

ISSN 0973-3914



# **RESEARCH** *Journal Of* **SOCIAL AND LIFE SCIENCES**

PEER-REVIEWED RESEARCH JOURNAL

UGC JOURNAL NO. (OLD) 40942

IMPACT FACTOR- 5.125 (IIFS)

Indexed & Listed at: Ulrich's International Periodicals Directory

ProQuest, U.S.A. Title Id: 715205

**VOL- XXXVII**

**ENGLISH EDITION**

**YEAR-19**

**July- Dec. 2022**

# **2022**

[www.researchjournal.in](http://www.researchjournal.in)

## ***Research Journal of Social and Life Sciences***

**Peer-Reviewed Research Journal**

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U.S.A. Title Id: 715205

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<b>Volume- 37</b>	<b>English Edition</b>	<b>Year- 19</b>	<b>July- Dec. 2022</b>
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One year	Rs. 2000	Rs. 2500
Two years	Rs. 2500	Rs. 4000

**Mode of payment-**

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**Publisher**  
**Gayatri Publications**  
Rewa (M.P.)

**Printer**  
**Glory Offset**  
Nagpur

**Editorial Office**  
**186/1 Vindhya Vihar Colony**  
**Little Bambino's School Campus**  
**Rewa- 486001 (M.P.)**  
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## *Editorial*

The basic and most important unit of the society has been the family from the beginning. For the empowerment and development of the country, first of all it is necessary to pay attention to the moral, social, economic and cultural dimensions of basic institutions like family. Balanced development of the family is very important for the development of the society. Therefore, if we want to have a complete and balanced development of the country, then we need to lay maximum emphasis on the basic institution called family. It is necessary that we should not make any discrimination between son and daughter in the family and we must explain this to our sons and get them involved in their activities. Even today, those who belong to the old belief believe that a woman cannot get any freedom, she cannot go anywhere alone, she cannot roam anywhere alone, but today's youth refuse to accept these values.

Some people also say that the importance of the walls in the house, the same importance is given to the education of the boys in the society. But how is a house made? Who are in the base of the house? The base of the house is our daughters, our girls, that means they are related to the roots. If our root becomes weak in the society, then our house or house cannot be strong at all. There is a need to understand this social context in reality.

The extent of favoritism is reached when we see discrimination in small tasks. Some people think that a girl is someone else's wealth, what job she should do. That's why some parents discriminate between boys and girls and this discrimination is visible somewhere in our behavior, in feeding and dressing. This is sheer injustice. God has given the same brain to boys and girls and today girls are proving it by bringing better results.

Girls stay at their parents' house for only a few days, so it is our duty to pay deep attention to their education, upbringing, only then we can fulfill the concept of a strong society. God has made us the trustee of our children so it is our duty to treat all members equally with full justice because both boys and girls have same power, same soul. So we should give them equal opportunities for development.

The basic objective of women empowerment is the development of women and communication of self-confidence in them. Women empowerment is important for the overall development of the society. Empowerment of women is the most important social phenomenon because they are the creators. If you empower them, make them strong, encourage them, it is better for the society. Women and men are the basis of creation and human society. Both complement each other. These are the wheels of the chariot of life by which the journey of life runs

smoothly. The role of both has been equally important for stability in family and society. The basis of change and development in a society depends on the mutual interaction of men and women, walking step by step and equal mobility of both. A chaotic situation is created in social life when any one side lags behind. The history of mankind is witness to this that where women have been neglected, the development of the society has been stunted. The role of women in creation of creation, education of children, upbringing of family is much more important than that of men, thus her position becomes central in the society. Therefore, without the progress of women, there can be no upliftment of mankind and society. As far as India is concerned "Yatra Naryastu Pujayante Ramante Tatra Devta" means where women are worshipped. The deities reside there. With this ideal any Indian woman can feel pride in comparison to the western woman. The ideal of learning in Saraswati, the ideal of wealth in Lakshmi, the ideal of valor in Durga, the ideal of purity in Ganga, even the ideal of creation in the form of Jagad Janani we find only in India.



