

Monitoring and Warning

Color coding of Drought indicator

Jhod nadi, Tributary of Godavari River @ Nanded,Maharashtra

Parameters	Status		
Period of difficulty PD	●	Perennial river flow PeR	●
Frequency of event Fe	●	Aquifer type AqT	●
Annual Rainfall ARF	●	Groundwater fluctuation GwF	●
Aridity index ArT	●	Population Density PoD	●
Palmer Index PDSI	●	Human +livestock HLG	●
Evaporation Eva	●	Agriculture labor OcAg	●
Vegetation cover NDVI	●	Farmer income InCo	●
Total crop area TCr	●	Storage facility Stor	●
Cash crop /cultivated CaCr	●	Medical facility MF	●
		Transportation network TrN	●

Advisory ●

Watch ●

Warning ●

Emergency ●

Disaster ●

(anticipated drought situation, ref. table R.Nagarajan/IIT Bombay 2006)

Community Level Drought Preparedness Assessment

- **Compare** rainfall amount, water level in wells & lakes / reservoir with that of previous year

- **IF it is less**
THEN

- **Compare** with crop area, population, industry etc

- **IF it is less**
• **THEN**

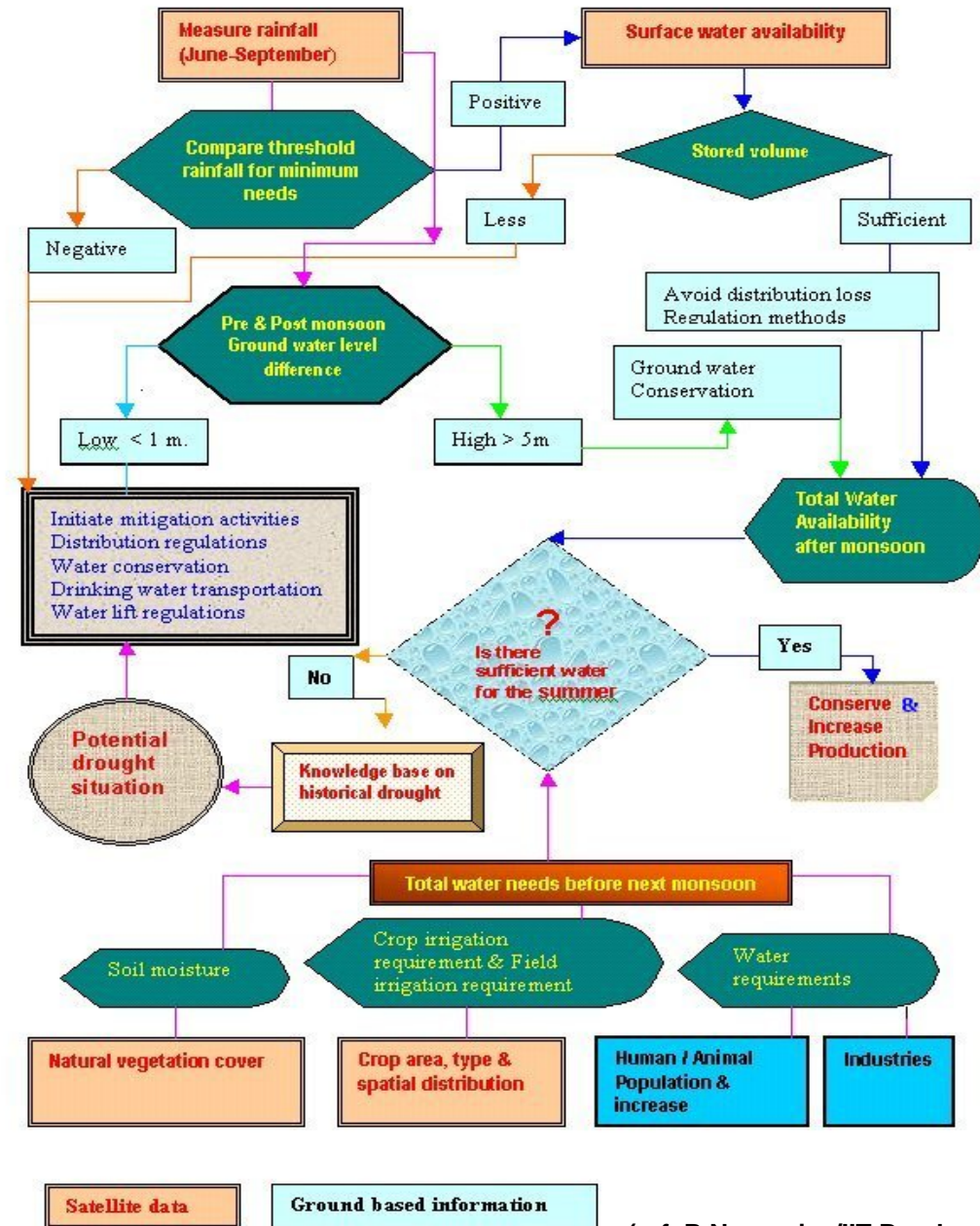
Initiate conservation practices
Or drought preparedness activities

