

WOMEN ENTREPRENEURS IN INDIA- CHALLENGES AND OPPORTUNITIES

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Abstract

Purpose: This study highlights the need of Women concept and Entrepreneurship and explores the impact of Challenges and Opportunities on the overall "success of women entrepreneurs in India". The independent variables encompass "the challenges faced by women entrepreneurs", including Gender bias, funding limitations and limited networking as well as the Opportunities available such Government support, digital as platforms and growing industries. The study's focus is streamlined into a single dependent variable "Overall Success of Women Entrepreneurs", which captures a comprehensive measure of business growth, financial viability, empowerment, and societal influence

Methodology: A structured questionnaire administered to 243 was women business owners, and "the data was examined by using "Partial Least Squares Structural Equation Modelling" ("PLS-SEM") technique. Statistical analysis was performed using "SPSS version 27" and "Smart PLS 4". For this study targeting Women Entrepreneurs in the Delhi NCR region, "a purposive sampling technique was employed".

Findings: By examining the relationships between challenges, opportunities, and overall success this paper offers insights into the dynamic interplay shaping the trajectory of "women entrepreneurs in India". The findings contribute to understanding the factors that drive and hinder women's entrepreneurial endeavour, even within the limited time frame.

Implications: This study provides significant contributions to theory, literature, and practical applications. Firstly, it introduces a conceptualization of women's empowerment variables and assigns measures to them, utilizing the adaptable nature of these factors, which encompass opportunities, challenges, and the environments affecting women.



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1. INTRODUCTION

Empowerment has garnered attention various fields, across including psychology, education. and planning/development studies, with its potential to address social injustice. Empowerment is at the forefront of a transition towards alternative an development paradigm focused on people and their environment rather than merely production and profits, according to "Friedmann (1992, p. 31)". "A woman entrepreneur can be defined as a woman who takes the initiative to create and manage a business venture, all while being prepared to face risks and uncertainties, as outlined by Manerkar (2015)". Women's entrepreneurship faces distinctive and formidable challenges in developing countries, primarily due to a combination of limited opportunities, resource constraints, and unique societal issues. Numerous studies, including those by Panda and Dash (2014) and Verheul et al. (2006), have shed light on these challenges. "Chaudhry and Paquibut (2021)" described the features of women entrepreneurs in Oman, their economic contributions, plans, and challenges, including "limited market access", "domestic responsibilities", limiting

their online presence, and a "lack of expertise" in "social media marketing". "Structural equation modelling (SEM), or path analysis, is a multivariate method used to test hypotheses regarding influences the among variables". interacting (Statistical Parameter Mapping, Academic press 2007). There are "two types of SEM estimators": "covariance-based" and "variance-based" estimators. "Covariance-based SEM" is often used when researchers have a well-defined set of observed variables and want to examine how they interrelate to test hypotheses. Variance-based specific SEM, on the other hand, is commonly when researchers employed are interested in exploring latent constructs that may not have directly observable indicators. "Partial least squares path modeling" ("PLS-PM") is a commonly used "variance-based estimator" (Bollen, K.A. 1989). The complex theoretical models developed using SEM are typically validated using collected data, known as model-data fit. This study aims to employ both "CB-SEM" and "PLS-SEM" to assess the impact of Opportunities and Challenges on Women Entrepreneurs.



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"Conceptual framework and research hypotheses of the study":

Using the arguments presented above, we may strengthen the hypothesis for the Impact of Opportunities and Challenges empowerment of women's entrepreneurs:

"Hypothesis 1 (H1)". The perceived empowerment of "Women Entrepreneurs" is "positively related" to the perceived opportunities available to them

"Hypothesis 2 (H2)". The perceived empowerment of "Women Entrepreneurs" is "positively related" to the perceived challenges faced by them The research theoretical model (Figure 1) presents a synthesis of the research hypotheses.

