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Chief Editor

Dr. Neha Mittal

Assistant Professor, Govt. College Julana, Jind, Haryana

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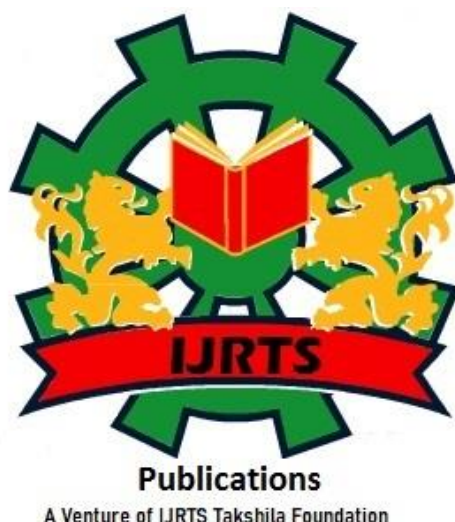
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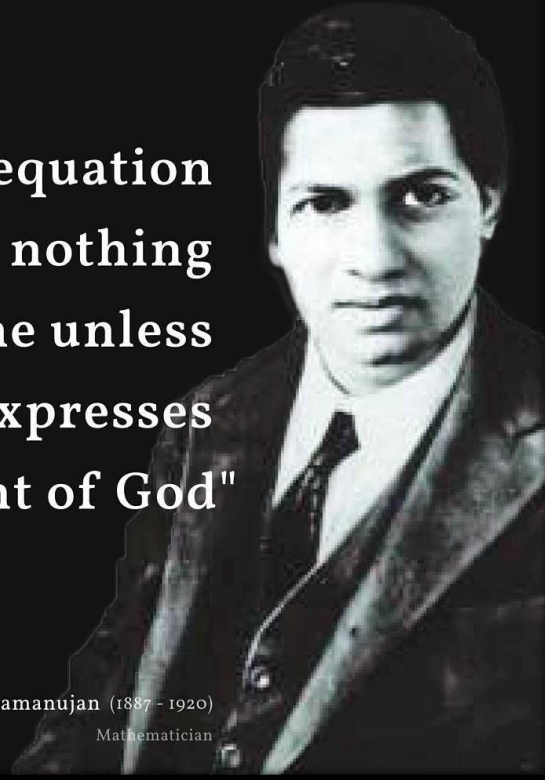
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**"An equation
means nothing
to me unless
it expresses
a thought of God"**

- Srinivasa Ramanujan (1887 - 1920)
Mathematician



Srinivasa Ramanujan (born as Srinivasa Ramanujan Aiyangar, IPA: [sriːnivaːsa raːmaːnudz̪an ajːaŋgar], 22 December 1887 – 26 April 1920) was an Indian mathematician. Though he had almost no formal training in pure mathematics, he made substantial contributions to mathematical analysis, number theory, infinite series, and continued fractions, including solutions to mathematical problems then considered unsolvable. During his short life, Ramanujan independently compiled nearly 3,900 results (mostly identities and equations). Many were completely novel; his original and highly unconventional results, such as the Ramanujan prime, the Ramanujan theta function, partition formulae and mock theta functions, have opened entire new areas of work and inspired a vast amount of further research. Of his thousands of results, all but a dozen or two have now been proven correct.

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Research in the Modern World: Trends, Challenges, and Implications

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Abstract

Research has played a pivotal role in shaping the modern world, driving innovation, fostering progress, and addressing pressing global challenges. This research paper aims to provide an overview of the state of research in the contemporary world, highlighting key trends, challenges, and their implications. The paper discusses the evolution of research methodologies, the impact of technology, interdisciplinary collaboration, ethical considerations, and the future of research in an increasingly interconnected and complex world.

Introduction

Research has been a driving force behind human progress for centuries, and its role in shaping the modern world is undeniable. The contemporary research landscape is marked by a plethora of advancements, challenges, and opportunities. In this paper, we will explore the state of research in the modern world, emphasizing its evolving nature, the influence of technology, the importance of interdisciplinary collaboration, ethical considerations, and the potential directions research may take in the future.

Evolution of Research Methodologies

2.1. Traditional vs. Modern Research

Historically, research was conducted in a more isolated and resource-intensive manner. Today, modern research benefits from advanced methodologies, data analytics, and computational tools. The shift from library-based research to digital repositories and online databases has greatly accelerated the pace of discovery.

2.2. Data-Driven Research

The digital age has ushered in an era of data-driven research, allowing scientists to harness vast datasets for analysis. This has revolutionized fields such as genomics, climate science, and social sciences, enabling researchers to gain insights that were previously unattainable.

The Impact of Technology

3.1. Technological Advancements

Recent technological advancements, including artificial intelligence, blockchain, and quantum computing, have expanded the horizons of research. These tools have the potential to solve complex problems, optimize research processes, and open new frontiers in various disciplines.

3.2. Global Collaboration

Technology has also facilitated global collaboration among researchers. International teams can work together seamlessly, sharing data and expertise, which has accelerated progress and increased the diversity of perspectives in research.

Interdisciplinary Collaboration

4.1. Breaking Down Silos

The modern world demands interdisciplinary collaboration as complex problems often require expertise from multiple domains. Breaking down traditional silos has led to innovative solutions in areas such as healthcare, sustainability, and artificial intelligence.

4.2. Challenges of Interdisciplinarity

While interdisciplinary research offers many advantages, it also presents challenges, including communication barriers, funding difficulties, and establishing common ground among experts from different fields.

Ethical Considerations

5.1. Ethical Research Practices

In an era of rapid technological advancement, ethical considerations are paramount. Researchers must grapple with issues like data privacy, informed consent, and the responsible use of emerging technologies to ensure the integrity of their work.

5.2. Social and Environmental Impact

Research in the modern world has far-reaching social and environmental implications. Ethical research extends to addressing the potential consequences of research outcomes on society, culture, and the environment.

The Future of Research

6.1. Emerging Fields

The future of research promises exciting new frontiers, including space exploration, biotechnology, and sustainable energy solutions. Researchers will continue to push the boundaries of human knowledge and innovation.

6.2. Challenges Ahead

Despite the promise of the future, research faces numerous challenges, including funding constraints, global crises, and ethical dilemmas. Researchers must adapt and innovate to overcome these obstacles.

Conclusion

Research in the modern world is a dynamic and evolving endeavor that shapes our society, drives innovation, and addresses global challenges. It is driven by advanced methodologies, empowered by technology, enriched by interdisciplinary collaboration, and guided by ethical considerations. As we navigate the complexities of the modern world, research remains a beacon of hope, offering solutions to some of the most pressing issues facing humanity. Its continued evolution will undoubtedly lead us to new frontiers of knowledge and discovery.

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Geographical Justification of Ancient Indian Historical Texts: A Research Review

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Abstract

Epics like Ramayana and Mahabharata have become deeply ingrained in the consciousness of the Indian populace, making them an essential source of knowledge about the country's culture and spatial practices. These tales contain numerous references to sacred geographical locations, which are intertwined with the terrain of the Indian subcontinent. The historical period depicted in Ramayana is crucial for understanding the physical and cultural geography of India at that time. The Ramayana is considered the first poem in classical Sanskrit literature and distinguishes between 'Aryan' and 'Non-Aryan' cultures. The village system was under the direct control of the monarch, and it was customary to pay homage to the King in the form of villages. The Ramayana also mentions two distinct categories of villages: agricultural villages (Gramas) and pastoral villages (Ghosas). To comprehend the geography of the Mahabharata, it is necessary to understand the political climate of the time. The Pandavas and Kauravas engaged in a significant conflict, with some states aligning with the former and others aligning with the latter. The Pandavas had a larger base of support than the Kauravas, while the Kauravas had a larger base of support. Al Biruni's analysis of physical geography was commendable, as he described the sociocultural aspect of Indian culture and praised the physical geography of the region. He frequently used the 'farsakh' scale to calculate the exact distance between cities and attempted to improve his spatial comprehension by calculating the latitude of Thaneswar and other similar locations. His accounts also discussed the rainfall mechanism on the Indian subcontinent, rivers and mountains, and the boundaries of the inhabitable world. Overall, the epics and legends of India provide valuable insights into the country's history and geography.

Content

In the case of India, epics such as Ramayana and Mahabharata have become so ingrained in the consciousness of the Indian populace that the majority refuses to regard their episodes as

fiction. This is true not only for the illiterate populace, but also for the highly literate. In India, tales and legends abound. To better comprehend Indian culture and its spatial practices, it is necessary to investigate various fables and legends. The most intriguing aspect of these epic tales is that they contain numerous references to sacred geographical locations. In fact, these mythologies and tales are intertwined with the terrain of the Indian subcontinent in a way that complements one another.

The historical period depicted in 'Valmiki's epic Ramayana is vital. This text aids in comprehending the physical and cultural geography of India at that time period. The goal of the historical-geographical approach is to better comprehend the geographical realities of those periods as perceived by the inhabitants. The Ramayana is regarded as the first poem (Adi Kavya) in classical Sanskrit literature. The story of Ramayana makes a clear distinction between 'Aryan' and 'Non-Aryan' cultures. In the Ramayana, the village system was under the direct control of the monarch. It was customary to pay homage to the King in the form of villages. The King Dasaratha is seen in the Ramayana as giving one thousand villages to Kausalya, his eldest queen, which constituted her property to nourish her dependents and servants. Similarly, it is said that King Bharata granted Lord Hanuman one hundred villages for bringing him good tidings. The Ramayana makes reference to two distinct categories of villages: the agricultural village, referred to as "Gramas," and the pastoral village, referred to as "Ghosas." The 'latter' was meant to be smaller than the 'former'.

The epic's description of villages in the Northern Indian Plain region is quite detailed. For Eastern and Southern India, the description is scant, with only a passing reference to sage hermitages in South India. While travelling to Sri Lanka from the south of India, Lord Rama rested and remained in these hermitages. In addition to serving as the hermit and scholar's residence, these hermitages were also equipped to serve other purposes. These hermitages facilitated the spread of Aryan culture to the southern part of India. These hermitages were typically situated on riverbanks or in the vicinity of a lake or forest, close to the main settlement. These settlements were situated in such a manner that they could always communicate with the most populous cities. In fact, the period of the Ramayana is considered to be the heyday of 'ashramas'. These hermitages were strung along the riverbanks from North India to South India, forming a chain. Important centres of religious activity include the hermitages of Valmiki, Vasistha, Visvamitra, Gautama, Bharadvaja, Atri, Sutikshna, Agastya, and Matanga, among others.

On the priest Vasistha's orders, Bharata was summoned from 'Giribraja' (the capital of the kekaya), and the messenger departed 'Ayodhya' to retrieve him. The 'Kekaya' kingdom was located in the northwestern region of India. They reached the city of 'Kulinga' along the way, and after traversing it, they reached the village of 'Abhikala' via 'Tejobhibhavana'. The messenger crossed the 'Iksumati' river, which is believed to be the modern Ghaggar, prior to arriving at the destination. All of these towns were ideally situated on riverbanks. A village named 'Nandigram', which was believed to be located close Ayodhya, has been identified with the modern city of Nundgaon, which is situated south of Faizabad.

During those periods, urban centres were situated and constructed with defence in mind. Defence barriers were crucial for repelling any type of attack. In addition, steep slopes and water moats were preferable when situating strategically significant cities. As an illustration, King Ikshvaku chose the meander circular site of Ayodhya as the urban settlement's centre. According to the Ramayana, there were three major highways between Sindhu and the region where urban settlements arose. A) The region as well as Satadru. B) The entire Ganga basin, comprising the upper Ganga lowlands and the lower Ganga plains. C) The southern Indian plateau up to the Krishna River. These regions are bountiful in nature. These settlement regions also coincide with the region schema of "Nuclear Perennial Region" (NPR) described by O.H.K. Spate in his seminal 1954 work, *India and Pakistan: General and Regional Geography*.

To comprehend the geography of the Mahabharata, it is necessary to comprehend the political climate of the time. The Pandavas and the Kauravas were to engage in a significant conflict. Some states affiliated with the former, while others aligned with the latter. On the Pandava side of the Madhyadesha region were the Panchalas, and just to the north of this region were the Rakshasa of the forests, Matsyas, Chedis, Ksrushas, Dasarnas, Kasis, Eastern Kosalas, Western Maghadas, and the people residing near the Vindhya and Aravallis. From the Western region, all the Yadavas of Gujarat and its eastern inhabitants, as well as some Kaikeyas and Abhisaras from northwestern India, were on their side. Pandyas and a number of Dravidian contingents from southern India assisted them. Compared to the Pandavas, the Kauravas had a much larger base of support. In the east were the Pragjyotishas (including contingents from the Chinas and Kiratas), the Eastern Maghadas, the Videhas, the Angas, the Pundras, the Vangas, the Utkalas, the Mekalas, the Kalingas, and from south Andhras (including all neighbouring tribes). On the Kauravas' side were the Madhyadesha kingdoms of Vatsas, Kosala, and Sursenas. The Sauvira, Madras, Valhikas, Sindhus,

Kaikeya, Gandharas, Kambojas, Gandharas, Kambojas, Ambasthas, Sibis, and contingents of the tribes all around these kingdoms provided support. In central India, south of the Madhyadesha realm, the Yadavas were also with them.

