alternate routes with different colours and justification of selection the proposed route (In case of linear diversion)


Chuli distributary is off taking from Morbi branch canal at ch.43960mt. And chuli minor-3 is off taking from ch.6000mt.of chuli distributary D-12.Culturable command area of Chuli minor-3 is 267 hectares. Discharge capacity of Chuli Minor-3 is 0.1637 cumecs.

- 1) Chuli minor-3 is contour canal (Contour means line joining points equal levels).Alignment of Chuli minor-3 runs along contour and having command area on right side with respect to flow direction.
- 2) Local hill of 5 to 6m height from existing ground level with width about 30 to 40m is located so it is not possible to align the canal in straight way.
- 3) Alternate no.1 having length of about 2280m and alternate no.2 having length of about 2100m are not feasible technically on basis of levels requirements and bed banking. Alternate no.3 is also not possible as big hill coming on alignment which makes canal in deep cutting.
- 4) Width of proposed canal is 8.54m only ,so 6174 sq.m area is required, but in alternative-3 shown in orange colour is passes through hill of about 5mt.height,so area required is  $723 \times 28.450 = 20570$  sq.m.
- 5) As per most feasible technical alignment with minimum forest land utilization mentioned in map having length 723m is proposed and finalised as most feasible.

Looking to the above facts the only possible feasible alignment marked on map with A-B-C-D-E is the best suitable alignment looking to the topography and command area.

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Place: Surendranagar

  
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