- **IF it is equal or higher**

Share resources & Save resources

Experiment with Drought preparedness measures & consult stake holders prior to execution

(R.Nagarajan/IIT Bombay)



(ref. R.Nagarajan/IIT Bombay)

Drought vulnerability assessment
(immediately after monsoon)

Anticipated Drought Intensity

Assessment is for individual village's
Water Demand & supply

Based on

Surface run-off & storage

Demand from human & animal

Irrigation & Drinking water

Storage & conveyance loss

Consideration

Ground water abstraction is
minimum or nil to avoid uncontrolled
exploitation

Available Storage facility is functional

Extra resource is not sought for

Figure 30 Drought intensity

Assessment – Loha-Nanded

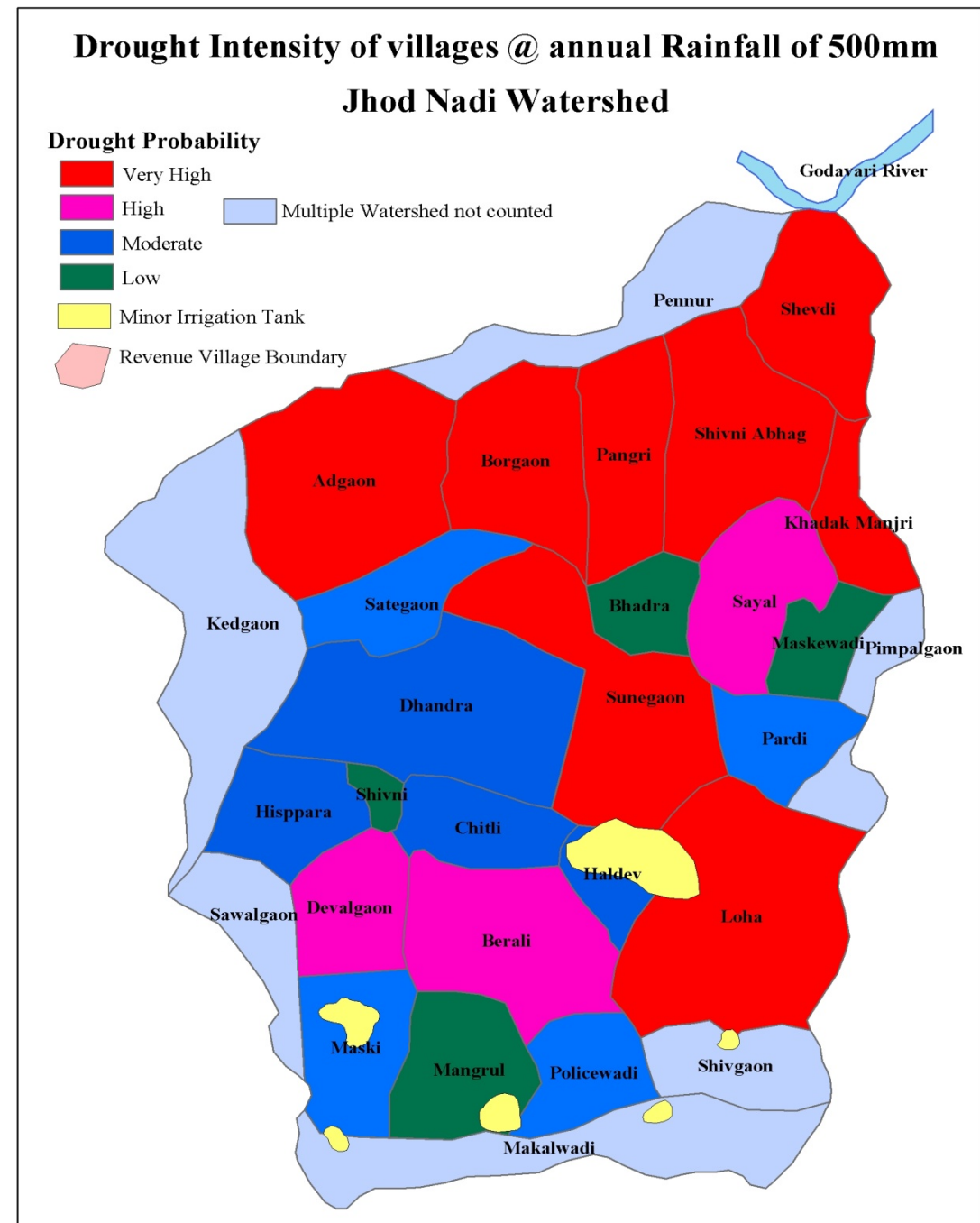


Fig 10b: Status of surface water in meeting the village requirements @ annual rainfall 300 mm