Even though the war involved all subcontinental powers, there was a specific location from which these two forces assembled their forces. The Pandavas' centre was 'Upaplavya', the capital of Matsya, while the Kauravas' strategic foundation was their own capital, 'Hastinapur'. The combined army of the Kauravas was so large that there was insufficient space in Hastinapur to accommodate them all; consequently, they stretched in a curve from the southern region of Punjab to Kurukshetra in the northern region of the kingdom of Panchala. The pandvas united their forces and surrounded Matsya. Matsya comprises the modern cities of Alwar, Jaipur, and Bharatpur. The location of 'Upaplavya' has not yet been determined, but archaeologists believe that a number of enormous, unexcavated mounds to the south of Mathura may be the same.

This composition was composed prior to the beginning of the Christian era. This poem's authorship is attributed to Kalidasa. He was one of the court's decorations for Vikramaditya of Ujjain. Among the classical Sanskrit works attributed to him are Ritusanhara, Raghuvasa, Malavikagnimitra, Kumara-sambhava, and many others. Megha Duta demonstrates a profound connection between the human imagination and his environment. The subject of the poem is straightforward and rooted in the native environment. A Yaksha believed himself to be a lesser deity than the deity above him. He is an attendant of Kuvera, the deity of wealth. Each Yaksha has a partner. In this poem, the essence of the Yaksha is described as a benign spirit with a mild disposition. Twelve months of exile have been imposed on him by his monarch for failing to execute his duty properly. He is exiled to a remote forest atop some hills. Due to his yearning for his wife, he develops a sense of loss. In the interim, he finds a sympathetic messenger in a "cloud" With the arrival of monsoons on the Indian subcontinent, clouds can be seen streaming in the tropical sky and attempting to reach the snowy Himalayan Mountains in the north. He perceives the cloud masses to be alive. The lover, Yaksha, suggests the trajectory that the cloud should take to reach his wife in order to convey his message. The poem reaches its climax when clouds deliver the message to the lover's wife, which is meant to assuage her sorrow and inspire her hopes.

The poem begins by describing the location where the Yaksha were exiled. The location's name was Ramagiri. According to the site's appellation, this mountain was associated with King Rama. During his descent south of India, Rama resided here for a time, and since then it

has been known as the Rama Mountain. According to tradition, Rama's most renowned residence was in the 'Chitrkuta' Mountains, while some legends associate Ramagiri with another mountain in the Kaimoorhills. Lastly, another set of scholars believes it to be 'Ramtec' to the north of Nagpur, the precise site of the Ramgiri Mountains. Sita, the wife of Rama, bathed in this location, rendering it sacred. The aforementioned locations have become pilgrimage sites for the locals. One can therefore conclude that Yaksha's exile occurred somewhere in the vicinity of Vindhya.

In the poem, the monsoon season of the Indian subcontinent is praised. In India, the monsoon season, which occurs between June and July, was referred to as "Asharha." The Yaksha compared the clouds to the elephant's rage. In ancient mythology, clouds are believed to have originated from fire, Brahma's breath, and the severed mountain wings of Indra. That is why they are commonly known as Pushkaravartakas. During those eras, human imagination and intelligence enabled curiosity to comprehend the various cloud formations and their distinct properties. Thus, the poem depicts the arrival of the southwest monsoons and their precise time of year.

In the poem, a geographical comparison is made between Nagpur, which is known to be close to the Ramagiri highlands, and Mount Kailasha, which is located in the northern Himalayas. The author admires the scenic grandeur of the region between them. Taking into consideration the topography of India, the clouds initially moved in an easterly trajectory to circumvent the tall hills, reaching the eastern extremities of the Vindhyas. The vapours reach a location known as 'Amarkuta,' which is believed to be in the vicinity of 'Ruttunpoor,' the principal city in the northern regions of 'Cheteesger'h. Amarkuta is positively identified with the present-day 'Amarkantakh' highlands (the mango peak). The names imply that mango trees are indigenous to the region. Since ancient times, the geography of Vindhya had mystified the Indian populace. According to the Amarkosa dictionary, the term 'Vindhya' is derived from the Sanskrit word 'Bind'hya' and means 'where the sun's progress is obstructed'. Therefore, one must acknowledge that the cancer tropic actually passes through the Vindyas. According to climatology, the apparent migration of the sun above is between the two tropics. One must appreciate the geography of Vindhya, as it has always provided a crucial foundation for historical events. This section extends westward from the Chotanagpur plateau and Palamau to the Gulf of Cambay. Its spur penetrates the Northern Indian plains in numerous locations and extends south to the Godavari River. The River Narmada traverses the Vindhya Range, its source being Amarkantakh, which is also the source of the Son and

Mahanadi. In ancient Indian literature, this region is frequently regarded as the dividing line between the 'Aryavarta' and 'Dravida' regions. The Vindhyas region significantly hindered the internal mobility of inhabitants within the Indian subcontinent.

Al Biruni's analysis of physical geography was commendable. In addition to describing the sociocultural aspect of Indian culture, he praised the physical geography of that region. Even though he never entered the interior of Kashmir, his inquisitiveness led to a thorough description of this region. He frequently employs the 'farsakh' scale to calculate the exact distance between cities. The Hindus frequently estimate that a "ox" could transport a load of between 2,000 and 3,000 mana, which is inconceivably more than an ox could carry at once. His fascination with cosmology and astronomy compels him to improve his spatial comprehension. In his accounts, he mentions calculating the latitude of Thaneswar and other similar locations. He also attempted to calculate the earth's circumference. In his accounts, the rainfall mechanism on the Indian subcontinent is mentioned. The rivers and mountains are described in great detail. The inhabitable world's boundaries have also been discussed.

According to the account, it was believed that the Southern Ocean was navigable. There is unambiguous acknowledgment of the Arabian Sea and the Bay of Bengal. When the account states that the sea protrudes into the continent in one location, it states the opposite in another. In addition, a description of the lands west of India from which slaves were imported is provided. It was believed that the source of the Nile was in the mountains of the moon. The precise location and existence of the Red Sea and the Persian Gulf were recognised. The waters bordering the Indian subcontinent were referred to as the Indian Ocean. The rivers that flowed from the mountains exhausted the fertile plains of India, which were described as being nourished. Geographically, Kanauj was the centre of mediaeval India. It was located in Madhya Pradesh. During those periods, this city was intended to be the political centre. This city was associated with the era's greatest champions and rulers. The nation of Sindh is located to the west. If one marches to the west of Sindh, the Sijistani region of Nimroz becomes accessible. To the extreme extremity of northwestern India are the mountains populated by warring insurgent communities. Kanauj's capital city is located to the west of the Ganges; however, after the invasion of Mahmud Ghazni's city, the city was left in ruins and relocated to Bari to the east.

The city of Kannauj, also known as "Kanyakubja," is well-known as the residence of the offspring of Pandu. Mathura, the adjacent city to Kannauj's south, is believed to be the birthplace of Lord Vasudeva. This city located east of the Yamuna River. It was determined

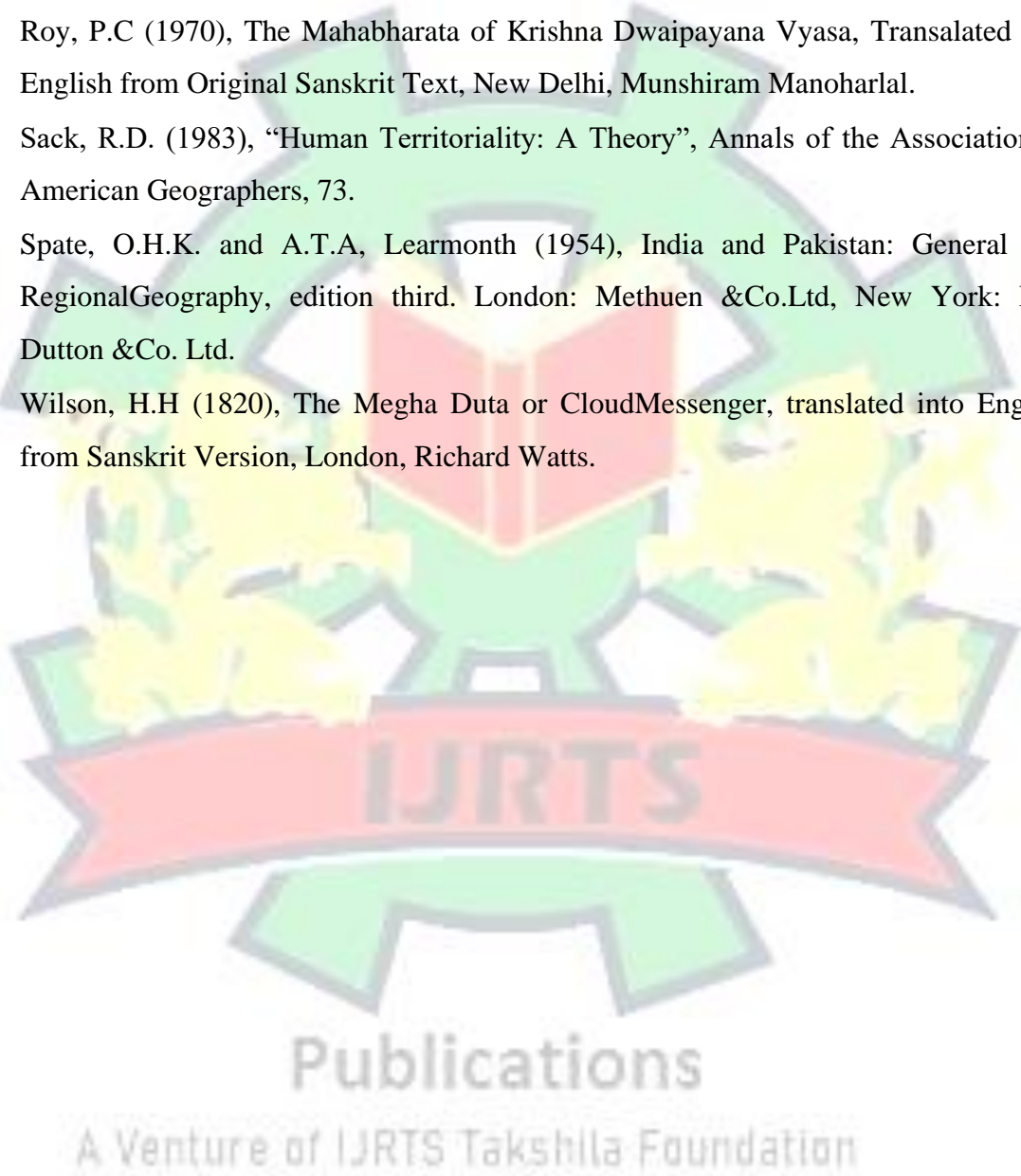
that the distance between Mathura and Kannauj was 28 farshak. Thaneswar, formerly known as 'Sthaneswar', is located between the north and south of Kanauj and Mathura. In Al Biruni's account, the source of the river Ganga is also referred to as "Gangadvara." The rivers of northern India originate in the elevated Himalayan Mountains. Moving east along the Ganges from Bari, the following stations are encountered: Ayodhya (Oudh), Banaras, Patliputra, Mungiri, Dugumpur, and finally Gangesagar. The accounts describe the route to Nepal and the commencement of Tibetan territory, where the anthropological characteristics of the populace change. When one marches to the north of Patliputra, one enters Nepal. The border between Nepal and Tibet commences at 'Boteswar', the northernmost point of Nepal. There is then a discernible change in the population's language, attire, and anthropological characteristics. While proceeding from the city of Kannauj to the south-east on the western side of the Ganges, one would reach the realm of 'Jajahutt; the purported capital of this nation was Khajuraho. Between the cities of Kannauj and Khajuraho are said to be two of the most significant mediaeval Indian forts, namely Gwalior and Kalanjar. When travelling south-west from Bazana, one encounters Anhilvara and Somnath on the coast. The march to the west from Bazana leads to the city of Multan, formerly known as "Mulasthana." The route between Kannauj, Kashmir, and Gazhna was well-established.

