

## **A Comparative Study about Environmental Awareness of Pre and In Service Teachers**

**Dr. Gouri Vijay Patil:** *Lecturer, Shri.Surupsing Hirya Naik College of Education, Navapur  
Dist. Nandurbar*

The relationship between environment and humankind is indeed deep and has been recognized from the vedic period. Environment is defined as a surrounding or conditions influencing development or growth. It can be understood as a system which includes all living and nonliving things; i.e. air, water, soil, vegetation, flora and fauna. Man is slave of environment. The child may have all kinds of abilities but they can not be developed fully without a proper environment. Rapid industrialization, further advancement in science and technology and fast growth of urbanization has posed danger to man him. Earth has limited resources which must be conserved. Efforts should be made to reduce the resources. Educator's and environment specialist are rapidly pointing out that solutions to the environment crises will require environmental awareness and understanding to the deeply rooted in the education system at all levels. The various issues that have come to the fore are air, water and land pollution, deforestation wildlife depletion, acid rains, ozone depletion, desertification, global warming, loss of biodiversity, tropical rain forests, biosphere – management, green house effect and other such issues. Of this climates change and biological diversity are described at most urgent requiring immediate attention. This is essentially because it is now well established that damage of environment systems and natural resources has assumed massive proportions and the effects are manifesting themselves is very tangible detrimental forms. Man has made a lot of progress in every field through science and technology but at the same time over use and misuse of environmental resources is destroying the equilibrium of environment. Man is an effort to fulfill his demands has exploited the environment. The environment has its own system of recovery but depletion of large amount of resources due to activities of man has failed the self recovery system of environment in many areas.

Teacher is a builder of nation. So teachers play a very important role to develop the student's life. If teacher should have the environmental awareness then he will develop very well student

awareness about environment. Thus from this study we know how much awareness is present between Pre & In-service teachers.

**Objectives:** The main objectives of the study are as follows

- (i) To find out the environmental awareness among Pre service student teachers.
- (ii) To find out whether male and female student's teacher differ in Environmental Awareness.
- (iii) To find out the environmental awareness among In service teachers.
- (iv) To find out whether male and female teachers differ In Environmental Awareness.
- (v) To find out whether Pre service student teachers and In service teachers differ in Environmental Awareness.

**Assumptions:**

- (i) Pre-service student teachers are graduates in different subjects.
- (ii) Pre-service student teachers are pursuing their education in B.Ed. colleges.
- (iii) In service teachers are also graduates in various subjects.
- (iv) In service teachers are in service and are doing teaching job.

**Hypothesis:**

- (i) There will be no significant mean difference in Environmental Awareness with respect to male and female pre-service teachers.
- (ii) There will be no significant mean difference in Environmental Awareness with respect to male and female in-service teachers.
- (iii) There will be no significant mean difference in Environmental Awareness with respect to pre-service teachers and in service teachers.

**Operational Definitions:**

Pre service student teacher: - These are graduates in different subjects and are admitted in B.Ed. college.

In service teachers: - These are graduates in different subjects and are doing teaching job in different schools.

Environmental Awareness:- Environmental Awareness means teachers who obtained marks in the test written by Dr.Seema Dhawan.

**Research Methodology:**

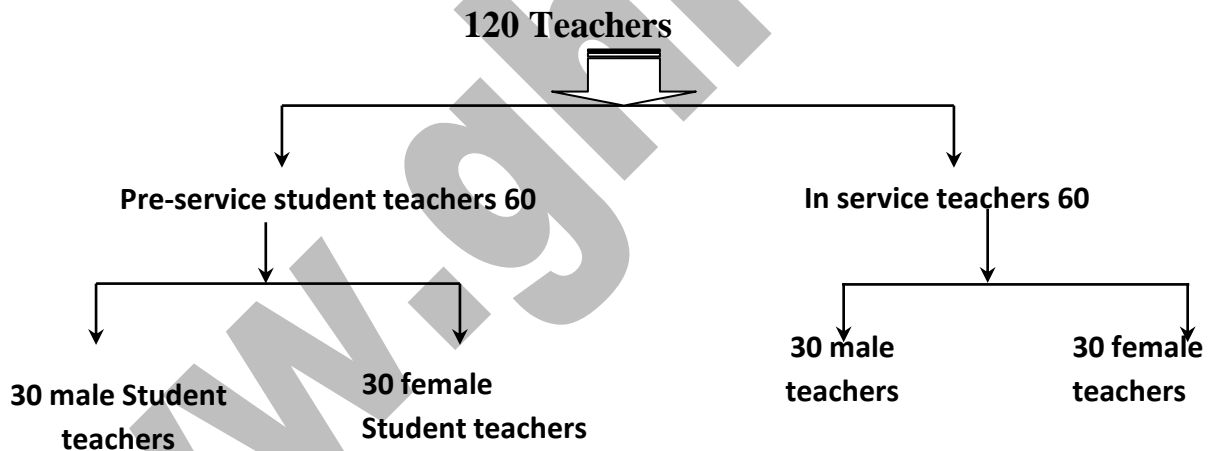
This research has done on the basis of descriptive method. The descriptive method has also many methods. This research was done through survey method.