**Professor Akhilesh Shukla**  
Chief Editor

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## ***Significance of projection***

• **Mohammed Imran Khan**

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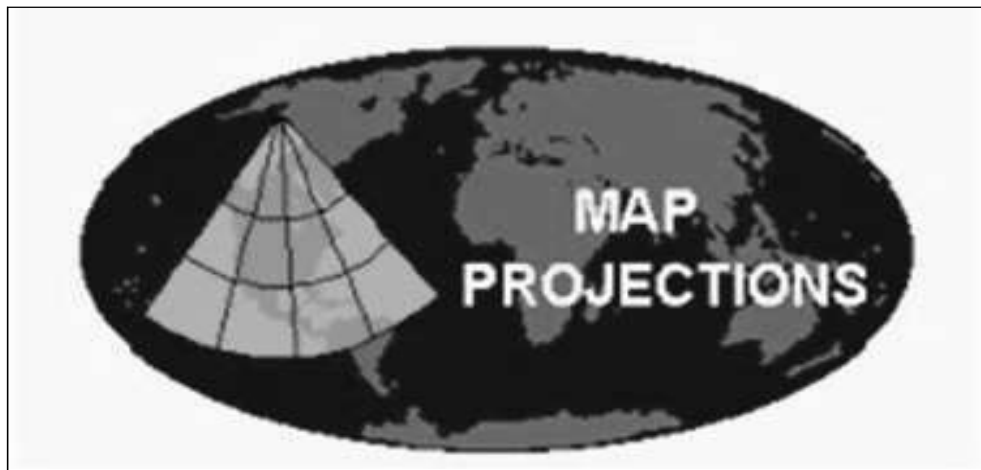
**Abstract-** *As we live on the Planet earth It was very important for us to find the area of that Planet. Scholars knit a network of lines on earth to assess the area. Which we call the earth grid, we also call it Projection, Meaning is earth grid & projection complements each other. The method of transferring latitude, longitude lines to a flat surface (paper) Is called projection study or research on earth is an important depiction of a territory of the earth. So project military science, DRDO, Geography, Geology is the most significant for NITI Aayog. Which I have launched in my research paper, I can give information to the common man By telling more useful and at the same time it is my effort to create new projection too.*

---

**Keywords-** *Map, Earth, Latitude, and Significance*

### **Aim**

- How can the entire world map be prepared by projection?
- Why is the study of the oblique necessary and how its use and importance can be explained?
- Projection is absolutely necessary to determine the time and situation of a country.
- How the significance of projection can be explained to the common man.



### ***Erwin Raisz***

A Projection can be defined as only orderly system of Parallel's and meridians

On which a map can be drawn.

- Assistant Professor Geography, Department of Geography, SBS Government P.G. College Pipariya, M.P., District Narmadapuram

The projection literally mean's showing the shape made on a transparent film

Or paper on the wall on cloth Screen with the help of Light. But the figure made from the Grid Create by Geometry & Graphical Method is called map projection.

**F. J. Monkhouse**

A map projection is the representation of the earth parallels and meridian as a net or graticule on a Planet surface. Therefore the word's Projection and map projection have two sides of a coin.

A map or projection is some method of representing on a sheet of paper the lines of latitude and longitude of the Globe.

**(John Bygott)**

**Previous –Work**

In the Second Century after B.C. *marinus* first displayed places according to their latitude and longitude in one projection.

**Edrisi** -Created a rectangular projection in 1154 on the basis of which they made a map of world.

**Martin wald esemuller**-composed the earth similar to Bone projection in 1507.

**Iretasthanease** -measured the circumference of the earth including (7) Latitude & (7) Longitude line. Change and amend these latitude and longitude, on the basis of which he made a rectangular map.

Gnomonic Projection Produced by **Thales** was used for astronomer maps.

**Methodology**

**Construction of map projection**

Two methods are used for the Creation of the Projection, which are as follows. “

Mathematical method (trigonometry)

Graphical Method

Mathematical method is used by trigonometry Formulas.

It is very important for the trigonometry to be known to the trigonometry ratio. Trigonometry literally means triangle measurement.

**Trigonometry Ratio**

The sides of the right angle are a ratio in the sides this ratio is called triangular ratio. Formulas are used to find the length of the latitude circle in the mathematical methods

(A)  $2\pi r \cos$  –

(B)  $2\pi r \sin$  - co latitude angle

The three formulas are used in both

Graphical and mathematical methods

Which are as follows?