2. "MATERIALS & METHODS"

This study employs a "quantitative research approach", primarily focusing on an exploratory research design. The primary objectives involve evaluating the proposed model's predictive capabilities. To achieve these goals, "the study utilizes the Partial Least Squares Structural Equation Modeling" ("PLS-SEM) approach". Furthermore, the study intends to conduct a "confirmatory

factor analysis" using CB-SEM to ensure the model's adequacy before proceeding with "PLS-SEM techniques" to assess measurement and structural models and conduct other specified tests mentioned earlier. The variables used in the study were drawn from established scales related to empowerment and entrepreneurship that were identified in the literature review. The scale was modified to fit the study context. The three constructs in the study, viz. Opportunities, Challenges, and Perceived Impact Women on empowerment have fives items each. "Using a five-point Likert scale", participants were asked to assess the level of agreement on each variable "1 =strongly disagree"; "5 = strongly agree". For this study targeting Women Entrepreneurs in the Delhi NCR region, a "purposive sampling technique" was employed. The empirical "data for the study was online collected via a selfadministered questionnaire".

"G*Power software" was used to determine the "sample size" required for our model. The input included "F-Tests", "Linear multiple regression", "fixed model", and "R² increase". The alpha value was taken as 0.05, statistical power, 95 % and number of predictors



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as 2. "A total of 300 questionnaires were distributed for this study, and 270 were returned with a 90% recovery rate". The collected data were first examined for "unengaged response bias". Twenty-five respondents were removed after they were found to be using "straight-lining" method in their responses and hence were "unengaged". The confidentiality and anonymity of all the women's responses was guaranteed (Salancik and Pfeffer 1977).

On 71 samples, the questionnaire underwent a pilot test. To make sure it was clear, it was assessed by five business professionals and five academics. To investigate "common method variance (CMV)", "Harman's single-factor technique was" examined using "SPSS version 27". "Exploratory factor analysis (EFA) was used to disclose all research variables", and the extracted decision of each factor was set to 1 without rotation. A single dimension thus accounts for 37.1% of the variation. All of these methods concur that "CMV is not an issue in this research". The results of the pilot study also indicated a good reliability (Cronbach alpha = 0.874) and Validity (Three factors extracted with an eigen value more than 1.0 and explaining more than 66 percent of variances in the items). The results indicated slight deviation from the normal distribution – both Kolmogorov and Simonov and Sharpio Wilks tests having values less than 0.05). However, considering the fact that the deviations from normality were small and sample size is large (more than 200) no changes were done in the questionnaire or research design. Given the intricacy of the constructed framework, "CFA" and "SEM" in "Smart PLS version 4.0.9.5" were used to analyze its structural characteristics.

3. RESULTS

3.1 Descriptive statistics -

Survey responses were collected from 300 women entrepreneurs of which 243 were acceptable data quality with an effective rate of 81%. Among them, 66.3 % of the "respondents" were married, 67.1% of the "respondents were in the 25–45 years range", 37.4% "of the respondents" in the income are in the range of 40000 – 60000, while 30.5 % were in the 20,000 – 40,000 income groups., and 73.3% of respondents were graduates. Moreover, the experience of respondents ranged from 28.8% in 0-2 years, 35 % in 2 to 4 and 30% in 4–6-year groups.

3.2 "Measurement Model assessment"



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						OP					
Explo	rator	y facto	or analy	sis (EFA))	OP2					
	"L					<-	0.6	0.68	0.05		0.0
	oa					OP	89	4	2	13.241	00
	din	"Lo				OP3					
	g's	adi	"Sta			<-	0.7	0.77			0.0
	Or	ng's	ndar			OP	76	3	0.05	15.485	00
	igi	Sa	d			OP4					
	nal	mpl	devi	"Т		<-	0.8	0.83	0.03		0.0
	sa	e	atio	statisti		OP	27	1	5	23.905	00
	mp	mea	n	cs	"P	OP5					
	le	n	(ST	(O/ST	val	<-	0.6	0.66	0.05		0.0
	(0)	(M)	DEV	DEV)	ues	OP	64	6	8	11.494	00
	"	")"	"	"	WE					
CH1						1 <-	0.6	0.65	0.06		0.0
<-	0.5	0.58	0.05		0.0	WE	67	9	4	10.392	00
СН	87	5	7	10.268	00	WE					
CH2						2 <-	0.7	0.75	0.05		0.0
<-	0.7	0.79	0.04		0.0	WE	56	1	2	14.521	00
СН	92	3	4	17.969	00	WE					
CH3						3 <-	0.7	0.75	0.05		0.0
<-	0.8	0.83	0.03		0.0	WE	6	8	9	12.904	00
СН	37	7	2	26.426	00	WE					
CH4						4 <-	0.7	0.78	0.04		0.0
<-	0.8	0.80	0.03		0.0	WE	82	2	2	18.439	00
СН	1	9	6	22.697	00	WE					
CH5						5 <-	0.7		0.05		0.0
<-	0.7	0.78	0.04		0.0	WE	09	0.71	9	11.992	00
СН	86	3	2	18.694	00	L	.	•	.	I	• <u> </u>
OP1	0.6	0.62	0.05		0.0	The	measu	rement	t mode	analysi	is as
<-	31	7	1	12.417	00	given	in	table	1 india	cates a	good
·											