In his seminal translation of Al Biruni's 'Indika', Sachau provided a compelling account of Kashmir. Al Biruni acknowledged in his account that Mahmud Ghazni was unable to access Kashmir, but he did not visit the valley. However, his desire to learn more about this region compelled him to interview knowledgeable experts. With this knowledge, he realised that the majority of Kashmir's inhabitants were pedestrians and lacked riding animals such as horses and elephants. This could be due to the region's rugged terrain and inaccessibility. The privileged class there favoured riding in 'Katt'-branded 'palankins'. These katts were borne forward on the shoulders of the labourers. The residents of Kashmir were concerned about their regional identity, so they secured the valley's entrances and roads. Due to these factors, there was little commerce. In those days, only one or two Jews were permitted to reach their region. The rivers Indus and Jhelum were the most popular means of access to this region. The Al Biruni account possesses comprehensive knowledge of Kashmir.

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Modernization and its Level in Faridabad City

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Abstract

In the process of industrialization, urbanization and cultural social integration, people adopt modern outlook (due to education, improved income and status and women autonomy etc.) irrespective of their cultural values. The concept of modernization is a key issue to study the human behaviour which in turn becomes important to study different dimensions of modernity level. The whole mechanism of this process is very complex and need to be explored scientifically as how modern outlook is shaped in different dimension by different variables. The high positive association of the variables of education and health awareness status is significant enough to point out that a higher motivation in terms of education as well as health is associated with their awareness level of modernity. The awareness level in the city life depends on education and health awareness level. The population of low, very low and extremely low level of education resides in the slums or the village of industrial area. They are less access to education and health facilities in their conscious mind in spite of all education institution and health facilities available to them. In the present chapter an attempt has been made to examine variation in the household modernity level in Faridabad city.

Introduction

India is experiencing fast pace of modernization. Looking back, in global context, the industrial revolution had greatly changed the socio economic and demographic condition from traditional to modern society. These multi facet changes are still going on not only in western society but also in India. Modernity, a focal point of Interest in our time and a set of new and “man made” rationalized mechanisms and rules for human societies that naturally grow beyond geographical boundaries. The interrelated dimensions of modernity may be roughly grouped into “intellectual” and “institutional” categories. Modernity remains to be the major support and dynamic in keeping human society running. (Junqing Yi, 2006).

Modernity has to be seen as a new type of civilization or as a distinct civilization. The history of modernity is best seen as a story of continual development and formation, constitution and reconstitution of multiplicity of cultural program of distinctively modern institutional patterns; and of different self-conceptions of society as modern- of multiple modernity (N, 2001).

The evidences reveal that with the change of world scenario in terms of social, economic and cultural aspects of the human behaviour, the life styles are also changing. Though this change is seen both at rural level and urban level but the situation in urban context is more drastic. Due to varied economic patterns of the people, mass migrations, and industrial and commercial activities, a major change is taking place in life style of the urban scene of Faridabad city also. It is visible in the social and cultural domain of the family system and role of family members. A traditional society transforms, develops and modernizes due to external as well as internal factors. But the urban community belongs to different cultures but changes in their socio-economic status have more or less been common of having small family size which is responsible for the other characteristics and life style of family members.

Objectives

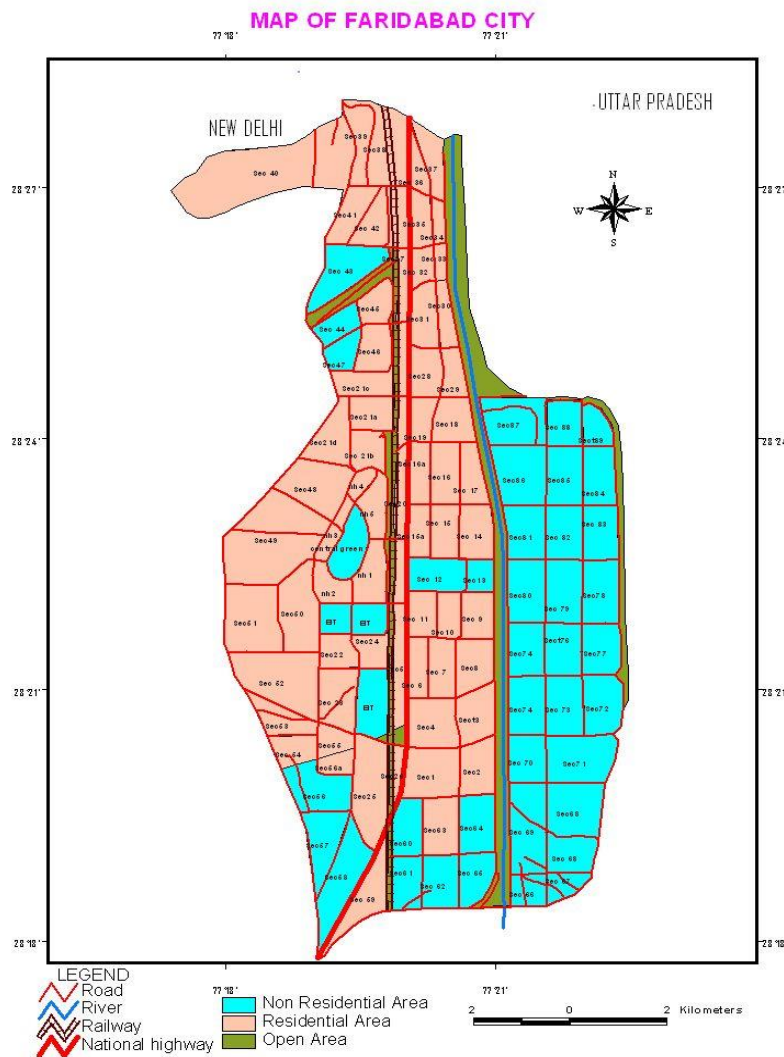
1. To study the different dimensions of household modernity level.
2. To examine the extent of variation in modernity level at household level.

The study area

Faridabad is an industrial city and a satellite town of Delhi NCR. The city is connected with other important parts of India and affected by many modernizing characteristics. The researcher belongs to this city which facilitated the collection of first-hand information of many socio-economic processes of the area.

The study area covers municipal cooperation area of Faridabad divided into different sectors. This area is planned to develop 91 sectors. But study covers only 63 sectors as unit of analysis developed for residential, industrial and commercial purpose Map-1. The villages and slums falling in the study area are also covered in the study.

Map : 1



Operational definition of Variables for Measuring Modernization Level

Income	Per-capita income
Female employment	Percentage of working women among aged 15-49 years of age group.
Size of house	Total area of the house in square yards
Index	Index of the different types construction material as explained in the methodology.

Number of rooms	Number of rooms per head
Number of bathrooms	Number of bathrooms per head
Kitchen modernity	Index constructed on the basis of kitchen equipment's used explained in the methodology
Level of education	Average number of years spent in the educational institution
General literacy	Percentage of literate persons above six years in all person above age of six years
Female literacy	Percentage of literate women above six years in all women aged above six
Women societal role	Percentage of women aged 15 years and above involved in Social (NGO), members of clubs and spiritual organizations and helping women of their neighbourhood.
Sex-ratio	Number of females per 1000 males
Women status	Percentage of women actively involved in household decision making in social and economic issues
Inter-spousal Communication	Percentage of married women who very often talk with their husband regarding sex, number of desired children and birth spacing etc
Mobility confidence	Percentage of women who can move around the neighbourhood, city and outside the city without any male or female companions
Female vehicle use	Percentage of women who most of time use scooter, car etc.to move from place to place
Female career level	Percentage of married women who are working hard

	to ascend in the career also improving their education qualification for the purpose
Approach to work	Percentage of married women willing to work outside the household for paid job
Female voting behaviour	Percentage of eligible female voters who cast their votes in the election.
Health approach	Index of approach the type of treatment which she adopt for any disease like allopathic homeopathic aurvadic, vaid/Hakim or home treatment
Delivery approach	Index of approach at the time of delivery a women has adopted like hospital, dai, none
Kitchen ventilation	Index of kitchen ventilation through proper window in the outer area of the kitchen, use of chimney, exhaust fan etc
Potable water availability	Index of water availability in the household
Fuel use	Index of fuel used for cooking purpose in the kitchen, electronic items like oven, rice cooker, solar cooker is in the highest category, L.P.G. gas is the next, gas stove and last is of lowest category of old model i.e. wood or cow dung etc use of coal,
Television	Percentage of television with cable or dish or Doordarsion facilities per household
Computer	Percentage of computer with internet facilities per household
Telephone	Percentage of telephone connections per household
Newspaper	Index of newspaper available daily in the household

Research and Methodology

The present study finds out the variation in the level of modernization at household level in Faridabad city. The indicators of modernization have been selected separately to examine the present status in their level first individually. The study is based on data from a small sample of 693 households and 63 sectors of Faridabad city. The level of modernization has been computed by applying the standard score techniques (Z score) Further the results of standard score obtained for the different indicators were aggregated in order to find out the composite index or composite standard score (C.S.S.) so that difference in the levels of modernization of various households and sectors may be obtained on a common scale. However, this small scale analysis cannot reveal the entire truth with the selected variables of different background. Despite these limitations, the present exercise has led to some valuable findings on the subject and relevant conclusions are drawn and mentioned here. GIS technology is used to prepare map of Faridabad city.

As secondary data was not available on all the indicators/variables, primary data is collected through field work conducted in Faridabad city. A random sample method is used for conducting the survey. The information of the study area is taken by using JNNURM project 2006 and municipal corporation office.

Sample Design

A sample design has been worked out giving consideration to the necessary requirements of the research objectives. Keeping in view the heterogeneous character of population of the city, two stage sample design has been adopted to select households for interview: selection of sectors in the first stage and that of households in the next stage. The selection of sectors was of great concern. The purpose of the present study is to analyse modernity outlook and compare with the other groups of different background. Seven major thrust areas have been considered: 1) Developed residential sectors -14, 15, 16; 2) Medium developed residential sectors- 21-B, 46; 3) less developed residential sectors- 49, 55; 4) Developed mixed residential sectors – 23 sector; 5) Jhuggi jhopries- 24, 25; 6) Old settlement – Old Faridabad (sector 18); 7) Sector with village coverage (Ajroanda) - 15- A. Therefore, the first consideration in the selection of sectors is on the basis of the development and other related feature.

Field Operations

The local help was obtained to conduct the survey. The entire field work was conducted during 2006-2007 at various intervals. As a whole, considering field work of four to five hours per day have been spent to complete the work.

Methods of Data Collection

Two different interviews, one for characteristics of the household in general and the other for the married women have been used to collect relevant information. Generally, both the interviews have been taken simultaneously, that of head of the household by the male investigator and that of the married women by female investigator. Before asking the questions, the respondents were told about the purpose of the survey and assured that the study had nothing to do with any official or political purpose. They had been further assured that the information collected about their families would bring no benefit and no harm to them.

A total of 693 households were covered in the survey. Of the total households of each sector 2 percent was taken in the sample survey. However, it is a fact that all selected households have neither been available nor willing to be interviewed. In that case, a household of the similar nature had been randomly selected from the observation and with the help of the member of the locality who have helped for conducting the survey.

The household data was collected for twelve sample sectors mentioned above. But the spatial level data was generated on the basis of field survey of all the 63 sectors. The information of these sectors was taken from the representatives of the area and then sectors of similar nature were identified and devised the data according to the data collected for the sample sectors.

Research and Discussion

Household Modernity Level

The measurement of modernization at household level has been done for micro level analysis. For this, twenty-eight variables have been selected at household level. The great variation in the data and large number of variables in present study, the principal component analysis was adopted for analysis and then z-score is calculated.

Factor Structure of Modernization in Faridabad City

Twenty-eight variables (indicators) (table 2) have been grouped under four sets such as material status, social and environmental awareness, and cultural aspects. Factor analysis of the twenty-eight variables which determines the modernity level of Faridabad city has yielded five factors which have been named as material and house modernity status, education and health awareness status, female modernity status, and level of female approach to career, level of women political approach (table-1) These five factors together explained (65.153 percent) of the total variance of modernity level. The contribution of each of the five factors in the total (65.153 percent) varies from one another. The first factor contributes 21.480 percent, the second factor 19.995 percent the third factor 11.913 percent, the fourth factor 7.490, and the fifth factor 04.275 percent to modernity level making a total of 65.153 percent (table -1).

