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# Gender Bias in Mobile Phone Usage: A Case Study of Mukhra Village

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Abstract: Mobile phones have become a part and parcel of human lives nowadays, and are not gendered items, but women are excluded from accessing them. The notion of gender bias causes the material exclusion of women. This non-physical form of patriarchal notion would be visible in the physical form in every field of the society. The programme christened digitalization process in connection to gender equality cannot be successful unless there is a removal of the ideological bias.

Keywords: Gender Bias, Mobile Phone, Material Exclusion, Gender-Neutral

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#### Introduction

"The quickest way to get out of poverty right now is to have one mobile telephone" (Nobel Peace Laureate Muhammad Yunus (2003) stated at a conference on poverty and ICTs)

Information and communication technology (ICT) enables people to access numerous services digitally that removes the complete physical presence of people at the concerned offices and minimises usage of time of the services. The ICT phenomena have turned the world into a global village, in which people can connect with each other regardless of geographical distance. Nowadays, digital services are relocated to a mobile base, which means that the service further simplifies for people to access various services from their homes itself. The smartphone is considered a prominent digital device by which people can access online services. Therefore, usage of smartphones has been accelerated tremendously over the last two decades. In addition to that, internet penetration into the nooks and corners of the village

has been increased. On July 1, 2015, digital India emerged with a few objectives, viz. at least one person from a family should be trained as e-literate; and its ultimate aim is to turn the country into a knowledge-based information society. Under its objectives, there are a few substantial programmes initiated and one of them is "Bharat Net Programme, to reach out to one-lakh panchayats that embrace about 550 million people, with an ultimate aim of making them recipients of internet services (Mishra, 2018). As a result of this tireless effort, the number of internet users has increased tremendously in a short period of time.

Both the government and private agencies rely widely on internet facilities to disseminate information, which rapidly reduces time gaps and physical distance in the fields of agriculture and entrepreneurship. Further, a study noticed that it has enhanced support for empowerment of rural people, particularly women (Gupta and Arora, 2015). All state governments in the country are pursuing the goals set up under the mission and reaching out to people residing even in rural and isolated places, within their respective domains. For instance, Gujarat state has initiated and has been rolling out a digital program in Akodara village. As a part of this, it has set up CCTVs to monitor all the activities of the villages. Likewise, a digital village called Mukhra village in Adilabad District of Telangana State adopted this digitalization process, and encouraged all the villagers to have all monetary related transactions via Paytm. But gender inequality is still prevailing. A famous sociologist, Sylvia Walby, defines that patriarchy is "a system of social structure and practices in which men dominate, oppress, and exploit women"

### **Mobile Phone**

Mobile phone in the present era has turned into a necessary device, providing numerous services online. So that, it can enhance the living standards and nutritional levels of households, and gender equality among people. This can all be possible when women start to access this device' (Sekarbira and Matin, 2017). A macrolevel study that was carried out in 200 countries reveals that it reduces gender bias regarding both maternal and child mortality rates and also enhances contraceptive use (Rotondi, Ridhi, Luca, Simone, and Francesco, 2020). Presently, its usage has penetrated many fields, even in a fishermen's community. In this community, it eradicates a long-lasting communication gap that exists usually between the community and the market, that eventually drives them to be included in the booming of mainstream economy (Abraham, 2006). It has also impacted fields of agriculture, employment, education, health, and business, being noticed in a study

carried out among 418 respondents from 12 villages in the six districts of Bihar State (Mehta, 2016). It also favors women, which means about 93% of women from developing economic categories feel a sense of safety, security, connectedness, and assistance (the Cherie Blair Foundation for Women, 2010). So, the basic nature of mobile usage is to reduce gender bias.

#### Gender Bias

Mobile phones have become a basic necessity for households and can connect people across the world. Almost all households in the country possess at least one mobile phone. Individually, a few sections of households are unable to possess the device even in the 21st century because of financial unaffordability, gender bias, certain inherited norms in society, etc. In the case of gender bias, a study from 2015 revealed that men in low- and middle-income countries, and especially in South Asian countries, possess mobile phones and access internet services very rapidly when compared to women. Another study reveals that about 200 million women in India possess mobile phones, accounting for just 14% of such people in the world (Mariscal, Gloria, Urvashi, and Alina, 2019). Despite of being the most populated country in the world, about 79% of men and 43% of women in the country possess mobile phones (Mariscal, Gloria, Urvashi, and Alina, 2018). It clearly shows gender bias. Lack of mobile phone for women is a way of promoting gender inequality.

Prominent reasons for absence of ownership for women include low-income status, age, and the category of work they engage in, marital status, and so on (Rice and James, 2003). The lack of a mobile phone among them is considered a material exclusion, which is being influenced by patriarchal norms. In Mathura village, for instance, there is a presence of a village council that exercises overwhelming power over women and sometimes intervenes in their private lives, which causes women to omit ownership over mobile phones. By doing this, the council firmly believes that such restrictions secure their personal lives and enable them to be excellent in their studies (Mariscal, Gloria, Urvashi, and Alina, 2018).

