

US EPA ARCHIVE DOCUMENT

SOMAARTH -I

Demographic Development and Environment Surveillance Site (DDESS)

The INCLEN Trust International

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New Delhi – 110020, India***

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SOMAARTH

Village- Mitrol

PO- Aurangabad

Block- Hodal

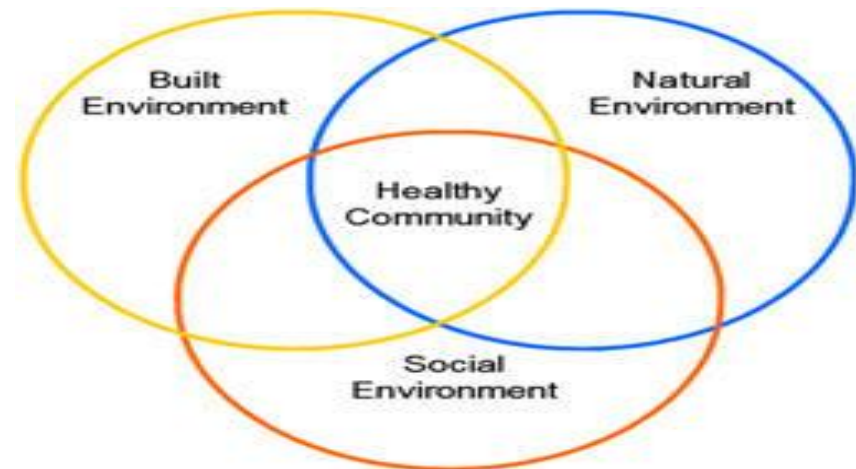
Dist- Palwal-121105, Haryana, India

T: +91-1275-202376

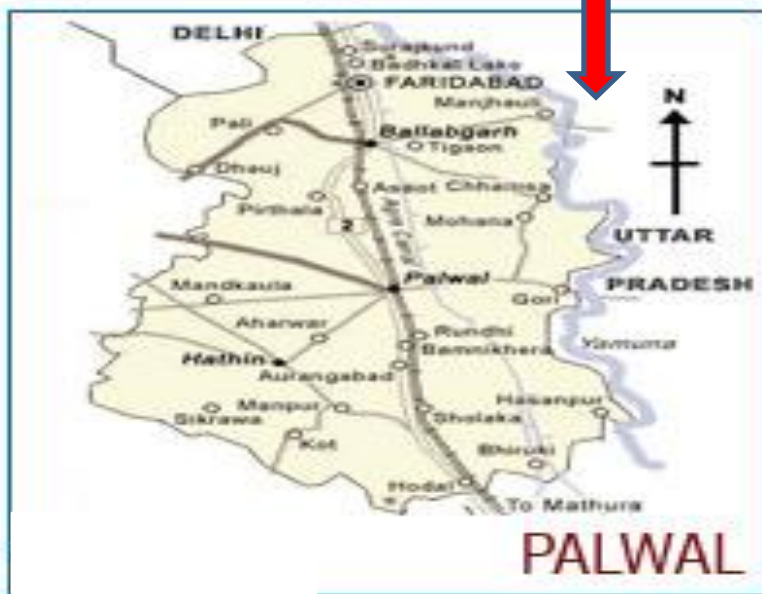
E: somaarth@inclentrust.org

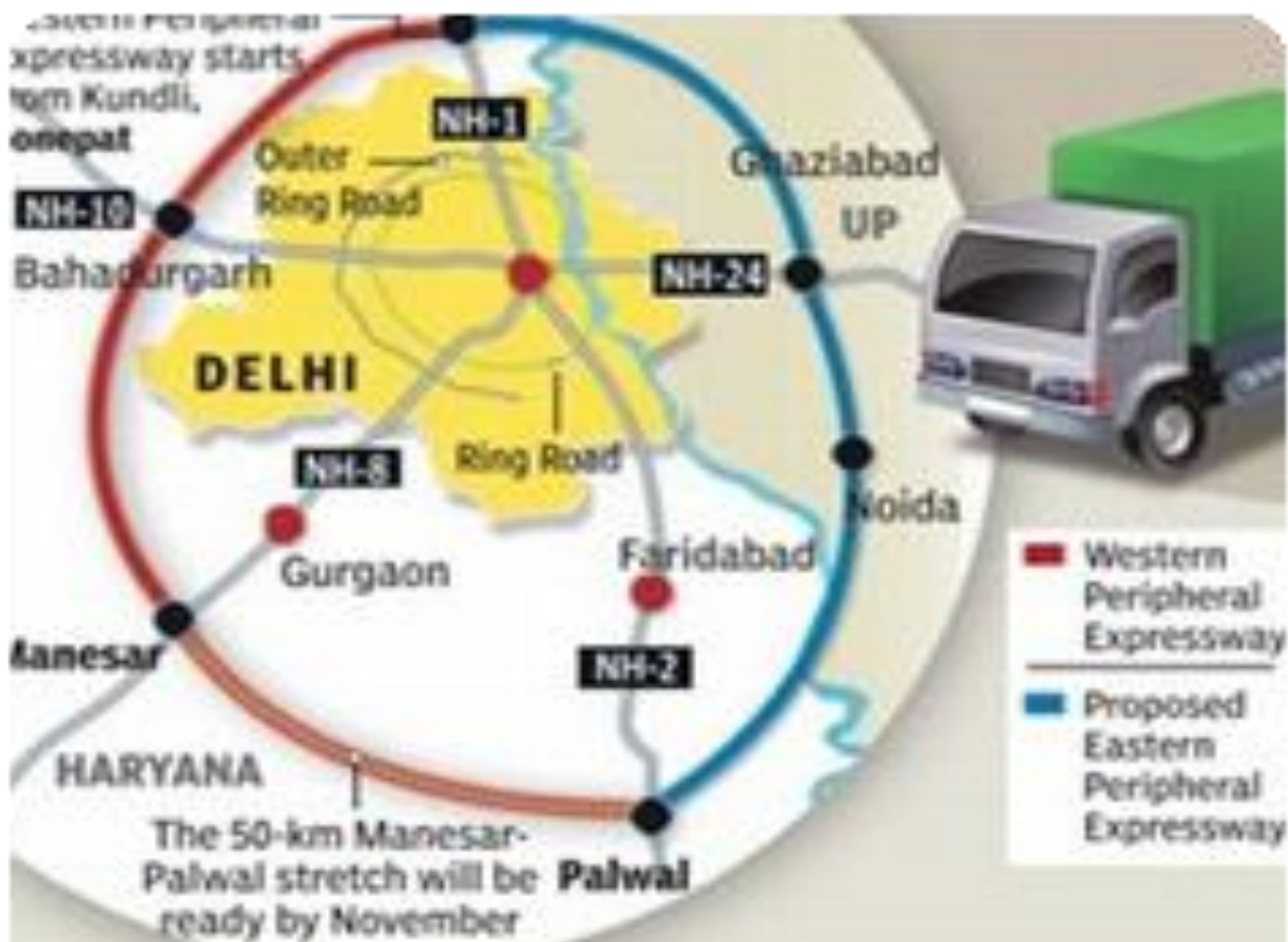
Philosophy

- To understand the impact of ***development*** and ***change in lifestyle*** on the health of communities.
- SOMAARTH ideology, envisions synergy between economic development, social changes and health of the individuals, families and communities.