Table: 1 Factor Structure of Modernity in Faridabad City, 2006-2007

Serial no.	Factors	Percent of Variance Explained	Cumulative Percentage
1	Material and House Modernity Status	21.480	21.480
2	Education and Health Awareness	19.995	41.475
3	Female Modernity Status	11.913	53.388
4	Level of Female Approach to Career	07.940	60.878
5	Level of Women Political Approach	04.275	65.153

Source: primary data collected from field survey 2006-2007

The loading of twenty-eight variables reveals that some of them are important in explaining the material and house modernity status, education and health awareness status, female modernity status, level of female approach to career and level of women political approach. For instance, household per capita income is important in first factor i.e. household modernity status but not in other factors.

Principal Component 1: Material and Household Modernity Status

Factor 1 explains 21.480 percent variance of modernity level (Table-2). It can be identified as the dimension of household modernity status. The household modernity status is determined dominantly by seven out of total twenty- eight indicators namely per-capita household income, television, computer, size of house, number of rooms and number of bathrooms, fuel use. Among the variables loading high on this factor number of bathrooms (0.892), size of house (0.870), number of rooms (0.869), television (0.821), computer (0.688) and per capita income (0.706) telephone (0.780) load positively.

Table-2: Principal Component-1: Material and Household Modernity Status

Group	Sub group	Variable	Component Loading
A Material Status	A Income	1.Per capita income	0.706
		2.Female employment	0.112
	b Housing	3.Size of house	0.870
	c Construction Material	4.Index	0.153
	d. Housing facilities	5.Number of rooms	0.869
6.Number of bathrooms		0.892	
7.Kitchen modernity		0.472	
B Social	a. Education status	8.Level of Education	0.352
		9.General literacy	0.124
		10.Female literacy	0.098

	b. Female wellbeing	11.Women societal role 12.Sex ratio 13.Status of Women 14.Inter-spousal Communication 15.Mobility confidence 16.Female vehicle use 17.Female career level 18.Approach to career 19.Female voting behaviour	0.476 -0.077 0.297 0.234 0.093 0.448 0.271 0.132 -0.068
C Environmental awareness	a. Health consciousness	20.Health approach 21.Delivery approach 22.Kitchen ventilation 23.PotableWater availability 24.Fuel use	0.403 0.053 0.307 0.213 0.405
D Cultural	a. Entertainment communication and general awareness	25.Television 26.Computer 27.Telephone 28.News paper	0.821 0.688 0.780 0.237

Source: primary data collected from field survey 2006-7

These indicate high quality standards of household enjoy with the basic household facilities which is closely related to per capita income of the household. This is further revealed by moderate positive loading of women societal role (0.476), kitchen modernity (0.472), and potable water availability (0.405) and low positive is measured by newspaper per head, (0.237). A negative loading is recorded by sex ratio (-0.077). As this negative loading seems to be more effective and important to say a positive and high loading of per capita income level but low sex ratio with this factor of material and house modernity status.

The dimension of the material and household modernity level places the emphasis on the material status and facilities as the prime component of environment against which the liability of an individual can be judged. In the Swedish case modernity is literally in the living room. The home is an arena for the construction of oneself as a subject in this particular version of modernity and it is intimately tied up with public and collective norms and values. The way in which modernity as a construct is embedded in the physical environment of the home. We live in are important to our existence as a social being. (Malmqvist Lars, 2007) This indicates that the availability of infrastructure and facilities are closely related to per capita income level change the level of modernity.

The modernized and high-income household females use all high modernize fuel quality items such as electronic, L.P.G., Solar fuel etc. Not only this but they make use of high level of entertainment, communication and general awareness source like television, computer etc.

Table-3 Principal Component -1 Material and Household Modernity Status

Sr. no.	Categories	Principal Component Score	Households	
			In Numbers	In percentage
1	Extremely Low	<-5.996375	5	0.72
2	Very low	-5.99638	156	22.51
3	Low	-3.59783	189	27.27
4	Medium	-1.19928	135	19.48
5	High	1.199275	78	11.25
6	Very High	3.597825	49	7.07
7	Extremely High	>5.996375	81	11.68

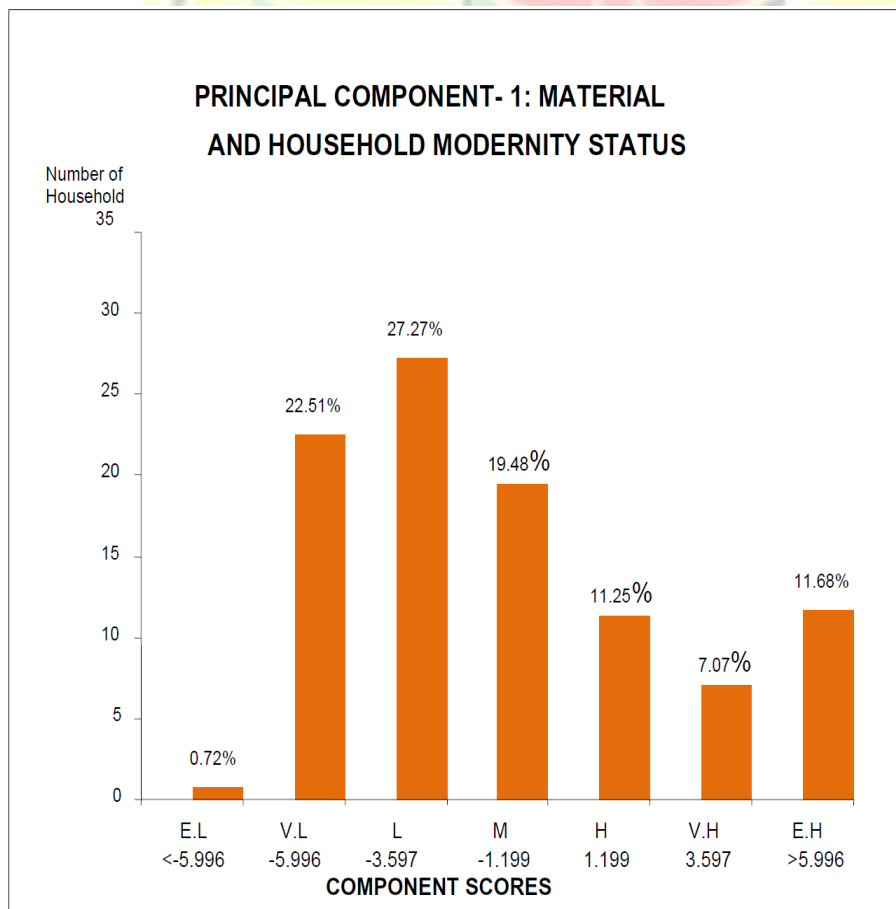
Source: primary data collected from field survey 2006-7

The level in which the material and household modernity status is measured in Faridabad city is shown at household level in the fig.1. The principal component 1 in the present figure 1 indicates that half of the number of houses is either fall in the lower status of modernity or very low status of modernity. 30 percent enjoys higher level of material and modern life style. Only 1/5 i.e 19.48 percent carry medium status of modernity. It means industrial city life though covers different level of material and modernity status but the proportion in the lower level is more in this structure of modernity as compared to higher level. This may also

relate to the fact that lower income group mostly residing in slums and unauthorized colonies and are located near or in the industrial zone of the city. They have come from other states like Rajasthan, Madhya Pradesh, Bihar, Uttar Pradesh and West Bengal. The other side the local people of Faridabad live in their villages are also not very well off except some families of the area. Their lands are acquired for the residential and other development of urban Faridabad. The uneducated people have joined the factories or offices in low paid income or running their small shops or transport activities.

The other high income group is business class who has developed the industries and the ancillaries. Some of them are high rank official in these factories or employed in government organisation and also other high paid jobs. The rest of the households of medium class are also residing in the city. Thus population have mixed culture in the city as many of the residents are immigrated at the time of partition or came later for the job or business purpose.

Figure 1



Source: primary data collected from field survey 2006-7

Principal Component: 2 Education and Health Awareness Status

Factor 2 is the second important dimension of the modernity level and explains almost as much as total variance (19.995) as the first factor (Table-4) education and health awareness status is mainly determined by nine variables namely potable water availability, level of education, general literacy, female literacy, newspaper, kitchen modernity, kitchen ventilation, index of construction material and health approach. The variables which load high or low express the interrelationship of education and health status. The sign as well as the magnitude of loading of these variables identify this factor as the dimension of education and health status. The highest positive loading is shown by potable water availability (0.785) which is followed by general literacy level (0.774) and equally high positive loading is shown by female literacy (0.759). The high loading of education level is also identified (0.703), index of construction material (0.744), health approach, kitchen ventilation, kitchen modernity shows positive loading (0.687, 0.644, 0.607) and newspaper (0.581). The high loading of these variables of education and health awareness status and express better inclination towards in the field of education and health awareness to support the modern outlook.

Table 4: Principal Component – 2 Education and Health Awareness Status

Group	Sub Group	Variable	Component Loading
A. Material Status	a.Income	1.Per capita income	0.071
		2.Female employment	0.052
	b.Housing	3.Size of house	0.207
	c.Construction Material	4.Index	0.744
	d.Housing facilities	5.Number of rooms	0.177
		6.Number of bathrooms	0.248
		7.Kitchen modernity	0.607

B. Social	a.Education status	8. Level of Education 9. General literacy 10. Female literacy	0.703 0.774 0.759
	b.Female wellbeing	11.Women societal role 12.Sexratio 13.Status of Women 14.Inter-spousal Communication 15.Mobility confidence 16.Female vehicle use 17.Female career level 18.Approach to career 19.Female voting behaviour	0.178 0.089 0.435 0.360 0.339 0.026 0.258 0.024 0.160
C Environmental awareness	a.Health conciousness	20.Health approach 21.Delivery approach 22.Kitchen ventilation 23.PotableWateravailability 24.Fuel use	0.687 0.302 0.644 0.785 0.435
D Cultural	a. Entertainment, communication andgeneral awareness	25.Television 26.Computer 27.Telephone 28.News paper	0.236 0.139 0.317 0.581

Source: primary data collected from field survey 2006-7

The dimension thus places emphasis on essential parameters of modernity of the city life. The most significant among these is loading of level of education, general literacy as well as female literacy. The relatively high and significant loading by education and health again underlines the importance of urban environment that is basic quality of the population of a settlement in its awareness level. The equally high positive association of the variables of education and health awareness status with this factor is significant enough to point out that a

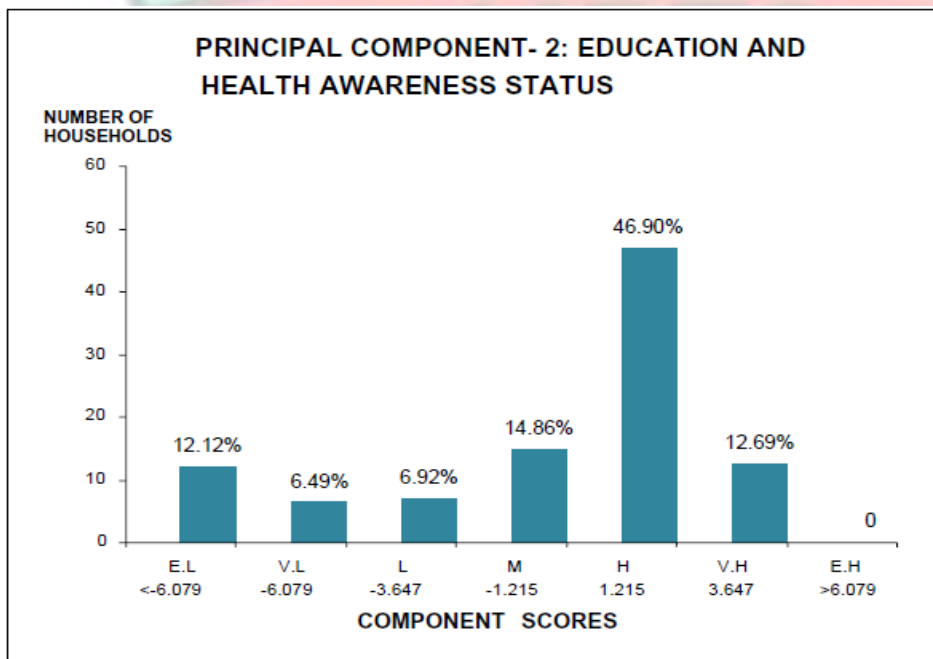
higher motivation in terms of education as well as health is associated with their awareness level of modernity. Education has an important function in the modernization of developing societies by inculcating new ideas and thought patterns to provide for change is the creative function of education (Bhatia Inderjeet singh, 2021).