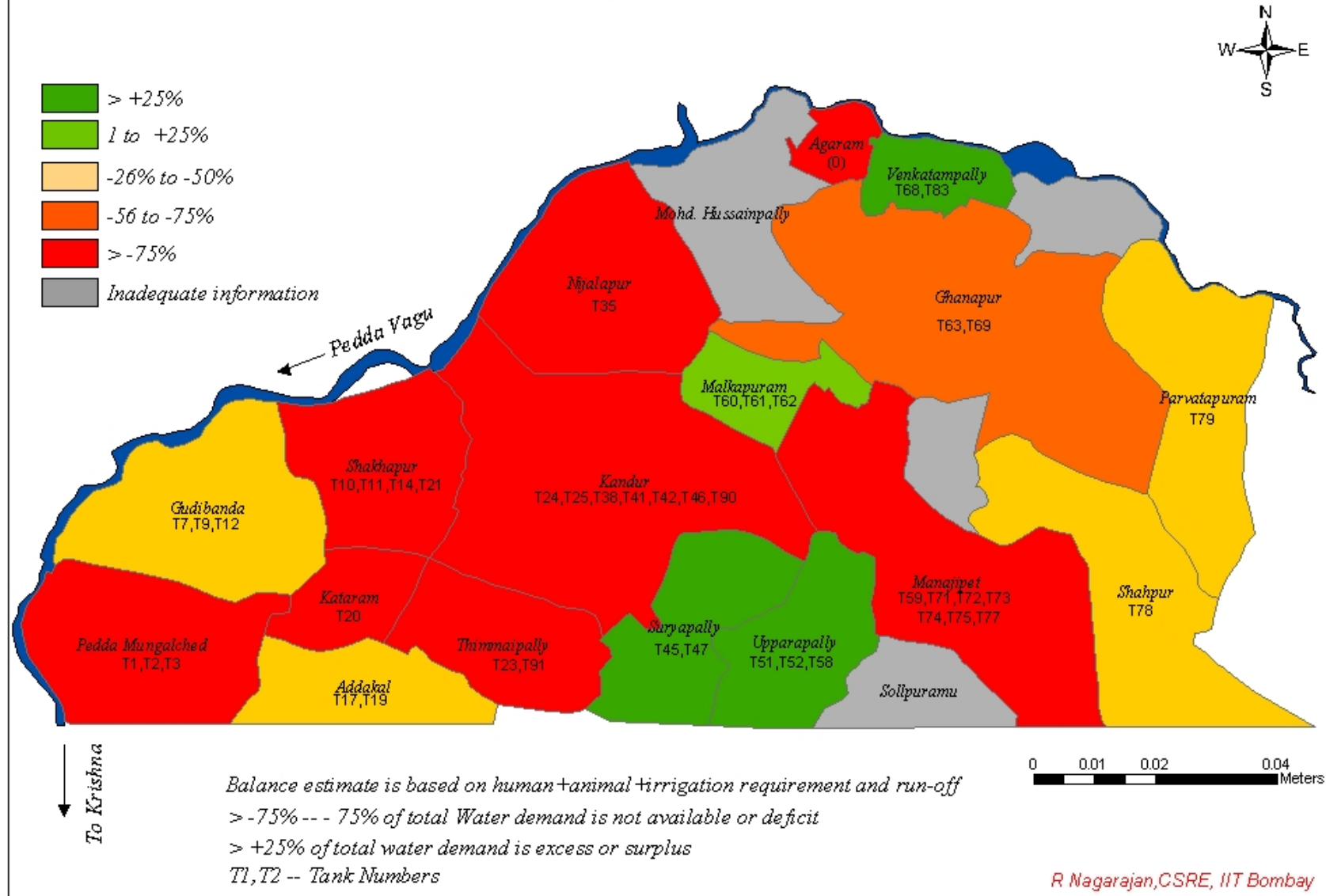
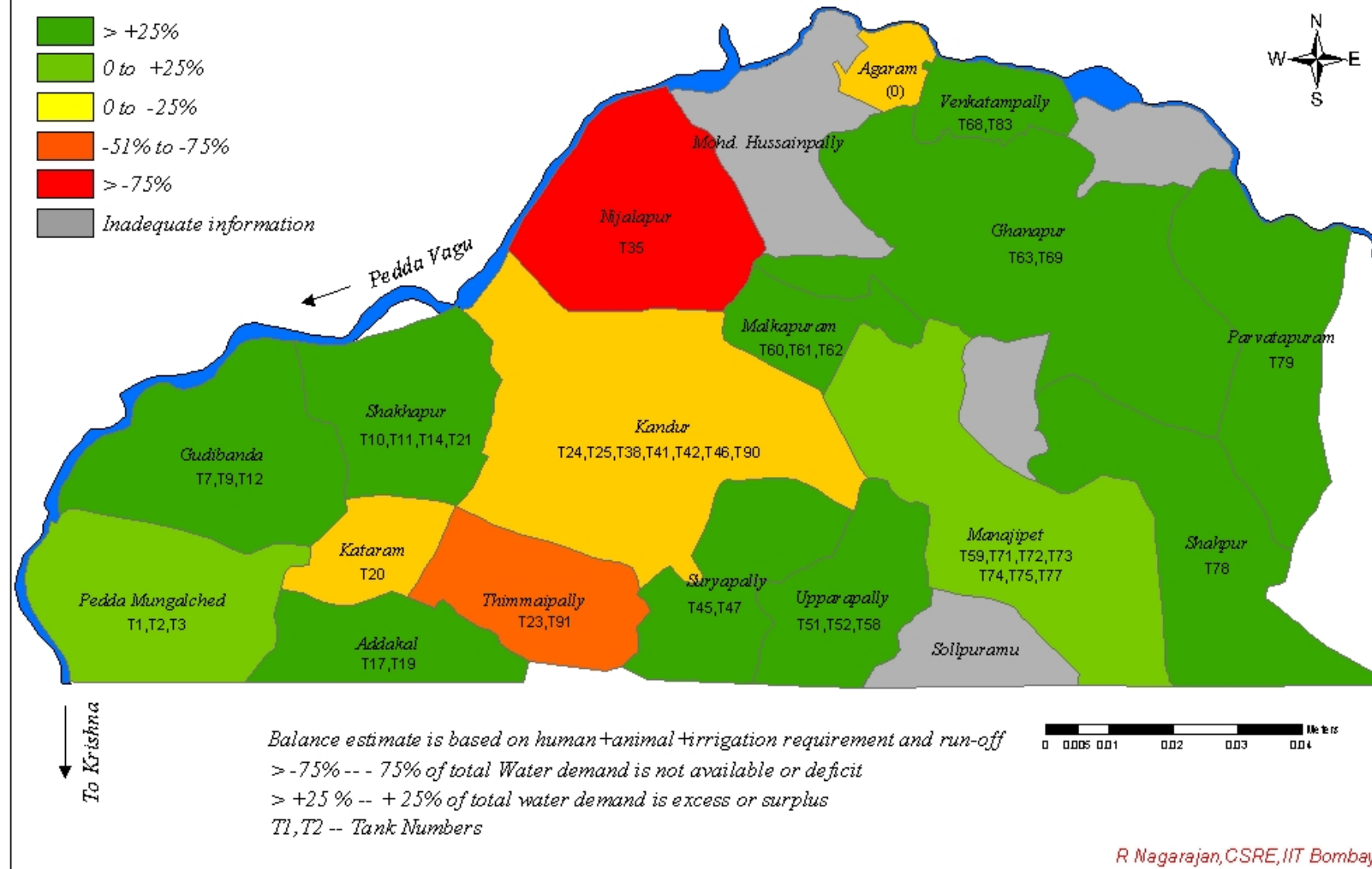


Fig 10g: Status of surface water in meeting the village requirements @ annual rainfall 800 mm



Thank You