



## केंद्रीय भूमि जल बोर्ड

जल संसाधन, नदी विकास और गंगा संरक्षण

विभाग, जल शक्ति मंत्रालय

भारत सरकार

### **Central Ground Water Board**

Department of Water Resources, River  
Development and Ganga Rejuvenation,  
Ministry of Jal Shakti  
Government of India

## **AQUIFER MAPPING AND MANAGEMENT OF GROUND WATER RESOURCES**

**HARUR FIRKA, DHARMAPURI DISTRICT,  
TAMIL NADU**

दक्षिण पूर्वी तटीय क्षेत्र, चेन्नई

South Eastern Coastal Region, Chennai

REPORT ON AQUIFER DISPOSITION & MANAGEMENT PLAN  
**HARUR FIRKA,**  
 DHARMAPURI DISTRICT, TAMIL NADU STATE

**SALIENT FEATURES**

1	Name of the Firka/ Area (Sq.Km.)	:	HARUR	184.35 Sq.km
	Revenue Division		Harur	
	Location	Lat	:	
		Long	:	
2	Number of Revenue Villages	:	53	
3	District	State	:	DHARMAPURI TAMIL NADU
4	Population (2011 Census)	:	51034	
5	<b>Normal Rainfall (mm)</b>	:		<b>820.60</b>
			Monsoon	673.05
			Non-monsoon	147.55
6	<b>Agriculture (2012-13) (Ha)</b>		1. Gross Irrigated Area	5965.99
		:	2. Paddy	1268.21
			3. Sugar cane	1579.42
			4. Banana	36.42
			5. Other Crops	2884.04
			6. Groundwater	4573
			7. Surface Water	340.53
7	Existing and future water demands (ham)	:	Domestic & Industrial	
			Existing	92.44
			Future (Year 2025)	105.06
8	Water Level Behaviour (mbgl)	:	Pre-monsoon	
			Post-monsoon	

**AQUIFER DISPOSITION**

9	Number of Aqifers	:	
10	3D Aquifer disposition and basic characteristics of each Aquifer	:	Geology- Charnockite and Hornblende biotite gniess