Table-5 Principal Component -2 Education and Health Awareness Status

Sr. no.	Categories	Principal Component Score	Households	
			In Numbers	In Percentage
1	Extremely Low	<-6.079007	84	12.12
2	Very low	-6.07901	45	6.49
3	Low	-3.6474	48	6.92
4	Medium	-1.2158	103	14.86
5	High	1.215801	325	46.89
6	Very High	3.647404	88	12.69
7	Extremely High	>6.079007	0	0

Source: primary data collected from field survey 2006-7

Figure- 2



Source: primary data collected from field survey 2006-7

The above figure 2 of principal component score gives information regarding education and health awareness among the households. Sixty percent households enjoy very high and high education and health awareness level. Here, among 46.90 percent of households of Faridabad city has high level of education and health awareness. One fourth proportion of population in the households has low level of approach with regard to education and health awareness while 14.86 percent households show medium level of approach. The high level approach of education and health consciousness is related to the fact that the city is part of NCR and district headquarter of Faridabad where schools and colleges are easily approachable to every one. This can also be not denied to say it as hub of education and health facilities. Government has taken the initiative to open hospitals and dispensaries at a short distance. Even private hospitals and nursing homes are also not far off. Likewise, schools for girls as well as for boys are also opened by the government and private organizations. The non-government organization are also supporting to implement the government schemes like Sarve Siksha Abhian where labourers and maid servants' children are availing the opportunities to educate themselves and to fulfil the target of the government to educate all. The low level of education and illiteracy is more common among the labour class or factory workers who are migrated from different state or local people whose land has been acquired by the government. Health part of this section of society is also not satisfactory. Women of this section of society have no exposure to health. The family members are also not supportive in this matter. They are more concerned to wealth rather than health. The population of low, very low and extremely low level of education resides in the slums or the village of industrial area. They are less access to education and health facilities in their conscious mind in spite of all education institution and health facilities available to them.

Principal Component: 3 Female Modernity Status

Factor three accounts for 11.913 percent of the total variables and contributes almost as equal as the factor second factor (table 6). By virtue of moderate loading related to inter-spousal communication level, delivery approach, women societal role and mobility confidence, status of women and kitchen modernity, female vehicle use and the loading near to moderate female career level, these factors emerge as the female modernity status. The dimension is largely controlled by eleven variables namely female status level, female career level, mobility confidence, fuel use, kitchen modernity, working status for women, vehicle use, women communication level, women societal role, female literacy level, health status etc. But

significant high positive loading on this factor (female modernity status) is shown by four variables and the variables which have medium loadings, they are in conformity with the general direction indicated by other variables with low loading. The highest positive loading is shown by delivery approach (0.637), closely followed by inter-spousal communication level (0.597), women societal role (0.517) and female vehicle use (0.510) (table-6). The loading of other variables is further reinforced by the positive medium loading by female career level, mobility confidence, fuel use and status of women (0.479), (0.471) (0.464) and (0.445) but female literacy percent (0.183), female working status (0.102), working approach (0.115), reveals low modernity level of females of the city. The health approach loads negative small on this factor i.e (-0.006).

Table-6 Principal Component-3 Female Modernity Status

Group	Sub group	Variable	Component Loading
A.Material Status	a.Income	1.Per capita income	0.317
		2.Female employment	0.102
	b.Housing	3.Size of house	0.103
	c.Construction Material	4.Index	0.112
	d. Housing facilities	5.Number of rooms	-0.071
		6.Number of bathrooms	0.060
		7.Kitchen modernity	0.415
B.Social	a. Education status	8.Level of Education	0.333
		9.General literacy	0.275
		10.Female literacy	0.337

	b. Female wellbeing	11.Women societal role	0.517
		12.Sex ratio	0.269
		13.Status of Women	0.445
		14.Inter-spousal Communication	0.597
		15.Mobility confidence	0.471
		16.Female vehicle use	0.510
		17.Female career level	0.479
		18.Approach to career	0.115
		19.Female voting behaviour	0.348
C Environmental awareness	a. Health consciousness	20.Health approach	-0.006
		21.Delivery approach	0.637
		22.Kitchen ventilation	0.280
		23.Potable Water availability	0.001
		24.Fuel use	0.464
D Cultural	a.Entertainment, communication and general awareness	25.Television	0.089
		26.Computer	0.341
		27.Telephone	0.271
		28.News paper	0.289

Source: primary data collected from field survey 2006-7

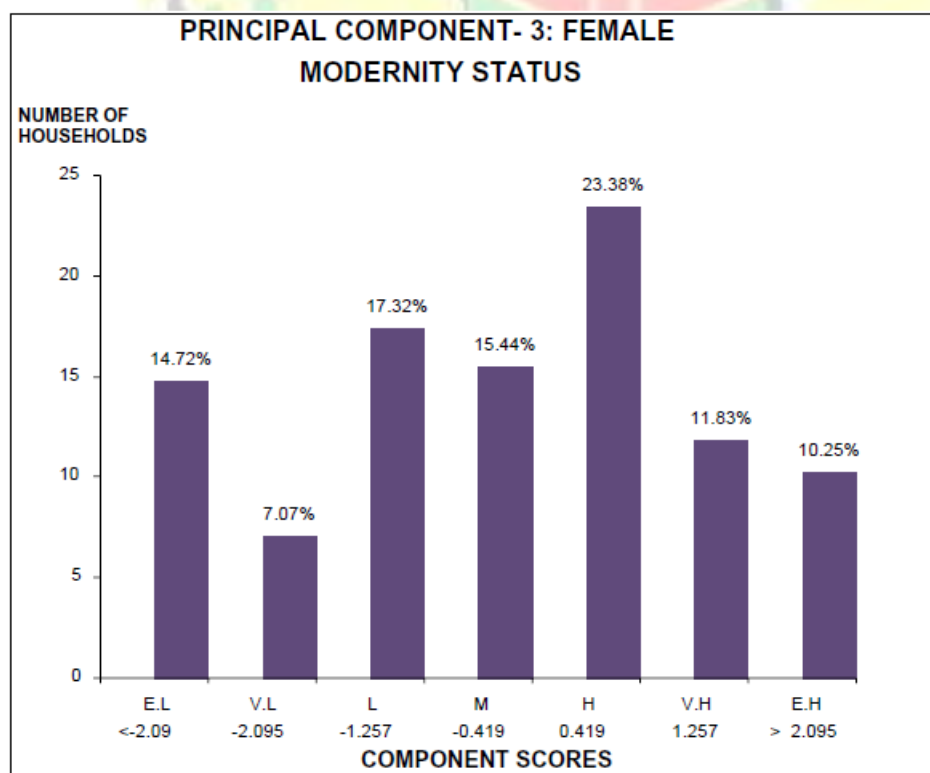
It can be understood the perspective of female attitude in particular and society in general. The status of women is one of important aspects to study in every era. The modern women are not living passive. (Sultanpur Manikamma Nagindrappa, Khan A.G., 2021)

Table-7 Principal Component-3 Female Modernity Status

Sr. no.	Categories	Principal Component Score	Households	
			In Numbers	In percentage
1	Extremely Low	<-2.095124	102	14.71
2	Very low	-2.09512	49	7.07
3	Low	-1.25707	120	17.31
4	Medium	-0.41902	107	15.44
5	High	0.419025	162	23.37
6	Very High	1.257075	82	11.83
7	Extremely High	>2.095124	71	10.24

Source: primary data collected from field survey 2006-7

Figure – 3



Source: primary data collected from field survey 2006-7

Thus the association with more contribution to delivery approach, inter-spousal contribution, women societal role and vehicle use but less awareness in respect of mobility confidence,

health approach and education level and less conscious of career among female show not much significance in their status and modernity level.

Figure-3 indicates that 45 percent of the households higher order female modernity status. 39.11 percent reveals lower female modernity status. Only in 15.44 percent households maintains medium female modernity status in their living. The figure shows that the city has equal proportion of very high and extremely high and also very low and extremely low. It means that if a proportion of households where females enjoy high modernity status in the family. Then it is also a fact that there are an equal proportion of households where females have low modernity status. It is observed during the field survey that young generation is more aware of this status and participate in the decisions of the families especially in case of nuclear families. In case of joint family, the power of decision making is in the hand of other family member and also in senior lady member. The females of slums and lower income group do not enjoy the status of equality in the decision making. In the higher income group, the situation is somewhat better but still male dominate in the important decisions of the family. They do share the viewpoint but final decision is taken by the male member as an earning source of the family.

Principal Component -4 Level of Female Approach to Career

The factor loading of level of female approach to career explains 7.490 percent variance of modernity level of Faridabad city. (Table-8) It can be described as dimension of female approach to career representing all the three sets of variables namely approach to career, female employment and female career level which load significantly on modernity level. The high loading variables on this factor are women approach to career (0.883), female employment (0.867) and medium loading of female career level (0.502) (table 8). This indicates the level of female approach to career in the city is high.

Table- 8 Principal Component-4 Level of Female Approach to Career

Group	Sub group	Variable	Component Loading
A. Material Status	a.Income	1.Per capita income	0.028
		2.Female employment	0.867

	b.Housing	3Size of house	0.070
	c.Construction Material	4. Index	-0.011
	d. Housing facilities	5.Number of rooms	0.122
		6.Number of bathrooms	0.107
B.Social		7.Kitchen modernity	0.024
	a. Education status	8.Level of Education	0.175
		9. General literacy	0.076
		10.Female literacy	0.104
	b. Female wellbeing	11.Women societal role	0.171
		12.Sex ratio	-0.029.
		13.Status of Women	0.244
		14.Inter-spousal Communication	0.112
		15.Mobility confidence	0.185
		16.Female vehicle use	0.213
		17.Female career level	0.502
		18.Approach to career	0.883
		19.Female voting behaviour	-0.047
C.Environmental awareness	a.Health conciousness	20.Health approach	0.021
		21.Delivery approach	0.049
		22.Kitchen ventilation	0.013
		23.PotableWateravailability	-0.005
		24.Fuel use	0.010
D Cultural	a.Entertainment, communication and general awareness	25.Television	0.086
		26.Computer	0.048
		27.Telephone	0.168
		28.News paper	0.092

Source: primary data collected from field survey 2006-7

The high and medium loading gives the level female approach to career. Besides career level loads moderate on this dimension, the status of women (0.244) loading is also not much high. The variable of female literacy (0.104) with low loading gives clear indication in this direction.

This reveals that inclination to earning is more but career is not strong aspect of their life in real sense. Their household duties and family responsibility are priorities rather to promote their own career in their life. But it is not that they do not think of their career. They think about their children career on top priorities. In the present scenario the expanded professional and educational opportunities have sometimes forced women to put off marriage and children until they start their career. Many women return to work shortly after having children instead of staying at home with their children. Then the requirement for proper adjustment within the family in the division of labour, more family friendly working policies becomes the demand of household in this regard otherwise domestic violence take the shape which is not acceptable to them. When women's career actions and expectations change, and changes are also occurring in career structures in organisations and families, then changes in career cultures will eventually follow. (Evetts Julia, 2000)

Table- 9 Principal Component-4 Level of Female Approach to Career

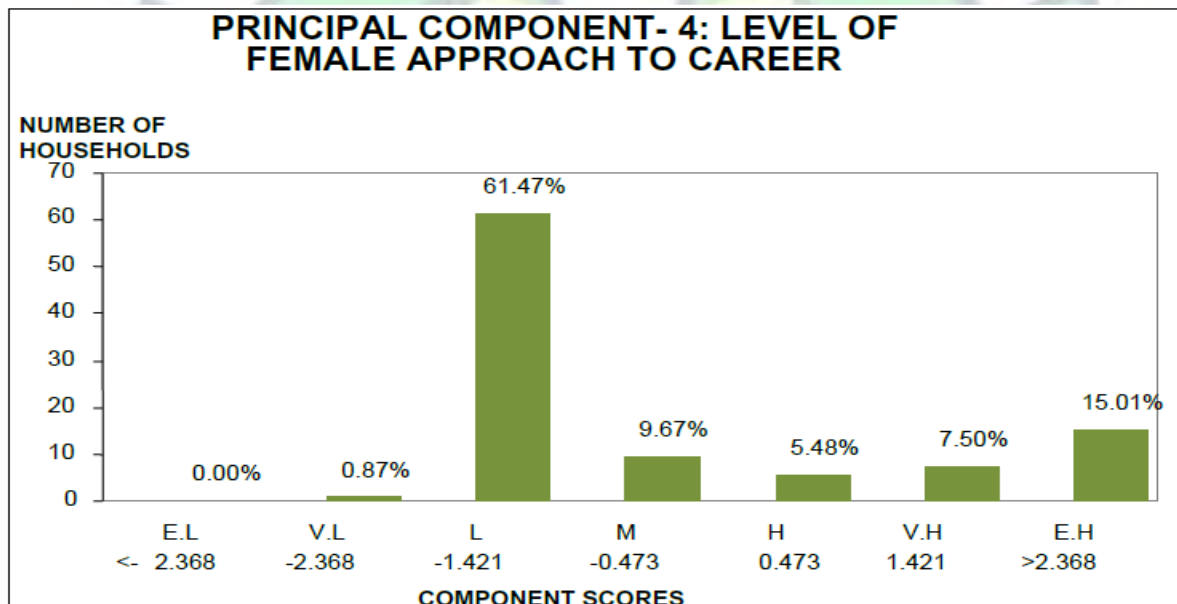
Sr. no.	Categories	Principal Component Score	Households	
			In Numbers	In Percentage
1	Extremely Low	<-2.368414	0	0
2	Very low	-2.36841	6	0.86
3	Low	-1.42105	426	61.47
4	Medium	-0.47368	67	9.66
5	High	0.473683	38	5.48
6	Very High	1.421048	52	7.50
7	Extremely High	>2.368414	104	15.00

Source: primary data collected from field survey 2006-7

The economic pressure for higher education of children and other necessities on household compels women to participate in economic activities and enter in career world. In the present scenario, the demand for two incomes is required to upgrade the life style of family. The

given diagram presents the female approach to career life of urban women at different level of modernization to fulfil the household requirements in Faridabad city. About in two third households the females are not willing to think about their innermost skill for their career or have low level and very low level of career approach. They are not ready to accept the urge of their soul in their practical life. They have just been the effigy of sacrifice for their family for the sake of better family relation. Females of 0 percent of households show extremely low level of approach towards career. On the other side of life of extremely high and very high approach to career is 22.51 percent i.e near to one fourth of the total households.

