

STEPS FOR ASSESSMENT OF DYNAMIC GROUND WATER RESOURCES

Organizational steps: (details given in Protocol, copy attached)

- Constitution of the state level committee - G.O of the Committee.
- Formulation of Assessment Cell

Basic Database preparedness:

- Fixation of Assessment unit type – Watershed/Administrative unit, Subunits.
- Compilation of Geographical Database - Total geographic area, Hilly area, Command Area, Non-Command Area and Poor Ground Water Quality area (including Criteria), Apportioning Information, Major River Basins, Bottom of the unconfined aquifer in soft rock areas and depth of weathered zone and/or maximum depth of fractures under unconfined conditions (considered for dynamic resources assessment).
- Assessment sub unit wise number of observation wells to be used for the assessment (List of CGWB and SGWD Wells)
- Water Level Details and Range

Preliminary evaluation of Assessment Units : (details given in Protocol, copy attached)

Workshop cum Training session – involving District level officers of State Department

Database compilation for GEC estimations:

- Aquifer Lithology, Specific Yield and Rain fall Infiltration factor Values to be used (Norms or Documented Field Studies), Unit Draft structure wise Norms / Documented Field Studies.
- Proposed Use of Remote sensing data. (details given in Protocol, copy attached)
- Compilation and reconciliation of data. Rainfall, Canal Details, Outlet Details, Cropping Pattern, Irrigated Area (Surface Water & Ground Water), Population Census and Growth rate, Dependency on Ground Water, Tanks

& Ponds, Water Conservation Structures- details, Well Census, Shallow Water Table and Flood Prone Areas and No. of Flooding days,

GEC estimations:

- Computation at administrative unit/watershed & to block level (in case of watershed) – at the district-level
- Compilation – at State level
- Checking at State level – *Detailed* - Database, Methodology, Computation and Logical attributes

Field validation: (details given in Protocol, copy attached)

- Identification of areas for field validation by State level Committee
- Sample survey in identified assessment units by State & CGWB
- Scrutiny of sample survey by State level Committee
- State level Report of sample field validations
- Approval of State level Committee
- Checking at Central Level – *Random* - Methodology, Computation and logical attributes

Report

- State Report – *in uniform format*
- Scrutiny of State Reports (as per format)- at Central level
- Approval of State Report by State Level Committee
- Compilation at National level
- National Report
- Approval of the National Report by Central level Expert Group

Supplementary Studies

- ***Micro-level assessment***
 - Identification of areas for micro-level assessment
 - Data collection, generation and compilation
 - Assessment of identified units
 - Reports of identified assessment units
 - Approval of State level Committee
 - National Report on Supplementary Assessment Studies
 - Approval of National Report by Central level Expert Group

- ***Alternate Assessment Methodology(details from protocol, copy attached)***
 - Identification of areas for alternate assessment methodology
 - Choice of appropriate technique/methodology
 - Data collection, generation and compilation
 - Assessment of identified units
 - Reports of identified assessment units
 - Approval of State level Committee
 - National Report on Supplementary Assessment Studies
 - Approval of National Report by Central level Expert Group