

**Upper Bhadra Project, Karnataka, CCA - 2,25,515 Ha , Cost finalized by CWC Rs 20,852 Crores, 2019 Price level**

Upper Bhadra Project is a major lift irrigation Scheme planned in the Central region of Karnataka. It envisages lifting upto 17.40 TMC of water in first stage from Tunga to Bhadra and further lifting 29.90 TMC of water in second stage from Bhadra to Tunnel near Ajjampura, in Tungabhadra sub-basin of Krishna basin. It is planned to irrigate an extent of 2,25,515 hectares by micro irrigation in drought prone districts of Chikmagalur, Chitradurga, Tumkur and Davangere.

The primary objective of the project is providing sustainable irrigation facility in kharif season and to recharge the ground water table and provide drinking water by filling 367 tanks in drought-prone taluks of the above four districts.

**Description of Works**

The project envisages providing irrigation and drinking water to the parched lands of Central Karnataka plateau and in specific:

- (i) Providing irrigation facility for an area of 2,25,515 Ha of land in Tarikera, Kadurtaluks of Chikkamagalur district, Hosadurga, Hiriur Chitradurga and Challakeretaluks of Chitradurga district, Jagalurtaluk of Davamgere district and Sira, Chikkanayakanahallitaluks of Tumkur district. The total requirement of water for irrigation in the command area is 620.40 MCM (21.90 TMC) as finalized by CWC.
- (ii) Filling up of 367 Nos of Tanks would require 226.63 MCM (8 TMC) including augmentation of 2.00 TMC for Vani Vilas Sagar Reservoir. The filling up of tanks will facilitate recharging of ground water besides diluting the fluoride content.

**The Project Component Comprises of:**

- (i) Lifting up to 17.4 TMC (492.78 MCM) of water from the foreshore of Upper Tunga reservoir to Bhadra reservoir from June to October.
- (ii) Lifting of 29.90 TMC (846.55 MCM) of water from Bhadra reservoir to delivery chamber near proposed tunnel near Ajjampura from June to October
- (iii) Construction of 7.00 KM (approximate) length of tunnel near Ajjampura to supply water to Chitradurga Branch Canal (CBC) and Tumkur Branch Canals (TBC) by gravity.
- (iv) Providing infrastructure for drip irrigation to an area of 20.150 Ha. above& surrounding tunnel in Tarikeretaluk during Kharif season.

- (v) Construction of Chitradurga Branch Canal and providing necessary infrastructure for drip irrigation to 1,07,265 Ha in Kharif season only.
- (vi) Construction of Tumkur Branch Canal and providing necessary infrastructure for drip irrigation to 84,000 Ha in Kharif season.
- (vii) Construction of Jagalur Branch Canal and providing infrastructure for drip irrigation of 13,200 Ha in Kharif season.

### **Present Status of Appraisal in CWC**

- Inter-State matters has been accepted in CWC in December 2019 subject to submission of Master Plan w.r.t. revised allocation to MI schemes & to Upper Bhadra Project as per KWDT-I.
  - Hydrology aspect of the project has also been accepted in CWC in April 2020.
  - As advised by Soil and Material Testing of CSMRS, Project authorities need to carry out additional tests on rock cores wherever necessary.
  - Cost Aspects and Working Table have been finalised
  - Benefit Cost ratio will now be finalised before taken up by Advisory Committee
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