#### Research Problem

Gender bias is not just confirmed by material unfairness for women but is a product of patriarchal social norms, i.e., nonmaterial norms. Lack of ownership of women over mobile phones connects to the root-cause of patriarchal norms and is not just material exclusion.

# Methodology

The village is geographically located 40 kilometers away from the headquarters of Adilabad District, Telangana State. It became famous for being the fourth-digital village in the state with a digital money-transaction by Paytm service. There are only people from two social categories viz., Madigas (SC) and Maraties (BC), residing together without any geographical segregation. Maraties are a prominent group in terms of numerical dominance and high social status, and possessing economical and political power whereas SCs are marginalized people. It studied various elements viz., educational status, economic level, ownership as well as access of mobile phone, and access to other services known as both Mee-Seva centers and public distribution shops (PDS). Respondents are selected randomly for the interview. The total population of the village was 700 people, from whom there were only 76 respondents selected for the study. They are equally distributed between these two genders as 38 respondents from each gender-group and all being pertained to an age-group of 18 to 35 years. The interview schedule contains both open and closed-ended questions.

#### Theoretical Framework

Henrietta Moore's book, "Feminism and Anthropology" (1988), explains gender differences connected with other social disparities. It views how the non-material aspect (ideological aspect) causes material vulnerability.

# **Data and Findings**

### Background of the Respondents

#### Education

Education is considered as a vital tool for empowerment of an individual and of society as a whole. The English language presently plays a prominent role in the mission of digitalization process through mobile devices. So, a higher level of education leads to people being equipped with advanced digital skills. The study depicts that a large segment of men have completed college-education whereas the majority of females remain illiterate or have just completed their schooling-education. So, males have more knowledge on the usage of mobile phones owing they

obtained the highest education with adequate English language based skills. There is a connection between adequate financial viability and ownership of a mobile phone. Based on empirical data, the respondents are broadly segregated into three major categories, such as agriculturists, non-agriculturists and non-earners or dependents. Agriculturists include both farmers and agricultural wage labourers whose income completely relies on seasonal earning and just fulfilling their survival needs. Non-agriculturists include business people and employees of both public and private sectors. They can somehow afford and purchase mobile phones. The final category is non-earners and dependents, who require others' support to obtain their necessities.

Sl. No.	Educational Qualification	Male	Female
1	Illiterate	0	5.3%
2	Schooling	36.8%	68.4%
3	College	63.1%	26.3%
	Total	100%	100%

**Table 1: Educational Qualification** 

As per the data shown in Table 2, a vast number of women are engaged in agriculture whereas men are more or less equally engaged in these two economic activities. They stated that agriculture does not provide them with a sufficient and regular earning but non-agricultural economical activity provide them with a better and sufficient earning. Hence, men earn a better economy as they are largely engaged in non-agricultural activity, which shows an economic shift for men from agriculture to non-agriculture, whereas for women, they are largely engaged in agriculture and allied activities and living on an unassured and irregular income.

Livelihoods S.No Male Female 1 47.3% 71.1% Agriculturist 2 Non-Agriculturist 29% 7.9% 3 Non-Earners 23.7% 21.1% Total 100% 100%

Table 2: Economic Activities of Respondents

### Income and Type of Occupation

The monthly earnings of a household engaged in agriculture and allied activities is just Rs. 5000 and below. But it is Rs.5000 and above, sometimes up to Rs.15,000

for households engaged in non-agricultural activity. Therefore, a large segment of males have engaged in non-agricultural activity and earning a better income that enhances their financial affordability and purchasing power.

S. No	Below	Rs.5000-	Rs.10000-	No	Total
	Rs.5000	10,000	15000	earning	
Agricultural category	47.3%	11.8%	0	0	59.2%
Non-Agricultural Category	0	13.2%	5.3%	0	18.4%
Not-working	0	0	0	22.4%	22.4%
Total	47.3%	25%	5.3%	22.4%	100%

Table 3: Income and Type of Occupation

### **Mobile Phone**

# Owning a Mobile Phone

Ownership of a mobile phone is determined by a few prominent factors noticed in the study, viz. income, education and gender. It is noticed that at least one person in a family owns a mobile phone, which is considered a positive sign towards the digitalization process. Males dominate in these three elements of better income, higher education and higher-social status. Therefore, a large segment of them owned mobile phones and are also able to access diversified services online through mobile phone. For instance, concerning gender-bias, a male child in a family possessed a mobile phone whereas a female who is older than him, pursuing a college education still relies over her brother's mobile phone if she wants to access her educational related information online.

