A Correlational Study Between Sex Ratio and Literacy Rate Matrix in India: A Case Study of Jammu and Kashmir State

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Abstract

Changing Demographic statistics overwhelmingly have both instantaneous and distant policy ramifications for all the nations of the world especially for India, which is going to emerge the world’s populist country in near future. The country on one hand is expected to enjoy the benefit of young population while on the other side, it is likely to suffer on account of adverse sex ratio. The situation is almost identical in the state of Jammu and Kashmir. The panorama demands a careful investigation into the gender statistics. Accordingly, the study based on secondary data attempts to examine the influence of literacy and illiteracy on the selective sex births in rural and urban areas. The study on the basis of parametric analysis finds that literacy significantly contributes to selective sex births both in urban and rural areas and illiteracy largely favours to unselective sex births. Moreover, the study observes that selective sex births syndrome is overwhelmingly adopted by the literate population. This seems a major reason for aggravated sex ratio in the state of Jammu and Kashmir. Moreover, the study on the basis of some advanced studies in medical science emphasis that eliminating feticide on the basis of advanced medical aid is yet not a full proof procedure to know exactly the type sex of new birth in advance. Therefore, the paper attempts to refute the belief that sex of a foetus not be determined exactly. The reality of the fact is that the sex of a foetus can not be determined exactly before the actual birth. Thus the study concludes that gender statistics imbroglio is very crucial issue and it myths and realities should be exposed in the light of advanced medical science along with elimination emerging expensive socio-economic evils of the society.

Key Words: Gender, Sex Ratio, Illiteracy, feticide, correlation, inverse, selective,

Introduction
Rightly, India is the second most populated country in the world after China. The population of India is projected to surpass China by 2024 and it is expected that it would become the habitat of more than 1.5 billion people by 2030 despite the fact, that India records recede in population growth from 2.3 percent to 1.3 percent in the decadal population growth data between 1972 to 1983. At present, India has more than 50 percent of its population below the age of 25 years and 65 percent below the age group of 35 years, the average age of an Indian is 28.4 years compared to 37 for China and 48 years for Japan. The population data of India hints mix of favourable, somewhat uneven and disturbing changes. The gender data is one of them. Factually, Gender statistics has a crucial significance for social scientists, demographic experts, anthropologists, policy makers etc. it is a comprehensive domain that incorporate all the areas demographic data, involving male and female composition. Sex ratio is one such aspect that relates to the gender statistics. It is one of the most important social parameter of the society that indicates the balance between males and females in the society says Christophe (2007). Sex ratio means the number of females against 1000 males. it typically refers to the number of females’ available to one thousand males. sex ratio is a proposition that is used to indicate the proportion between men and women (Suresh,1990 ). It varies for one area to other area and from one age group to another group depending upon the age specific mortality rates and sex specific migration rates. In India, the sex ratio have remained quiet low in all the age especially in pre independence period. Suresh (1990) reports that life expectancy started to increase regularly in India after 1920, it appears that men reaped more benefits from this progress than did women. On the whole, health facilities, improved nutrition and better protection against epidemics or death were geared more towards enhancing survival conditions for boys and men, which was considered a prime objective for many households and communities. Thomson Reutex Trust Law Women in its recent Survey says that India ranks fourth as the most dangerous place for women due to increasing number of female infanticides, foeticides and human trafficking. The other three countries include Afghanistan, Congo and Pakistan. The prospect of further worsening of India’s sex composition requires close monitoring of current sex-ratio trends in the country. In India especially in the state of Jammu and Kashmir, the phenomenon of gender statistics is much difficult to understand due to heterogeneous composition of population in terms of culture, religion, socio economic factors and government regulations etc. Christophe (2007) views that the Indian scenario of female discrimination is extremely complex in view of India’s social and
economic diversity. The interplay of cultural and economic factors, along with the impact of policy initiatives, has produced a heterogeneous situation, in turn, this complexity offers ways to better understand the mechanisms at work, and to inform the policy debate on the struggle against gender discrimination. In this context, the existing literature on gender statistics has unfolded that advanced medical science is a basic culprit for deteriorating sex ratio in India. Therefore, in view of the gravity of the situation, this paper is a modest attempt to unfold the myths and realities that are responsible for the poor sex ratio in the state of Jammu and Kashmir.

