

Assessment of Existing Water Storage Structures & Rehabilitation

Water assessment of traditional tank cascade areas

Tank irrigation is prevalent in southern Peninsular to catch and store the sporadic rainfall

It is advocated for the self sustenance of resources in a village or group villages in semi-arid regions

Emergence of Canal and ground lifts have led to degradation of the system

As the tank conditions of embankment, spillway & water release structures, are precarious in nature.

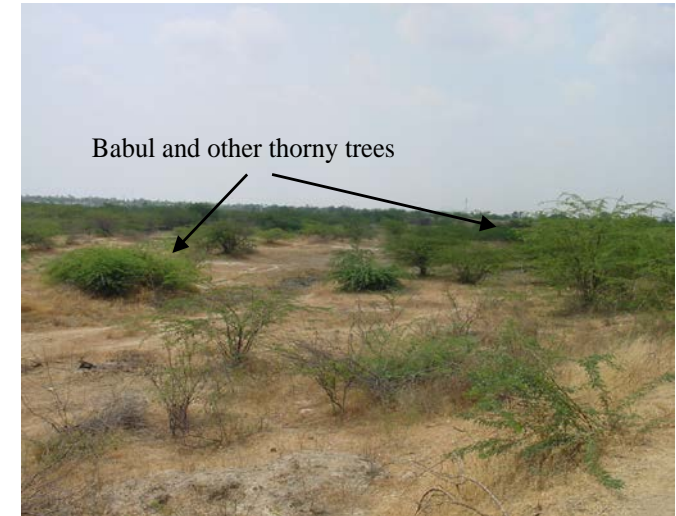
Need for rehabilitation to increase water storage capacity and reduce water stress/flooding

Tank cascade – series of tanks/Cheruvus located on up and down stream sides are connected with each to harvest overflow

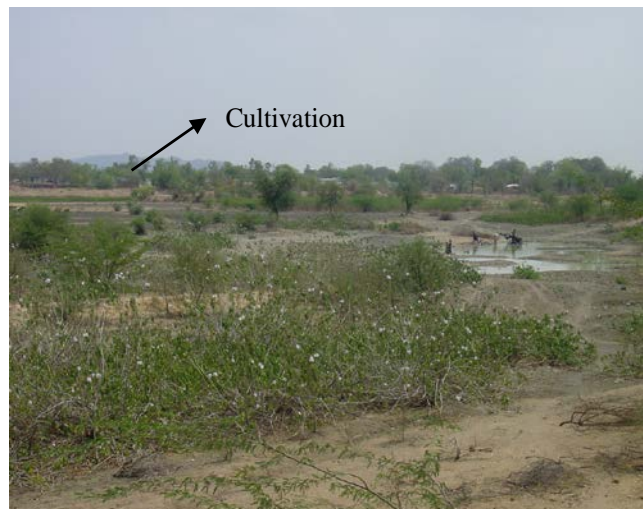
Figure 8: Field Photos showing present day tank condition.



