

ANNEXTURE-9

Justification for locating the project on forest area to be submitted by user agency and countersign by DCF.

Sardar sarovar Narmada project is multipurpose project which will cater irrigation facility to about 18 laces ha of culturable commanded area for economical use of water. It is planned to provide water up to each field by gravity. In this regards, distribution network of branches, distributaries, minors and sub-minors up to 8 sub check is planned in such a way that minimum loss of water head and more area could be served for irrigation. The branch canal will serve about 60000 to 80000 Ha. through distributary canal for 4000 to 8000 Ha., then minor canal will serve for 400 to 500 Ha and sub-minor off-taking from minor canal would serve up to 5 to 8 Ha. and Sub minor canal i.e. up to field.

Sundargadh minor (DM-19) is off tacking near village Dighadia, Ta. Halvad of Morbi district from Morbi branch canal. Total length of Sundargadh minor (DM-19) is 10031 meter length passes through village Digadiya, Palsan and Golasan to serving the command area 1014 Ha of village Dighadiya, Palasan and Golasan of Halvad Taluka of Morbi district.

The planning of DM-19 is carried out to serve the 1014 hectare command area (CCA) with minimum land acquisition. The various three alternates were carried out to finalise and avoid the forest land. Out of Alternate-1, Alternate-2 and Alternate-3, the alternate-3 is found most feasible considering the following points.

1. There is Bhrahmni-1 Dam and its command area on left hand side (LHS) of the planned DM-19 direct minor when standing in the direction of flow of water. The levels are falling along the planned canal. The DM-19 canal is planned as canal covering command area on either side of canal. Alternate- 1 & 2 are not feasible due to,
 - (a) 750 m length of Alternate-1, require more head loss and resulting reduction in full supply level (FSL) of canal. The FSL at starting point is 67.001 m and F.S.L. required at end point of forest area in 66.921 m. If Alternate-1 is considered then planned 8cm head loss to cause flow is not sufficient for maintaining the F.S.L. in 750 m length of alignment alternat-1 if considered then it require 18 cm head loss against available only 8 cm. Therefore required discharge at the end point of forest area will not be available in the canal having 850 hectare CCA (beyond forest end point).
 - (b) 850m length of Alternate-2 is also ruled out similarly above as this alternate is having more length then Alternate-1. This alternate-2 requires 21 cm head loss in F.S.L. against available 8 cm.
 - (c) Alternate-3 is of 230 m length requires only 8 cm head loss to serve of 850 hectare CCA beyond forest area.
2. Looking to the above, Alternate-3 is technically and economically most feasible alignment.

The DM-19 canal Land acquisition on either side of forest area (i.e. Starting point & end Point) is already done and construction of canal is completed up to boundary of forest land start.

Therefore Alternate-3 is most justified alignment.

Place : Morbi

Date : 21/8/2017


Deputy Conservator of Forest
Morbi Forest Division-Morbi

Authorised Signatory


Executive Engineer
Saurashtra Branch canal Dn No.6/1
Morbi

Signature in Presence of

(Dy. Conservator of Forest)