**Literature Review**

The credit of discovering the problem of gender inequality primarily goes to Amartya Sen (1990) in late 1990’s. Thereafter, it was aggressively highlighted by the research of reports of world bodies including UNO. However, in the Indian context, the research on demographic issues is going on prior 1871 (Dyson and Moore 1983). Factually, today adverse sex ratio is often seen as a great socio-economic issue in the world over (Ruchi, 2018). In fact, balanced sex ratio and high literacy rate are the two vital indicators of socio-economic and cultural advancement. Sex ratio indicates the number of females available against 1000 males in a particular region. It unfolds gender based population equality in a country hints Majumdar (2013). While Chandna (2015) says that literacy is one of the important aspect of demography and is more often considered as a fairly reliable index of socio-cultural and economic advancement. Literacy and sex ratio usually share relation between themselves and it is overwhelmingly expected that high literacy would significantly lead to high sex ratio. Nevertheless, the research of Ruchi (2018) has revealed that the sex ratio and literacy are inversely correlated indicating that growing literacy led to declines in the sex ratio. Similarly, the research of Kumar and Yadav (2018) have shown that the literacy and sex ratio are negatively correlated and move often in an opposite direction. Supporting the argument, the research of Bhalotra and Cochrane (2010) unfold that women education and sex ratio share opposite relation and more education for women has been found to worsen child sex ratios, because women with more education want to have fewer children overall, but want a son—are more likely to abort girl children (Mayer 1999; Das Gupta and Mari Bhat 1997). Further strengthening the argument the research outcome of Bhalotra and Cochrane (2010; Jha et al 2011; Madan and Breuning (2014) have noted that this phenomenon is universally visible in most parts of the India predominantly in the urban packets and among the literature women and
the discourse is exclusively facilitated by scientific advancement of medical science and access to prenatal sex determination.

Apart to the advancement in medical science for prenatal sex determination, the researchers have rolled out other factors that are also responsible for low sex ratio in the country. In this context, Dyson and Moore (1983) have seen kinship structures enjoys distinctive weight for adverse sex ratio in India. While Das and Gupta (1987), Krishnaji (1987) Miller (1997) have found socio economic status is the basic culprit for adverse sex ratio in country. Similarly, the research of Rosenzweig and Schultz (1984); Berik and Bilginsoy (2000), have unfolded that minimal employment opportunities for adult women and their poor economic value contribute to low sex in the country. Likewise, Das Gupta and Mari Bhat (1997); Jayachandran (2017); Malhotra, Vanneman and Kishor (1995) reported that overall fertility decline leads to adverse sex ratio. The research of Agnihotri, Palmer-Jones, and Parikh (2002) and Kishor (1993) have found that low female labor-force participation and low wage earnings pushes adverse ratio in India. Further, the research of Chakraborty (2015) hints about the trade openness spur sex ratio inequality in India. Similarly, the research findings of Murthi, Guio, and Dreze (1995); Sudha and Rajan (1999) reveal that development/urbanization and Bhalotra, Brule, and Roy (2020) reveal the female inheritance rights contribute to adverse sex ratio. The underline commentary in view of literature review lead to the conclusion that literacy and sex ratio are not more often independent to each other, however are overwhelmingly inversely related all through in the Indian context which may not or may not be consistent in the global context.

Objectives

The study has been undertaken to attain the following objectives.

- To study the composition of gender statistics in India and in the state of Jammu and Kashmir
- To map the sex ratio and literacy changes in India and in the state of Jammu and Kashmir
- To study the influence of literacy on sex ratio in India and in the state of Jammu and Kashmir
- To examine the correlation between sex ratio and literacy
- To underline the causes for low sex ratio in India and in the state of Jammu and Kashmir
To suggest the measures for achieving better sex ratio in India and in the state

Nature of Study

The study is correlational and analytical by nature

Hypothesis

Null Hypothesis: There is a significant inverse relation between high literacy and low sex ratio in the state of Jammu and Kashmir.

Alternative Hypothesis: The literacy and sex ratio are significantly independent to each other

Scope of the Study

The scope of the study is confined to the state of Jammu and Kashmir from the year 1991-92 to 2021-22

Research Methodology

The study is exclusively based on secondary source of data. The data was collected from the both official and non official records of the department of economics and statistics, planning and development, department of information including journals, research papers, magazines and internet etc. The data collected was tabulated and put to various statistical operations to derive results and arrive at conclusion.