**Population:**

In this research work the population of 360 persons is fixed. This population consists of 200 student teachers from B.Ed.college, Navapur and 160 teachers from the schools of Navapur town.

**Sample:**

In this research sample has been selected ‘probability sample method’. The sample has selected by lottery method. 120 people were selected out of 360 populations as sample



**Research Design :**

A/B	A <sub>1</sub> (Pre Service Teachers)	A <sub>2</sub> (In Service Teachers)
(Male Teachers) B <sub>1</sub>	30	30
(Female Teachers) B <sub>2</sub>	30	30

**Tools:**

For this research, the test developed by Dr. Seema Dhawan is used to study the Environmental Awareness of pre service and in service teachers.

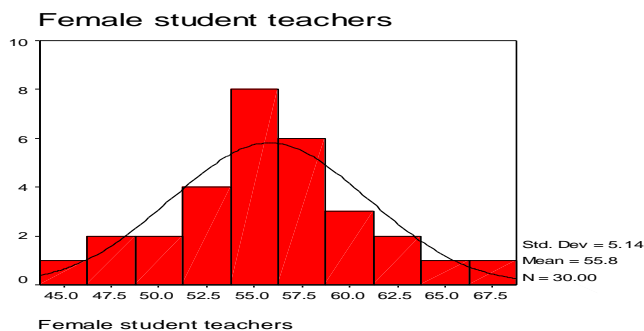
**Numerical Technique:**

Mean, Median, Mode, std. deviation, skewness, kurtosis and t-value numerical technique are used to do this research work.

**Analysis:**

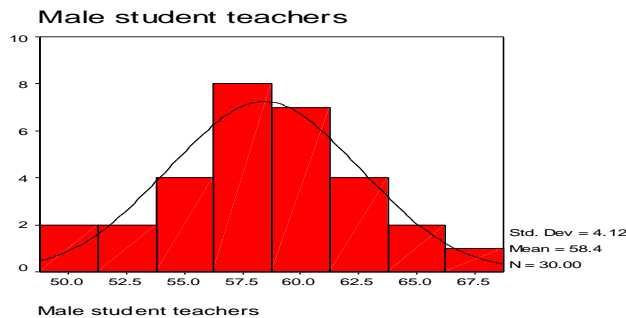
Whatever the information is collected on the basis of test. It has analyzed. Mean, median, mode, std. deviation, range, skewness, kurtosis, t-value technique and diagrams have used to know the meaning of above information. Following are the inferences ascertained..

**Table No. 1: Pre service female student teachers Environmental Awareness**



Converter		Type of Numerical	
Pre-service student Environmental Awareness	female teachers	N	30
		Mean	55.80
		Median	56.00
		Mode	53.00
		Std. Deviation	5.14
		Minimum	45.00
		Maximum	67.00
		Range	22.00
		Skewness	.039
		Kurtosis	.308

**Table No. 2: Pre service male student Environmental Awareness**



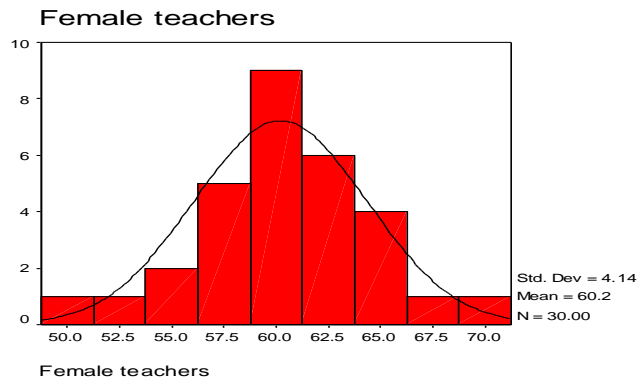
Converter	Type of Numerical	
Pre-service male student teachers Environmental Awareness	<b>N</b>	<b>30</b>
	<b>Mean</b>	<b>58.43</b>
	<b>Median</b>	<b>58.28</b>
	<b>Mode</b>	<b>57.00</b>
	<b>Std. Deviation</b>	<b>4.12</b>
	<b>Minimum</b>	<b>50.00</b>
	<b>Maximum</b>	<b>68.00</b>
	<b>Range</b>	<b>18.00</b>
	<b>Skewness</b>	<b>.037</b>
	<b>Kurtosis</b>	<b>.029</b>