SOMAARTH DDESS



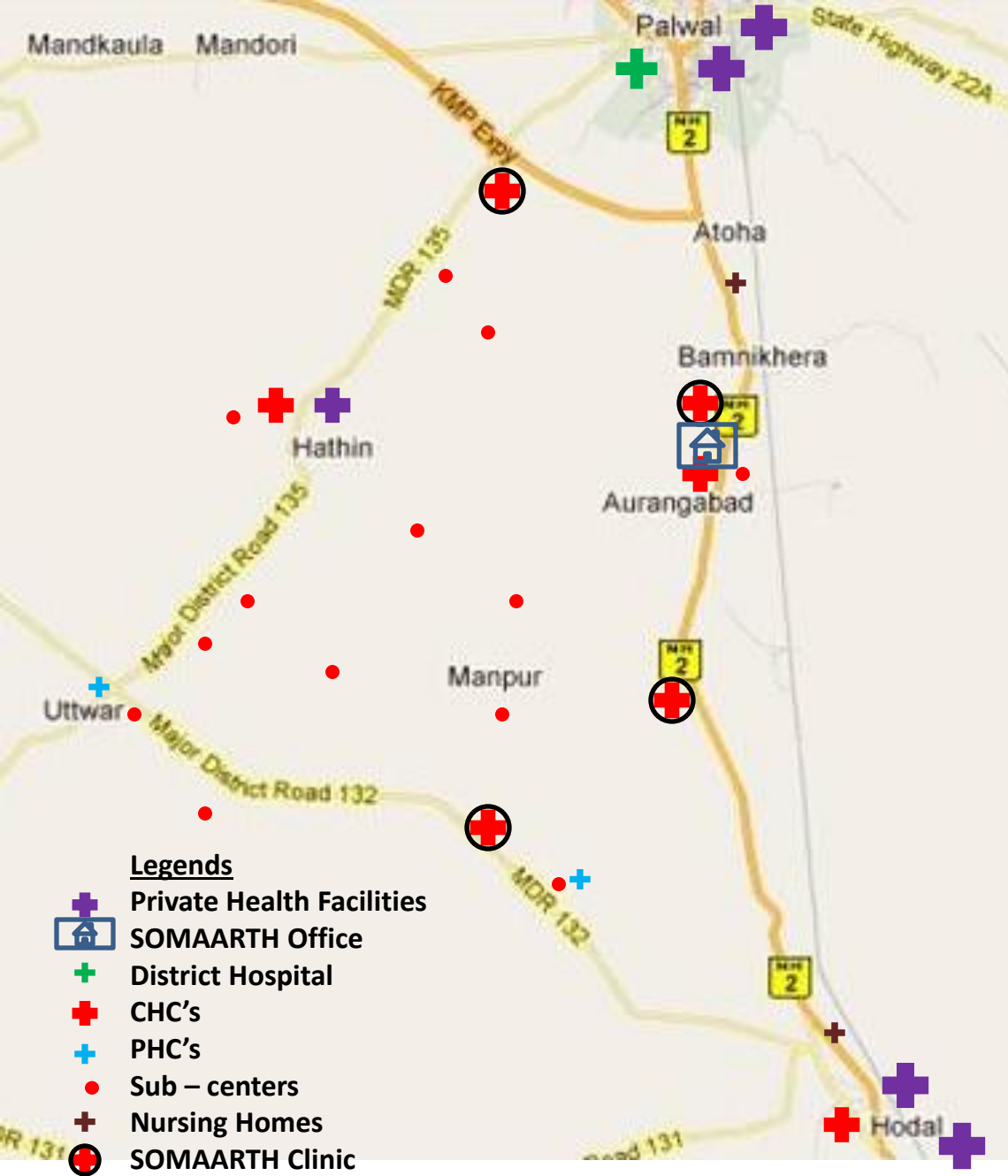


Plan for rapid infrastructure development

KMP Expressway would be approachable from five National Highways: **NH 1** near Kundli (Sonepat), **NH 10** near Bahadurgarh, **NH 8** at Manesar (Gurgaon), **NH 71B** near Tauro (Mewat) and **NH 2** near Palwal (Faridabad)

SOMAARTH DDESS

- 80 Kms from Delhi
- Site characteristics:
 - 51 Villages (~316 Sqkm)
 - 3 Blocks (Hathin, Palwal & Hodal)
 - 200000 + populations
 - No of Land Parcels: 47,125 (26417 R+18173 NR+2535 Mixed)
 - No of Households: 32, 750
 - No of Non Residential units: 19, 373
 - Dominant communities : Jats, Muslims ,Gujjars and Brahmins
 - Variation in water quality, agriculture pattern



SOMAARTH Health Infrastructure

Public health system

- District Hospital- 1
- CHCs - 3
- PHCs – 2
- Sub-centers- 12

Private health system

- Referral care facility- Palwal
- Smaller facilities - Hodal & Hathin
- Qualified practitioners - 2
- Informal practitioners – 284

- SOMAARTH Clinics – 4

Activities at SOMAARTH

- **Community linkage**
 - Community partnership model
- **Linkage with the Government and Departments**
 - Catalyze program service uptake
- **Specific SOMAARTH activities**
 - Listing and census of households
 - GIS map preparation
 - Specific projects in operation
- **Social mobilization to improve health outcomes**
 - Public Health Awareness Lectures
(SOMAARTH Jan Swasthya Sambad)

Current Status

- Listing of Land Parcels, households, and population – **completed**
- Mapping of the villages – **completed**
- Census of households – **completed**
- Geospatial Mapping
 - Map with geo-referencing of structures – **completed**
- Data Entry – **completed**
- Data Analysis – **in progress**

A			
Â Age	Male	Female	Â Total
< 5	9766	9050	Â 18816
5<= 18	37584	32484	Â 70068
18<= 45	39861	35517	Â 75378