1. Permanent structure constructed within the tank area



2. Growth of Babul and other thorny trees



3. Human encroachment, Cultivation can be observed



4. Tank spillway and silted area

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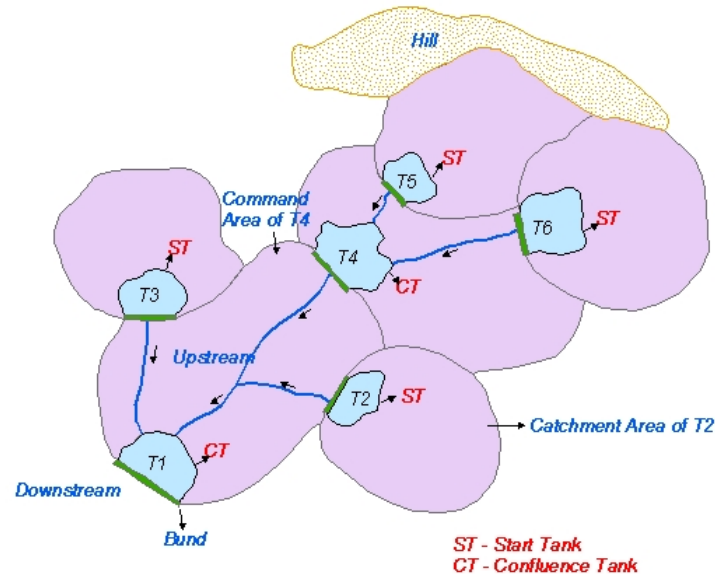
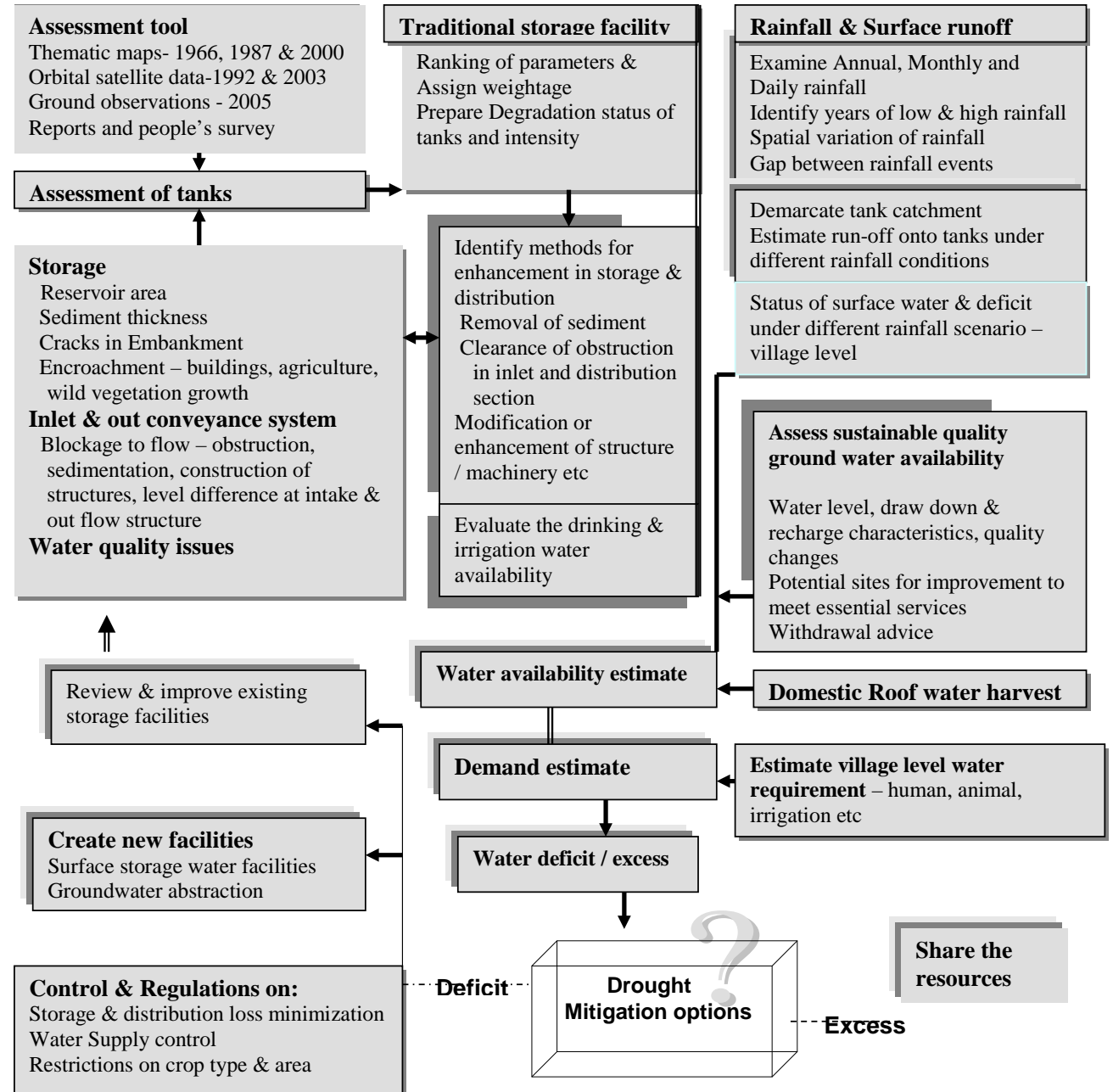