measurement model with high and



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significant factor loading of the items with corresponding constructs, and tvalues greater than 1.96.

Model fit - The study's measurement model was assessed for its validity and reliability using a first-order Confirmatory Factor Analysis (CFA) conducted with Smart PLS 4.0 CBSEM Module. "The results, as shown in "Table 2", indicate that the model offers a "satisfactory explanation" of the data.

Table No.2

Model Fit

Model f	ït (CFA)			
	Esti		*Acce	Refer
	mate		ptance	ence
Fit	d	Null	Criteri	
Indice	mode	mod	a	
S	1	el		
Chi-	206.2	1874		
square	7	.574		
Numb				
er of				
model				
param				
eters	33	15		
Numb				
er of				
observ				
ations	243	n/a		

Degre				
es of				
freedo				
m	87	105		
			>0.05	Ноор
р -		0.00		er et
value	0.000	0		al.,
			<3	Ноор
Chi-				er et
Square		17.8		al.,
/df	2.371	53		
			< 0.08	Brow
				ne
				and
RMSE				Cude
А	0.075	n/a		ck
			>0.90	Jöres
				kog,
				Sörbo
GFI	0.904	n/a		m
			>0.90	Jöres
				kog,
				Sörbo
AGFI	0.868	n/a		m
			>0.50	Ноор
				er et
PGFI	0.655	n/a		al.,
			< 0.05	Brow
				ne
				and
SRMR	0.047	n/a		Cude



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				ck	WE	0.854		0.854		0.855
			>0.90	Bentl	Disci	iminar	nt Validit	y		
				er,						
				Bonn						
NFI	0.89	n/a		et,						
			>0.90	Ноор						
				er et						
TLI	0.919	n/a		al.,]	fable No.	
			>0.90	Hair	4					
CFI	0.933	n/a		et al.,	Forne	l and				
	272.2		Small		Larke	r				
AIC	7	n/a			Criter	ia				
	387.5		Small				СН	OP	WE	
BIC	41	0			СН		0.767			
<u> </u>		<u>I</u>	1		OP		0.658	0.721		

Construct reliability and validity

All the constructs were found to have high values of Cronbach alpha, Rho_a and Rho_c (>0.80) indicating good internal consistency and reliability. "The AVE values greater than 0.50 indicates good construct validity", as given in the "table 3 below":

Table No. 3

"Construct Reliability and Validity" -

"Cronbach's

(unstandardized)

alpha"

0.872

0.839

"Cronbach's

(standardized)

alpha"

0.873

0.841

CH

OP

Fornell and			
Larker			
Criteria			
	СН	OP	WE
СН	0.767		
ОР	0.658	0.721	
WE	0.353	0.479	0.736
НТМТ			
Ratio			
	СН	ОР	WE
СН	-	-	-
ОР	0.659		-
WE	0.364	0.496	-

Two methods **WAVERAGIO** yed "to assess "Gisenipositet valiation of irst, "the square neliabilityhe "AVMERAGE deach dimension (sthould)" be greater VED?" the correlations (sthould)" be greater value of the correlations (sthould)" be greater

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to establish "discriminant validity, the HTMT Ratio" for each dimension should not exceed 0.85.

The results in tables 4, given below indicate good discriminate validity for the model.

3.3 Structural Model assessment

The same data set is used to build the conceptual model that was previously mentioned in "Smart PLS" (See Figure 1). The model includes item loading on constructs and relationships between these constructs. The simple PLS algorithm was applied first, and then bootstrapping method was employed for significance testing. Then structural links between latent variables based on existing theories, is established, the model's validity and fit are assessed, and subsequently all structural relationships using various statistical methods are tested, particularly regression and path coefficients. Lastly, the empirical data is used to validate the theories underlying the model.