Figure: 4



Source: primary data collected from field survey 2006-7

And also medium with regards to career is only 9.67 percent in these categories i.e. one tenth approximately but 5.48 percent households share the high order of career orientation. But the maximum number of households i.e. 61.47percent households show low level of career inclination among the women. This indicates that the maximum number of women is still not conscious of their career. But this higher and medium career consciousness is not their own at the cost of their children.

Women as an individual member of household have strongly affected the household status as well as own lives as and when entered in the paid work. Consequently, change the socio-economic and cultural scenario of the household with the exposure outside the house.

PrincipalComponent:5 Level of Women Political Approach

This factor shares only 4.275 percent of the total variance (Table 10). The political status is determined mainly by female voting behaviour (0.675) But this is associated with other variables. This may be the fact that the high loading of political participation and low female literacy level shows that the education is not the influencing factor in political participation.

Likewise, economic status of per- capita income of household also does not contribute in the political activities. The other variable in this factor shows the sign of lower order loadings show that the variables are related to awareness or materialistic approach.

Table -10 PrincipalComponent-5 Level of Women Political Approach

Group	Sub Group	Variable	Component Loading
A. Material Status	a.Income	1.Per capita income	-0.037
		2.Female employment	-0.002
	b.Housing	3.Size of house	0.039
	c.ConstructionMaterial	4.Index	0.100
	d. Housing facilities	5.Number of rooms	0.101
		6.Number of bathrooms	0.008
		7.Kitchen modernity	-0.051
B.Social	a. Education status	8.Level of Education	0.017
		9.General literacy	0.041
		10.Female literacy	-0.046
	b. Female wellbeing	11.Women societal role	0.019
		12.Sex ratio	-0.711
		13.Status of Women	0.061
		14.Inter-spousal Communication	0.132
		15.Mobility confidence	0.331

		16.Female vehicle use	-0.063
		17.Female career level	0.010
		18.Approach to career	0.012
		19.Female voting behaviour	0.675
C Environmental Awareness	a. Health consciousness	20.Health approach	0.135
		21.Delivery approach	-0.095
		22.Kitchen ventilation	-0.078
		23.Potable Water availability	-0.030
		24.Fuel use	-0.119
D Cultural	a.Entertainment, communication and general awareness	25.Television	0.063
		26.Computer	-0.116
		27.Telephone	0.021
		28.News paper	-0.065

Source: primary data collected from field survey 2006-7

The participation of females in political activities is beyond their limitations as they are mainly busy in their family responsibilities. They are more confined to indoor environment and can go after the male decisions to cast their vote. They hardly take independent decision. Even then 31.75 percent of households which is close to one- third household do not show interest in political activities or have extremely low and very low level of political participation. And 8.51percent of households come in the category of low level of political participation. But politically motivated who might be guided by their husbands or family represented 19.77percent of household i.e. one- fifth of households. This might also be the representation due to reservation quota in Panchayat and Council seats and now have started taking interest in political activities of different economic strata of society 39.97 percent households are among the medium and high political participation. This political participation is not the question of education or income but it is the interest of the family members. The females do not participate in political world on their in the beginning of political career. Women's full participation and effective political participation is a matter of human rights,

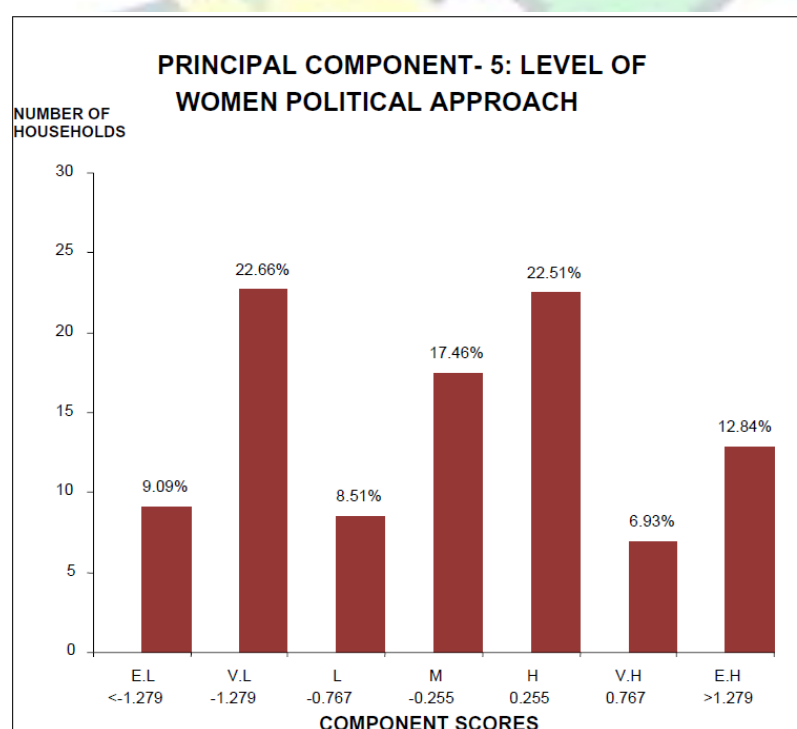
inclusive growth and sustainable development(OECD,2018a) (Mlambo Courage, Kapingura Forget, 2019).

Table-11 Principal Component - 5: Level of Women Political Approach

Sr. no.	Categories	Principal Component Score	Households	
			In Numbers	In percentage
1	Extremely Low	<-1.279697	63	9.09
2	Very low	-1.2797	157	22.65
3	Low	-0.76782	59	8.51
4	Medium	-0.25594	121	17.46
5	High	0.255939	156	22.51
6	Very High	0.767818	48	6.92
7	Extremely High	>1.279697	89	12.84

Source: primary data collected from field survey 2006-7

Figure-5



Source: primary data collected from field survey 2006-7

Composite Household Modernity Index

Adoption of modern outlook is demand of the day at individual level in particular and household level as a whole. The composite index bar indicates 21.07percent of household which is the highest percentage of household who have adopted medium outlook. This percentage is less on both the direction of this bar i.e. in higher side as well as lower side of the modern outlook (figure-6). But it is interesting to note that total higher order of percentage of household is more i.e. 40.98 percent of households than the total lower order percentage of household i.e. 37.95 percent of households who have adopted lower modern outlook in their day to day life and behaviour. Still percentage in the extreme level is more in the lower order than the highest order of modernity outlook i.e. lowest index of modernity mark the 12.12 percent of households and on the other side extremely high index of modernity have touched the 9.81 percent of households. It means that though the trend to adopt modernity behaviour is going towards the higher side but still the more percentage of households in the extreme low level lagged behind in the race of modernity outlook.

This portion of households might be covering in the slum or the village area which are converted into slums. They are not access to education and income source of household. It is also the fact that here the number of households is more than the households of posh areas in Faridabad city as a whole and thus sharing modernity level is also followed accordingly. This section covers the household belong to migrants as well as local people whose ancestor were the residents of Faridabad itself.

Table-12 Composite Household Modernity Status

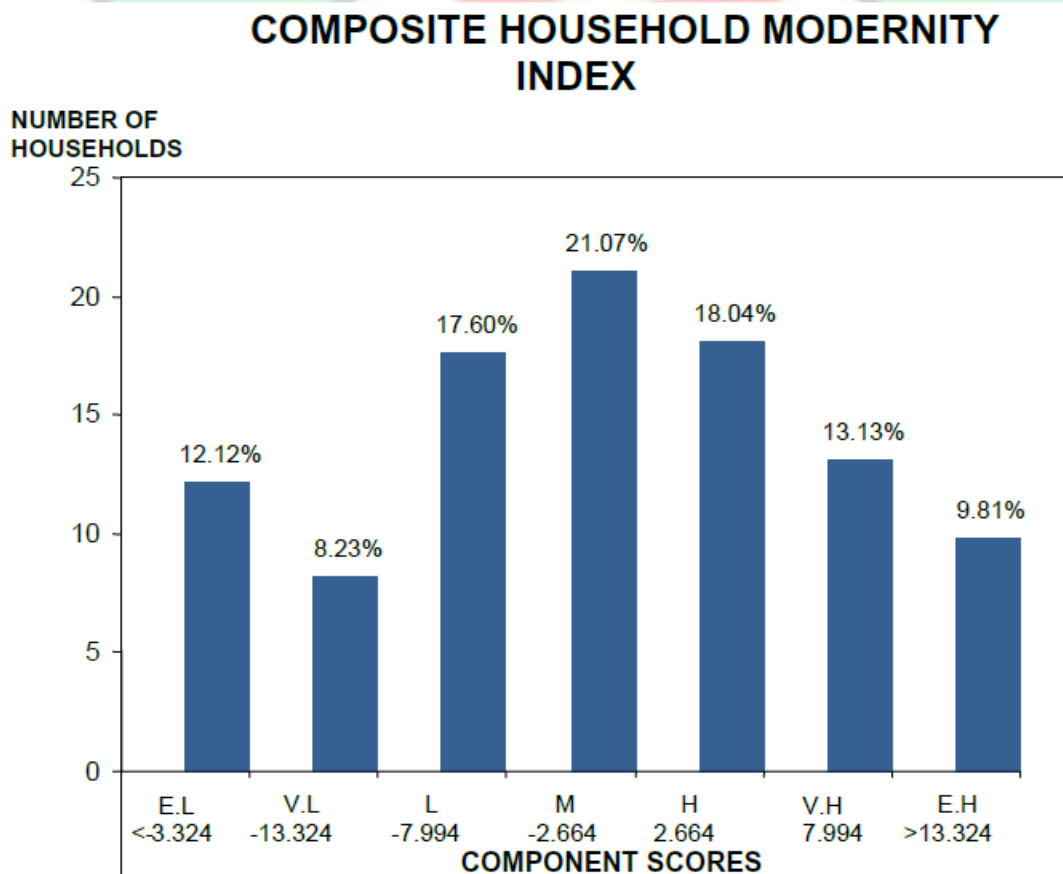
Sr. no.	Categories	Principal Component Score	Households	
			In numbers	In Percentage
1	Extremely Low	<-13.32431	84	12.12
2	Very low	-13.3243	57	8.22
3	Low	-7.99459	122	17.60
4	Medium	-2.66486	146	21.06
5	High	2.664862	125	18.03
6	Very High	7.994587	91	13.13

7	Extremely High	13.32431	68	9.81
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Source: primary data collected from field survey 2006-7

The higher order of modernity section of household, the education and income source are available to them. Thereby the high per capita income and high education level is observed in this group of households. Education in every sense is one of the fundamental factors of development. Education raises people' productivity and creativity and promotes entrepreneurship and technological advances. In addition, it plays a very crucial role in securing economic and social progress and improving income distribution. (Ilhan, Ozturk, 2008)

Figure -6



Source: primary data collected from field survey 2006-7

Conclusion

- 30% of the households enjoy high level of material and modern life style.

