

Note on the DSS modules presented on Dt.: 28.01.2017 at 10.30 AM to the Chairman of the technical committee for the finalization of the FRS (Functional Requirement Specification) and ICB to establish LRI (Land Resource Inventory) GIS based web portal with the provision for the DSS (Decision Support System) for KWDP-II (SUJALA-III) of Watershed Development Department, Government of Karnataka.

Dr. Kaushal K. Garg, Hydrologist from ICRISAT has presented the data requirements, sequences of activities and flow charts finalized for the following five DSS modules to the Chairman of the committee in detail.

- a) DSS for estimating surface runoff at farm/MWS/SWS and higher levels
- b) DSS for designing the size and location of Farm ponds based on runoff model
- c) DSS for estimating crop water requirement at MWS/Village/Hobli/Taluk levels/ based on the land use or crops to be taken up for cultivation
- d) DSS for estimating water balance at MWS or higher levels, taking into account the RF, crop requirement, Runoff, evaporation and other losses, soil moisture and ground water
- e) DSS for water budgeting taking into consideration the needs of various uses/users at MWS/ Village level- crop needs, human needs, livestock needs etc.

After detailed discussion, the Chairman made following observations and suggestions for the FRS document,

1. The data needs and primary source to be clearly indicated in the input table and also for the derived parameters like Evapo-transpiration (ET), Crop co-efficient, Soil moisture & crop water requirement etc., wherever indicated in the modules presented
2. The flow chart to be elaborated wherever necessary in such a way that vender can easily follow and execute the modules
3. To facilitate the development of DSS modules, which is a continuous process, a dedicated team of experts to be identified and established under the project
4. The Chairman expressed his satisfaction about the modules presented



Chairman of the Technical Committee
& Additional Chief Secretary
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