3.3.1 Loading's of the variables

To begin with, the examination of item loading with respect to the indicators was conducted (refer to Figure 2 above). All of the items exhibited loading exceeding the widely accepted benchmark of 0.6, as established by prior research ("Hair et al., 2010"; "Malhotra et al., 2006"). This study demonstrated that, typically, "item loading are higher in "PLS-SEM" than in "CB-SEM". Additionally, it was observed that the range of loading (the difference between the "highest and loading" within lowest а single construct) was narrower in "PLS-SEM" "CB-SEM". when compared to Consequently, it can be inferred that the "PLS method" yields more consistent item loading, which in turn enhances "the reliability and validity" of the factors.



3.3.2 Model Fit indices

In comparison to CB (covariance-based) modelling, PLS (partial least squares) modelling provides a more restricted range of model fit indices. PLS offers a few approximate measures such as "SRMR (Standardized Root Mean Square Residual)", "NFI (Normed Fit Index)", and "Chi2 (Chi-squared)", along with "exact measures like d_ULS" ("squared Euclidean distance") and "d_G" ("geodesic distance"), as



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proposed "by Dijkstra and Henseler" in "2015a" and "2015b".

3.3.3 "Construct reliability and Validity"

Table No.6

Model Fit		
	"Saturated	"Estimated
	model"	model"
"SRMR"	0.066	0.066
"d_ULS"	0.519	0.519
"d_G"	0.203	0.203
"Chi-square"	291.163	291.163
"NFI"	0.844	0.844

"Ave rage "Comp "Comp varia osite osite nce reliabil reliabil extra "Cronb ity ity cted ach's (rho a (rho c (AVE)")")" alpha" CH 0.908 0.873 0.877 0.666 OP 0.841 0.845 0.887 0.612 WE 0.854 0.856 0.895 0.631

The results indicate that "SRMR value is 0.066", which is "lower than the threshold value of 0.08". Further, the values for both d LS (0.519) and d G (0.203), the difference between the "estimated and saturated models" is nil. The model can be considered a saturated one with zero free paths. The NFI value is 0.844, falling below the recommended acceptance values of "0.9 (Byrne, 1994) or "0.95" ("Lomax and Schumacker, 2012"). It's worth noting that while an ideal NFI score is 1 (Moss, 2009), the range for this "fit index" typically varies from "0 to 1". However, according to general guidelines, models with an "NFI lower than 0.9" can usually benefit from significant improvements ("Bentler and Bonett, 1980").

In this study, "average variance extracted (AVE)" values varied from "0.612 to 0.666", while "Cronbach's Alpha" values ranged from "0.841 to 0.873". "Composite reliability" (rho_a) for all constructs was strong and ranged from "0.845 to 0.877".

3.3.4 Discriminant Validity HTMT ratio

According to "Garson (2016)", a wellfitting model should include hetero trait correlations that are less significant than mono trait correlations, which implies that "the HTMT ratio" should be "lower than 1.0". However, "Henseler et al. (2015)" advised a cut off of "0.9", and



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Kline (2015) adopted an even tighter cut off of 0.85. Every "HTMT ratio" is below "0.85".

Fornell and Larker criteria

The diagonal values ("Square root of AVE") were found to be larger than the values in the corresponding row or column (Correlations) indicating discriminant validity.

3.3.5 Absence of Cross loading and Multicollinearity (VIF)

As the VIF values for both inner and outer models were found to be less than 3.0, it can indicate absence of multicollinearity in the proposed model.

3.3.6 Quality Criteria

R² and adjusted R

Table No. 7

	R-	R-square
	square	adjusted
WE	0.19	0.183

Effect Size – f²

Table No. 8

	f-square
CH -> WE	0.011
OP -> WE	0.109

The model (independent variables – Opportunities and Challenges - together) explains 19 % of the total variance in the target variable (Impact on Women empowerment).