- The availability of infrastructure and facilities are closely related to per capita income level; and these change the level of modernity.
- The modernise and high income household females use all high modernise fuel quality items such as electronic, L.P.G., Solar fuel etc. Not only this but they make use of high level of entertainment, communication and general awareness source like television, computer etc.
- Half of the number of households either falls in the lower status of modernity or very low status of modernity.
- The dimension of education and health puts emphasis on essential parameters of modernity of the city life. The most significant among these is loading of education level, general literacy as well as female literacy. The relatively high and significant loading by education and health again underlines the importance of urban environment that is basic quality of the population of a settlement in its awareness level. The equally high positive association of the variables of education and health awareness status with this factor is significant enough to point out that a higher motivation in terms of education as well as health is associated with their awareness level of modernity. The awareness level in the city life depends on education and health awareness level.

Among 46.90 percent of households of Faridabad city has high level of education and health awareness. One fourth proportion of population in the households has low level of approach with regard to education and health awareness while 14.86% households show medium level of approach. The low level of education and illiteracy is more common among the labour class or factory workers who are migrated from different state or local people whose land has been acquired by the government. Health part of this section of society is also not satisfactory. Women of this section of society have no exposure to health. The family members are also not supportive in this matter. They are more concerned to wealth than health. The population of low, very low and extremely low level of education resides in the slums or the village of industrial area. They are less access to education and health facilities in their conscious mind in spite of all education institution and health facilities available to them.

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Publications

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Role of Women in the Construction Sector in India: Challenges and Opportunities

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Abstract

The construction sector in India has long been dominated by men. However, in recent years, there has been a gradual but significant shift towards greater gender diversity in the industry. This chapter explores the evolving role of women in the construction sector in India, highlighting the challenges they face and the opportunities for their empowerment and participation. The study employs a mixed-methods approach, including surveys, interviews, and a review of existing literature, to provide a comprehensive overview of the current state of women in the Indian construction industry. The findings suggest that while women continue to face obstacles in entering and advancing within the sector, there are encouraging signs of change and growth, emphasizing the need for concerted efforts to promote gender inclusivity in this vital sector.

Introduction:

The construction sector is a key driver of India's economic growth and development, contributing significantly to the country's Gross Domestic Product (GDP) and providing employment opportunities to millions of people. Traditionally, the industry has been male-dominated, with women underrepresented at all levels. However, the last decade has witnessed a gradual increase in the participation of women in various roles within the construction sector. This article explores the changing dynamics of women's participation in the Indian construction industry, shedding light on the challenges they face and the opportunities for their empowerment.

Background:

2.1 Gender Disparities in the Construction Sector:

Historically, the construction industry has been characterized by a lack of gender diversity. Women have often been relegated to administrative and support roles, while men have dominated positions in engineering, architecture, and skilled labor. This gender gap has limited opportunities for women in the sector, leading to their underrepresentation and exclusion.

2.2 Factors Driving Change:

Several factors have contributed to the gradual shift towards greater gender inclusivity in the construction sector:

- a. **Government Initiatives:** Government programs such as the Pradhan Mantri Awas Yojana and Skill India have encouraged skill development and entrepreneurship among women, making it easier for them to enter the construction sector.
- b. **Changing Social Norms:** Evolving societal attitudes and increased awareness of gender equality have influenced the perception of women's roles in the workforce, including the construction industry.
- c. **Economic Necessity:** The construction sector's continuous growth has created a demand for a larger workforce, leading to increased opportunities for women to participate.

Methodology:

This study utilizes a mixed-methods approach to analyze the role of women in the Indian construction sector. Quantitative data is collected through surveys administered to women working in construction-related roles, while qualitative insights are gathered through interviews with industry professionals and a review of existing literature.

Challenges Faced by Women in the Construction Sector:

4.1 **Limited Access to Education and Training:** Many women in India lack access to quality education and vocational training, limiting their ability to acquire the necessary skills for technical roles in the construction sector.

4.2 Stereotypes and Bias: Gender stereotypes and biases persist within the industry, affecting women's recruitment, job placement, and career advancement.

4.3 Safety Concerns: Safety concerns, including inadequate facilities for women workers and harassment at construction sites, create significant challenges for female employees.

4.4 Work-Life Balance: Balancing work responsibilities with family obligations remains a challenge for many women in the sector, as construction often involves long hours and temporary relocations.

Opportunities for Empowerment:

5.1 Skill Development Programs: Government-sponsored skill development programs should continue to target women, providing them with the necessary training to excel in construction-related professions.

5.2 Creating Inclusive Work Environments: Employers can foster inclusivity by implementing anti-discrimination policies, offering support systems for women, and providing safe working conditions.

5.3 Promoting Women in Leadership: Encouraging women to take on leadership roles and highlighting their successes can inspire more females to pursue careers in construction.

Conclusion:

The role of women in the Indian construction sector is evolving, with growing opportunities for their participation and empowerment. While challenges persist, initiatives at both the government and industry levels are working towards a more inclusive workforce. Gender diversity in the construction industry not only benefits women but also contributes to the sector's growth and development. By addressing existing barriers and promoting inclusivity, India can harness the full potential of its female workforce in construction, ultimately strengthening the industry and the nation's economy as a whole.

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A Quantitative Analysis of the Connection Between Decentralisation and the Effectiveness of Government Agencies

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Abstract

This quantitative study seeks to better understand how government entities do when given more autonomy. Government institutions work to improve their efficiency in a dynamic economic climate marked by globalisation, rising stakeholder expectations, and fierce market competition by cutting expenses, increasing the novelty of their offerings, and bettering the quality of their services. The primary purpose of this research is to investigate how decentralisation, a kind of human resource management (HRM), improves the efficiency and productivity of government organisations. In total, 240 people were chosen as the study's sample size. Participants came from a wide variety of government agencies and held a wide variety of positions within those agencies. The researchers took a quantitative approach and gathered information using standardised polls and questionnaires. The study's results showed that government organisations perform better after being decentralised. Organisational decentralisation was assessed by participants to be moderate, suggesting that authority has been delegated to lower levels. With a mean score of X for decentralisation, it appears that many different people have input into making important decisions.

Introduction

Both the provision of public services and the promotion of socioeconomic progress are greatly influenced by the operations of various government entities. This is particularly true in the case of the former. However, in a rapidly altering economic climate that is typified by globalisation, technological advancements, and increased competition, these agencies face mounting difficulties to enhance their efficacy and efficiency in order to remain relevant and successful. This improvement in their efficacy and efficiency is necessary in order for these

agencies to remain successful. One of the most significant components in effectively achieving these goals is the application of effective Human Resource Management (HRM) practises. These goals include things like increasing productivity, reducing turnover, and improving morale. In the context of human resource management (HRM), which is an integral component of the subject, what we mean when we talk about decentralisation is the delegation of authority and responsibility for decision-making from higher-ups to more junior employees. This occurs when higher-ups give more junior employees more decision-making authority and responsibility. In the context of government agencies, decentralisation is an initiative with the goals of empowering staff, improving responsiveness to local requirements, stimulating creativity and efficiency, and increasing overall effectiveness. By spreading decision-making power among government agencies, decentralisation has the potential to increase the efficiency of those agencies as well as their capacity to deliver high-quality services to the general public.

Significance:

It is of the utmost importance for decision-makers, public administrators, and human resource professionals to have a strong grasp of the connection between decentralisation and the efficiency of governmental institutions. This quantitative study provides helpful insights into the nature of the link in issue as well as the ramifications it has for the performance of the organisation. Specifically, the analysis focuses on how the connection affects the performance of the organisation. This study has the ability to produce evidence-based recommendations for improving HRM practises within the public sector. Those recommendations could help improve HRM practises. An investigation into the effect that decentralisation has had on departments and agencies within the government will provide the basis for these proposals. These insights can be employed by policymakers in order to formulate and put into action reforms that promote decentralisation, which will ultimately result in increased effectiveness and responsiveness on the part of governmental institutions. In addition to this, the findings of this inquiry constitute a contribution to the body of prior information addressing HRM in the public sector. As a direct result of this, our knowledge of the particular processes via which the influence of decentralisation on organisational performance may be broken down into more granular terms. These findings have the potential to inform future research initiatives and provide a platform for the establishment of comprehensive human resource management strategies that are adapted to the specific

demands and difficulties of government organisations. The significance of this study lies, ultimately, in its ability to have an impact on the decisions that are made about public policy, to improve the performance of government agencies, and, lastly, to boost the delivery of public services. If we first determine the fundamental factors that determine effectiveness in the public sector, we can then work towards the goal of building government institutions that are more efficient, responsible, and centred on the needs of the people they serve.

Literature Review

The capacity of a business to keep a competitive advantage is directly proportional to the efficiency with which it utilises its available human resources. The outcomes of the research-based approach to human resources serve as evidence of the method's efficiency, and the primary focus of the research-based approach to human resources is on how those resources can be put to use to tackle a variety of concerns and challenges. According to Amrutha and Geetha's findings, in the year 2020, in order for firms to keep their competitive advantage in a market that is highly competitive, they will need to draw from assets that are both unique and irreplaceable. For instance, Anwar and Balcioglu (2016) suggest that the success of a firm is dependent not only on the capabilities of its people but also on the ability of the organisation to quickly adapt new competitive models and methods. theories in which additional judgements are made regarding what to focus on in order to comprehend the organization's goals; comparable to the phrase "organising paradigm" used in strategic management. This hypothesis suggests providing greater weight to internal characteristics that contribute to a company's competitiveness over those connected to the external market and the short-term activities of competitors. Specifically, this hypothesis supports giving more weight to factors that contribute to a company's ability to innovate. The idea encompasses not just the world of the physical but also the realms of the psychological, organisational, and financial as well. (Yong et al., 2020) Workplaces, employee perks, and the capacity to recruit and retain individuals with greater levels of experience, knowledge, and ability are all factors that contribute to an employer's ability to attract and keep top talent. According to Sadikova (2020), businesses frequently miss out on the opportunity to fully capitalise on the capabilities of their workforce since those workers aren't operating at their most productive levels.

According to Hameed and Anwar (2018), the management responsibilities of strategic human resource management are connected to HRM's impact on the entirety of the compensation

and selection process, as well as HRM's skills inside an organisation. This was demonstrated through their research. According to Singh et al. 2020, one of the essential components of effective human resource management practises is the management of administrative concerns. Other essential components include the promotion of worker engagement, evaluation, application of knowledge and capacity preparation, employee training, and retention of personnel. This would imply that HRM policies cater to the strategic requirements of those participating in these basic areas.

Anwar and Ghafoor, (2017), in a study that was deemed relevant to this unit, highlighted the importance of elements such as uniqueness, markets, the capacity to adapt technology, access to capital, and the availability of large-enhancing scale in achieving success in today's intensely competitive markets. These factors are all essential in order to achieve success in today's markets. The effective management of a firm's human resources and the availability of those resources are two of the most critical factors that contribute to the success of a company. Despite the fact that a lack of insight into the capabilities of one's trained personnel is the main hurdle to continuous economic growth and profit (Troth & Guest, 2020), businesses with a focus on development in many nations are still searching for the finest human resource management practises. The findings of Abdullah and Othman (2016) indicate that the quality of an organization's practises regarding the management of its human resources has a significant impact on the productivity of that organisation. According to Anwar (2017), the productivity of an organisation can improve from the use of selective hiring practises. This conclusion receives additional support from the fact that success is correlated with particular recruiting practises. The advantages of investigating ways in which a workforce can be made more productive are not limited to the employees at the firm in question; doing so also assures that the requirements of the company's many stakeholders will be met. The author of this piece operates under the assumption that the techniques of training have some kind of influence on the end result. The author draws the conclusion that there is a positive link between training practises, and that employers that have employees whose training goals are accomplished have higher prospects for financial benefit, as well as greater job satisfaction for themselves. The most important thing to take away from this study is that pay scales and other types of compensation schemes have a strong connection to the performance of businesses. In contrast, the rewards are always an excessively large proportion of the stakes. This demonstrates that the premise that the success of a company is proportionate to the pay levels and compensation practises employed is not true. As a direct

result of this, the company made adjustments to its compensation and bonus systems, placing its bets on the theory that more parity in terms of pay and benefits would inspire greater output. According to studies, an increase in employee happiness leads to an increase in customer happiness as well. This occurs when employees are treated properly and given the opportunity to engage in HR management activities. Productivity and development are likely to increase when some individuals within the organisation are given substantial HR management responsibilities, and when an HR framework is developed, the practises of which favourably effect all of these jobs. In addition, communities express their gratitude to firms who embrace HR practises that integrate each and every one of these components. According to Costes and Stavroumba's argument, the degree to which an organisation is able to make efficient use of its available human resources is one of the most important factors in determining the level of that operation's overall performance. Productivity in the workplace has been found to rise when workplace practises are implemented that help government organisations. Not only does this apply to private persons, but it also applies to many government institutions. When evaluating their own performance, it is absolutely necessary for them to take into account factors such as employee retention, job security, the present administration, job preparation, and the quality of their work. Mohad came to the conclusion, after conducting extensive research on the subject, that salary and training play a significant part in determining the overall performance of a company. Hani and Jevti found that human resource management, management education, and employee compensation all had a significant impact on the overall success of an organisation. Additionally, human resource management had a considerable impact. The fundamental responsibilities of human resource management (HRM) include recruiting, hiring, training, and empowering new employees, as well as advocating for, obtaining, comprehending, and amassing support from existing workers. Additional responsibilities include recruiting, hiring, training, and enabling existing employees.