Analysis and Discussion

The sex ratio measured by number of females per 1000 males is an indication of gender equality in a region. Biologically, a girl child is more resistant to disease and more likely to survive infancy than a male child, but the sex ratio shows an adverse trend in India indicating that a male in society is preferred over female. This has been confirmed by the research of Majumdar (2013); Chanda (2014) and Ruchi (2018).

Gender Statistics at All India Level
Adverse Gender statistics is a most sensitive issue for demographic scientists and policy think tanks says Sen (1990). It has long run policy ramifications for country as a whole. The adverse gender statistics existed even during pre-colonial periods hints Majumdar (2013). The British administration have observed male dominated sex ratio in India in many parts of India during 19th century has reported by the research of Agnihotri (20000 ; Croll, (2000) and Attane and Guilmoto (2007). While Visaria (1971) has found that unusually high mortality levels are prevalent among women of all ages. The practice of female infanticide had been detected early on in some provinces of West India, where a few caste groups chose to limit the number of daughters by killing them immediately after birth. However, the real culprit was the less visible impact of excess female mortality among infants and children. Extremely high death rates observed during the colonial period meant that more than a quarter of children born would not reach the age of 5, a slight level of female excess mortality could thus translate into a significantly reduced number of girls. This declining trend of sex ratio continued even in the post independence period as can be seen from the given table below.

Table No 1

| Year | 1901 | 1911 | 1921 | 1931 | 1941 | 1951 | 1961 | 1971 | 1961 | 1991 | 2001 | 2011 | 2021 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sex Ratio | 972  | 964  | 955  | 950  | 945  | 946  | 941  | 930  | 934  | 927  | 933  | 940  | 1020 |

Source: DEPS, UT, J &K

Table No : 2

Sex Ratio of the Child and Overall population, India, 1951-2011

| Year | 1951 | 1961 | 1971 | 1981 | 1991 | 2001 | 2011 |
|------|------|------|------|------|------|------|------|
The above statistics clearly show that sex ratio in India over the last more than one century is continuously declining. It has gone down by 12 (1972-1960) points from 1901 to 1911. The availability of technology to determine the sex of foetus and the practice of aborting a female foetus are viewed a predominant reason for such adverse situation. The similar findings have been reported by the research of Bhalotra and Cochrane (2010); Guilmoto (2009); Jha et al (2011); Madan and Breuning (2014). Moreover, the adverse sex ratio in Indian union is attributed to high women mortality rates. It is seriously felt that extremely high death rates observed during the colonial period meant that more than a quarter of children born would not reach the age of 5; a slight level of female excess mortality could thus translate into a significantly reduced number of girls. As a result, the sex ratio did not decrease with age in India, as observed elsewhere. Higher mortality conditions were also at work among young adult women (maternal mortality), and even among some older groups (such as widows). However in a massive achievement, India's sex ratio has improved in 2021 having 1020 females to every 1000 males - clocking a female majority for the first time. As per the new National Family Health Survey 2019-21 (NFHS-5) released hints that India is moving closer to the global sex ratio, where out of 201 countries/regions estimated by United Nations, 125 have more females than males. Fourteen countries have a male ratio of less than 90, and 41 has less than 95. The rise in sex ratio in India seems due to variety of factors like drop in legal marriage age for both men and women to 23.3% and 17.7% respectively, decline in fertility rate to 2%, and infant mortality to 35.2. The position is almost identical in all the states of Indian union as is visible from the table No 2

| Sex Ratio | 100 | 102 | 104 | 106 | 108 | 110 | 112 |
|-----------|-----|-----|-----|-----|-----|-----|-----|

