

A GOVERNMENT INITIATIVE FOR SLUM REHABILITATION

at INDIRA NAGAR COLONY, KHAIRTABAD, HYDERABAD

(under Swachhata HI Seva - 2024)

Introduction

Hyderabad is one of the fastest growing cities in India. One of the problems this city faces is associated with rapid urban development, which constitutes the slums.

Slum refers to areas with unregulated housing, poor and dense living conditions. These areas are generally highly populated and offer minimal space for residents. Hence, to know about the challenges associated with slum development in Hyderabad, the government has initiated the redevelopment of one of the slum areas, **Indira Nagar colony, Khairtabad, Hyderabad**, under **Swachhat HI Seva-2024**.



Figure 1: Indira Nagar colony, Hyderabad (Google Earth Map)

The Indira Nagar colony, Khairtabad has been existing for more than 50 years. The Indira Nagar Colony comprises of 210 dwelling units spread over Four Blocks which has been built by Greater Hyderabad Municipal Corporation (GHMC). It also constitutes 324 houses in 18 Blocks of which are declared slums. The slum area is approximately about 12000 sq.m.

The condition of this area is poor and majority of the people live in kutcha and semi-pukka houses. The situation in terms of socio-economic condition and physical infrastructure namely water supply and sanitation were found to be vulnerable due to narrow roads, improper sewage systems and drastic increase in population. People have also constructed their houses and

encroached roads according to their needs. There are also frequent power cuts in this area. The electric poles were rusted and electrical cables were observed to be clumsy.



Figure 2: Narrow road of Indira Nagar Colony.



Figure 3: Clumsy electrical cables at Indira Nagar Colony.

The **Swachhata HI Seva – 2024**, is an initiative by the Govt. of India and was held between 17th Sept to 2nd Oct 2024 to ensure the sanitation facility in poor urban areas. As part of this programme, an impact assessment was carried-out by the students of **ACE Engineering College** during this period.

The physical, socio - economic and environmental impact assessments were carried-out using a structured questionnaire (as provided by the Govt.), visual analysis and land surveying at Indira Nagar Colony.

Indira Nagar Colony Survey

The aim of this survey is to understand the needs of the residents and their infrastructural issues which can be solved by the Raj Bhavan and G-HMC. All issues must be infrastructure, community or public works related and must not pertain to dissatisfaction or complaints regarding government schemes and benefits. Your work will help shape the future of Indira Nagar Colony, so fill these forms diligently and honestly. All the best!

khadeer0103@gmail.com [Switch account](#)

* Indicates required question

Email *

☐ Record khadeer0103@gmail.com as the email to be included with my response

Name of surveyor *

Your answer

House Number *

Your answer

Number of residents

Your answer

Name of interviewed resident

Your answer

What are the issues with roads? For example, waterlogging or inaccessibility during emergencies, anecdotes of specific issues are helpful. *

Your answer

How is the sewage system? What are the specific issues such as foul smells or overflow? Are the residents able to use their private sanitation facilities? *

Your answer

How is the electricity connection? How often do power cuts occur? Is it seasonal? *

Your answer

Which of the following domains meet the community's expectations? *

- ☐ Education
- ☐ Healthcare
- ☐ Access to shops and services
- ☐ Living space
- ☐ Community Activities
- ☐ Safety of residents
- ☐ Communal Harmony
- ☐ Electricity

Are there any issues with animal infestation such as stray dogs, birds etc? *

Figure 4: Questionnaire form provided by the Government



Figure 5: Interaction with a resident of Indira Nagar Colony

After conducting a thorough survey by the student volunteers of ACE Engineering College, the responses from residents of Indira Nagar Colony are summarized as follows.

1. Issues with roads

- Roads are narrow and uneven.
- Unwanted scrap is littered on the roads.
- Illegal encroachments by ground-floor residents.
- Water-logging during heavy rains.
- Accessibility issues during emergencies due to road encroachments and low-hanging electrical wires.

2. Sewage system

- The sewage system is outdated, installed over 50 years ago.
- Residents report foul smells and overflow, especially during the rainy season.
- The drainage pipes are undersized, leading to frequent blockages.

- There is a combined drainage line for both sewage and storm water.

3. Electricity connection

- Frequent power cuts are reported by the residents.
- Electric wires are chaotic and entangled.

Field Survey conducted by the students of ACE Engineering College

The students of **ACE Engineering College** has conducted a field survey to find the average levels of Indira Nagar Colony with reference to the surrounding area.





Figure 6: Field Survey by students of ACE Engineering College

Observations of Field Survey conducted:

1. Based on the levels taken, with reference to the Main Road (I Max road), the entire area of Indira Nagar Colony was found to be in a low-lying area.
2. Drainage congestion problem was found due to improper sewerage System.
3. As per the field observation, the drinking water supply is under low pressure. There is no possibility of gravity flow due to improper alignment of water pipelines. Hence, residents are found to use pumps for water storage.
4. It was observed that the road levels and house levels were almost at the same level due to which there is a possibility of rain water entering into the houses.
5. It was found that in addition to sewerage manholes, other manholes were constructed for rain water flow, due to which there is a very bad odour in the entire area.
6. As per the field observation, the flow of rain water manholes have been diverted into the sewerage manholes.
7. The majority of the houses in the colony are found to have chipped walls, crooked shutters and cracked floors.

8. It is observed that there is no proper Cleanness in the area, and a lot of drainage overflows are found.



Figure 7: Additional Manholes



Figure 8: Cracked floors and chipped walls

Suggestions for improving the Indira Nagar Colony

- 1) Installation of new sewage lines or remoulding the existing sewage lines can be adopted to avoid stagnation of water and congestion problems.
- 2) The water supply pipeline should be monitored by increasing the water pressure flow for adequate supply to avoid usages of pumps.
- 3) The water supply pipeline alignment should be checked to avoid groundwater seepage and mixing of rainwater/ sewage water in drinking water.
- 4) Permeable concrete roads can be provided for the internal roads with proper rainwater harvesting pits.
- 5) To maintain the proper width of the roads, encroachments can be minimized or modified.
- 6) Power connections and cables are to be aligned in a strategic manner to avoid clumsiness.

- 7) Existing rusted electric poles can be replaced with new concrete poles and erecting proper earthing with guard wires.
- 8) Overhead power transmission lines are to be insulated with PVC casing pipes for safety of residents.
- 9) To provide accessibility to the residents, solar street lighting and CCTV cameras can be implemented to prevent accidents / thefts / safety during night times.
- 10) To reduce the consumption of electricity bill by the residents, it is proposed to install solar panels at dead spots.

The outcomes of the **Swachhata HI Seva – 2024** programme will yield good result in benefitting the urban poor to improve their quality of life.