# Type of Mobile Phone

The Internet and other sophisticated services only pertained to a few mobile phones, i.e. smartphones, whereas for feature phones, such advanced services are absent. Generally, low and middle income people cannot afford the price of a smartphone. But, economically affordable people can purchase/own this type of mobile phone. As per table-4, the data reveals that a huge number of females only possess feature phones which have limited services, whereas males possess smartphones which contain diversified and advanced digital services. Therefore, their accessibility to diversified digital services is so immense, comparatively.

S.NoType of Phone Male Female 23.7% Feature phone 31.6% 2 Smart Phone 73.7% 39.5% 3 No Mobile 2.6% 28.9% Total 100% 100%

Table 4: Mobile-Phone Type

# Type of Mobile Phone and Income

There is a firm association between income level and ownership of a smartphone. Households whose income level per month is Rs.5000 and below largely owned feature phones, whereas few households who earn above Rs.5000 per month possess smart phones. But a few families owned feature phones regardless of their earnings range between Rs.10,000 to Rs.15,000 per month. Hence, it is confirmed that there is an association between income level and the type of phone usage. But, owners of these phones are obviously males only.

S. No Feature Phone Smart-Phone No Mobile Below Rs.5000 22.4% 18.4% 10.5% 1 2 Rs.5000-10000 0 25% 0 3 Rs.10,000-15,000 3.9% 1.3% 0 4 1.3% 11.8% 5.3% No earning

Table 5: Income and Type of Mobile Phone

# First Preference in the Usage of a Mobile Phone

Not only ownership of a mobile phone, but how people access this device under a first preference is considered a note-worthy-aspect. They all agreed that they access this device exclusively to make calls to others under the first preference.

# Second, Preference in the Usage of Mobile Phones

Nearly three-fourths of men and below half of women respondents under second preference access mobile phones for various services that include WhatsApp, SMS, Youtube, Online Banking, Facebook, and News. Among them, respondents from both genders mostly avail WhatsApp service. In specific, men mostly rely on the services of WhatsApp, SMS, and Online Banking; and for women, such services include WhatsApp and Youtube as per Table-6. It also indicates that men are more active in being engaged in the digitalization service than females. Once, a large

percentage of villagers utilized Paytm service to transfer money online. Over a period of time, this service disappeared. Now, they rely on a digital person who pays hand-cash to people who approach him with an ATM card, in order to reduce physical visits to banks. For this service, he also charges a meager amount of money. It is another step in digitalization of the villagers.

S. No	Type of Phone	Male	Female
1	None	18.4%	55.3%
2	SMS	18.4%	0
3	WhatsApp	28.9%	13.2%
4	Facebook	7.9%	0
5	YouTube	7.9%	21.1%
6	Online banking	15.8%	5.3%
7	News Channels	2.6%	5.3%
	Total	100%	100%

Table 6: Second Preference Regarding the Usage of Mobile-Phone

#### Entertainment

Entertainment is a part and parcel of everybody's lives, especially, the lives of young people. It has no boundaries and is present everywhere in the world. In this regard, people in this village consider movies, songs and news, games as their primary entertainment elements. As per the table-7, men are largely engaged in entertainment than women, and women mostly with songs that are followed by movies, news, and games, respectively. For women, a foremost entertainment element is songs. Females are just a meager proportion in this regard due to limited access to smartphones. A few women respondents stated that their partners don't allow them to be engaged with this entertainment activity for a longer period because it is a part of their security purpose.

S. No	Type of Phone	Male	Female
1	Movies	55.3%	10.5%
2	Songs	78.9%	39.5%
3	News	44.7%	13.2%
4	Games	28.9%	0

Table 7: Accessing to Entertainment Service on Mobile Phone

# Duration of the Entertainment per Day

A large proportion of both men and women allocate two hours each per day approximately to this activity every day. In that context, the difference is that about 60% of men allocate one to two hours a day, while women stood at just 26.3% as per Table-8. So, it is confirmed that men largely allocate more than two hours a day. The stumbling block for uneven engagement of women in this regard is their dependency on their husbands' or male-persons' mobile phones.

S. No	Type of Phone	Male	Female
1	Less than one hour	23.7%	23.7%
2	One to two hours	57.9%	26.3%
3	Two to four hours	5.3%	0
4	None	13.2%	50%
	Total	100%	100%

Table 8: Duration of the Entertainment per Day

# The Mobile Phone Can Simplify Access to Several Online Services

A prominent fact is that mobile devices can offer several services online, which include money transfer to pay bills, listing songs, watching movies, accumulating knowledge, applying for jobs and so on. Regarding access to mobile-based online services, almost all respondents, including 89.5% of men and 94.7% of women, stated that mobile can simplify access to various online phones, and they are availing these online services from their homes itself.