**Source: DEPS, UT, J &K**
| S.NO | State             | Sex Ratio |
|------|------------------|-----------|
|      |                  | 1991      | 2001      | 2011      | 2021      |
| 1    | Jammu and Kashmir| 927       | 892       | 883       | 883       |
| 2    | Himeachal Pradesh| 896       | 900       | 974       | 974       |
| 3    | Punjab           | 882       | 874       | 893       | 893       |
| 4    | Chandigarh       | 790       | 773       | 810       | 818       |
| 5    | Uttranchal       | 936       | 964       | 963       | 963       |
| 6    | Harayana         | 865       | 861       | 877       | 877       |
| 7    | Delhi            | 872       | 821       | 866       | 866       |
|      | Rajastan         | 910       | 922       | 926       | 926       |
| 9    | Utterpradesh     | 876       | 898       | 908       | 908       |
| 10   | Bihar            | 907       | 921       | 916       | 916       |
| 11   | Skim             | 878       | 875       | 889       | 889       |
| 12   | Andrapradesh     | 859       | 905       | 920       | 920       |
| 13   | Nagaland         | 886       | 909       | 931       | 931       |
| 14   | Manipur          | 958       | 978       | 987       | 987       |
| 15   | Mizoram          | 921       | 938       | 975       | 975       |
| 16   | Tripura          | 945       | 950       | 961       | 961       |
| 17   | Megalay          | 955       | 975       | 986       | 986       |
| 1    | Assam            | 923       | 932       | 954       | 954       |
| No. | State            | Code1 | Code2 | Code3 | Code4 |
|-----|------------------|-------|-------|-------|-------|
| 19  | West Bengal      | 917   | 934   | 947   | 947   |
| 20  | Jarkhand         | 922   | 941   | 978   | 978   |
| 21  | Orisa            | 971   | 972   | 991   | 978   |
| 22  | Chhattisgarh     | 985   | 990   | 930   | 991   |
| 23  | M.P              | 912   | 920   | 918   | 930   |
| 24  | Gujrat           | 934   | 921   | 618   | 918   |
| 25  | Daman & Dev      | 969   | 709   | 775   | 618   |
| 26  | Dada and Nagar Haveli | 952 | 811 | 812 | 775 |
| 27  | Maharashtra      | 934   | 922   | 992   | 925   |
| 2   | Andrapradesh     | 972   | 978   | 968   | 992   |
| 29  | Karnataka        | 960   | 964   | 968   | 968   |
| 30  | Goa              | 967   | 960   | 946   | 968   |
| 31  | Lakshdeep        | 943   | 947   | 1084  | 946   |
| 32  | Kerala           | 1036  | 1050  | 995   | 995   |
| 33  | Tamil Nadu       | 974   | 1001  | 1038  | 995   |
| 34  | Andaman Nicobar  | 818   | 846   | 878   | 878   |
| Overall | India         | 927   | 933   | 940   | 1020  |

Source: DEPS, UT, J & K
The table NO: 3 shows the sex ratio for majority of the states of Indian union over the last three decades is continuously dwindling especially in the northern states where the sex ration is pegging below 900 mark. While as it is fairly better in some southern states of India like Kerala Tamil Nadu, Andrapradesh and Chatisgrah. the sex ratio in theses states has remained somewhat closer to 1000 mark. The UT of Punjab, Haryana and Jammu and Kashmir record adverse sex ration 818, 877 and 8883 against 1000 men respectively. This seems predominantly due to low socio economic conditions and undefined population policy in these states. Here it pertinent to mention, that the states which enjoy better sex ratio have robust medical care system in place along with the balanced nutrition facilities available for pregnant women and children through the extensive network of children and women welfare centric institutions. These facilities help to improve the health and nutrition status of its women and children and as such were able to attain reasonably better sex ratio. The research of Ruch (2018) has unfolded similar findings in the context adverse sex ratio analysis. While the other research studies (Mujamdar, 2013; Chanda 2014) refute the argument by saying that women are least benefited under welfare schemes as compared to men. These research findings therefore plead that there are number of other factors for low sex ratio (besides the advancement of medical science for elimination of female fetus) that force the women not to have the girl child compared to male child, This may include poor plight of women in society, early marriage, dowery, slavery attitude of society towards the women, excessive disrespect shown by men towards women, not having ability to earn livelihood as men earn etc. Therefore, the low sex ratio is believed significantly to be an outcome of “Women Neglect Syndrome”. The research of Agnihotri, Palmer-Jones, and Parikh (2002) and Kishor (1993) revealed somewhat similar facts vis-à-vis the background of adverse sex ratio in India. Nevertheless, with the advancement of medical science and consequent upon the growing socio-economic evils associated with women, deliberate attempts to abort the unwanted births is seen a major factor for poor sex ratio in Indian states. Das Gupta (1987) and (Miller ) 1981 report the similar facts.