Radius of the earth

$R = \text{-----}$

Denominator of RF

Length of equator =  $2\pi r$

Distances between two attach longitude line =

$$\frac{2\pi r \times \text{distance}}{360^\circ} = \frac{2\pi r \cos \phi \times \text{distance}}{360^\circ}$$

$$\frac{2\pi r \times \text{distance}}{360^\circ}$$

Here means

R = radius of the earth

RF = representation fraction

$$\pi = 22/7$$

Distance means – interval given a question

Graphical method

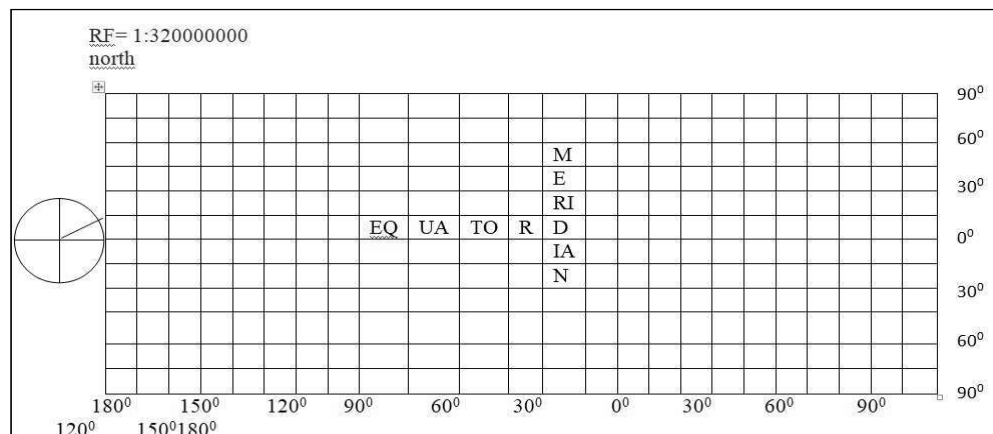
Graphical method is easier than mathematical method the above three formulas are also used in this method.

Draw a simple cylindrical projection with following statement

RF = 1:320000000 projection distance  $15^\circ$

### *Simple cylindrical projection*

RF = 1:320000000



north

$$120^\circ \quad 150^\circ \quad 180^\circ$$

south

Diagram 1.1

Solution by graphical method (diagram 1.1)

Step first

Calculate radius

$$R = 635000000 / 320000000$$

$$R = 1.98 \text{ cm}$$

Step second

$$\text{Length of equator} = 2\pi r$$

$$2 \times 22/7 \times 1.98 = 12.43 \text{ cm}$$

Step third

Distances between two attach longitude line =

$$\frac{2\pi r \times \text{distance}}{360^\circ}$$

$$360^\circ$$

$$2 * 22/7 / 1.98 * 15/360^0$$

$$12.43 * 15/360^0 = 0.51 \text{ cm}$$

Firstly, draw a circle 1.98 cm

Secondly circle divided  $15^0$

Thirdly draw a graticule

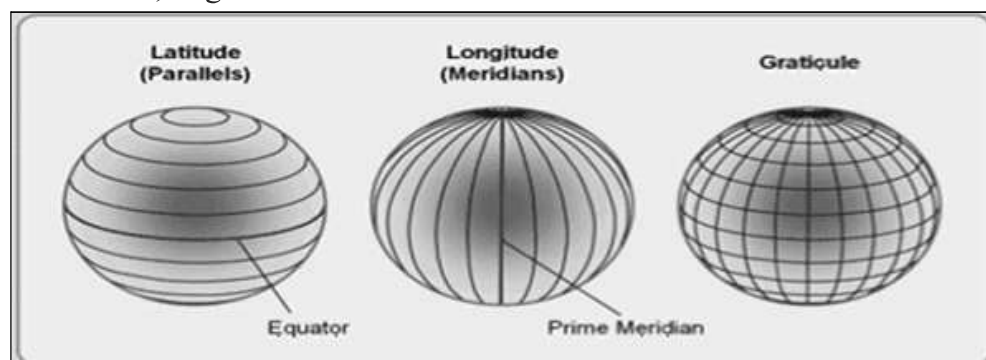
Thus, this projection is composed

**Observation-** The planet we live. in the shape of that planet is three dimensional this shape we call geoid but Map interpolation is required to display the circular earth on flat paper. Only by projection we can latitude longitude line can lunch on the flat paper and surface. Therefore demarcation of the map is not possible without projection construction. Before the creation of the projection we also need to understand the meaning of the following words.