45 <= 60	9918	9034	18952Â
60 +	7660	7834	15494Â
Â	104789	93919	198708

Collaboration with Government of Haryana

- MOU signed with Govt. of Haryana – 2012
- Coordination mechanism at District and State level
- SOMAARTH Team is part of District Development Review Board
- Active coordination with Departments
 - ❑ District Health Services
 - ❑ District Health and Family Welfare Society
 - ❑ District Education Office
 - ❑ District Information and Public Relations Office
 - ❑ District Agriculture Office

Currently ongoing projects

- Brain-to-Society diagnostic for childhood nutrition changes:
Environment-life style-gene interaction
- Social capital, networks and correlation with body fatness:
Influence on body composition and eating behavior
- Childhood pneumonia detection using mobile based technology
- Impacts of household sources on outdoor pollution at village and regional scales in India

Completed projects

- Childhood diarrhoea due to Rotavirus in infants.
- Neuro-developmental disorders among Children
- Influence of indoor air pollution on pregnancy outcome and newborn
- User- friendly Amoxicillin DT packaging for treating childhood pneumonia

Key Features of SOMAARTH



- **Enumeration of physical environment**
 - Not limited to only household survey
 - Includes non-residential structures
- **Digitized Mapping of physical environment**
 - Agricultural/non-agricultural land
 - Water bodies
 - Built environment
- **Linking physical environment with health and socio-economic parameters**
- **Use of novel data capturing and management process**
- **100 % paperless system (from 2015)**
 - Data collection on android tablets

SOMAARTH



Activities at SOMAARTH



Data Collection in Field



Clinical and Laboratory Services



Community Engagement and Meeting



Visitors at SOMAARTH



The SOMAARTH Team





Thank You