Figure 1: Traditional Tank Cascade



Surface drainage network

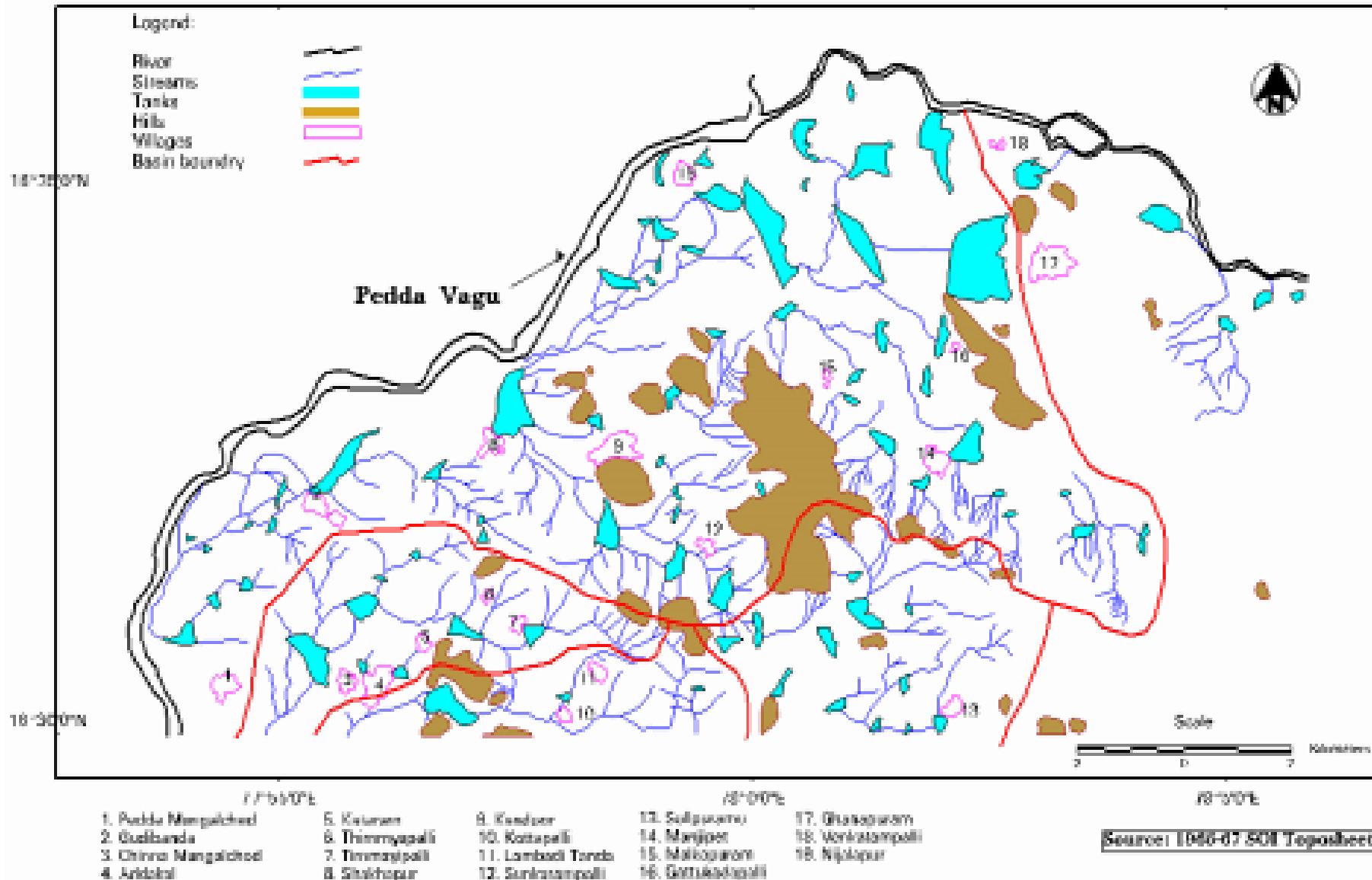