Gender Statistics in Jammu and Kashmir

In the state of Jammu and Kashmir, low sex ratio is a matter of serious concern for the government and demographic scientists. Despite some marginal improvement, the state has registered continuously low sex ratio over the last more than three decades. At the national level
the sex ratio has increased from 933 females per 1000 males in 2001 to 940 females per 1000 in 2011 and 1021 females per 1000 males in 2021 registering a surge of twenty eight points during the last three decades. In fact, for the first time India’s the sex ratio is inching closer to the global sex ratio. While, sex ratio in Jammu and Kashmir has dropped by nine points from 892 to 883 in 2001 to 2021. Within the state, lowest sex ratio were recorded in the district Leh 690 and Kargil 810, Rajori 860 and Bandipora 889. While the highest sex ration were recorded in kulgam and Shopian, 959,Anathnag 927, Doda 919 and Srinagar 900. These districts have sex ratio somewhat inline to the national average. Consistent to the national level, the researchers opine that low sex ration in the state is largely due to the availability of medical sex determination facilities. Supporting the argument, one independent study about female feticides’ in 2007 reported that about 13 percent of diagnostic centers in valley carried out gender determination test with respect to selective births. The study further reports that, out of conceived female sample respondents about 10 percent have gone for the first sex determination test, while 30 percent sample respondents have gone for the second test and aborted a girl test. Besides the unregulated and secret medical care, it seems that there are other factors contributing to adverse sex ratio in the state. Accordingly, the study found that literacy, modernization, two-child policy slogan, existing social evils are responsible for adverse ratio in the state. These findings are in tune with the research of Das Gupta and Mari Bhat(1997); Ruchi (2018) and Kishore (1993).

**Gender Statistics and Literacy**

The literacy rate is measured as a percentage of population aged seven years and above who are able to read, write and form simple sentences as per National Statistical Office (NSO) 2021. A high literacy rate is an indication of socio-economic development of a society and vice versa. In India, male literacy rate (84.70 percent) is higher than female literacy rate (70.30 percent), the same is true in the state of Jammu and Kashmir. According to the a new survey of the National Statistical Office (NSO) male literacy in Jammu and Kashmir is 85.70 percent which is much higher than the female literacy rate 68 percent. The survey reveals that in rural areas, female literacy is lower than urban area. The urban female literacy rate is (75.70 percent) and literacy rate of women in rural areas is 66 percent. The female literacy in the state of Jammu and
Kashmir hovers around 68 percent, which is around 9.70 percent lower than the national average as per census 2021. In order to study the correlation between literacy and sex ratio both in urban and rural areas the study the used the data pertaining to two variables as under in table NO: 5

Table NO: 5

**Correlation - Literacy and Sex Ratio in Rural and Urban Population**

| S.NO | District       | Sex Ratio | Literacy | Overall in 2001 | Overall in 2011 |
|------|----------------|-----------|----------|-----------------|-----------------|
|      |                | Rural     | Urban    | Rural           | Urban           |
| 1    | Anantnag       | 936       | 842      | 43.70           | 62.60           |
| 2    | Pulwama        | 952       | 883      | 47.90           | 63.40           |
| 3    | Srinagar       | 913       | 835      | 38.70           | 65.10           |
| 4    | Budgam         | 940       | 854      | 40.20           | 60.30           |
| 5    | Baramullah     | 912       | 839      | 42.30           | 60.30           |
| 6    | Kupwara        | 916       | 688      | 42.40           | 62.80           |
| 7    | Leh            | 904       | 611      | 59.90           | 81.80           |
| 8    | Kargil         | 861       | 559      | 58.80           | 80.80           |
| 9    | Jammu          | 902       | 828      | 71.70           | 83.50           |
| 10   | Udhampur       | 897       | 684      | 49.20           | 85.40           |
| 11   | Doda           | 918       | 727      | 61.70           | 89.40           |
| 12   | Kathua         | 912       | 835      | 63.10           | 80.01           |
| 13   | Rajori         | 890       | 736      | 55.80           | 85.40           |

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| No | District     | Population | Sex Ratio (Male/Female) | Literacy Rate |
|----|--------------|------------|-------------------------|---------------|
| 14 | Poonch      | 932        | 745 62.50 93.50 919 65.00 893 66.74 |
| 15 | *kulgam     |            |                         |               |
| 16 | *Bandipora  |            |                         |               |
| 17 | *Samba      |            |                         |               |
| 18 | *Reasi      |            |                         |               |
| 19 | *Ganderbal  |            |                         |               |
| 20 | *Ramban     |            |                         |               |
| 21 | *Shopiyan   |            |                         |               |
| 22 | *Kishtiwar  |            |                         |               |

Source: DEPS, UT, J &K

*These district were created in August 2019, as such no exclusive data is available about them prior to their existence.

