

- To facilitate for development of indigenous capability and capacity for design, manufacture and operation of modern high efficiency cogeneration plants.

11.0 BANNARI AMMAN SUGARS LIMITED (BASL0, a private sector company has one of its Sugar Mills in Alaganchi Village in Nanjangud Taluk of Mysore District in the State of Karnataka. This plant known as Unit #2 of BASL, has a licensed capacity of 2500 TCD, but crushes consistently around 3000 TCD. This plant, located in a good cane area, has been in operation since 1992. Considering the past performance of the company and taking into consideration the cane potential in this area, the Government of India has given a license for increasing the crushing capacity of this plant to 5000 TCD. Fully aware of the advantages of Cogeneration, the progressive management of BASL have decided to install a Cogeneration plant in their Unit #2 sugar plant complex to generate surplus power and supply the surplus power to the Karnataka Electricity Board's Grid.

12.0 The feasibility study, considering the various configuration options for the Cogeneration scheme, favours the implementation of the Cogeneration project along with the capacity expansion of the sugar plant. The existing power generation system designed to meet the inhouse requirements of 2500 TCD crushing will be retired once the new plant is stabilized. The new cogeneration system to be installed will include a 80 TPH capacity boiler operating with an outlet steam parameters of 67 ata and 485 Deg.C and a double extraction cum condensing turbogenerator. The extraction steam from the new turbine will meet the process steam requirements of the enhanced crushing capacity of the plant at 5000 TCD. A portion of the power

generated in the Cogeneration system will be used for meeting the inhouse power requirements and the sugar plant power requirements, and a substantial quantum of the power generated will be exported to the Karnataka State Grid.

13.0 As a first step towards the implementation of the Cogeneration project, BASL, have entrusted the assignment of preparing the detailed project report for the installation of bagasse based Cogeneration to M/s. Avant-Garde Engineers And Consultants (P) Ltd., Chennai-600083.

14.0 Avant-Garde expresses their sincere thanks to Mr.S.V. Balasubramanian, Chairman And Managing Director of M/s. Bannari Amman Sugars Limited and the management of BASL, for entrusting them with this assignment. They take this opportunity to thank all the Executives of BASL for their valuable inputs in the preparation of this Detailed Project Report.