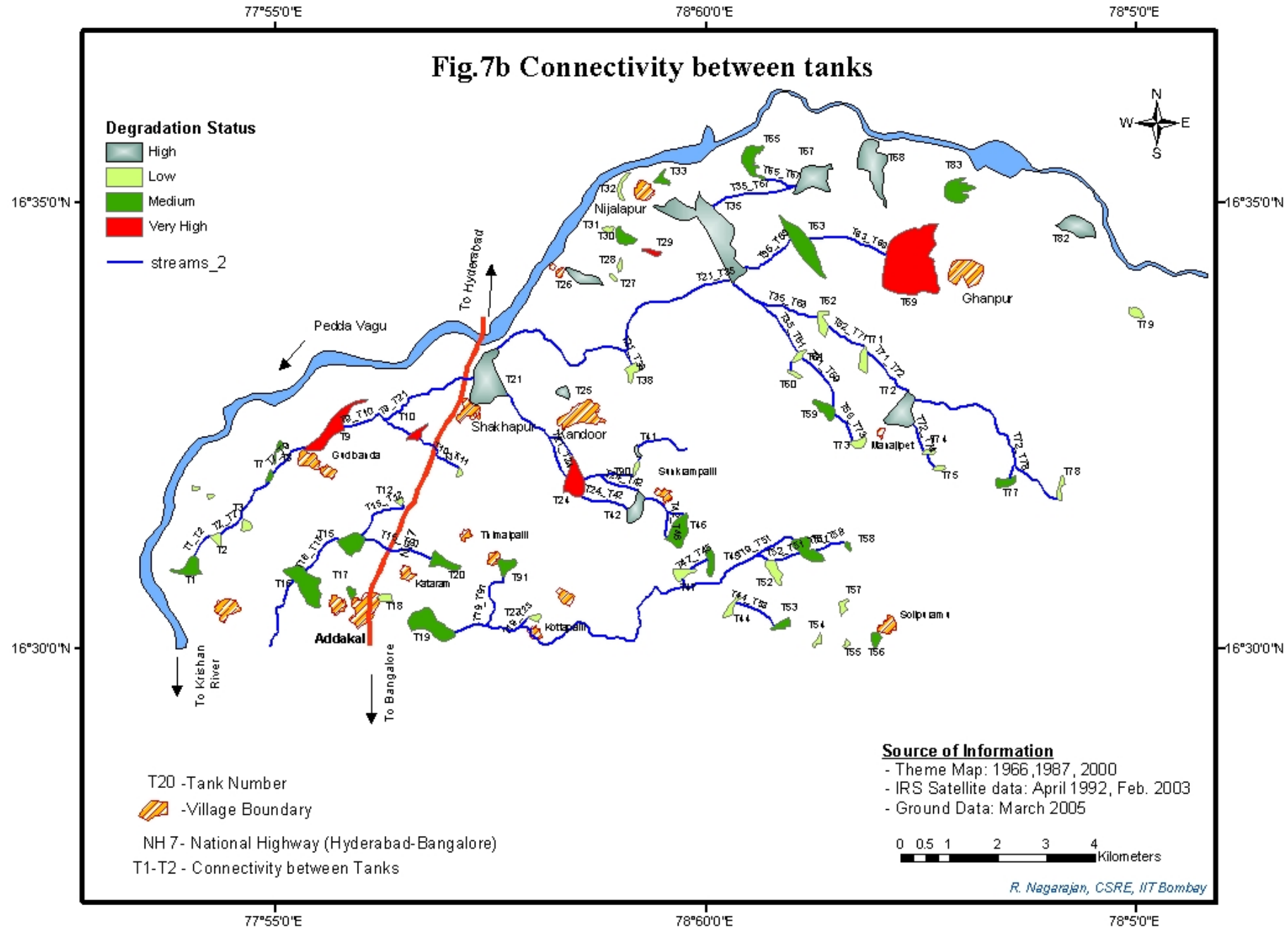
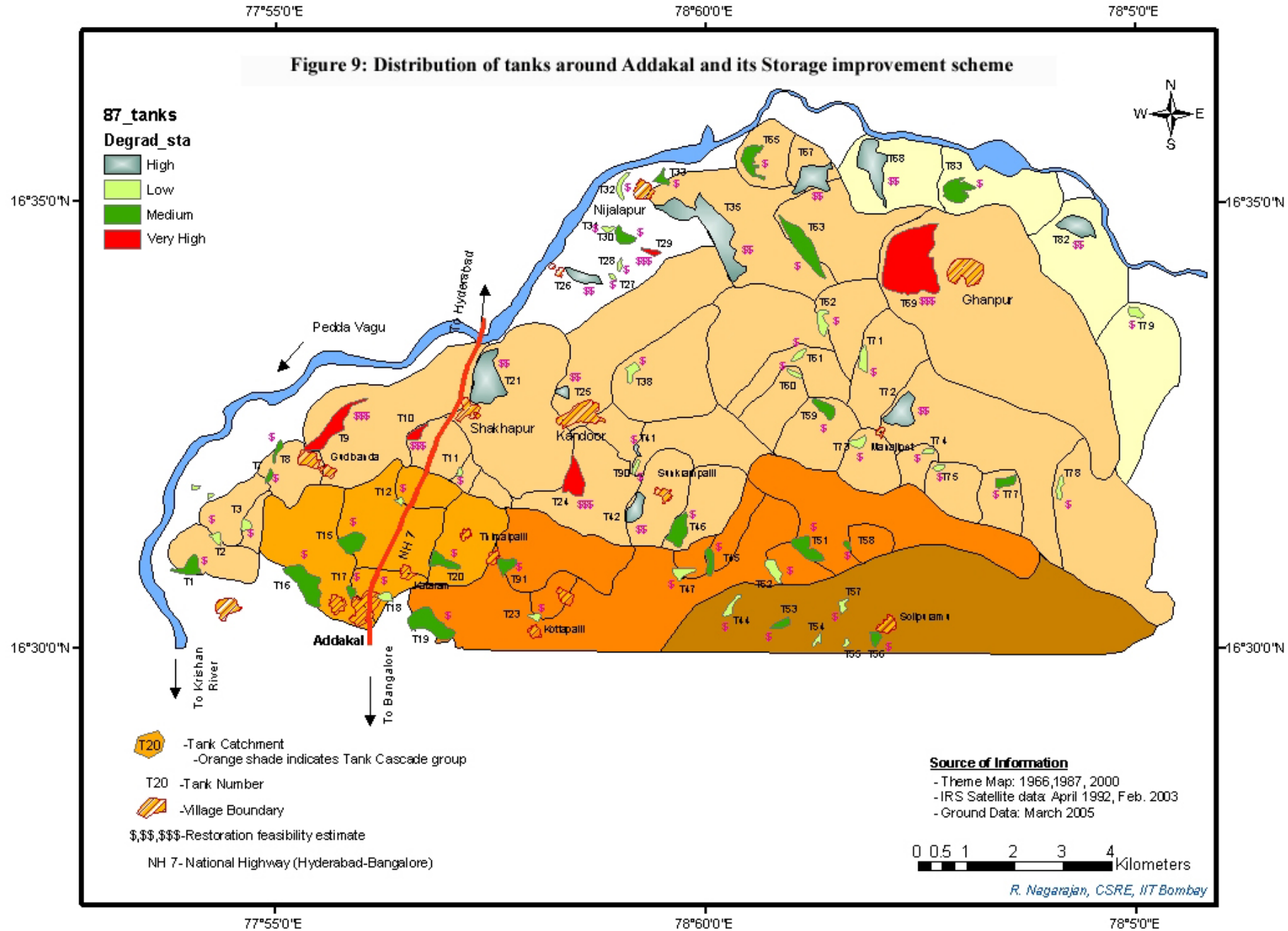


Fig 7. Drainage network and lake cascade watershed

Tanks and their Connectivity



Distribution of tanks and their degradation status



Thank You