



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**



# Housing Standards

By,  
**Dr Asha karki** Asst Prof

Dept of Swastha Vritta  
RKM AMC PGRC VIJAYAPURA.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## Definition :

Housing is defined as “ all places in which a group of people reside and pursue their life goals; the size of the settlement may vary from a single family to million of people”.

## Housing includes both;

1. Physical structure - providing shelter and
2. Surrounding community services and facilities.



## Definition of “ residential environment” according to WHO:

- Residential environment is defined as physical structure that man uses and environments of the structure including all necessary services, facilities, equipments and devices needed for physical, mental health and social well being of family and individual.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## Purpose of Housing:

1. It gives sanitary shelter and protection.
2. It gives space for family life activities.
3. There should be easy access to community facility.
4. Form of investments which shows economic stability.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## WHO – Housing Standards in India: 1947 by EHC – Environmental Health Criteria

1. site selection
2. Set back
3. Flooring
4. Thickness of walls
5. Height of roof
6. Number of rooms
7. Floor area
8. Cubic space





Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

9. Window area
10. Lighting standards
11. Kitchen
12. Latrines
13. Disposal of garbage and refuse
14. Facility for bathing and washing
15. Sanitary water supply



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

## 1. Selection of site

- ▶ Should be at higher level than its surroundings – to avoid flooding during rains.
- ▶ Independent access to street and of adequate width should be present.
- ▶ Away from breeding places of mosquitoes and flies.
- ▶ Far away from dust, smoke, excess of noise and traffic.
- ▶ The place should be dry and free from night soil.
- ▶ Should have pleasant surroundings.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## 2. Set back:

- Open space around the house is called as set back.
- Rural area : built up area  $1/3^{\text{rd}}$  the total area.
- Urban area : built up area up to  $2/3^{\text{rd}}$  of total area.
- There should not be any obstruction for lighting and ventilation.





Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

### 3. Flooring : Pucca floor

- Should be impermiabile, clean and dry – for easy washing purpose.
- Plinth should be 2 – 3 feet.
- Should be smooth, without cracks to prevent breeding of insects and dust.
- Should be damp proof.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

#### 4. Thickness of walls:

- Walls should be strong and should not absorb or conduct heat.
- Should be weather resistant and smooth.
- Unsuitable for rats and rodents.
- Walls should be at least 9 inch thick and cream or white color.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

## 5. Height of roof:

- ▶ Not less than 10 feet. So that heat transmission is low.

## 6. Rooms:

- ▶ Minimum two living rooms.
- ▶ Number and area should be increased according to family size.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## 7. Floor area:

- At least 120 square feet area is required for more than one person.
- 100 square feet area is needed for one person.
- In living room, the space should not be less than 50 square feet/person. And optimum is 100sq.ft area.



Shri Mallikarjun Vidyavardhak Sangh's

# Smt. Rajeshwari Karpurmath Memorial (RKM) Ayurveda Medical College, Hospital & P.G. Research Centre, Vijayapur.

## 8. Cubic space:

- Unless mechanical ventilation, the air space of about 500 cubic feet/person, preferably 1000 cubic feet/person is necessary.





Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## 9. Window area:

*In absence of mechanical ventilation and artificial lighting*

- 2 windows should be present one opens directly outside space.
- Windows should not be more than 3 feet above ground level and window area should be  $1/5^{\text{th}}$  the floor area.
- Windows and doors for  $2/5^{\text{th}}$  the floor area.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

## 10. Standards of Lighting:

- The day light factor must be more than 1% over half the floor area

## 11. Kitchen:

- ▶ House should be provided with separate kitchen devoid of dust and smoke.
- ▶ Presence of adequate light and ventilation with arrangement for storing food, fuel, provision & water supply is required.
- ▶ Site for cleaning vessels and proper drainage of water supply is necessary.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

## 12. Latrine:

- Latrine is a must with water carriage system

## 13. Disposal of garbage and refuse:

- Removed from dwelling everyday and disposed in sanitary manner.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## 14. Facility of bathing & washing:

- Bathrooms with drainage facility is necessary

## 15. Sanitary water supply:

- Safe and adequate water supply should be present always.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

# Standards of Rural Housing





Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

- At least 2 living rooms, ample of veranda are essential.
- Built up area should not be more than 1/3<sup>rd</sup> of total area.
- Separate kitchen provided with sink and platform should be present .
- House should have sanitary latrine.
- Windows comprise of at least 10% of the floor area.
- Sanitary or tube well should be present within quarter mile from the house.
- Cattle sheds should be at least 25 feet away from the houses. Shed should be open at all sides with area 8 X 4 feet per cattle
- Good arrangement for disposal of garbage and waste should be made.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## Effects of housing on health (If not built in manner)

- Respiratory infections, skin and rat infections, arthropods, accidents lead to morbidity and mortality in sub standard houses.
- It also has psychological effects.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

## Disadvantages of Over crowding

- It interferes with movements, privacy, hygiene, proper rest and sleep of the residence.
- Infectious diseases spread rapidly.
- Irritability, anxiety, violence and mental disorders aggravate.



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

## Accepted Standards

- 1 room → 2 persons
- 2 room → 3 persons
- 3 rooms → 5 persons
- 4 rooms → 7 persons
- 5 rooms → 10 persons, additional 2 for each room
- Baby under 12 months not counted.
- 1year child counted as 1/2 unit.



## Various Indicators of Housing

1. Physical Indicators – Floor space, cubic space, room height, persons per room, rooms, per dwelling, light, water, ventilator etc.
2. Economic Indicators – Cost of building, rental levels, taxes, expenditure on house.
3. Social Indicators – Indicators of prevention of illness





Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)  
Ayurveda Medical College, Hospital &  
P.G. Research Centre, Vijayapur.**

## Govt. Policy

- A separate ministry of works & housing was created at the center in 1952.
- Housing programmes
  - Public sector housing → for Govt servants
  - Social housing schemes low & middle income groups
- For the proper functioning - Statutory Housing Boards at state level, National Building Organization (NBO), National Building Constructor Corporation (NBCC), Housing & Urban Development Corporation (HUDCO) & Hindustan Housing Factory are helping



Shri Mallikarjun Vidyavardhak Sangh's  
**Smt. Rajeshwari Karpurmath Memorial (RKM)**  
**Ayurveda Medical College, Hospital &**  
**P.G. Research Centre, Vijayapur.**

- 8<sup>th</sup> five year plan adopted National housing policy. Minimum needs program under the state concentrate on rural house program in 7<sup>th</sup> plan. Provision of free sites, assistance in building houses depending on category, subsidy & loan are provided under MNP.
- Indira Awas Yojana was started in 1985-86