**Table No. 3: Comparison between the Environmental Awareness of pre service male student teachers and female student's teachers.**

Pre service student's teachers	Mean	Std. deviation	t-value
Male Student Teachers	58.43	4.12	2.188
Female Student Teachers	55.80	5.14	

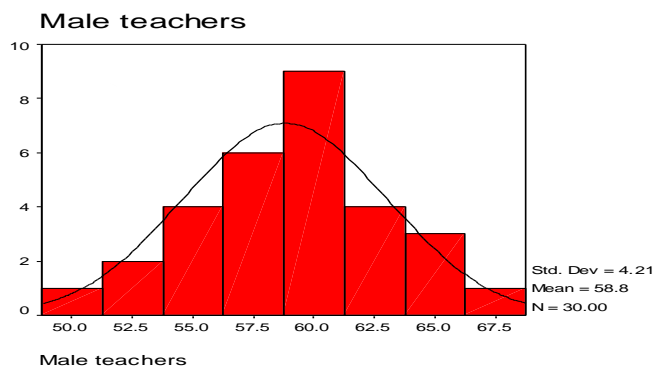
According to table no.3 t-value is 2.188 and sample t-value for df-58 on 0.05 levels is 2.00. Received t-value is more than sample t-value. Therefore t-value is acceptable. Due to this reason zero hypotheses has not been accepted.

**Table No. 4: In service female teachers Environmental Awareness.**



Converter	Type of Numerical	
In service female teachers Environmental Awareness	N	30
	Mean	60.20
	Median	60.20
	Mode	57.00
	Std.Deviation	4.13
	Minimum	51.00
	Maximum	69.00
	Range	18.00
	Skewness	-.146
	Kurtosis	.129

**Table No. 5 : In service male teachers Environmental Awareness.**



Converter	Type of Numerical
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<b>In service male teachers Environmental Awareness</b>	<b>N</b>	<b>30</b>
	<b>Mean</b>	<b>58.80</b>
	<b>Median</b>	<b>58.60</b>
	<b>Mode</b>	<b>59.00</b>
	<b>Std. Deviation</b>	<b>4.21</b>
	<b>Minimum</b>	<b>49.00</b>
	<b>Maximum</b>	<b>68.00</b>
	<b>Range</b>	<b>19.00</b>
	<b>Skewness</b>	<b>.007</b>
	<b>Kurtosis</b>	<b>.248</b>

**Table No. 6: Comparison of Environmental Awareness between in service male and female teachers.**

<b>In service teachers</b>	<b>Mean</b>	<b>Std. deviation</b>	<b>t-value</b>
In service male Teachers	58.80	4.21	1.301
In service female Teachers	60.20	4.13	

According to table no.6 received t-value is 1.301 and sample t-value for df-58 on 0.05 level is 2.06. Received t-value is less than sample t-value. Therefore t-value is not acceptable. Due to this reason zero hypothesis Navapur Dist. Nandurbar has been accepted.

**Table No. 7 :Comparison of Environmental Awareness between Pre service student teachers and In service teachers.**

<b>Teacher</b>	<b>Mean</b>	<b>Std. deviation</b>	<b>t-value</b>
Pre service Student Teacher	57.11	4.80	2.872

In service Teacher	59.5	4.20	
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According to table no. 7 received t-value is 2.872 and sample t-value for df-118 on 0.05 level is 1.96. Received t-value is more than sample t-value. Therefore received t-value is accepted. Therefore zero hypotheses has not been accepted.

Following inferences are drawn on the basis of above analysis.

**Conclusions:**

- (i) Difference is found in the Environmental Awareness between Pre-service male students teachers and Pre-service female students teachers.
- (ii) It is found that the Environmental Awareness of Pre-service male student teachers is more than Pre-service female student teachers .
- (iii) There is no difference found in the Environmental Awareness between in service male teachers and In service female teachers.
- (iv) The difference is found in the Environmental Awareness between Pre service student teachers and In service teachers.
- (v) The Environmental Awareness of In service teachers is found more than the Environment Awareness of Pre service teachers.

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