A meagre proportion of respondents, i.e. 10.5% of men and 5.3% of women held negative perceptions towards this device usage. According to them, this online service sometimes causes unexpected expenses for its users. That further drives them into a debt trap. But, overall, they all hold a positive perception towards these mobile based online services.

### **Government Digital Programmes**

### Awareness of Mee-Seva Centres

Almost all respondents are aware of the Mee-Seva center, excepting three male-respondents (7.9%). In the case of the mee-seva app, respondents, i.e. 13.2% of men and 7.9% of women are aware of the app but not availing its service. People usually

approach these centres to access diversified online services. As per empirical data procured from the field, they have so far obtained a few services, in connection to Aadhar cards, caste and income certificates, withdrawing money, land documents, pensions, Jandhan Accounts and gas connections. An immense proportion of respondents from both genders approached these centres to obtain just two services; - Aadhar card and caste-income certificates, which are followed by the remaining services, respectively as per Table-9. As it is a mandatory service of the government, there is an absence of gender bias in this regard.

SL. No	Type of Phone	Male	Female
1	Aadhar	44.7%	50%
2	Certificates (caste and Income)	39.5%	23.7%
3	Withdraw Money	10.5%	21.1%
4	Land documents	2.6%	2.6%
5	Pension	0	2.6%
6	Jan Dhan's Account	7.9%	7.9%
7	Gas Connection	2.6%	0

Table 9: Purpose of Visiting Mee-Seva

#### Biometric Service

Nowadays, biometric systems have become a mandatory digital method for everybody to follow if they want to access certain services, viz., SIM card, gas connection, subsidies for rice at PDS shops, bank accounts, and so on. They all agreed that they availed the service at least once, mostly at PDS shops. On the contrary, a small proportion of women (5.3%) do not have such an experience yet. In this context also, there is absence of gender inequality.

#### Discussion

Gender bias appears in one or another form in society and is currently visible even in technology usage, which is basically a neutral aspect. The study noticed three prominent elements dominating over access to digital services through mobile phones, viz., economy, education and gender. Males are comparatively a dominant group in these elements in terms of being largely engaged in non-agricultural activities, having acquired a higher level of college education and holding a higher social position in society. These elements enabled them to have ownership over smartphones and to have an active engagement in the digitalization process though mobile phones.

### Conclusion

Gender bias is a common phenomenon in every society due to inherent patriarchal norms, but shocking fact is that it has penetrated every fields of society, even in the digital world, which is a gender neutral element. This non-material phenomenon detects materialized aspects. So, there is a need to dwindle or wipe out inequality, which has roots in non-material phenomena if society desires for equality among people, regarding to ownership of the devices and access to digital services.

#### References

- Abraham, Reuben (2006). Mobile phones and Economic Development: Evidence from the fishing Industry in India. *Information Technologies and International Development*. Pp. 5-17.
- Cherie Blair Foundation for Women (2010). "Women and Mobile: A Global Opportunity. London. Retrieved from http://www.cherieblairfoundation.org/uploads/pdf/women\_and\_a\_global\_opportunity.pdf.
- Gupta, Neeru and Arora Kirandeep (2015). "Digital India: A Roadmap for the development of Rural India", *International Journal of Business Management*, Vol. 2(2), pp. 1333-1342.
- Mariscal, Judith Gloria Mayne, Urvashi Aneja and Alina Sorgner (2018). "Bridging the Gender Digital Gap". Economic Discussion Paper, pp. 1-17, URL: http://www.economics-ejournal.org/economics/discussionpapers/2018-60
- Mariscal, Judith, Gloria Mayne, Urvashi Aneja and Alina Sorgner (2019). Bridging the gender digital gap, Economics, the open access, *Open Assessment E-Journal*, Vol.13, PP.1-13.
- Mehta, Balwant Singh (2016). "Impact of Mobile Phone on Livelihood of Rural People". *Journal of Rural Development*, Vol. 35 (3): 483–505.
- Mishra, Ayush (2018). "Tele-Medicine: A New Healthcare Opportunity", *Journal of Kurukshetra*, Vol.67 (01), PP. 50-53.
- Rice. E, Ronald and James E.Katz (2003). "Comparing Internet and Mobile Phone Usage: Digital Divides of Usage, adoption and Dropouts". *Telecommunications Policy* 27, PP. 597-623.
- Rotondi, Valentina, Ridhi Kashyap, Luca Maria Pesando, Simone Spinelli and Francesco C. Billari (2020). Leveraging mobile phones to attain sustainable development. Proceedings of the National Academy of Sciences of the United States of America, June 16, Vol.117 (24), PP. 13413-13420.
- Sekarbira, Haruna and Matin Qaim (2017). "Can mobile phones improve gender equality and nutrition? Panel data evidence from farm households in Uganda". *Food Policy*, Vol. 73, pp. 95-103.