Which are as followers?

**Latitude** – latitudes are horizontal lines that measure distance north or south of the equator.

**Longitudes-** longitudes are vertical lines that measure east and west of the in Greenwich, England.

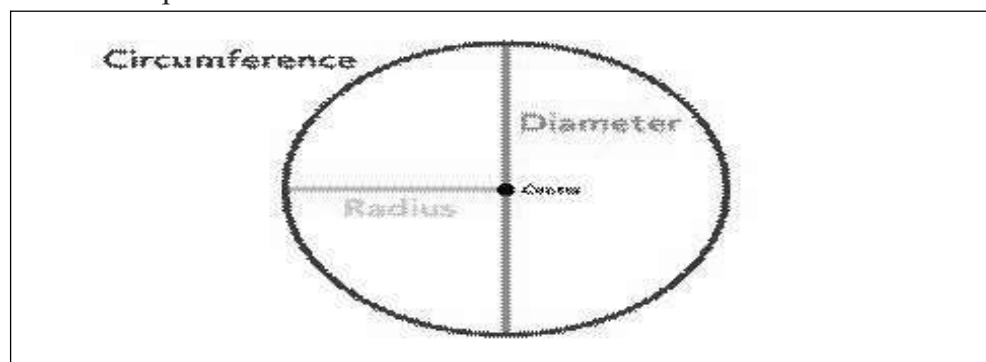


Together- latitude and longitude enable cartographers, and other to locate points our places on the globe.

**Diameter-** A diameter of a circle is any straight line segment that passes through the center of the circle and

Whose end points lie on the circle?

**Radius** – A radius of a circle or sphere is only of the line segment from its center to its perimeter.



**Circumference** – the circumference is the perimeter of a circle or ellipse.

**Zone** – the area between two successive parallels of latitudes.

**Core** – the area between two successive meridians of longitude

**Equator** - Is the imaginary line around the middle of the earth

**Meridian** – the prime meridian is the imaginary line drawn north to south at (Zero)  $0^{\circ}$  longitudes

After understanding the meaning of these words, we can easily build map projection.

The creation of a projection is also fixed based on latitudinal segments.

$0^{\circ}$ - $23.5^{\circ}$  cylindrical projection is useful for the study of  $0^{\circ}$  to  $23.5^{\circ}$  north and south latitude area.

$23.5^{\circ}$  -  $66.5^{\circ}$  conical projection is useful for the study of  $23.5^{\circ}$  to  $66.5^{\circ}$  north and south latitude area.

$66.5^{\circ}$  -  $90^{\circ}$  gnomonic or zenithal projections are useful for the study of  $66.5^{\circ}$  to  $90^{\circ}$

north and south latitude area.

Here one more thing is necessary to understand that the shape of the projection is distorted when The distance from the equator increases.

Most of the projections made for fulfilling purpose are conical.

In the competition exam of upsc, psc, defense services, many question related to the projection are asked Projection is intensively studied by the scientist in search of new areas.

Weather map, storm, Cyclone, sea, current hazard has in significant role in map projection.

It is clear from all these facts that the projection has its own meaning.

This is essence of my research paper to clarify the importance.

### **Conclusion-**

The significant of Projection in my research paper has been the major point; we have many benefits by projection.

The area of any area of the earth can be easily understood by a projection.

The path of the air route especially from the projection is directed.

Rail route is displayed of from conical projection.

Therefore, there is a significant use of projection in the construction and road demonstration of

transport routes. It is clear from the above facts that projection for transport routes is absolutely necessary.

**Mollweide** projection is suitable for the distribution of population.

Indian weather map is presented on bone projection; the significance of projection is increasing day by day.

The projection provides important information to target the enemy country in war.

The interpolation is made from both graphical and mathematical method.

The study of the projection presents the latitude and longitude on the globe by intensive

Observation to each points of their net, Therefore, if The common man has to give information about time and distance in the world scenario, Then the use of the projection is very significant. We can see the progress of the country's economic development from the graph manufactured by projection.

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