COMMENTS on thesis entitled: Statistical Modelling for Production, Cost and Profit Functions of Foodgrains : A Quantile Regression approach

In this study, the estimation of production , cost and profit function of rice, wheat and maize crops at national level and in Jammu region have been done through Quantile Regression (QR) due to the presence of outlinears, multicollinearity etc. using Cobb-Douglas and also compared with Ordinary least square method (OLS).

The significant parameters to increase the production of rice are its area, quality of seeds and sale of power tillers whereas for the cost of cultivation, the variables cost of machine labour& insecticides are minimized the cost of cultivation. The profit of rice may be increased by reducing the cost of seed, insecticides etc.

The Variables area, fertilizer consumption and electricity consumption are main factors to increase the production of wheat. For cost of cultivation of wheat, cost of machine labour &seed and irrigation charges will be minimized. The profit of wheat may be maximized by reducing the cost of seed &irrigation charges.

The production of maize may be increased by improving the irrigation facilities. Its cost of cultivation may be reduced by reducing the cost of fertilizers and manure, insecticides and irrigation charge.

Further, forecasting model(s) for the production, cost and profit of rice, wheat and maize crops have been studied and forecasted value for the year 2020-21 is estimated.

The following points are required to review:

1. Chapter-2(review of literature) few references are missing. Yoginder et al.(1980) do not mentioned the name of crops under study. Further the references of the crops other than rice, wheat, maize and food grain may be ignored if possible.
2. Chapter-3(Materials and Methods) is perfect.
3. Chapter-4(Results) is well discussed and represented.
4. Chapter-5(Discussion) is required a conclusion at the end of each section. Constraints faced by farmers (Section 5.8) are very useful for future planning’s.
5. Chapter-6(Summary and conclusions) is well explained.
6. Further, in the thesis forecast of rice, wheat and maize crops have been done. But, it has been mentioned in main objectives of the study. It may be included at 1.2(VII) if possible.
7. In the title of thesis Foodgains is replaced by Food grain if possible.

The study is very useful and may play a key role for future planning and policy making.

I recommend the thesis for acceptance and consideration for conducting oral examination.