In many different types of organisational systems, human resources has long been recognised as the department that plays the most important role. The firm has nonetheless positioned itself as a forerunner in the practise of organisational makeover, despite the fact that its new image was brought about by international HRM. According to Othman and Abdullah (2016), human resources has had a significant impact on the success of these organisations, particularly in terms of the efficiency of their operations. The chance for employees to progress their careers by participating in management and training programmes that are

organised and run by the human resources department is one of the rewards that firms offer to the people who work for them. In addition to this, human resources is essential since it plays a role in the establishment of standards and processes across the organisation as well as inside individual departments. In addition, the role that HR plays in sculpting and publicising the company's ethos ought to have been given more prominence. In addition, Lombardi et al. (2020) examined how HRM affects the innovative capacity of businesses and presented their findings. In addition, they have reached a conclusion regarding whether or not this is connected to the ability to manage information. In order to grow HR management, new models for defining success are required. These models should include things like review, organisational competency, performance evaluation, and methods of well-expanding job measuring. According to Anwar and Qadir (2017), it is expected of managers of human resources to solve problems involving employees while also taking into account a diverse set of issues pertaining to the organisation. This category contains things like the availability of training and promotion chances, in addition to a wide range of career options. Employees, much like HR professionals, view competition as a driver for success. As a result of these improvements, which have proven to be effective in pushing workers to build skills and values that are aligned with the company's strategic goals, competition is seen as a driver for progress among employees. Due to the fundamental role that HRM plays in the cultures of today's most successful businesses, Sani conducted research on the relationship between strategic human resource management and the organisational success of Nigerian insurance companies.

HRM Practices

Human resource management encompasses a wide range of practises aimed at improving the management of an organization's people. 'Incentives', 'employee training', 'selective hiring (recruitment)', 'job security', 'decentralisation', and self-managed teams are all practises that we will examine in greater depth below.

1. **Incentives:** Incentives are financial or non-financial bonuses given to workers in exchange for specific behaviours or levels of performance. Bonuses, profit sharing, and performance-based pay are all examples of monetary incentives, whereas recognition, opportunity for professional growth, and work-life balance are all examples of non-monetary incentives. Offering rewards to employees has been shown

to increase morale, increase job satisfaction, and increase performance and productivity in the workplace.

2. **Employee Training:** Training employees entails giving them formal courses and other opportunities to learn new things and grow professionally. On-the-job training, workshops, seminars, mentorship, coaching, and online courses are all examples of what fall under this category of programmes. Companies who invest in their employees' training are able to boost productivity, morale, and employee advancement. Employees who have received enough training are better able to carry out their duties and adjust to new circumstances.
3. **Selective Hiring (Recruitment):** Recruitment, which includes selective hiring, is the method used to find and hire the best possible employees for a company. The goal of this method is to find employees who are qualified, compatible with the company's values, and a good match for the team dynamic. Selective recruiting practises help businesses choose high-achieving team members who share the company's values and will likely boost performance and output.
4. **Job Security:** The term "job security" is used to describe the guarantee given to workers that their positions will remain open for the foreseeable future. It entails fostering an atmosphere where workers are assured that their positions are safe from external threats like economic downturns and organisational reorganisation. Employees' motivation and output can benefit from greater job security since it encourages loyalty and dedication and decreases stress.
5. **Decentralization:** The term "decentralisation" refers to the practise of distributing power and responsibility for making decisions throughout an organisation down from the top. Employees and groups are given the freedom to act autonomously, within predetermined parameters. By encouraging flexibility, speed in decision-making, and sensitivity to local demands, decentralisation can boost organisational efficiency. It encourages workers to take initiative and take responsibility, which in turn can boost morale and creativity.
6. **Self-Managed Teams:** Self-managed teams are those in which the members take charge of their own workflow, tasks, and outcomes. Teams like these make decisions and solve problems with less oversight from higher-ups. Members in self-managed teams are more likely to work together, take ownership of their work, and support one

another. They help workers feel more in charge, which boosts productivity, innovation, and flexibility.

Research Methodology

- **Research Design**

This study employs a quantitative approach to research in order to look into how decentralisation affects the efficiency of government organisations.

- **Sample Size and Selection**

A total of 240 people will make up the study's sample. Purposive sampling was used to choose the sample, and it was designed to be representative of a wide range of government entities.

- **Data Collection**

Structured questionnaires were given to the sampled population to acquire the primary data. Items on the survey probed respondents' perspectives on decentralisation, organisational efficacy, and other pertinent characteristics.

- **Data Analysis**

Statistical approaches were used to analyse the data. The features of the sample were described using descriptive statistics including mean, standard deviation, and frequency distributions.

Inferential statistical methods, including correlation analysis and regression analysis, were used to evaluate the hypotheses and investigate the connection between decentralisation and the efficiency of the organisations studied.

- **Ethical Considerations**

All aspects of the study were conducted ethically. Participants' privacy and confidentiality were respected after they gave their informed consent. Ethical requirements and standards were followed throughout the study.

- **Research Limitations**

The study approach has some restrictions that must be taken into account. Concerns about the study's external validity stem from its small sample size and the fact that it relies on participants' own reports, both of which potentially introduce bias.

Table 1: Demographic Characteristics of Participants

Demographic Characteristic	Frequency	Percentage
Gender	Male	150 (62.5%)
	Female	90 (37.5%)
Age Group	20-30	60 (25%)
	31-40	100 (41.7%)
	41-50	50 (20.8%)
	51 and above	30 (12.5%)
Department	Department A	80 (33.3%)
	Department B	60 (25%)
	Department C	50 (20.8%)
	Department D	50 (20.8%)
Job Level	Entry-level	70 (29.2%)
	Mid-level	100 (41.7%)
	Senior-level	70 (29.2%)
Years of Experience	1-5 years	90 (37.5%)
	6-10 years	80 (33.3%)
	11-15 years	40 (16.7%)
	16 and above	30 (12.5%)

Table 1 provides a breakdown of the demographics of the study population. Statistics and percentages are broken down by variables such as gender, age, division, position, and length of service. Some context for the numbers in the table follows.

There were a total of 270 participants, 150 male (62.5%) and 90 female (37.5%). Participants were divided into age ranges. Among the participants, 100 (41.7%) were between the ages of 31 and 40. Sixty (or 25%) were young adults (defined as those between the ages of 20 and 30). Twenty-nine percent of the population was comprised of those between the ages of 41 and 50. Only 30 people (12.5%) were in the oldest age group of 51 and up. Participants were handpicked to represent a diverse range of government agencies. Department A had the highest number of participants (80) and the highest percentage (33.5%). Sixty participants signed up for either Section B (50%) or Section C (25%). Fifty individuals made up 20.8% of the overall sample size in Study D. The participants were broken down into three distinct groups: newcomers, experts, and seasoned pros. Out of a total of 100 participants, 41.7%

were considered to be middle-level employees. A total of 70 (29.2%) people took part, with representation from both entry-level and upper-level positions. Participants' levels of experience were sorted into distinct groups. Ninety persons, or three-quarters, all had less than five years of experience. Eighty persons (33.3%) have six to ten years of experience. There were forty respondents (16.7%) with 11-15 years of experience. There were only 30 people (12.5%) in the lowest experience bracket of 16 years or more.

Analysis and Discussion

Table 2: Descriptive Statistics

Variable	Mean	Standard Deviation
Decentralization	3.8	0.6
Organizational Effectiveness	4.2	0.4

Table 2 displays the descriptive statistics' means and standard deviations for the two important variables (decentralisation and organisational effectiveness). Government agencies are relatively decentralised, scoring an average of 3.8 on the decentralisation scale. There is some disagreement among respondents if the standard deviation is 0.6. Overall, participants had a favourable view of the organisation, giving it a mean score of 4.2 and a standard deviation of 0.4 on the effectiveness scale.

Table 3: Correlation Analysis

	Decentralization	Organizational Effectiveness
Decentralization	1.0	0.62
Organizational Effectiveness	0.62	1.0

The correlation between decentralisation and productivity in an organisation is examined in Table 3. The 0.62 correlation value indicates a good association between the two variables. This suggests a connection between a company's level of decentralisation and its productivity. Since the link is statistically significant, it's clear that the connection is not coincidental.

Table 4: Regression Analysis

Variable	Beta	t-value	p-value
Decentralization	0.75	6.20	<0.001

After controlling for other variables, the findings of a regression analysis showing the impact of decentralisation on organisational performance are presented in Table 4. If everything else

stays the same, it's estimated that for every unit of increased decentralisation, 0.75 units will be added to organisational performance. A t-value of 6.20 (p 0.001) indicates a statistically significant relationship between organisational decentralisation and productivity. Because of this, it is evident that decentralisation improves the efficiency of government institutions.

The data demonstrates a positive relationship between decentralisation and efficiency across all government entities. The findings point to a connection between empowering employees and decentralising decision-making as a route to higher productivity inside a business. The public sector's performance and responsiveness can greatly benefit from decentralisation as a strategic human resource management technique.

Findings of the study

1. Decentralization and Organizational Effectiveness

- The study found a significant positive relationship between decentralization and organizational effectiveness in government agencies.
- The participants perceived a moderate level of decentralization within their organizations.
- The mean score for decentralization was 3.8, suggesting that organizations had implemented some level of decision-making authority delegation.
- The mean score for organizational effectiveness was 4.2, indicating a relatively high level of perceived effectiveness among the participants.
- The correlation analysis revealed a moderate positive correlation ($r = 0.62$) between decentralization and organizational effectiveness, which was statistically significant.

2. Demographic Characteristics

- The study included 240 participants, with a gender distribution of 62.5% male and 37.5% female.
- Participants belonged to different age groups, with the largest group being 31-40 years old (41.7%).
- The majority of participants were from Department A (33.3%), followed by Department B, C, and D.
- Job levels were distributed among entry-level (29.2%), mid-level (41.7%), and senior-level (29.2%).

- Years of experience varied, with the highest proportion (37.5%) having 1-5 years of experience.

3. Limitations

- The research study focused on government agencies, and the findings may not be generalizable to other sectors or industries.
- The study relied on self-reported perceptions of decentralization and organizational effectiveness, which may be subject to bias.
- Other factors that could influence organizational effectiveness, such as leadership style, organizational culture, and external factors, were not explored in depth.

4. Implications

- The findings suggest that increasing the level of decentralization within government agencies may contribute positively to organizational effectiveness.
- Organizations should consider implementing decentralized decision-making structures and empowering employees to enhance performance and responsiveness.
- The study provides insights into the relationship between HRM practices (specifically decentralization) and organizational effectiveness in the context of government agencies, highlighting the importance of strategic HRM approaches in the public sector.

Conclusion

The efficiency of government agencies can be greatly improved through decentralisation. The research showed a positive correlation between decentralisation and efficiency, suggesting that when decision-making power is spread across, businesses become more efficient. There was an average amount of decentralisation, according to the research participants. This indicates that government agencies have taken measures to empower employees and increase their participation in organisational processes by delegating decision-making authority to lower levels. The results of this study stress the need for decentralisation and other strategic HRM practises in the public sector. Better performance and responsiveness can result from government agencies adopting decentralised decision-making systems and giving employees more authority. Insights on the nature of the sample can be gained from participants' demographic data such as gender, age range, department, employment level, and years of experience. Knowing these factors can help researchers evaluate their data and spot any discrepancies in opinion across demographic categories. It's important to keep in mind the

study's caveats, such as its narrow focus on government organisations and its heavy reliance on respondents' own reports. To increase the generalizability of the findings, future studies should use a larger representative sample and investigate additional factors that affect organisational performance.

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