

# **Chapter 11**

## **Construction programme, Man power and plant planning**

### **11.1 Construction Programme**

The Krishna (Almatti) – Pennar link project does not include the construction of head works viz., dam at Almatti. It is proposed to complete the entire link project over a period of 10 years along with tunnels, Kalvapalli dam, all other major and minor canal structures, and all head works. During the first and second year of construction period, the preliminary works such as detailed alignment survey, establishing and fixing of bench marks, construction of access roads etc., will be taken up and from second year onwards land acquisition, construction of buildings, camp colonies laying of electrical line works will be taken up to the end of fourth year. During the period of third year the canal excavation and formation of embankments will be started and completed in the ninth year including excavation of tunnel. Construction of all major and minor canal structures will also be started in the beginning of the third year and will be completed by the ninth year. The lining work of the canal and tunnel work will be started in the middle of the third year and will be completed in the tenth year.

### **11.2 Material Planning**

All the construction materials like soil, embankment sand, coarse aggregate, bricks etc., except cement and steel are available with in close vicinity of the link canal alignment. These materials could be obtained easily. The standard laboratory tests were conducted for the fitness of the materials that are proposed to be used for this project. As regards to cement and steel these could be easily transported to the site of work from the supply points through the well-connected rail and road network through out the canal alignment.

### **11.3 Plant and Machinery Planning**

The requirement of plant and other machinery for construction work along the Krishna (Almatti) - Pennar link canal project has also been worked out.

## 11.4 Man Power Planning

Based on the construction programme as explained above and various other norms, the administrative set up has been worked out. It is proposed to have 21 construction divisions and 7 construction circles under 2 Chief Engineers for effective execution of the project. In addition to the above, one Chief Engineer for Administration and Co-ordination, one Superintending Engineer (Co-ordination), Chief Accounts Officer and Director (Administration) is also proposed. All these offices will be suitably located for effective monitoring and control over the execution of the project.

## 11.5 The Programme of Year-Wise Expenditure

The cost of Krishna (Almatti) - Pennar link project is worked out to be Rs. 6599.80 crores. The year-wise expenditure as per the construction programme is given in Table 11.1.

**Table 11.1**  
**Year-wise Expenditure**

<b>Year</b>	<b>Expenditure (Rs. in Crores)</b>
1	140.00
2	195.00
3	849.00
4	856.00
5	836.00
6	836.00
7	862.00
8	866.00
9	869.00
10	290.80
<b>Total</b>	<b>6599.80</b>