The effect of Opportunities on Women empowerment is small (0.109); while that of Challenges is negligible (0.011)

3.3.7 Relationship among constructs and Hypotheses testing Path coefficients, t-statistics, p values etc.

Table No. 9

	"Path Coefficients"								
	"Original sample (O)"	'Sample mean (M)"	"Stand ard deviati on (STDE V)"	"T statistics (O/STD EV)"	"P values"				
CH - > WE	0.115	0.12	0.084	1.367	0.172				
OP - > WE	0.36	0.367	0.091	3.938	0				

The results shown above indicate that the path OP > WE are substantial (mean = 0.36) while the path Ch > WEis not significant and small (mean = 0.115).

Hypotheses testing

"Hypothesis 1 (H1)". The perceived empowerment of "Women Entrepreneurs is positively related" to the perceived opportunities available



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to them is not rejected at 95 % confidence level.

"Hypothesis 2 (H2)". The perceived empowerment of "Women Entrepreneurs is positively related" to the perceived challenges faced by them is rejected at 95 % confidence level.

4. DISCUSSION & CONCLUSION

In this study we evaluated "the model's goodness of fit (GoF)" and tested "the research hypotheses" using various "coefficient measures, including R²)", determination (R-Square, "standardized root square means residual (SRMR)", "path coefficients", "model effect size (f^2) ". The results from the final model indicate that hypothesis (H1) received support, while hypothesis (H2) did not find support.

4.1 Theoretical Implications

This provides significant study contributions to theory, literature, and practical applications. Firstly, it introduces a conceptualization of women's empowerment variables and assigns measures to them, utilizing the adaptable nature of these factors, which encompass opportunities, challenges, and the environments affecting women. Most notably, the study contributes to

theory by employing "confirmatory analysis (CFA)", factor allowing "researchers to examine the hypothesis a connection exists that between observable variables and their underlying latent constructs". This is in line with the study's objective of predicting and elucidating the relationships between "exogenous and endogenous constructs" (as discussed by "Hair et al. in 2017"). Another noteworthy contribution lies in the utilization of both "covariance-based structural equation modelling" ("CB-SEM") and "partial least squares structural equation modelling" ("PLS-SEM)" to evaluate model fit" and subsequently conduct structural analysis.

4.2 Practical Implications

The study on the "Impact of Opportunities and Challenges on Women Entrepreneurs Empowerment in India" offers practical implications for policies and initiatives supporting entrepreneurs. women It suggests tailoring business support programs, facilitating access to finance, providing market access and networking opportunities, and focusing on capacity building. Legal and regulatory reforms, technology adoption, work-life balance, and promoting women in non-traditional



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sectors are also recommended. The study provides evidence-based guidance for fostering an enabling environment for women entrepreneurs in India.

4.3 Managerial Implications

of The study on the "Impact and Challenges Opportunities on Women Entrepreneurs Empowerment in India" offers several managerial implications for organizations and institutions. These include implementing diversity and inclusion policies, customized training programs, and supplier diversity initiatives. Providing access to funding, mentor ship, and networking opportunities, "as well as work-life promoting balance and recognizing women entrepreneur's" achievements, are also recommended. Additionally, advocating for supportive policies and fostering partnerships, encouraging technology adoption, and targeting markets effectively can contribute to creating an inclusive environment for women entrepreneurs.

4.4 Limitations & Future Research

The study on the "Impact of Opportunities and Challenges on Women Entrepreneurs Empowerment in India" may have limitations such as a potentially limited geographical scope,

data collection sample size, and methods. Future research could address these limitations by considering larger and more diverse samples, employing diverse data collection methods, and conducting longitudinal studies. Additionally, future research could explore in-depth case studies, assess the impact of supportive policies, conduct cross-cultural comparisons, and examine the intersectionality of gender with other factors. Technological adoption, global market access, and long-term trajectories of women entrepreneurs are also promising areas for future investigation. By addressing these aspects, research can provide a more comprehensive of understanding women's entrepreneurship and empowerment in India.

4.5 Conclusion

In this study, we have demonstrated the use of "PLS-SEM path analysis" to integrate "both CB-SEM and PLS-SEM" in assessing the impact of opportunities and challenges on Women's Empowerment. The results of the model, with an R-squared value of 0.19 and an "effect size (f2) of 0.110," that opportunities suggest and challenges together explain 19% of the overall variance in Women's



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Empowerment. However, it's worth noting that only the path connecting "Opportunities to Women's Empowerment" was found to be statistically significant.

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