**Aquifer I (Weathered Zone)**

Thickness varies from 8 – 23 m

Transmissivity (T): 7.82 – 87 m<sup>2</sup>/day

Specific Yield (Sy): 0.10 to 1.5%

**Aquifer II (Fractured Zone)**

Depth of fracturing varies from 23 – 27 m

Transmissivity (T): 21- 89 m<sup>2</sup>/day

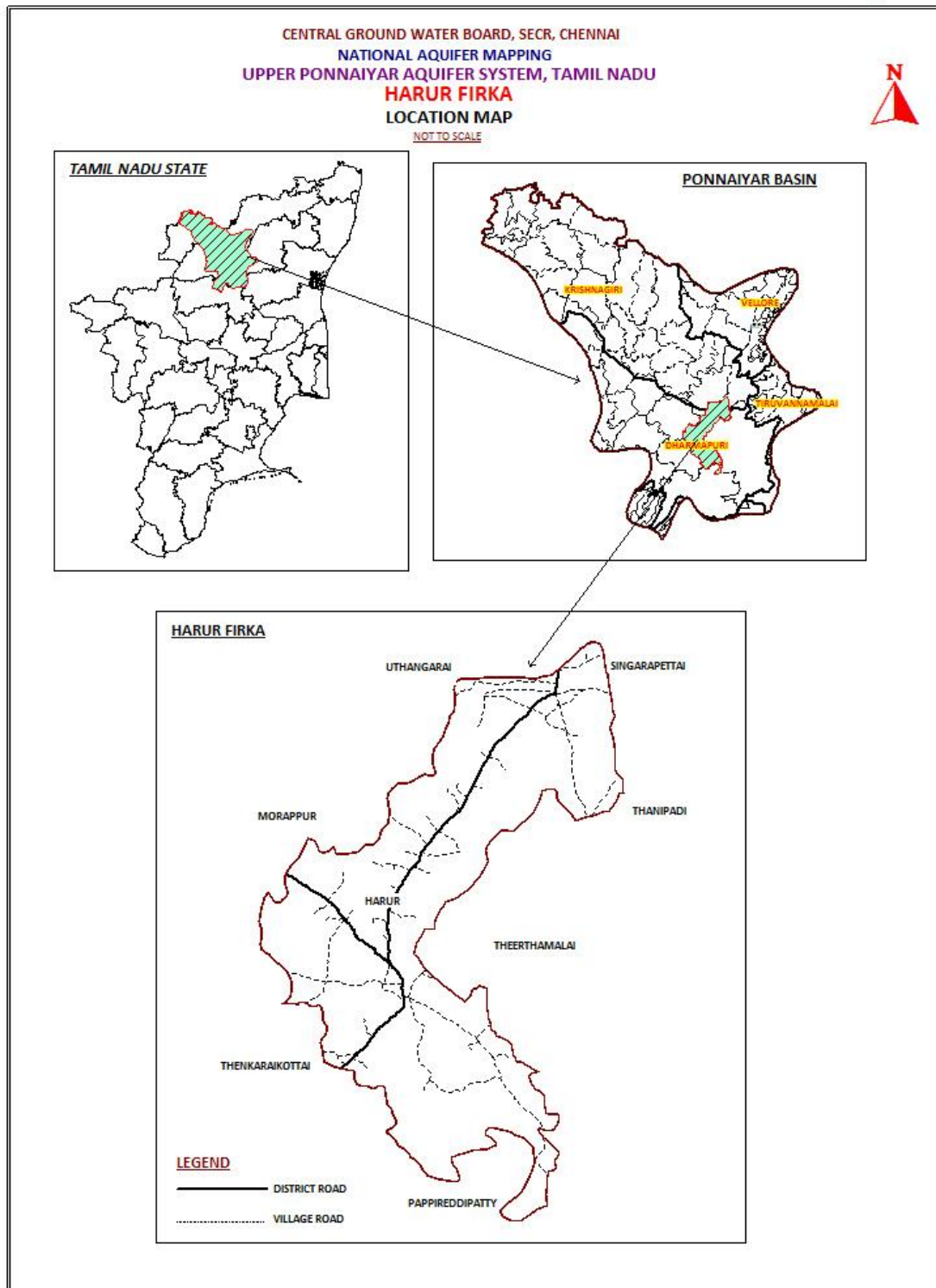
Specific Storage (S): 0.00001-0.02

Cumulative Yield (Aquifer I & II): 0.5 2 lps

- 11 Groundwater Issues : Geogenic contamination by Fluoride.  
Sustainability of wells (1-3 hrs).
- 12 Groundwater Resource Availability and Extraction (2012-13) : Net Groundwater 22.0220 MCM  
availability:  
Gross Groundwater 20.9785 MCM  
draft for irrigation:  
Gross Groundwater 0.9244 MCM  
draft for domestic &  
industrial supply:  
Gross Groundwater 21.9029 MCM  
draft:  
Stage of Groundwater 99 %  
development:  
Category: CRITICAL
- 13 Groundwater Extraction : Groundwater 4670  
extraction structures  
(Numbers)  
Bore wells: 67  
  
Dug wells: 4603
- 14 Chemical Quality of Groundwater, Contamination and its suitability : Min Max  
EC (µS/cm) 704 to 2550  
  
No3 (mg/l) 2 to 86  
  
F (mg/l) 0.91 to 3.16
- 15 Groundwater Recharge Scenario**  
Recharge from Rainfall 7.9409 MCM  
(Monsoon)  
Recharge from Other Sources 11.7009 MCM  
(Monsoon)

Recharge from Rainfall (Non- monsoon)	2.1761 MCM
Recharge from Other Sources (Non-monsoon)	2.6510 MCM
Total Annual Groundwater Recharge	24.4689 MCM
Natural Discharge	2.4469 MCM

Fig -



**Fig-2: 3 D map and 2D - Sections.**