From the above table No 5, it is evidently clear that that sex ratio is fairly better in rural areas than urban areas while literacy is appreciably high in urban pockets than rural one. This is in other sense hints that rural areas have somewhat good number of females than urban area and urban areas enjoy high literacy rate than rural areas. From official statistics, it fairly deduced that high literacy contributes to low sex ratio while the low literacy spurs high sex ratio. The finding proves correct as their over all Karlpearson’s coefficient of correlation appeared negative 0.516, while for rural and urban areas it appeared negative 0.363 and 0.5034 respectively. It implies that the null hypothesis is accepted which presumes that literacy contribute to declining in sex ratio. This finding is reinforced by the other studies (Agnihotri, 2000: Corll, 2000) low sex ratio is overwhelmingly visible among the elite and high literate classes of the society.

Lack of Uniform Population Policy Agenda
Besides the literacy and elite status of some fraction of masses, the state does not have clear cut population policy agenda. Understandably, there appears mess of uncoordinated efforts within the different fractions of government machinery and as a result, uniform policy agenda with respect to gender statistics is altogether missing. The department of health on one side emphasize upon the concept of Family Planning / Necular Family/ Small Family/ one child policy etc while on the other hand, the demographic think tanks are crying over poor sex imbroglia. There appears a wide conflict within the population policy of the government. Long before, the government of Jammu and Kashmir consistent to the government of India, gave a wide family planning slogan “WE TWO AND OUR TWO” and subsequently one child policy. This slogan rightfully is a predominant factor for selective births and elimination female fetus as the parents are going ahead with planed strategies to avoid female births. It is because they are left with limited probabilities for having male baby therefore, they avoid every risk of not having the female baby.

**Availability Advanced Medical Care**

Poor sex ratio in the state of Jammu and Kashmir is predominantly attributed to female feticide through ultrasound prenatal sex determination. Here the million dollar question is How accurate is the sex determination of a fetus? Is it necessary for a female to undergo for ultrasound during her pregnancy? Can a sonologist find exactly the sex of fetus? The available research literature on the subject has clearly state that sex of the fetus cannot be determined exactly. Khuroo (2011) states that it has been repeatedly stressed in the literature by well done studies that determination of prenatal sex through ultrasound is subject to many variables and can be grossly fallacious. Determination of prenatal sex is dependent upon the equipment quality and type of ultrasound probes, age of pregnancy and of course expertise of the operator. Inappropriate fetal position, excess amount of amniotic fluid and increased thickness of the abdominal wall of the mother can grossly adversely affect prenatal sex determination. Many the genital tubercle of female times if prominent can look like a male organ and vice versa. Sometimes umbilical card in a female fetus may resemble male organ and give fallacious results. Thus chance of making a correct prenatal sex determination at 11 weeks of pregnancy is around 50 percent subject to availability of high quality ultrasound machine and well experienced
A sinologist is doing a careful examination. Despite the fact, sex determination of fetus can never reach 100 percent. Therefore a true sex of a baby can be determined only at birth.

**Socio Economic Bottlenecks**

Even in the twenty first century women is looked down as inferior specie due to prevent socio cultural and economic factors. The violence against the women is an order of the day. She does not receive adequate safety equal to men both in and outside the home. She is chased for malicious activity, knotted in marriage for dowry and viewed as an obedient servant for family. We as enlightened society yet have not accepted her a vital part of our system equal to men. These odds attached to female in all time force parents to proceed for selected births and abort a female fetus. According to one-survey Jammu and Kashmir ranks at second in Indian union as far as violence against the women is concerned. Moreover, the reduction of human values, deprecation of family norms, rising cost of living, diminishing role of socio cultural institutions etc. motivate parents to discourage female fetus.

**Suggestions**

In the backdrop of the above discussion, the following suggestions are made:

- The government of state Jammu and Kashmir should draw a comprehensive population agenda or policy which should cover all areas and aspects falling under the domain of gender statistics.

- The government should frame strict laws to tape the violence against the women so that her position in the society is elevated.

- The government should empower women by giving her due recognition and role in all aspects of life.

- The government should educate the people in general and women in particular through public media that sex determination of fetus through ultrasound yet not is an exact means to find the true sex of baby.

- The government should work hard to bring more and more females in the fold of education so that they improve their own lot and the lot of their family.
• The society should accept girl child as a blessing than a curse. People should reverse their attitude and mindset towards the girls.

• The social evils like dowry should be banned by the government. We as a society should learn to perform zero dowry marriages.

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